



Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Volume 2
Ecodistrict Summaries

B.L. Henson and K.E. Brodribb



2005

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Nature Conservancy of Canada and the
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The maps presented in this report are for illustrative purposes only. These maps are not intended as a precise indication of routes, locations of features, or as a guide to navigation.

Cover photos: Silver Maple Swamp, Dwarf Lake Iris (*Iris lacustris*), Five-lined Skink (*Eumeces fasciatus*) (W.D. Bakowsky, NHIC Archives). Blue Racer (*Coluber constrictor foxii*), Swamp Rose Mallow (*Hibiscus moscheutos*) (M.J. Oldham, NHIC Archives).

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

The Nature Conservancy of Canada is a non-profit, non-advocacy organization that takes a business-like approach to land conservation and the preservation of Canada's biodiversity. Its plan of action involves partnerships and creative conservation solutions with individuals, corporations, community groups, conservation organizations and government agencies that share its passion. Since 1962, NCC and its supporters have protected more than 725,000 hectares (1.8 million acres) of ecologically significant land across Canada – mountains and valleys, coasts and lakes and rivers, prairies, forests, wetlands and tundra – and all the species and ecosystems that those landscapes support.

The Natural Heritage Information Centre was established in 1993, as a partnership between the Ontario Ministry of Natural Resources, the Nature Conservancy of Canada, the Natural Heritage League and The Nature Conservancy. The NHIC maintains a central database for all of Ontario's natural areas, and species and communities of conservation concern, and works with partners on a wide-range of conservation initiatives. Science-based information is made available to organizations and individuals involved in the conservation of biodiversity. The NHIC also represents Ontario's interests in many national and international biodiversity and conservation matters through the NatureServe network.

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Summary

The second volume of the Great Lakes Conservation Blueprint for Terrestrial Biodiversity report consists of a series of summary reports outlining the biodiversity targets within each ecodistrict in the Great Lakes ecoregion. The ecodistrict summary reports also characterize the degree to which these biodiversity features occur within protected areas, conservation lands and the Conservation Blueprint portfolio. There are two maps associated with each ecodistrict; one map shows ecological systems and the second map illustrates the Conservation Blueprint. The Conservation Blueprint maps are shaded according to the current protection status of the site. The digital GIS data layers pertaining to the Conservation Blueprint provide further detailed information; this and other local information should be consulted when planning at finer-scales, rather than relying exclusively on the maps in this document.

Acknowledgements

We would like to thank Dr. Bill Crins for providing the draft Ecological Land Classification documents cited below that assisted with the development of the general descriptions of the ecodistrict summaries within the report. We also thank Greg Sikma of the Provincial Geomatics Service Centre who designed the maps in this report, and Derek Johnston-Main, Thomas Krahn, Eric Beattie and Lisa Casselman for providing data for the features and ecological systems tables. We are also thankful to Jarmo Jalava for his comments and thoughtful review of these reports.

Crins, W.J. *In prep.* The Ecological Land Classification System in Ontario: Characterization of the Revised Upper Levels of the Hierarchy (Ecozones, Ecoregions, and Ecodistricts). Ontario Ministry of Natural Resources, Peterborough.

Jalava, J.V., J.L. Riley, D.G. Cuddy and W.J. Crins. *In prep* Natural Heritage Resources of Ontario: Revised Site Districts in Ecological Site Regions 6E and 7E. Ontario Ministry of Natural Resources, Peterborough.

Glossary of terms

ANSI, Area of Natural and Scientific Interest: an area of land and water containing natural landscapes or features that have been identified as having life science or earth science values related to protection, scientific study or education under the Provincial Policy Statement (1996). These areas can be identified as having provincial or regional significance and can be situated on crown or private land. The Ontario Ministry of Natural Resources administers the ANSI program.

Biodiversity: the word "biodiversity" is a contraction of "biological diversity" and is commonly used to describe the number, variety and variability of living organisms. Biodiversity is commonly defined in terms of the variability of genes, species and ecosystems, corresponding to these three fundamental and hierarchically related levels of biological organization.

Biodiversity Target: an element of biodiversity selected as a focus for conservation planning or action. The three principle types of targets are species, ecological communities and ecological systems.

Biome: a regional ecosystem characterized by distinct types of vegetation, animals, and microbes that have developed under specific soil and climatic conditions.

Coarse-filter: an approach to assess and conserve species diversity by providing adequate representation (distribution and abundance) of ecological systems. The coarse-filter approach scores, compares and selects from among equivalent land units, terrestrial ecological systems in this case, and is often followed by and combined with a fine-filter approach.

Condition: measures the degree of which anthropogenic disturbances have occurred at a site. Currently, the condition of a site can only be accurately determined through field inspection.

Conservation Goal: the number and spatial distribution of occurrences of targeted species, vegetation communities and/or ecological systems considered necessary to adequately conserve the target in an ecodistrict, physiographic region or tertiary watershed.

Conservation Lands: natural areas that are managed or regulated (*e.g.*, through land-use policy) for the long-term protection of their significant natural heritage values. The conservation lands identified in the Great Lakes Conservation Blueprint include protected areas (National Parks, Migratory Bird Sanctuaries, National Wildlife Areas, Provincial Parks, Conservation Reserves), as well as Provincially Significant Life Science Areas of Natural and Scientific Interest (ANSIs), Provincially Significant Wetlands, Conservation Authority lands, and Nature Conservancy of Canada properties.

Conservation Reserves: complement Provincial Parks in protecting representative natural areas and special landscapes and are regulated under the Public Lands Act. Most non-industrial resource uses (*e.g.*, fur harvesting, commercial fishing and bait harvesting) are permitted if they are compatible with the values of individual reserves. Most recreational and non-commercial activities can continue in the area provided they pose little threat to the natural ecosystems and features protected by the conservation reserve.

COSEWIC, Committee on the Status of Endangered Wildlife in Canada: is a national committee of experts that assess and designate which wild species are in danger of disappearing from Canada. COSEWIC assigns the following status to species:

Status	Description
EXT, Extinct	A species that no longer exists
EXP, Extirpated	A species no longer existing in the wild in Canada, but occurs elsewhere
END, Endangered	A species facing imminent extirpation or extinction
THR, Threatened	A species likely to become endangered if limiting factors are not reversed
SC, Special Concern	A wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats
NAR, Not At Risk	A species that has been evaluated and found to be not at risk of extinction given the current circumstances
DD, Data Deficient	A species for which there is inadequate information to make a direct, or indirect, assessment of its risk of extinction

COSSARO, Committee on the Status of Species at Risk in Ontario: a provincial group of experts whose mandate is to evaluate and recommend a provincial status to candidate species and re-evaluate current species at risk for the Ontario Ministry of Natural Resources. COSSARO employs a uniform, scientifically-based, defensible approach to status evaluations. The committee evaluates species by considering factors such as population size, trends and distribution, habitat trends and known threats. Based on its evaluation, COSSARO recommends the appropriate provincial status category for each candidate species. Once designated by the OMNR, assessed species are maintained on the OMNR's SARO List.

Declining Species: exhibit significant, long-term declines in habitat and/or abundance, are subject to a high degree of threat, or may have unique habitat or behavioural requirements that expose them to a great risk.

Disjunct Species: have populations that are geographically isolated from each other by at least one ecoregion.

Diversity: the variety of living organisms considered at all levels of organization including the genetic, species, and higher taxonomic levels. Biological diversity includes the variety of habitats, ecosystems and natural processes occurring within them.

Ecodistrict: a subdivision of an ecoregion characterized by distinctive assemblages of relief, geology, landforms and soils, vegetation, water, fauna, and land use.

Ecological Functions: the natural processes, products or services that living and non-living environments provide or perform within or between species, ecosystems and landscapes. These may include biological, physical and socio-economic interactions.

Ecological System: dynamic spatial assemblages of ecological communities characterized by both biotic and abiotic components that 1) occur together on the landscape; 2) are tied together by similar ecological processes (*e.g.*, fire, hydrology), underlying environmental features (*e.g.*, soils, geology) or environmental gradients (*e.g.*, elevation, hydrologically-related zones); and 3) form a robust, cohesive, and distinguishable unit on the ground.

Element: refers to an element of biodiversity, a term used by CDCs and NatureServe to refer to the forms of biodiversity upon which CDCs and NatureServe compile information: species (including sub-species, varieties and hybrids) and natural communities.

Element Occurrence (EO): an area of land and/or water in which a species or natural community is, or was, present. An EO should have practical conservation value for the element (species or vegetation community) as evidenced by potential continued (or historical) presence and/or regular recurrence at a given location. For species, the EO often corresponds with the local population, but when appropriate may be a portion of a population (*e.g.*, long-distance dispersers) or a group of nearby populations (*e.g.*, metapopulation). For vegetation communities, the EO may represent a stand or patch of a natural community, or a cluster of stands or patches of a natural community. The Natural Heritage Information Centre is the central repository for Element Occurrence records.

Endemic: a species or ecological system that is restricted to a region, such as the Great Lakes ecoregion. Many endemic species and systems are generally considered more vulnerable to extinction due to their dependence on a single area for their survival.

Fine-filter: an approach to assess and conserve species diversity, in conjunction with a coarse-filter approach, for viable native species and ecological communities that cannot be reliably conserved through a coarse-filter and may require individual attention. Fine-filter targets include globally imperiled species (G1 to G3G4), species at risk, endemic species, declining species, disjunct species, focal species, wide-ranging species and rare vegetation communities.

Focal Species: have spatial, compositional, and functional requirements that may encompass those of other species in the region and may help address the functionality of ecological systems. Examples include keystone species, wide-ranging species, and cave-dwelling species.

Globally Imperiled Species: have been assigned a global rank of G1 or G2 by NatureServe (www.natureserve.org).

GRank (Global Rank): the overall status of a species or ecological community is regarded as its "global" status; this range-wide assessment of condition is referred to as its global conservation status rank (GRank). Global conservation status assessments are generally carried out by NatureServe scientists with input from relevant natural heritage member programs (such as the NHIC in Ontario) and experts on particular taxonomic groups, and are based on a combination of quantitative and qualitative information. The factors considered in assessing conservation status include the total number and

condition of occurrences; population size; range extent and area of occupancy; short- and long-term trends in these previous factors; scope, severity, and immediacy of threats, number of protected and managed occurrences, intrinsic vulnerability and environmental specificity.

Ranking	Definition
G1, Critically Imperiled	At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors
G2, Imperiled	At high risk of extinction due to a very restricted range, very few populations (often 20 or fewer), steep declines, or other factors
G3, Vulnerable	At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors
G4, Apparently Secure	Uncommon but not rare; some cause for long-term concern due to declines or other factors
G5, Secure	Common; widespread and abundant
GH	Possibly Extinct (species)- missing; known from only historical occurrences but still some hope of rediscovery or Presumed Eliminated (historic, ecological communities)- Presumed eliminated throughout its range, with no or virtually no likelihood that it will be rediscovered but with the potential for restoration
GX	Presumed extinct (species)- not located despite intensive searches and virtually no likelihood of rediscovery or Eliminated (ecological communities) - Eliminated throughout its range, with no restoration potential due to extinction of dominant or characteristic species
GU	Unrankable, currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Whenever possible, the most likely range is assigned and the question mark qualifier is added (<i>e.g.</i> , G2?) to express uncertainty, or a range rank (<i>e.g.</i> , G2G3) is used to delineate the limits (range) or uncertainty
?	Denotes inexact numeric rank (<i>i.e.</i> , G4?)
G?	Unranked, or, if following a ranking, rank tentatively assigned (<i>e.g.</i> , G3?)
Q	Questionable taxonomy- taxonomic distinctiveness of this entity at the current level is questionable
T	Denotes that the rank applies to a subspecies or variety

Limited Species: are nearly restricted to the Great Lakes ecoregion. These are species that are not "true" endemics because there may be populations outside the ecoregion. However, the core part of the species range is in the Great Lakes ecoregion.

Muskeg: this is the term used for peatlands (bogs and fens) by the Ontario Forest Resource Inventory, one of the digital mapping sources used in the analysis of the Conservation Blueprint.

NRVIS, Natural Resources and Values Information System: the Ontario governments' Geographical Information System (GIS) platform for storing, maintaining and managing tabular and spatial geographic information according to province-wide standards.

Peripheral: species or ecological systems that are located closer to the outer boundaries of an ecoregion than to the centre and are not widespread throughout the ecoregion (*e.g.*, where the Great Lakes ecoregion is the extreme edge of the species' range).

Primary Target: an element of biodiversity selected as a focus for conservation planning or action. The three main types of targets are species, vegetation communities and ecological systems.

PSW, Provincially Significant Wetlands: wetlands evaluated using the Ontario Ministry of Natural Resources' Ontario Wetland Evaluation System (OWES) and determined to be of provincial significance. Provincially significant wetlands are afforded protection from development through the Provincial Policy Statement if they occur south and east of the Canadian Shield. Evaluated wetlands can occur on either Crown or private land.

Protected Areas: natural area designation that is regulated under legislation such as the National Parks Act, Provincial Parks Act or the Public Lands Act. Protected areas identified in the Great Lakes Conservation Blueprint include National Parks, National Wildlife Areas, Migratory Bird Sanctuaries, Provincial Parks and Conservation Reserves.

Rare Vegetation Communities: ecological communities that have been identified by the Natural Heritage Information Centre (NHIC) and have been ranked as provincially significant (S1, S2 or S3).

SAR, Species at Risk: species designated as Endangered, Threatened or Special Concern by either the Ontario Ministry of Natural Resources (OMNR) or the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

SARO, Species At Risk in Ontario List: list issued by the Ontario Ministry of Natural Resources. These status designations apply to the provincial level, and are used in the application of Ontario's legislation and policy for the protection of species at risk and their habitat. Ontario status designations are the product of complementary review and assessment processes implemented at national and provincial levels. The provincial review process is implemented by the OMNR's Committee on the Status of Species at Risk in Ontario (COSSARO), which includes non-OMNR representation.

Status	Description
EXT, Extinct	A species that no longer exists anywhere
EXP, Extirpated	A species that no longer exists in the wild in Ontario but still occurs elsewhere
END-R, Endangered (Regulated)	A species facing imminent extinction or extirpation in Ontario which has been regulated under Ontario's Endangered Species Act (ESA)
END, Endangered (Not Regulated)	A species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's ESA
THR, Threatened	A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed
SC, Special Concern	A species with characteristics that make it sensitive to human activities or natural events (formerly Vulnerable)
NAR, Not at Risk	A species that has been evaluated and found to be not at risk (formerly Not In Any Category)
DD, Data Deficient	A species for which there is insufficient information for a provincial status recommendation (formerly Indeterminate)

Secondary Target: an element of biodiversity (species or vegetation community) that is of some conservation concern in the Ontario portion of the Great Lakes. Occurrences of secondary biodiversity targets were included in the Conservation Blueprint portfolio where their occurrence coincided with either a primary target occurrence, a protected area or conservation land.

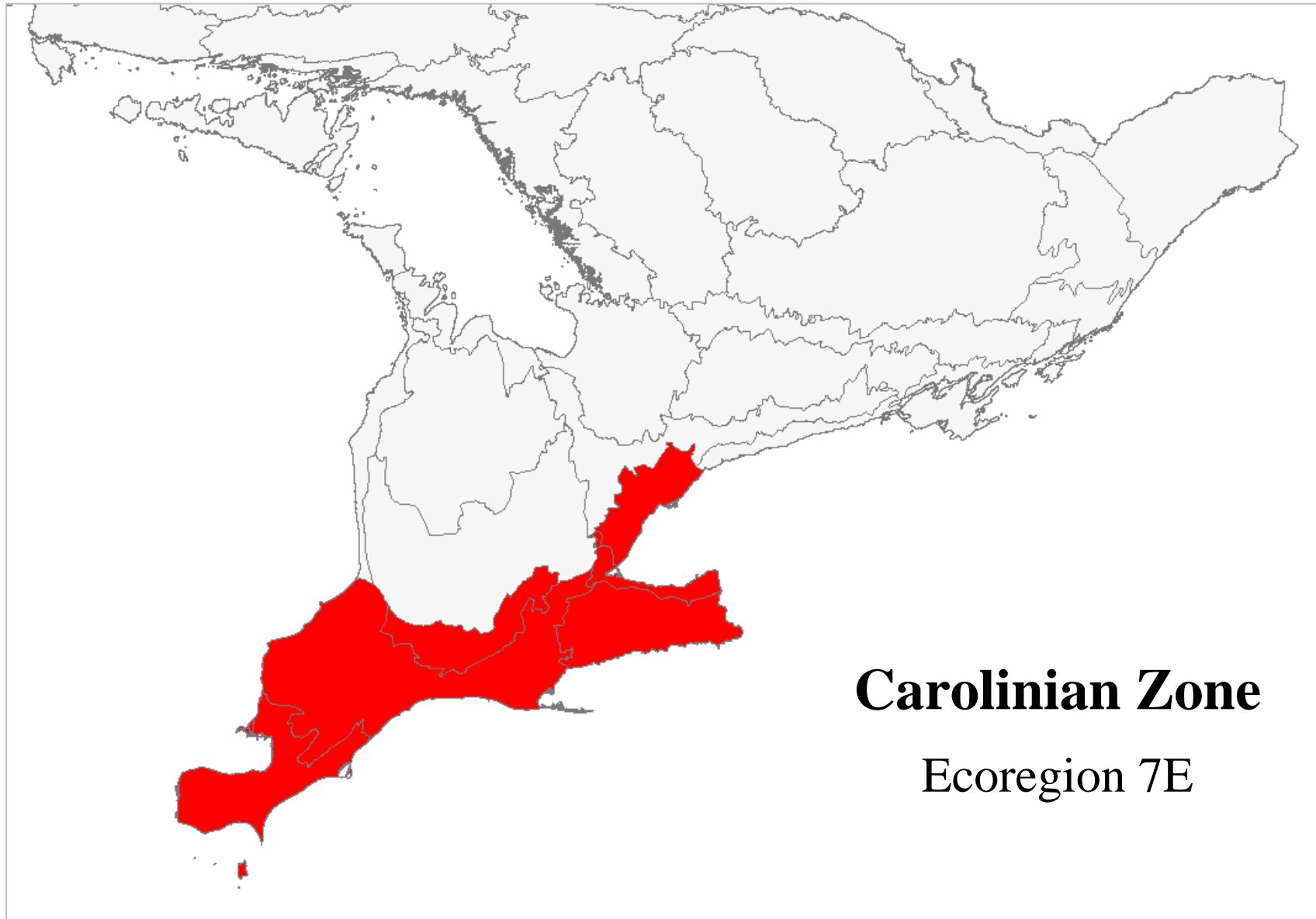
SRank (Provincial Rank): provincial (or Subnational) ranks are used by the Ontario Natural Heritage Information Centre to set conservation priorities for rare species and vegetation communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. Comparison of global and provincial ranks, gives an indication of the status and rarity of an element in Ontario in relation to its overall conservation status, therefore providing insight into the urgency of conservation action for it in the province. The NHIC evaluates provincial ranks on a continuous basis and produces updated lists annually.

Ranking	Description
S1	Extremely rare in Ontario; usually 5 or fewer occurrences in the province or very few remaining individuals; often especially vulnerable to extirpation
S2	Very rare in Ontario; usually between 6 and 20 occurrences in the province or with many individuals in fewer occurrences; often susceptible to extirpation
S3	Rare to uncommon in Ontario; usually between 21 and 100 occurrences in the province; may have fewer occurrences, but with a large number of individuals in some populations; may be susceptible to large-scale disturbances.
S4	Common and apparently secure in Ontario; usually with more than 100 occurrences in the province
S5	Very common and demonstrably secure in Ontario
SH	Historically known from Ontario, but not verified recently (typically not recorded in the province in the last 20 years); however suitable habitat is thought to be still present in the province and there is reasonable expectation that the species may be rediscovered
C	Captive/Cultivated; existing in the province only in a cultivated state; introduced population not yet fully established and self-sustaining
S?	Not ranked yet, or if following a ranking, rank uncertain (<i>e.g.</i> , S3?). S? species have not had a numerical rank assigned
SA	Accidental; of accidental or casual occurrence in the province; far outside its normal range; some accidental species may occasionally breed in the province
SAB	Breeding accidental
SAN	Non-breeding accidental
SE	Exotic; not believed to be a native component of Ontario's flora or fauna
SR	Reported for Ontario, but without persuasive documentation which would provide a basis for either accepting or rejecting the report
SRF	Reported falsely from Ontario
SU	Unrankable, often because of low search effort or cryptic nature of the species, there is insufficient information available to assign a more accurate rank; more data is needed
SX	Apparently extirpated from Ontario, with little likelihood of rediscovery. Typically not seen in the province for many decades, despite searches at known historic sites
SZ	Not of practical conservation concern inasmuch as there are no clearly definable occurrences; applies to long distance migrants, winter vagrants, and eruptive species, which are too transitory and/or dispersed in their occurrence(s) to be reliably mapped; most such species are non-breeders, however, some may occasionally breed
SZB	Breeding migrants/vagrants
SZN	Non-breeding migrants/vagrants

Tertiary Watershed: delineation of watersheds that are nesting within primary and secondary watersheds. Tertiary watersheds are convenient sizes for watershed management and planning, and are comparable to the scale of an ecodistrict.

Wide-ranging Species: are highly mobile species that require large tracts of habitat for their survival. These include top-level predators, migratory mammals, birds and insects. The design of fully functioning networks of conservation sites needs to take into account the habitat requirements of such species, including factors such as linkages, natural corridors, interior habitats and roadless areas.

Widespread: species or ecological systems occurring naturally throughout the Great Lakes ecoregion and considerably beyond the ecoregion.



Chatham

Ecodistrict 7E-1

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 379,328 hectares (937,340 acres)

Land Ownership: 94% private, 1.5% public, 0.4% National Park, 4% First Nations lands

Planning Authority: 48% Essex County, 43% Chatham-Kent, 7% Lambton County

Physiography:

This southern-most ecodistrict in Ontario includes the St. Clair Clay Plains and minor till moraines. The two Erie Spits are largely occupied by Point Pelee National Park and Rondeau Provincial Park. The features to the north are the Bothwell Sand Plains and bevelled till plains of Ecodistrict 7E-2. This ecodistrict also contains Pelee Island, Middle Island and the other western Lake Erie islands.

Remaining Natural Cover:

Less than 8% of the ecodistrict remains as natural cover, nearly half of which is marsh. The majority of the remaining natural cover is a mixture of forested ecological systems comprised predominantly of sand plain deciduous forest complexes (4,071 ha), till plain deciduous forest complexes (3,714 ha) and clay plain deciduous forest complexes (2,140 ha). There are also 639 hectares of prairie and savannah remaining in 7E-1, approximately 18% of the total area of remnants documented for all of southern Ontario.

Land Use:

Over 88% of 7E-1 has been converted to developed agricultural lands (334,345 ha). An additional 9,725 hectares has been devoted to settlement and other associated developed lands, including the city of Windsor.

Protection and Conservation:

Conservation lands make up approximately 3% of Ecodistrict 7E-1



(11,860 ha). Provincially significant life science ANSIs account for the bulk of this area, at 6,130 hectares (1.6% of the ecodistrict), of which 455 hectares coincide with provincial parks. Forty-five percent of all occurrences of rare species and vegetation community targets in 7E-1 are within conservation lands, largely within provincially significant life science ANSIs.

Species Targets:

Over half of the 79 targeted species occurring in 7E-1 are vascular plants. Other species targets include globally rare mosses, lepidoptera and odonates, and at risk birds, herpetofauna and mammals. Nearly 75% of the targeted species have at risk designations assigned by COSEWIC and OMNR.

Vegetation Community Targets:

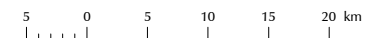
Eleven of the 20 significant vegetation communities in 7E-1 are globally rare (beaches, savannahs, alvars), 19 are provincially rare, and one is considered to be a high-quality representative vegetation community that is important to conservation.

Conservation Blueprint:

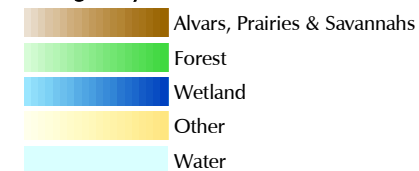
The Conservation Blueprint portfolio in Ecodistrict 7E-1 includes approximately 40% of all remaining natural cover, and nearly 60% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

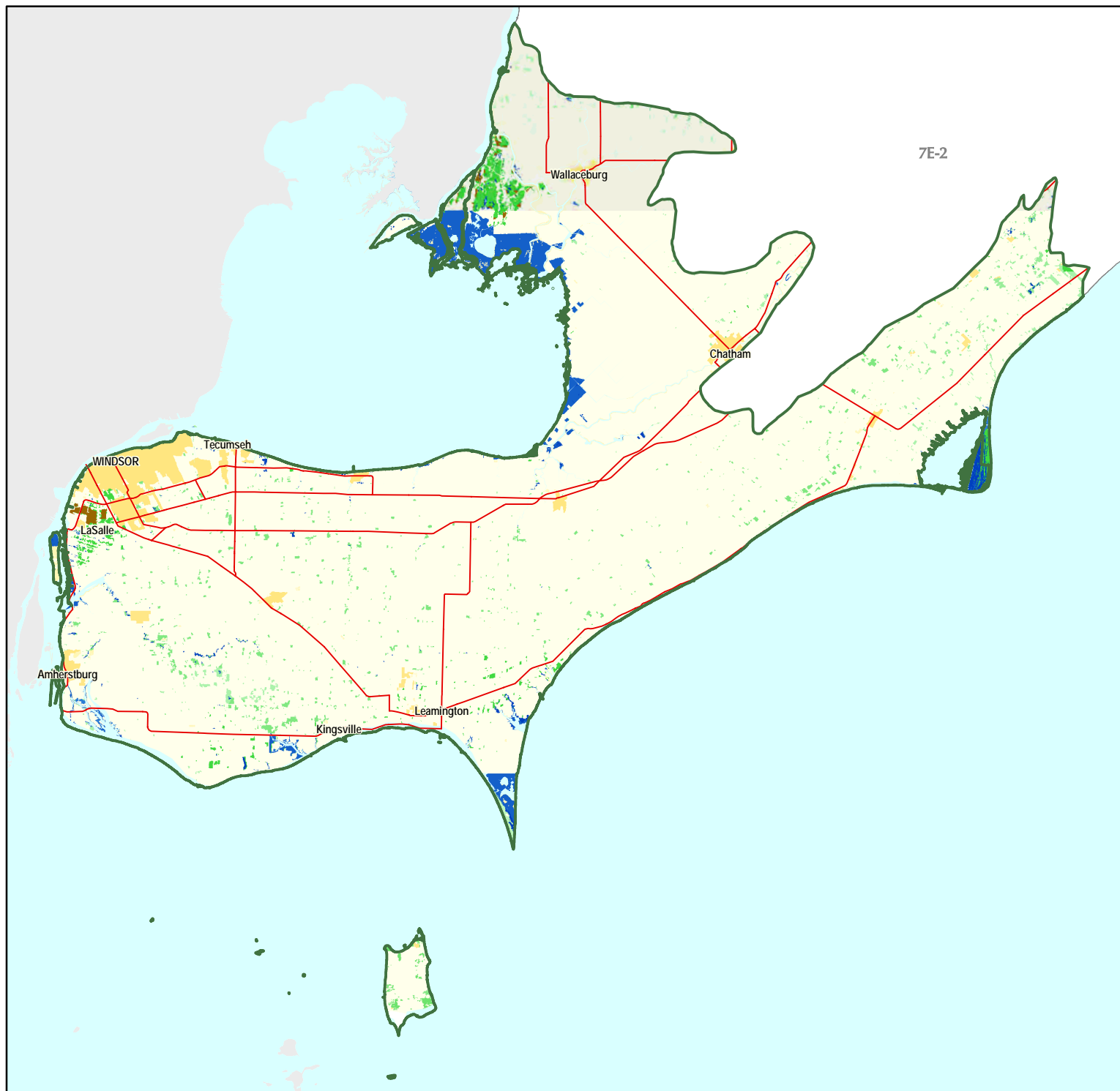
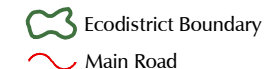
CHATHAM ECODISTRICT 7E-1



Ecological Systems



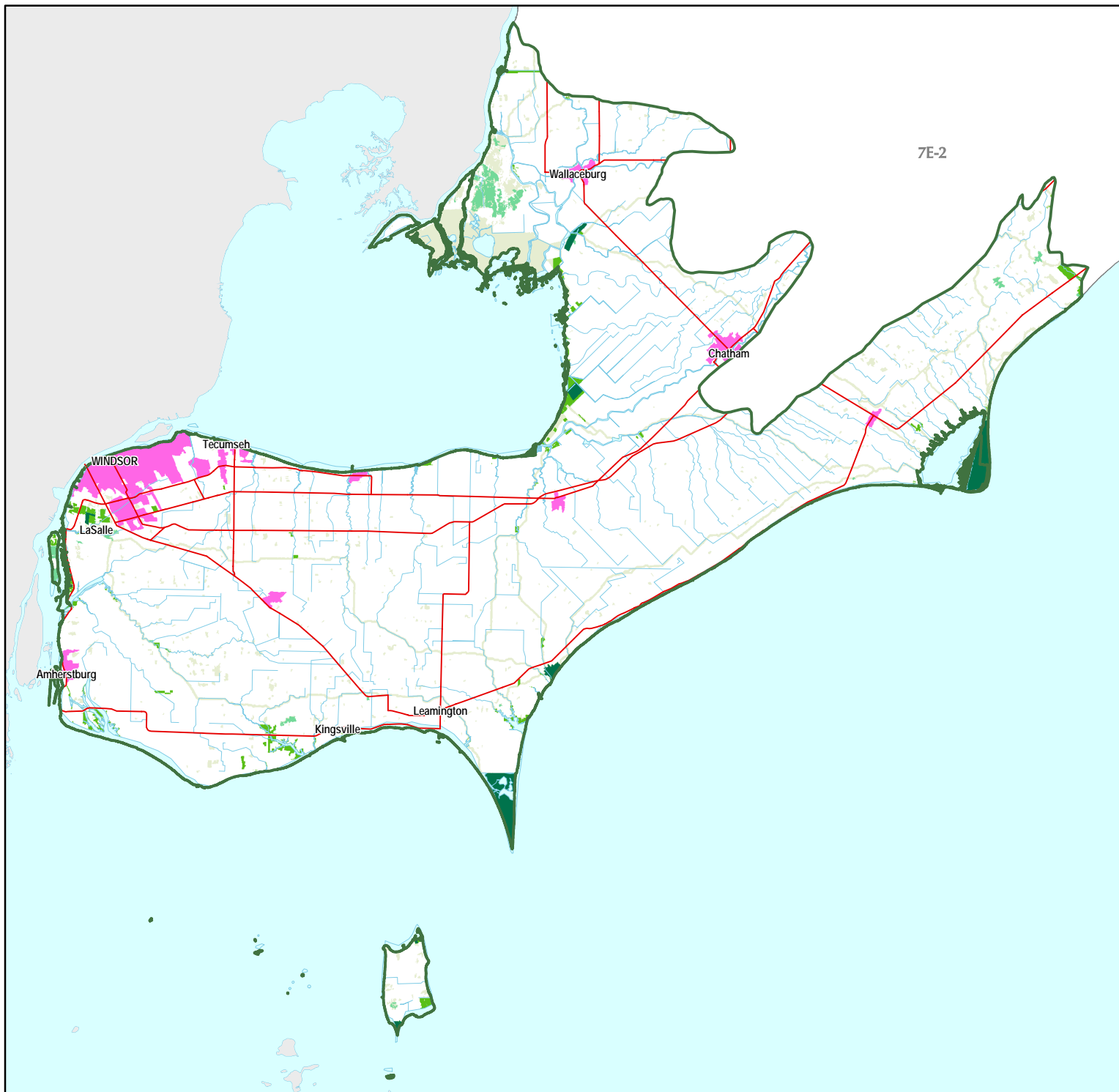
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

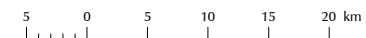
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7E-2

Great Lakes Conservation Blueprint for Biodiversity

CHATHAM ECODISTRICT 7E-1



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 7E-1

Number of pops in 7E-1	Scientific Name	Common Name	GRrank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS- ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Agalinis gattereri</i>	Gattinger's Agalinis	G4	S2	END	END	SAR	0	0	0	0	0	1	33	secondary
4	<i>Agalinis skinneriana</i>	Skinner's Agalinis	G3	S1	END	END-R	GRank SAR	0	0	0	0	0	2	50	2
9	<i>Aletris farinosa</i>	Colicroot	G5	S2	THR	THR	SAR	0	11	33	11	44	5	56	secondary
3	<i>Ammannia robusta</i>	Scarlet Ammannia	G5	S1	END	END	SAR	0	33	33	0	67	2	67	secondary
3	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	33	33	0	67	3	100	3
6	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	33	0	50	3	50	secondary
1	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3	S2			GRank	0	0	100	0	100	1	100	4
5	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	20	20	20	60	3	60	3
1	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	100	0	0	100	1	100	4
8	<i>Camassia scilloides</i>	Wild Hyacinth	G4G5	S2	THR	THR	SAR	0	25	38	0	50	6	75	secondary
1	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	0	0	0	0	0	0	0	secondary
7	<i>Castanea dentata</i>	American Chestnut	G4	S3	END	THR	SAR	0	0	29	0	29	3	43	secondary
3	<i>Celtis tenuifolia</i>	Dwarf Hackberry	G5	S2	THR	THR	SAR	33	33	67	0	67	3	100	3
1	<i>Chaerophyllum procumbens</i> var. <i>shortii</i>	Spreading Chervil	G5T3T4Q	S1			GRank	0	0	100	0	100	1	100	secondary
6	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	17	50	67	0	83	5	83	3
7	<i>Cornus florida</i>	Flowering Dogwood	G5	S2			declining	0	14	43	0	43	3	43	secondary
4	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	0	0	0	0	0	3	75	secondary
1	<i>Eleocharis geniculata</i>	Spike-rush	G5	S1			disjunct	0	0	0	0	0	1	100	3
12	<i>Fraxinus quadrangulata</i>	Blue Ash	G5	S3	SC	SC	SAR	8	8	42	0	50	8	67	secondary
1	<i>Gentiana alba</i>	White Prairie Gentian	G4	S1	END	END	SAR	0	0	0	0	0	0	0	secondary
8	<i>Gymnocladus dioica</i>	Kentucky Coffee-tree	G5	S2	THR	THR	SAR	0	13	13	0	25	4	50	secondary
29	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	7	14	14	10	66	22	76	secondary
12	<i>Hydrastis canadensis</i>	Goldenseal	G4	S2	THR	THR	SAR	0	8	25	0	33	7	58	secondary
4	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	25	0	0	25	2	50	2
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	100	0	100	0	100	1	100	secondary
2	<i>Lechea pulchella</i>	Pinweed	G5	S1			disjunct	0	0	0	0	0	2	100	3
2	<i>Lespedeza virginica</i>	Slender Bush-clover	G5	S1	END	END-R	SAR	0	0	100	0	100	2	100	secondary
8	<i>Liatris spicata</i>	Dense Blazing Star	G5	S2	THR	THR	SAR	0	0	25	0	38	4	50	secondary
6	<i>Liparis liliifolia</i>	Purple Twayblade	G5	S2	END	END	SAR	0	0	83	0	83	5	83	secondary
7	<i>Morus rubra</i>	Red Mulberry	G5	S2	END	END	SAR	29	14	57	0	71	5	71	secondary
2	<i>Opuntia humifusa</i>	Eastern Prickly Pear Cactus	G5	S1	END	END-R	SAR	50	50	100	0	100	2	100	secondary
3	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	33	67	33	100	3	100	2
1	<i>Panicum meridionale</i>	Panic Grass	G5	S1			disjunct	0	0	100	0	100	1	100	3
2	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	50	50	50	100	2	100	secondary
13	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	8	8	15	0	46	13	100	all viable
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	100	0	0	100	1	100	2
4	<i>Polygala incarnata</i>	Pink Milkwort	G5	S1	END	END-R	SAR	0	25	25	0	25	2	50	secondary
10	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	10	40	30	10	80	8	80	3
2	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	100	50	0	100	2	100	2
14	<i>Ptelea trifoliata</i>	Common Hoptree	G5	S3	THR	THR	SAR	7	14	43	0	57	9	64	secondary
14	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	7	14	3	21	secondary

Number of pops in 7E-1	Scientific Name	Common Name	GRrank	SRrank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS- ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants continued															
81	<i>Rosa setigera</i>	Climbing Prairie Rose	G5	S3	SC	SC	SAR	0	4	7	5	22	23	28	secondary
5	<i>Smilax rotundifolia</i>	Round-leaved Greenbrier	G5	S2	THR	THR	SAR	0	0	20	0	20	1	20	secondary
13	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	8	0	15	0	23	4	31	secondary
3	<i>Solidago speciosa</i> var. <i>rigidiuscula</i>	Showy Goldenrod	G5T4	S1	END	END	SAR	0	0	0	0	0	1	33	secondary
7	<i>Symphyotrichum praealtum</i>	Willowleaf Aster	G5	S2	THR	THR	SAR	0	0	43	0	57	4	57	secondary
2	<i>Triphora trianthophora</i>	Nodding Pogonia	G3G4	S1	END	END-R	GRank SAR	0	50	0	0	50	2	100	2
Mosses															
1	<i>Desmatodon porteri</i>	A Moss	G3?	S1			GRank	0	0	100	0	100	1	100	2
1	<i>Fissidens exilis</i>	Pygmy Pocket Moss	G3G4	S1	SC		GRank SAR	0	0	0	0	0	1	100	2
Birds															
22	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	5	0	18	5	32	8	36	secondary
4	<i>Colinus virginianus</i>	Northern Bobwhite	G5	S1S2	END	END	SAR	0	0	0	0	0	3	75	secondary
4	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	25	25	25	0	50	3	75	secondary
4	<i>Empidonax virescens</i>	Acadian Flycatcher	G5	S2B,SZN	END	END	SAR	0	50	25	0	50	2	50	secondary
7	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	14	14	43	0	86	6	86	secondary
9	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	33	22	11	56	6	67	secondary
6	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	17	17	50	0	83	5	83	secondary
1	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	100	1	100	secondary
2	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	0	50	0	0	50	1	50	secondary
12	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	8	8	17	0	58	8	67	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	100	0	0	100	1	100	secondary
Amphibians															
1	<i>Ambystoma texanum</i>	Small-mouthed Salamander	G5	S1	END	THR	SAR	0	100	100	0	100	1	100	secondary
5	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	0	20	0	0	20	1	20	secondary
Reptiles															
7	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	14	14	14	14	71	6	86	secondary
12	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	8	8	42	25	83	10	83	secondary
3	<i>Coluber constrictor foxii</i>	Blue Racer	G5T5	S1	END	END-R	SAR	0	0	33	0	33	1	33	secondary
42	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	2	12	19	2	33	18	43	4
7	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	14	14	14	0	29	4	57	secondary
3	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	67	33	0	100	3	100	secondary
10	<i>Nerodia sipedon insularum</i>	Lake Erie Watersnake	G5T2	S2	END	END-R	GRank SAR endemic	0	30	20	0	40	7	70	4
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0		0	secondary
1	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	0	0	0	0	1	100	4
11	<i>Thamnophis butleri</i>	Butler's Gartersnake	G4	S2	THR	THR	SAR	0	9	9	9	18	3	27	secondary
Mammals															
19	<i>Scalopus aquaticus</i>	Eastern Mole	G5	S2	SC	SC	SAR	0	0	16	16	32	7	37	secondary
2	<i>Urocyon cinereoargenteus</i>	Grey Fox	G5	S2B?	THR	THR	SAR	0	50	50	0	50	1	50	secondary
Lepidoptera															
2	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	0	0	0	0	2	100	2
15	<i>Euphyes dukesi</i>	Duke's Skipper	G3	S2			GRank	7	13	33	7	60	10	67	4

Number of pops in 7E-1	Scientific Name	Common Name	GRrank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Odonata															
3	<i>Aeshna mutata</i>	Spatterdock Darner	G3G4	S1			GRank	0	33	100	0	100	3	100	2
5	<i>Stylurus notatus</i>	Elusive Clubtail	G3	S2			GRank	0	0	20	0	20	2	40	2
Communities															
1	Canada Bluegrass - Nodding Onion Alvar Grassland Type		G1?	S1			GRank	0	0	100	0	100	1	100	all viable
2	Chinquapin Oak - Nodding Onion Treed Alvar Grassland Type		G1?	S1			GRank	0	50	100	0	100	2	100	all viable
1	Cottonwood Dune Savannah Type		G1G2	S1			GRank	0	100	100	0	100	1	100	all viable
6	Dry - Fresh Hackberry Deciduous Forest Type		G?	S2			SRank	0	33	67	0	83	5	83	3
2	Dry - Fresh Hickory Deciduous Forest Type		G4?	S3S4			SRank	0	0	50	0	50	2	100	3
1	Dry - Fresh White Ash Deciduous Forest Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	1	100	3
1	Dry Black Oak Deciduous Forest Type		G4?	S3			SRank	0	100	100	0	100	1	100	3
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	100	0	0	100	1	100	3
1	Hop-tree Dune Shrubland Type		G2Q	S1			GRank	100	0	100	0	100	1	100	all viable
2	Juniper Dune Shrubland Type		G?	S2			SRank	50	50	100	0	100	2	100	3
1	Little Bluestem - Switchgrass - Beachgrass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
7	Moist - Fresh Black Oak - White Oak Tallgrass Woodland Type		G2	S1			GRank	0	29	29	0	57	7	100	all viable
4	Moist - Fresh Black Oak Tallgrass Savannah Type		G2	S1			GRank	0	0	25	0	25	4	100	all viable
7	Moist - Fresh Pin Oak - Bur Oak Tallgrass Savannah Type		G1	S1			GRank	14	0	0	0	14	7	100	all viable
7	Moist - Fresh Tallgrass Prairie Type		G2	S1			GRank	29	14	29	0	57	7	100	all viable
3	Pin Oak Mineral Deciduous Swamp Type		G2	S2S3			GRank	0	0	33	0	33	3	100	all viable
1	Poison Sumac Organic Thicket Swamp Type		G4?	S3			SRank	0	0	100	0	100	1	100	3
1	Red Cedar Dune Savannah Type		G?	S1			SRank	100	0	100	0	100	1	100	3
3	Sea Rocket Sand Beach Type		G2G4	S2S3			GRank	0	67	67	0	67	3	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 7E-1

Ecological System	# of Patches in 7E-1	Total Area (ha) in 7E-1	% of Total Area of 7E-1	% of Natural Cover in 7E-1	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservati-on Lands	Total Area (ha) of all Conservati-on Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% System in the Blueprint
Target Forests	2,628	12,007.06	3.17	41.70	78	258.06	2.15	87	581.19	4.84	226	1,025.13	8.54	30	116.38	0.97	322	1,665.00	13.87	347	3,349.81	27.90
Prairies and savannahs	39	639.00	0.17	2.22				1	66.06	10.34	3	351.06	54.94				3	352.81	55.21	15	503.13	78.74
Wetlands	1,819	13,194.50	3.48	45.82	33	1,185.69	8.99	169	1,226.88	9.30	212	3,729.06	28.26	94	274.44	2.08	1,303	6,542.56	49.59	1,297	6,597.38	50.00
All ecological systems	10342	392201.18	100.00	100.00	274	1,918.06	0.35	398	3,827.69	0.70	1,177	6,129.81	1.12	291	817.19	0.15	2,644	11,859.50	2.17	2,677	13,963.81	2.56

Ecological systems details for Ecodistrict 7E-1

Ecological System	# of Patches in 7E-1	Total Area (ha) in 7E-1	% of Total Area of 7E-1	% of Natural Cover in 7E-1	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservati-on Lands	Total Area (ha) of all Conservati-on Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Beach & Shorecliff Coniferous Forest Complex	3	3.44	0.00	0.01	2	2.63	76.36				2	2.63	76.36				2	2.63	76.36	3	3.44	100.00
Beach & Shorecliff Mixed Forest Complex	19	23.38	0.01	0.08	18	23.31	99.73				19	23.38	100.00				19	23.38	100.00	19	23.38	100.00
Beach & Shorecliff Deciduous Forest Complex	96	290.13	0.08	1.01	55	219.25	75.57				55	219.06	75.51				55	219.88	75.79	57	228.31	78.69
Clay Plain Coniferous Forest Complex	4	7.94	0.00	0.03																		
Clay Plain Mixed Forest Complex	37	55.94	0.01	0.19							2	1.06	1.90				2	1.06	1.90	4	6.19	11.06
Clay Plain Deciduous Forest Complex	510	2,139.75	0.56	7.43	1	11.13	0.52				16	249.06	11.64	8	13.50	0.63	23	268.69	12.56	27	314.00	14.67
Mixed Forest Complex on Peat and Muck	3	5.06	0.00	0.02							1	3.13	61.73				1	3.13	61.73	1	3.13	61.73
Deciduous Forest Complex on Peat and Muck	35	189.94	0.05	0.66	1	1.13	0.59	3	54.88	28.89	15	50.06	26.36				19	106.06	55.84	20	125.38	66.01
Limestone Plain Mixed Forest Complex	25	153.69	0.04	0.53							12	82.13	53.44				12	82.13	53.44	13	111.81	72.75
Limestone Plain Deciduous Forest Complex	64	222.13	0.06	0.77				2	8.38	3.77	23	94.44	42.52				23	94.44	42.52	21	103.69	46.68
Sand Plain Coniferous Forest Complex	1	0.06	0.00	0.00																		
Sand Plain Mixed Forest Complex	55	70.94	0.02	0.25				6	6.69	9.43	7	7.00	9.87	1	0.88	1.23	8	7.88	11.10	8	7.88	11.10
Sand Plain Deciduous Forest Complex	563	4,071.38	1.07	14.14	1	0.63	0.02	70	510.69	12.54	51	187.06	4.59	8	12.13	0.30	118	659.50	16.20	127	1,966.06	48.29
Till Moraine Coniferous Forest Complex	2	6.00	0.00	0.02																		
Till Moraine Mixed Forest Complex	14	26.94	0.01	0.09																		
Till Moraine Deciduous Forest Complex	206	895.25	0.24	3.11																3	144.38	16.13
Till Plain Mixed Forest Complex	104	131.63	0.03	0.46							10	8.44	6.41	1	2.13	1.61	11	10.56	8.02	12	11.13	8.45
Till Plain Deciduous Forest Complex	887	3,713.50	0.98	12.90				6	0.56	0.02	13	97.69	2.63	12	87.75	2.36	29	185.69	5.00	32	301.06	8.11
Prairies and Savannahs	39	639.00	0.17	2.22				1	66.06	10.34	3	351.06	54.94				3	352.81	55.21	15	503.13	78.74
Wetlands																						
Marsh Complex	815	11,264.94	2.97	39.12	19	1,090.81	9.68	110	568.69	5.05	80	3,544.06	31.46	37	208.56	1.85	720	5,309.56	47.13	712	5,363.19	47.61
Swamp Complex	1,004	1,929.56	0.51	6.70	14	94.88	4.92	59	658.19	34.11	132	185.00	9.59	57	65.88	3.41	583	1,233.00	63.90	585	1,234.19	63.96
Non-Target Natural Ecological Systems																						
Coniferous Plantation Forest	3	29.25	0.01					3	28.63	97.86	3	28.81	98.50				3	29.00	99.15	3	29.00	99.15
Mixed Forest Complex	1	0.63	0.00	0.00	1	0.38	60.00				1	0.63	100.00				1	0.63	100.00	1	0.63	100.00
Deciduous Forest Complex	4	9.25	0.00	0.03	1	3.50	37.84				1	4.00	43.24				1	4.00	43.24	1	4.00	43.24
Other Landcover																						
Bedrock Outcrop	69	492.94	0.13	0.13	12	29.00	5.88	14	79.19	16.06	18	29.94	6.07				32	109.13	22.14	34	323.50	65.63
Pasture and Abandoned Fields	3,099	6,487.38	1.71		12	16.88	0.26	15	10.63	0.16	68	44.38	0.68	23	17.44	0.27	93	62.31	0.96	93	62.31	0.96

Ecological System	# of Patches in 7E-1	Total Area (ha) in 7E-1	% of Total Area of 7E-1	% of Natural Cover in 7E-1	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservati-on Lands	Total Area (ha) of all Conservati-on Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% System in the Blueprint
Other Landcover continued																						
Water	1,514	2,453.90	0.65	8.52	99	249.94	6.25	24	1,617.88	40.45	190	362.88	9.07	46	74.56	1.86	278	1,988.44	49.72	278	1,988.44	49.72
Unknown Landcover	117	10,195.06	2.69		2	0.44	0.00	17	110.06	1.08	14	116.13	1.14				18	132.19	1.30	18	132.19	1.30
Anthropogenic Land Types																						
Settlement and Developed Land	30	9,724.69	2.56																			
Cropland	937	334,344.75	88.14		36	174.19	0.05	68	107.19	0.03	440	437.44	0.13	98	334.38	0.10	589	973.06	0.29	589	973.06	0.29
NRVIS Pit or Quarry	82	1,077.06	0.28								1	0.38	0.03				1	0.38	0.03	1	0.38	0.03

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at http://www.mnr.gov.on.ca/mnr/nhic/projects/BP/bigpict_2002_main.cfm

St. Thomas

Ecodistrict 7E-2

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 944,486 hectares (2,333,875 acres)

Land Ownership: 98% private, 1% public, 1% First Nations lands

Planning Authority: 30% Lambton County, 18% Middlesex County, 18% Elgin County, 15% Norfolk County, 9% Chatham-Kent, 5% Brant County, 2% Oxford County, 2% Hamilton-Wentworth, 1% Huron County

Physiography:

This ecodistrict can be characterized as predominantly sand plains and some kame moraines. Its eastern boundary is at the transition between Norfolk Sand Plains and the Haldimand Clay Plains; and its southern boundary is at the transition between the till moraines and the clay plains. The northern boundary of 7E-2 is at the transition between the till plains in the central-north, and the limestone plains, kame moraines, sand plains and the influence of the Niagara Escarpment in the northeast. This ecodistrict contains the Erie Spit associated with Long Point.

Remaining Natural Cover:

Approximately 17% of the ecodistrict remains in a state of natural cover, primarily forest. Sand plain deciduous forest complex comprises 42% of this remaining natural cover, followed by clay plain deciduous forest complexes and till plain forest complexes, each with 14% of the remaining natural cover. Another 12% of the remaining natural cover is wetland, with two-thirds composed of swamp complexes. There are also 2,430 ha of prairies and savannahs remaining in 7E-2, approximately 68% of the total area of all remnants known in southern Ontario.

Land Use:

Over 80% of 7E-2 has been converted to developed agricultural lands (756,586 ha), with an additional 11,046 hectares devoted to settlement and other associated developed lands, including the city of Sarnia.



Protection and Conservation:

Conservation lands make up approximately 4% of Ecodistrict 7E-2 (39,875 ha). Provincially significant life science ANSIs account for nearly half of this land with a total of 18,517 hectares (2% of the ecodistrict), of which 1,202 hectares coincide with provincial parks. Forty-three percent of all occurrences of species and vegetation community targets in 7E-2 are within identified conservation lands; more than half of these are within provincially significant life science ANSIs.

Species Targets:

Over half of the 83 targeted species occurring in 7E-2 are plants. Many of the targeted plants are species at risk, including the Endangered Pitcher's Thistle (*Cirsium pitcheri*). All of the 13 birds, two amphibians, 11 reptiles and three mammals that were targeted have species at risk designations.

Vegetation Community Targets:

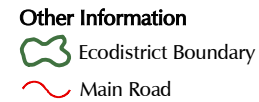
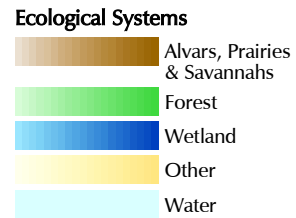
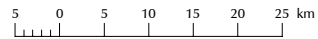
Six of the 27 significant vegetation communities identified within 7E-2 are globally rare (dunes, savannahs and tallgrass prairie), 14 are provincially rare, and 12 are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 7E-2 includes approximately 23% of all remaining natural cover, and half of the extant occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

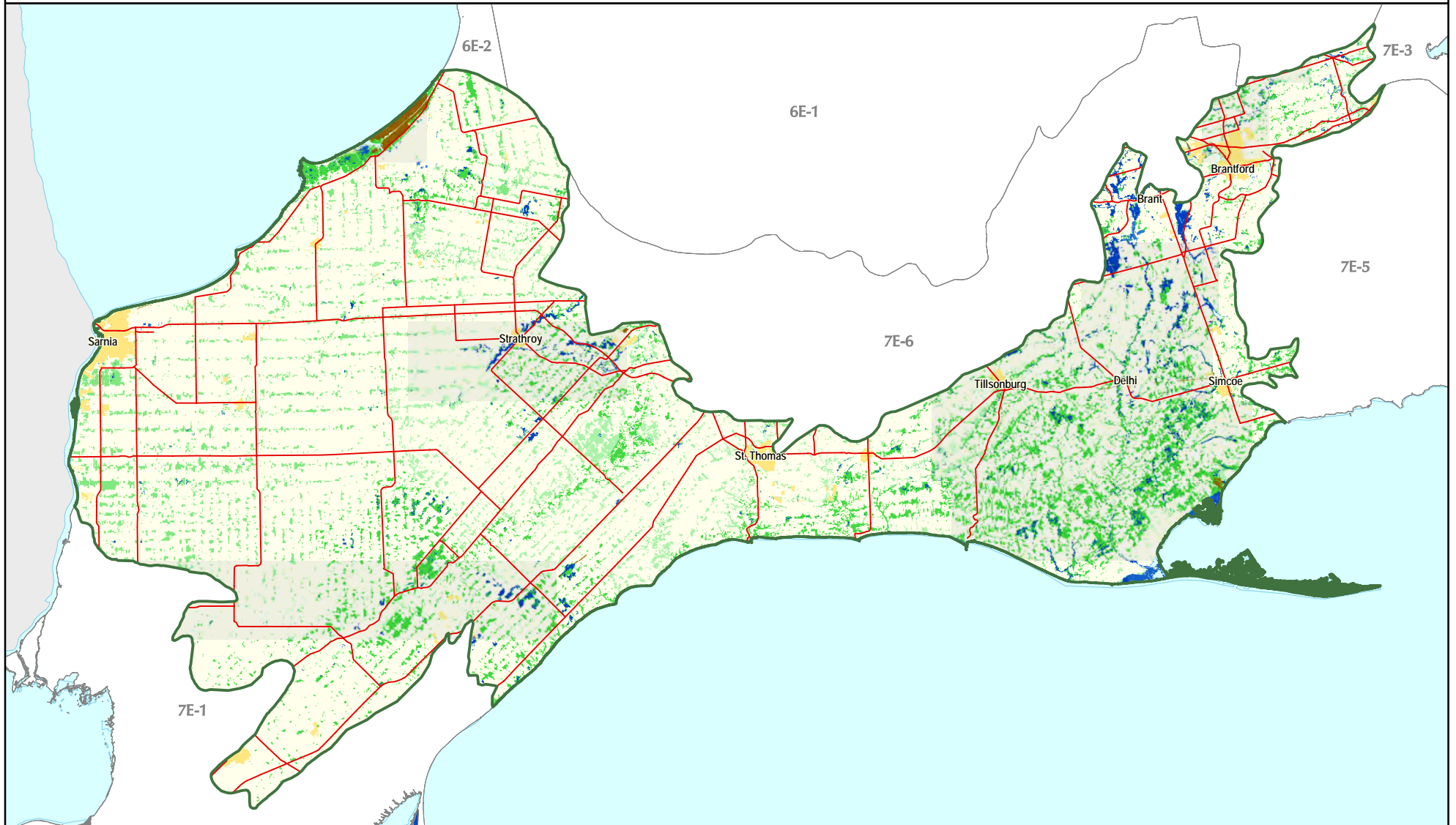
ST. THOMAS ECODISTRICT 7E-2



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

ST. THOMAS ECODISTRICT 7E-2

5 0 5 10 15 20 25 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

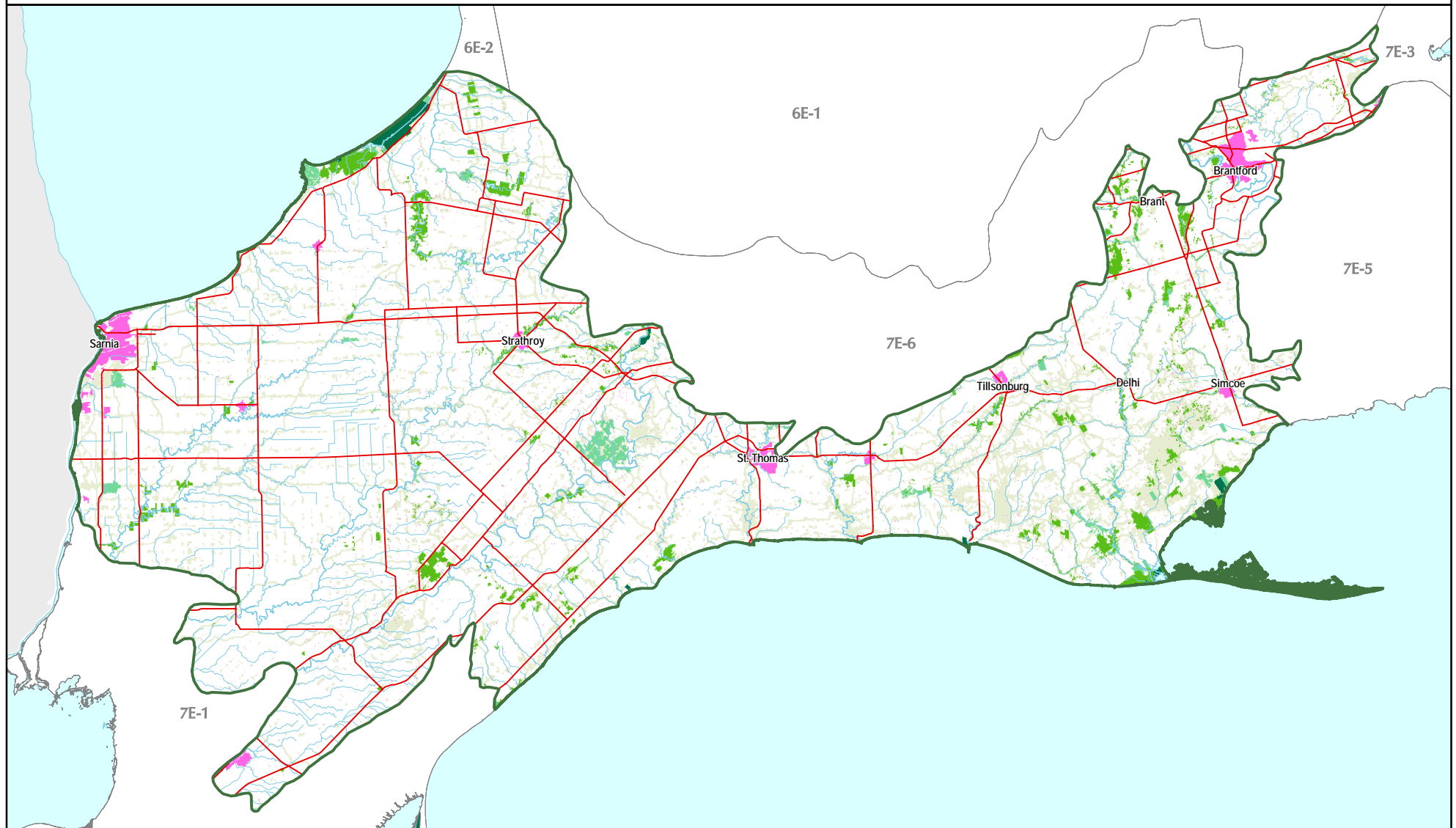
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 7E-2

Number of pops in 7E-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Aletris farinosa</i>	Colicroot	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
4	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	50	25	0	75	3	75	3
19	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	5	21	16	47	9	47	secondary
2	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	0	0	50	0	100	2	100	secondary
4	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3	S2			GRank	0	0	0	0	50	4	100	4
4	<i>Buchnera americana</i>	Bluehearts	G5?	S1	END	END	SAR	0	50	75	0	75	3	75	secondary
3	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	33	0	0	33	3	100	3
8	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	25	38	25	75	6	75	4
3	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	0	0	0	0	33	1	33	secondary
2	<i>Carex nigromarginata</i>	Black-edged Sedge	G5	S1			disjunct	50	0	100	0	100	2	100	secondary
2	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	50	0	50	2	100	2
77	<i>Castanea dentata</i>	American Chestnut	G4	S3	END	THR	SAR	0	0	9	9	29	25	32	secondary
1	<i>Celtis tenuifolia</i>	Dwarf Hackberry	G5	S2	THR	THR	SAR	0	0	100	0	100	1	100	3
4	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	50	25	0	75	4	100	3
1	<i>Chenopodium foggii</i>	Fogg's Goosefoot	G3Q	S2			GRank	100	0	100	0	100	1	100	3
4	<i>Chimaphila maculata</i>	Spotted Wintergreen	G5	S1	END	END-R	SAR	0	0	25	25	25	1	25	secondary
1	<i>Cirsium pitcheri</i>	Pitcher's Thistle	G3	S2	END	END	GRank endemic	0	100	0	0	100	1	100	3
10	<i>Cornus florida</i>	Flowering Dogwood	G5	S2			declining	0	0	30	0	40	4	40	secondary
1	<i>Crataegus sylvestris</i>	A Hawthorn	G3?Q	SU			GRank	0	0	100	100	100	1	100	secondary
4	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	75	25	75	4	100	4
1	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	0	0	100	0	100	1	100	secondary
1	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	0	0	100	100	1	100	secondary
1	<i>Eleocharis geniculata</i>	Spike-rush	G5	S1			disjunct	100	0	100	0	100	1	100	3
3	<i>Enemion biternatum</i>	False Rue-anemone	G5	S2	THR	SC	SAR	0	0	33	33	33	1	33	secondary
36	<i>Fraxinus quadrangulata</i>	Blue Ash	G5	S3	SC	SC	SAR	0	0	11	8	22	8	22	secondary
10	<i>Gymnocladus dioica</i>	Kentucky Coffee-tree	G5	S2	THR	THR	SAR	0	0	0	20	20	3	30	secondary
5	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	20	60	0	80	4	80	secondary
5	<i>Hydrastis canadensis</i>	Goldenseal	G4	S2	THR	THR	SAR	0	0	20	20	40	2	40	secondary
1	<i>Isotria medeoloides</i>	Small Whorled Pogonia	G2	S1	END	END-R	GRank SAR	0	0	0	0	0	1	100	secondary
2	<i>Isotria verticillata</i>	Large Whorled Pogonia	G5	S1	END	END-R	SAR	0	0	50	0	50	1	50	secondary
8	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	13	0	25	2	25	2
5	<i>Liatris spicata</i>	Dense Blazing Star	G5	S2	THR	THR	SAR	0	20	40	0	80	4	80	secondary
3	<i>Liparis liliifolia</i>	Purple Twayblade	G5	S2	END	END	SAR	0	0	0	0	0	0	0	secondary
9	<i>Magnolia acuminata</i>	Cucumber Tree	G5	S2	END	END-R	SAR	11	0	22	33	56	5	56	secondary
1	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	100	100	100	1	100	3
1	<i>Muhlenbergia richardsonis</i>	Soft-leaf Muhly	G5	S2			disjunct	0	0	0	0	0	1	100	3
4	<i>Myrica pensylvanica</i>	Bayberry	G5	S1			disjunct	0	25	50	25	75	3	75	3
18	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	39	11	50	10	56	2
20	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	10	15	30	6	30	secondary
3	<i>Plantago cordata</i>	Heart-leaved Plantain	G4	S1	END	END-R	SAR	0	0	67	33	100	3	100	secondary
5	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	0	60	20	60	5	100	2

Number of pops in 7E-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants continued															
1	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	0	0	0	0	0	1	100	3
7	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	29	43	0	71	6	86	2
2	<i>Ptelea trifoliata</i>	Common Hoptree	G5	S3	THR	THR	SAR	0	50	0	0	50	1	50	secondary
10	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	10	20	2	20	secondary
1	<i>Rosa setigera</i>	Climbing Prairie Rose	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Smilax rotundifolia</i>	Round-leaved Greenbrier	G5	S2	THR	THR	SAR	0	0	100	0	100	1	100	secondary
1	<i>Solidago hispida</i> var. <i>huronensis</i>	Lake Huron Hairy Goldenrod	G5T3?	S3?			GRank endemic	0	100	0	0	100	1	100	all viable
10	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	0	0	30	20	40	6	60	secondary
17	<i>Symphyotrichum prenanthoides</i>	Crooked-stem Aster	G4G5	S2	THR	THR	SAR	0	0	12	18	29	6	35	secondary
3	<i>Tephrosia virginiana</i>	Virginia Goat's-rue	G5	S1	END	END-R	SAR	0	0	33	0	33	2	67	secondary
2	<i>Trillium flexipes</i>	Drooping Trillium	G5	S1	END	END-R	SAR	0	0	0	0	50	1	50	secondary
5	<i>Viola pedata</i>	Bird's-foot Violet	G5	S1	END	END	SAR	0	40	0	0	40	3	60	secondary
Birds															
7	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	14	0	43	4	57	secondary
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	100	0	100	3	100	secondary
13	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	31	31	54	9	69	secondary
28	<i>Empidonax virens</i>	Acadian Flycatcher	G5	S2B,SZN	END	END	SAR	0	4	25	18	36	14	50	secondary
12	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	8	33	0	33	4	33	secondary
9	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	0	11	11	22	3	33	secondary
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	25	50	0	75	3	75	secondary
3	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
3	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S3B,SZN	SC	SC	SAR	0	0	33	0	33	1	33	secondary
2	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	0	0	50	50	100	2	100	secondary
9	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	11	11	44	0	56	5	56	secondary
21	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	29	24	38	9	43	secondary
32	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	3	22	19	41	16	50	secondary
Amphibians															
7	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	14	14	14	1	14	secondary
4	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	25	25	25	0	75	3	75	secondary
Reptiles															
7	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	14	0	14	2	29	secondary
12	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	8	25	8	58	8	67	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	100	0	100	1	100	secondary
1	<i>Coluber constrictor foxii</i>	Blue Racer	G5T5	S1	END	END-R	SAR	0	0	100	100	100	1	100	secondary
10	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	10	10	10	0	40	5	50	4
18	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	0	17	17	33	8	44	4
1	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	100	0	0	100	1	100	secondary
39	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	10	0	3	31	14	36	secondary
1	<i>Lampropeltis triangulum</i>	Milksnake	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	100	50	100	2	100	secondary
6	<i>Thamnophis butleri</i>	Butler's Gartersnake	G4	S2	THR	THR	SAR	0	0	17	17	33	3	50	secondary

Number of pops in 7E-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Mammals															
2	<i>Glaucomys volans</i>	Southern Flying Squirrel	G5	S3	SC	SC	SAR	0	0	50	50	50	1	50	secondary
4	<i>Microtus pinetorum</i>	Woodland Vole	G5	S3?	SC	SC	SAR	0	25	75	50	75	3	75	secondary
7	<i>Taxidea taxus</i>	American Badger	G5	S2	END	END	SAR	0	0	14	14	29	4	57	secondary
Lepidoptera															
4	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	50	75	0	0	3	75	2
Communities															
1	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	0	0	100	0	100	1	100	3
1	Common Reed Grass Organic Shallow Marsh Type		G3G4	S4			GRank	0	0	0	0	0	1	100	all viable
1	Cottonwood Dune Savannah Type		G1G2	S1			GRank	0	100	100	0	100	1	100	all viable
1	Dry - Fresh Mixed Oak Deciduous Forest Type		G?	S3S4			SRank	0	0	100	100	100	1	100	3
1	Dry - Fresh Red Oak Deciduous Forest Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	100	100	100	1	100	secondary
1	Dry - Fresh White Oak Deciduous Forest Type		G?	S4			high quality	0	0	100	100	100	1	100	secondary
1	Dry - Fresh White Pine - Oak Mixed Forest Type		G4G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	100	0	0	100	1	100	3
2	Dry Black Oak Deciduous Forest Type		G4?	S3			SRank	0	0	50	0	50	2	100	3
1	Dry Black Oak Tallgrass Savannah Type		G3	S1			GRank	0	0	0	0	0	1	100	all viable
3	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	67	33	0	100	3	100	3
10	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	10	10	10	100	all viable
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	100	100	100	1	100	secondary
7	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	57	57	0	86	6	86	3
1	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
1	Little Bluestem - Switchgrass - Beachgrass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
2	Moist - Fresh Hemlock - Sugar Maple Mixed Forest Type		G4G5	S4S5			high quality	0	0	100	0	100	2	100	secondary
1	Moist - Fresh Sugar Maple - Black Maple Deciduous Forest Type		G?	S3?			SRank	0	0	0	0	0	1	100	3
2	Moist - Fresh Tallgrass Prairie Type		G2	S1			GRank	0	0	0	0	0	2	100	all viable
1	Poison Sumac Organic Thicket Swamp Type		G4?	S3			SRank	0	100	100	0	100	1	100	3
1	Red / Green Ash Mineral Deciduous Swamp Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
4	Silver / Red Maple Mineral Deciduous Swamp Type		G4?	S5			high quality	0	0	100	25	100	4	100	secondary
1	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	100	100	0	100	1	100	secondary
3	White Cedar - Tamarack Coniferous Organic Swamp Type		G4G5	S5			high quality	0	0	67	33	100	3	100	secondary
1	White Cedar Coniferous Organic Swamp Type		G4	S5			high quality	0	100	100	0	100	1	100	secondary
1	White Elm Mineral Deciduous Swamp Type		G?	S5			high quality	0	0	100	100	100	1	100	secondary

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All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 7E-2

Ecological System	# of Patches in 7E-2	Total Area (ha) in 7E-2	% of Total Area of 7E-2	% Natural Cover in 7E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	25,556	133,586.44	14.14	84.05	112	515.19	0.39	343	476.31	0.36	1,224	7,056.88	5.28	1,314	3,888.13	2.91	2,666	10,511.88	7.87	2,698	17,542.63	13.13
Alvars	6	3.06	0.00	0.00																4	2.00	65.36
Prairies and savannahs	68	2,430.38	0.26	1.53				19	1,967.81	80.97	5	728.75	29.99	2	13.25	0.55	24	2,021.25	83.17	32	2,352.25	96.79
Wetlands	5,021	19,108.13	2.02	12.02	312	1,545.56	8.09	37	130.44	0.68	875	5,353.94	28.02	540	1,613.38	8.44	3,634	15,970.88	83.58	3,635	16,034.63	83.92
All ecological systems	46306	960995.19	100.00	100.00	574	4,215.00	0.38	657	3,342.63	0.30	4,433	18,517.38	1.67	3,067	9,321.94	0.84	9,848	39,875.13	3.60	9,894	47,555.69	4.29

Ecological systems details for Ecodistrict 7E-2

Ecological System	# of Patches in 7E-2	Total Area (ha) in 7E-2	% of Total Area of 7E-2	% Natural Cover in 7E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Beach & Shorecliff Coniferous Forest Complex	2	1.50	0.00	0.00																2	1.50	100.00
Beach & Shorecliff Mixed Forest Complex	10	10.69	0.00	0.01	6	3.94	36.84				3	5.31	49.71				3	5.31	49.71	6	10.44	97.66
Beach & Shorecliff Deciduous Forest Complex	161	432.88	0.05	0.27	51	224.00	51.75	2	0.88	0.20	57	262.56	60.66				58	262.63	60.67	63	289.19	66.81
Clay Plain Coniferous Forest Complex	162	329.13	0.03	0.21				1	4.75	1.44	10	20.38	6.19	17	27.38	8.32	25	44.63	13.56	29	52.31	15.89
Clay Plain Mixed Forest Complex	445	662.19	0.07	0.42				4	1.00	0.15	27	35.81	5.41	22	47.31	7.14	53	102.56	15.49	57	108.81	16.43
Clay Plain Deciduous Forest Complex	2,949	22,348.19	2.37	14.06				8	31.31	0.14	51	468.06	2.09	41	164.13	0.73	103	665.81	2.98	110	3,064.19	13.71
Coniferous Forest Complex on Peat and Muck	24	24.19	0.00	0.02				1	0.88	3.62	1	0.88	3.62				1	0.88	3.62	1	0.88	3.62
Mixed Forest Complex on Peat and Muck	93	105.81	0.01	0.07										1	2.56	2.42	1	2.56	2.42	4	10.88	10.28
Deciduous Forest Complex on Peat and Muck	310	932.50	0.10	0.59	55	287.25	30.80	4	6.44	0.69	67	433.13	46.45	14	57.25	6.14	81	487.25	52.25	77	591.56	63.44
Kame Moraine Coniferous Forest Complex	25	55.50	0.01	0.03							1	0.31	0.56	1	0.06	0.11	2	0.38	0.68	4	23.38	42.12
Kame Moraine Mixed Forest Complex	95	191.13	0.02	0.12										1	0.19	0.10	1	0.19	0.10	4	11.13	5.82
Kame Moraine Deciduous Forest Complex	242	436.38	0.05	0.27							8	1.81	0.42	13	4.38	1.00	20	6.13	1.40	21	43.75	10.03
Limestone Plain Coniferous Forest Complex	1	1.06	0.00	0.00																		
Limestone Plain Mixed Forest Complex	2	0.88	0.00	0.00																		
Limestone Plain Deciduous Forest Complex	11	12.69	0.00	0.01																		
Niagara Escarpment Coniferous Forest Complex	6	4.50	0.00	0.00							3	0.19	4.17				3	0.19	4.17	3	0.19	4.17
Niagara Escarpment Mixed Forest Complex	8	24.25	0.00	0.02							4	12.13	50.00	5	4.94	20.36	7	16.56	68.30	7	16.56	68.30
Niagara Escarpment Deciduous Forest Complex	10	16.88	0.00	0.01							2	6.25	37.04	5	4.19	24.81	6	7.81	46.30	6	7.81	46.30
Sand Plain Coniferous Forest Complex	1,328	2,914.13	0.31	1.83				40	89.25	3.06	162	511.38	17.55	101	183.31	6.29	273	704.38	24.17	270	710.31	24.37
Sand Plain Mixed Forest Complex	2,482	4,407.25	0.47	2.77				67	35.81	0.81	194	279.06	6.33	177	179.81	4.08	397	474.69	10.77	399	488.50	11.08
Sand Plain Deciduous Forest Complex	11,814	67,508.69	7.15	42.48				165	208.00	0.31	513	3,945.06	5.84	674	2,209.06	3.27	1,256	5,823.13	8.63	1,244	8,933.13	13.23
Till Moraine Coniferous Forest Complex	171	266.69	0.03	0.17				12	12.31	4.62	20	22.94	8.60	16	14.69	5.51	42	42.44	15.91	43	44.81	16.80
Till Moraine Mixed Forest Complex	262	333.38	0.04	0.21				6	5.00	1.50	12	10.94	3.28	5	2.31	0.69	22	20.75	6.22	26	26.75	8.02
Till Moraine Deciduous Forest Complex	1,941	9,413.00	1.00	5.92				33	80.69	0.86	54	741.19	7.87	95	386.88	4.11	149	943.94	10.03	149	1,066.63	11.33
Till Plain Coniferous Forest Complex	48	88.38	0.01	0.06							2	17.88	20.23	6	4.13	4.67	8	22.00	24.89	9	25.69	29.07

Ecological System	# of Patches in 7E-2	Total Area (ha) in 7E-2	% of Total Area of 7E-2	% Natural Cover in 7E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems continued																						
Till Plain Mixed Forest Complex	189	266.13	0.03	0.17							1	0.69	0.26	6	6.94	2.61	8	8.19	3.08	14	13.38	5.03
Till Plain Deciduous Forest Complex	2,765	22,798.50	2.41	14.35							32	280.94	1.23	114	588.63	2.58	147	869.50	3.81	150	2,000.88	8.78
Alvar	6	3.06	0.00	0.00																4	2.00	65.36
Prairies and Savannahs	68	2,430.38	0.26	1.53				19	1,967.81	80.97	5	728.75	29.99	2	13.25	0.55	24	2,021.25	83.17	32	2,352.25	96.79
Wetlands																						
Bog Complex	2	9.75	0.00	0.01							1	8.06	82.69				2	9.75	100.00	2	9.75	100.00
Fen Complex	66	472.19	0.05	0.30	49	432.56	91.61				48	443.44	93.91				64	463.00	98.05	64	463.00	98.05
Marsh Complex	1,308	5,364.50	0.57	3.38	171	922.88	17.20	12	87.75	1.64	426	3,929.63	73.25	118	359.63	6.70	1,112	4,979.88	92.83	1,113	5,038.13	93.92
Swamp Complex	3,645	13,261.69	1.40	8.34	92	190.13	1.43	25	42.69	0.32	400	972.81	7.34	422	1,253.75	9.45	2,456	10,518.25	79.31	2,456	10,523.75	79.35
Non-Target Natural Ecological Systems																						
Coniferous Plantation Forest	72	826.31	0.09								7	48.50	5.87	20	262.06	31.71	21	262.81	31.81	22	384.75	46.56
Mixed Forest Complex	2	1.94	0.00	0.00																		
Deciduous Forest Complex	12	20.75	0.00	0.01																		
Other Landcover																						
Bedrock Outcrop	190	1,380.38	0.15	0.87	24	372.00	26.95	36	167.38	12.13	131	509.94	36.94	11	4.19	0.30	154	736.44	53.35	135	866.38	62.76
Pasture and Abandoned Fields	9,697	15,051.00	1.59					8	7.94	0.05	58	36.38	0.24	148	98.94	0.66	210	141.38	0.94	211	141.44	0.94
Unclassified (cloud & shadow)	1	0.13	0.00																			
Water	2,205	2,389.54	0.25	1.50	114	1,778.56	56.02	83	394.94	12.44	466	3,338.06	100.00	144	241.00	7.59	577	4,980.63	100.00	577	4,980.63	100.00
Unknown Landcover	204	14,647.25	1.55		9	1.81	0.01				2	0.19	0.00				9	1.81	0.01	9	1.81	0.01
Anthropogenic Land Types																						
Settlement and Developed Land	28	11,045.75	1.17								1	0.69	0.01	6	3.00	0.03	7	3.69	0.03	7	3.69	0.03
Cropland	2,936	756,585.50	80.11		3	1.88	0.00	128	197.00	0.03	1,645	1,432.69	0.19	871	3,189.75	0.42	2,512	5,224.31	0.69	2,530	5,225.44	0.69
NRVIS Pit or Quarry	308	3,133.19	0.33					3	0.81	0.03	19	11.38	0.36	11	8.25	0.26	34	20.06	0.64	34	20.06	0.64

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Grimsby

Ecodistrict 7E-3

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 83,865 hectares (207,234 acres)

Land Ownership: 90% private, 10% public

Planning Authority: 52% Niagara Region, 32% Hamilton-Wentworth,
16% Halton Region

Physiography:

This ecodistrict includes the southern reaches of the Niagara Escarpment and the adjacent shallow till moraines along the escarpment rim of the southern boundary. The eastern boundary includes the lower slopes of the Niagara Escarpment and a portion of the Iroquois Plains. The western edge of the ecodistrict includes the escarpment influences of till moraines and spillways, and Norfolk sand plains as they reach the transition to the Flamborough Limestone Plains of Ecodistrict 6E-1.

Remaining Natural Cover:

Approximately 19% of the ecodistrict remains as natural cover, primarily forest. Niagara Escarpment forest complex makes up 25% of the remaining natural cover, followed by sand plain forest complexes (15%) and till moraine forest complexes (14%). These forest complexes are predominantly deciduous. Ten percent of the remaining natural cover are wetlands, with three-quarters being swamps.

Land Use:

Sixty percent of the ecodistrict has been converted to agricultural uses, with nearly half being converted to developed agricultural lands (40,524 ha), and another 9,066 hectares as pastures and abandoned fields. Approximately 20% of the ecodistrict, nearly 16,500 hectares, is devoted to settlement and other associated developed lands, including the cities of Hamilton and St. Catharines.

Protection and Conservation:

The total area of conservation lands constitutes approximately 8% of



Ecodistrict 7E-3 (6,735 ha). Conservation Authority lands account for nearly half of this land (3,005 ha). Approximately 4,000 hectares have been designated as provincially significant life science ANSIs, of which 83 hectares coincide with provincial parks. Seventy percent of all extant rare species and vegetation community occurrences in this ecodistrict are within identified conservation lands, primarily provincially significant life science ANSIs.

Species Targets:

Over half of the 33 targeted species occurring in 7E-3 are plants. Eighty percent of these species are designated as being at risk by COSEWIC and/or OMNR, including the Endangered Red Mulberry (*Morus rubra*) and American Chestnut (*Castanea dentata*), and the Threatened Jefferson Salamander (*Ambystoma jeffersonianum*).

Vegetation Community Targets:

Five of the 24 significant vegetation communities identified within 7E-3 are globally rare (limestone talus and tallgrass prairie), 18 are provincially rare, and six are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

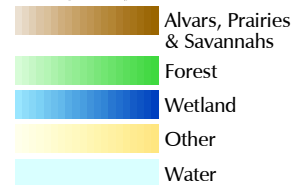
The Conservation Blueprint portfolio in Ecodistrict 7E-3 includes approximately 40% of all remaining natural cover, and 78% of the occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

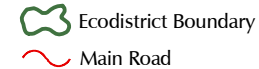
GRIMSBY ECODISTRICT 7E-3



Ecological Systems



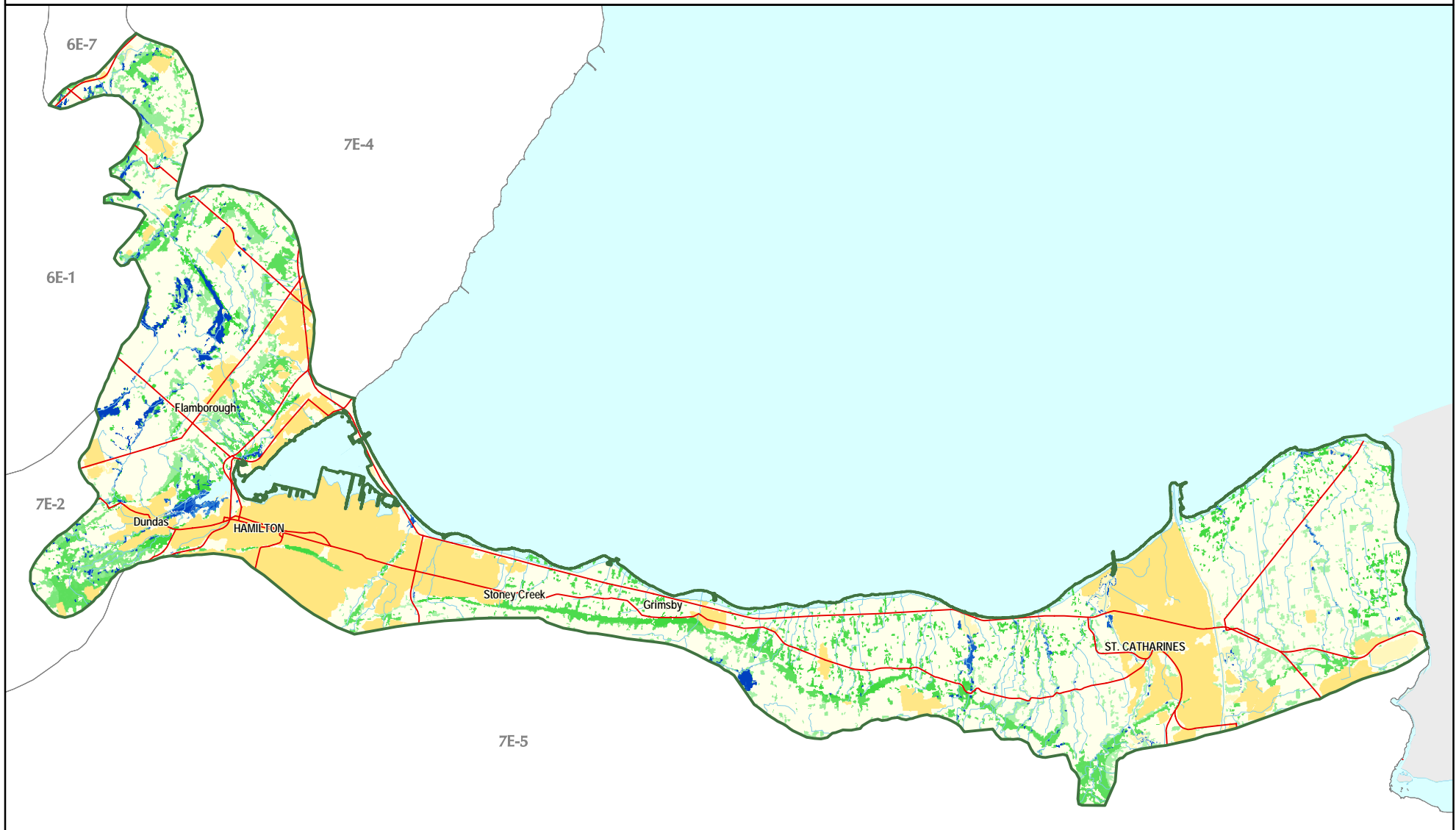
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

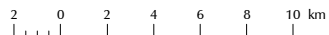
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

GRIMSBY ECODISTRICT 7E-3



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

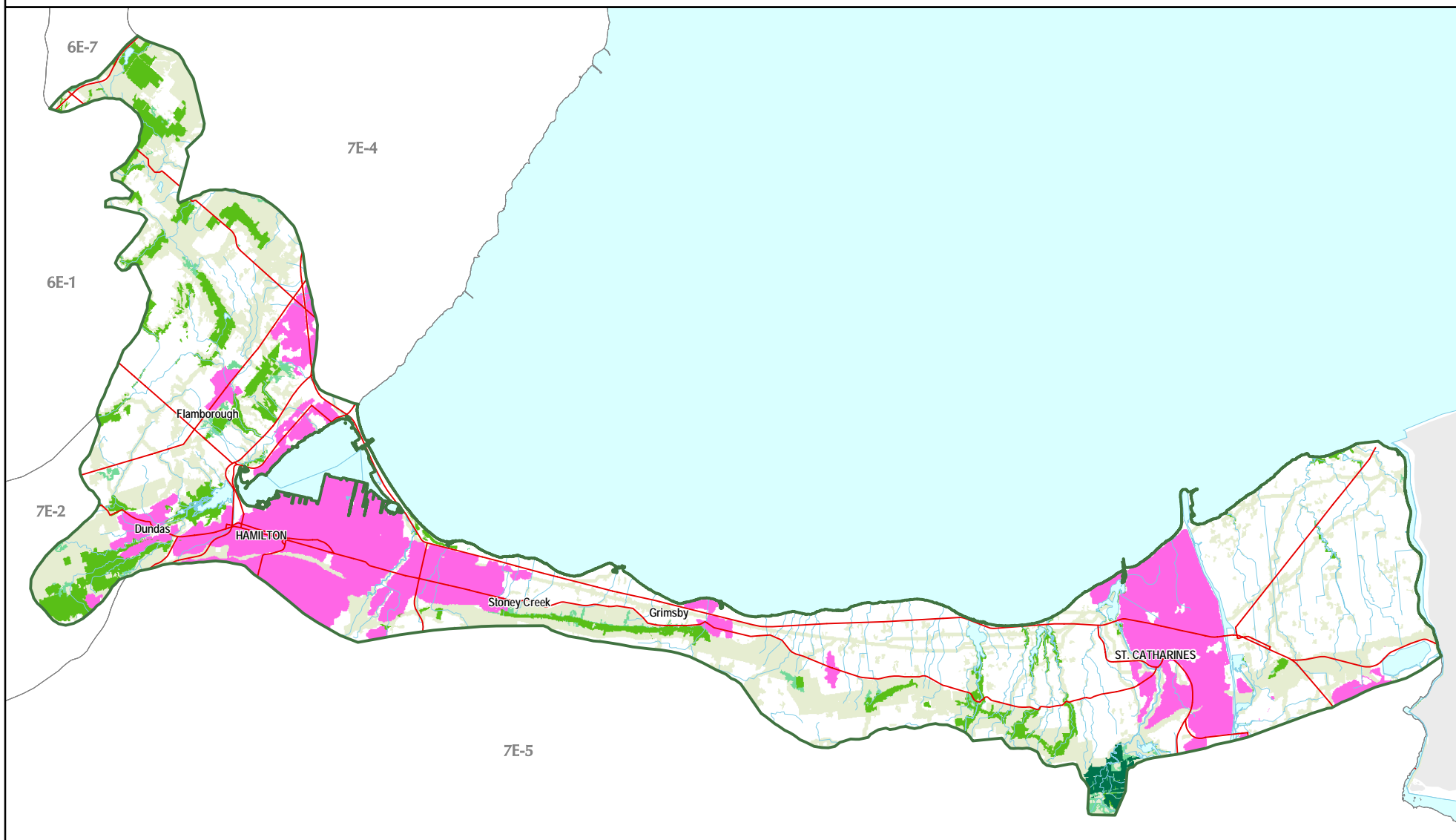
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 7E-3

Number of extant pops in 7E-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	100	100	100	1	100	secondary
1	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	0	100	100	100	1	100	4
5	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	0	20	20	80	4	80	3
17	<i>Castanea dentata</i>	American Chestnut	G4	S3	END	THR	SAR	0	6	47	12	47	9	53	secondary
1	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	0	0	0	100	1	100	3
1	<i>Crataegus beata</i>	A Hawthorn	G2G4Q	S1			GRank endemic	0	0	0	0	0	1	100	all viable
3	<i>Eurybia divaricata</i>	White Wood Aster	G5	S2	THR	THR	SAR	0	0	67	33	100	3	100	secondary
5	<i>Frasera caroliniensis</i>	American Columbo	G5	S2	SC	SC	SAR	0	20	40	20	80	4	80	secondary
1	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	0	0	0	100	1	100	secondary
7	<i>Morus rubra</i>	Red Mulberry	G5	S2	END	END	SAR	0	0	29	14	43	3	43	secondary
4	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	50	75	75	4	100	2
1	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	100	0	100	1	100	secondary
4	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	0	0	25	0	25	3	75	3
2	<i>Pycnanthemum incanum</i>	Hoary Mountain-mint	G5	S1	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Trichophorum planifolium</i>	Few-flowered Club-rush	G4G5	S1	END	END-R	SAR	0	0	100	0	100	3	100	secondary
1	<i>Vaccinium stamineum</i>	Deerberry	G5	S1	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Birds															
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	50	1	50	secondary
2	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	100	50	100	2	100	secondary
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	0	0	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	100	0	100	1	100	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
2	<i>Protonotaria citrea</i>	Prothonotary Warbler	G5	S1S2B,SZN	END	END-R	SAR	0	0	50	0	50	1	50	secondary
7	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	57	57	71	5	71	secondary
5	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	100	40	100	5	100	secondary
Amphibians															
9	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	33	22	44	4	44	secondary
Reptiles															
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	100	1	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	100	0	100	1	100	secondary
2	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	0	50	0	50	1	50	secondary
1	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Mammals															
1	<i>Glaucomys volans</i>	Southern Flying Squirrel	G5	S3	SC	SC	SAR	0	0	100	100	100	1	100	secondary
Lepidoptera															
2	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	0	0	0	0	2	100	2
Communities															
1	Basswood - White Ash - Butternut Moist Treed Limestone Talus Type		G3G5	S2			GRank	0	0	100	0	100	1	100	all viable
5	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	40	100	5	100	all viable

Number of pops in 7E-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
5	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	80	0	80	4	80	3
4	Dry - Fresh Oak - Sugar Maple Deciduous Forest Type		G?	S5			high quality	0	0	75	0	75	4	100	3
1	Dry - Fresh Red Oak Deciduous Forest Type		G?	S5			high quality	0	0	100	100	100	1	100	3
2	Dry Black Oak Deciduous Forest Type		G4?	S3			SRank	0	0	50	0	50	2	100	secondary
1	Dry Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	0	0	0	1	100	3
1	Dry Oak - Hickory Deciduous Forest Type		G4?	S3S4			SRank	0	0	100	0	100	1	100	3
1	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	100	100	1	100	3
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	100	0	100	1	100	all viable
8	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	13	88	38	100	8	100	3
4	Hemlock - Sugar Maple Moist Limestone Talus Type		G?	S2			SRank	0	0	100	75	100	4	100	3
1	Moist - Fresh Black Walnut Deciduous Forest Type		G4?	S2S3			SRank	0	100	0	0	100	1	100	all viable
1	Moist - Fresh Hemlock - Sugar Maple Mixed Forest Type		G4G5	S4S5			high quality	0	0	100	100	100	1	100	all viable
6	Moist - Fresh Sugar Maple - Black Maple Deciduous Forest Type		G?	S3?			SRank	0	0	100	67	100	6	100	all viable
2	Mountain Maple Open Limestone Talus Shrubland Type		G?	S3			SRank	0	0	50	50	50	2	100	all viable
2	Open Limestone / Dolostone Seepage Cliff Type		G?Q	S3			SRank	0	0	100	100	100	2	100	all viable
1	Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type		G?	S3			SRank	0	0	100	100	100	1	100	3
4	Sugar Maple Moist Treed Limestone Talus Type		G3G5	S3			GRank	0	0	100	25	100	4	100	3
1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic Type		G5	S5			high quality	0	0	100	0	100	1	100	all viable
1	Wet Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	100	0	100	1	100	3
1	White Birch Dry Treed Limestone Talus Type		G3G5	S3			GRank	0	0	0	0	0	1	100	all viable
3	White Cedar Dry Treed Limestone Talus Type		G?	S3			SRank	0	0	67	67	67	3	100	3
2	White Cedar Treed Limestone Cliff Type		G2Q	S3			GRank	0	0	100	100	100	2	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 7E-3

Ecological System	# of Patches in 7E-3	Total Area (ha) in 7E-3	% of Total Area of 7E-3	% Natural Cover in 7E-3	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	4,529	13,306.94	15.87	81.91	73	363.19	2.73	859	2,815.06	21.15	690	1,857.19	13.96	1,204	3,941.88	29.62	1,152	4,602.56	34.59
Wetlands	700	1,665.88	1.99	10.25	9	3.50	0.21	190	564.88	33.91	97	189.88	11.40	492	1,200.44	72.06	492	1,201.75	72.14
All ecological systems	10152	90356.95	100.00	100.00	152	496.25	0.56	2179	4001.69	4.48	1508	3005.44	3.37	3388	6735.31	7.55	3342	7469.50	8.37

Ecological systems details for Ecodistrict 7E-3

Ecological System	# of Patches in 7E-3	Total Area (ha) in 7E-3	% of Total Area of 7E-3	% Natural Cover in 7E-3	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Mixed Forest Complex	7	4.63	0.01	0.03										2	3.69	5.55	2	3.00	64.86
Beach and Shorecliff Deciduous Forest Complex	29	66.50	0.08	0.41							2	3.69	5.55	8	3.00	5.75	5	9.25	13.91
Clay Plain Coniferous Forest Complex	92	139.19	0.17	0.86				6	1.63	1.17	3	6.63	4.76	8	8.00	5.75	9	15.06	10.82
Clay Plain Mixed Forest Complex	183	327.63	0.39	2.02	6	9.19	2.80	19	58.81	17.95	15	48.38	14.77	30	75.13	22.93	30	78.69	24.02
Clay Plain Deciduous Forest Complex	612	1,615.44	1.93	9.94	15	87.19	5.40	40	128.00	7.92	42	80.38	4.98	76	230.50	14.27	67	246.25	15.24
Mixed Forest Complex on Peat and Muck	12	23.88	0.03	0.15				6	21.31	89.27				6	21.31	89.27	6	21.31	89.27
Deciduous Forest Complex on Peat and Muck	20	47.38	0.06	0.29				17	33.94	71.64				17	33.94	71.64	17	33.94	71.64
Kame Moraine Coniferous Forest Complex	28	37.06	0.04	0.23				8	10.38	27.99	11	22.56	60.88	12	22.69	61.21	12	22.69	61.21
Kame Moraine Mixed Forest Complex	68	237.44	0.28	1.46				24	97.13	40.91	41	116.63	49.12	43	135.50	57.07	47	157.56	66.36
Kame Moraine Deciduous Forest Complex	108	456.00	0.54	2.81				38	149.75	32.84	58	247.69	54.32	57	272.81	59.83	52	291.31	63.88
Limestone Plain Coniferous Forest Complex	22	35.56	0.04	0.22				9	2.94	8.26	13	23.63	66.43	13	23.75	66.78	13	23.75	66.78
Limestone Plain Mixed Forest Complex	47	62.25	0.07	0.38				11	6.31	10.14	28	31.94	51.31	31	33.13	53.21	31	33.13	53.21
Limestone Plain Deciduous Forest Complex	71	203.19	0.24	1.25				16	66.19	32.57	38	94.13	46.32	41	102.00	50.20	40	114.38	56.29
Niagara Escarpment Coniferous Forest Complex	65	127.13	0.15	0.78				22	24.38	19.17	21	40.81	32.10	30	46.56	36.63	30	46.63	36.68
Niagara Escarpment Mixed Forest Complex	289	622.81	0.74	3.83	20	46.50	7.47	119	188.50	30.27	82	98.88	15.88	144	265.94	42.70	142	268.75	43.15
Niagara Escarpment Deciduous Forest Complex	530	3,149.56	3.76	19.39	32	220.31	7.00	132	831.06	26.39	108	483.19	15.34	197	1,197.06	38.01	170	1,456.94	46.26
Sand Plain Coniferous Forest Complex	43	57.88	0.07	0.36				19	15.44	26.67	4	2.00	3.46	20	16.13	27.86	20	16.88	29.16
Sand Plain Mixed Forest Complex	168	327.00	0.39	2.01				67	93.81	28.69	17	27.06	8.28	78	113.44	34.69	78	113.50	34.71
Sand Plain Deciduous Forest Complex	856	2,044.81	2.44	12.59				120	304.63	14.90	51	118.38	5.79	153	368.81	18.04	155	460.13	22.50
Shale Plain Coniferous Forest Complex	9	10.13	0.01	0.06				2	1.13	11.11				2	1.13	11.11	2	1.13	11.11
Shale Plain Mixed Forest Complex	37	52.69	0.06	0.32				7	15.25	28.94	1	0.88	1.66	7	15.25	28.94	7	15.25	28.94
Shale Plain Deciduous Forest Complex	242	1,214.19	1.45	7.47				19	289.19	23.82	13	44.81	3.69	19	289.88	23.87	9	402.19	33.12
Till Moraine Coniferous Forest Complex	47	49.13	0.06	0.30				21	11.44	23.28	15	15.69	31.93	25	22.19	45.17	25	22.19	45.17
Till Moraine Mixed Forest Complex	191	294.81	0.35	1.81				48	86.44	29.32	40	51.00	17.30	59	98.94	33.56	59	99.63	33.79
Till Moraine Deciduous Forest Complex	707	1,941.38	2.31	11.95				72	307.00	15.81	86	296.63	15.28	116	471.44	24.28	107	558.25	28.76
Till Plain Coniferous Forest Complex	1	0.56	0.00	0.00															
Till Plain Mixed Forest Complex	13	35.56	0.04	0.22				10	25.75	72.41				10	25.75	72.41	10	25.75	72.41
Till Plain Deciduous Forest Complex	32	123.19	0.15	0.76				7	44.69	36.28	1	2.25	1.83	8	46.94	38.10	7	65.06	52.82
Wetlands																			
Marsh Complex	298	425.50	0.51	2.62	9	3.50	0.82	62	223.31	52.48	15	40.50	9.52	246	388.44	91.29	246	388.44	91.29
Swamp Complex	402	1,240.38	1.48	7.64				128	341.56	27.54	82	149.38	12.04	246	812.00	65.46	246	813.31	65.57
Non-Target Natural Ecological Systems																			
Coniferous Forest Complex	3	2.19	0.00	0.01															
Mixed Forest Complex	3	7.19	0.01	0.04															
Deciduous Forest Complex	9	25.81	0.03	0.16															

Ecological System	# of Patches in 7E-3	Total Area (ha) in 7E-3	% of Total Area of 7E-3	% Natural Cover in 7E-3	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover																			
Bedrock Outcrop	26	80.31	0.10	0.49													3	72.00	89.65
Pasture and Abandoned Fields	3,407	9,066.31	10.81		31	41.00	0.45	311	128.50	1.42	261	222.31	2.45	507	354.13	3.91	510	354.31	3.91
Water	251	1,156.67	1.38	7.12				61	170.69	13.95	14	26.69	2.18	89	198.25	16.20	89	198.25	16.20
Unknown Landcover	7	6,105.69	7.28																
Anthropogenic Land Types																			
Settlement and Developed Land	44	16,497.38	19.67					13	11.13	0.07	51	21.31	0.13	63	31.06	0.19	63	31.06	0.19
Cropland	1,103	40,524.69	48.32		39	88.56	0.22	735	286.69	0.71	369	646.81	1.60	1,000	965.94	2.38	1,000	965.94	2.38
NRVIS Pit or Quarry	70	1,850.94	2.21					10	24.75	1.34	26	41.25	2.23	33	43.63	2.36	33	43.63	2.36

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Whitby

Ecodistrict 7E-4

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 191,193 hectares (472,448 acres)

Land Ownership: 85% private, 15% public

Planning Authority: 33% Toronto Region, 24% Peel Region, 22% Halton Region, 21% York Region

Physiography:

This ecodistrict is bounded by the south slope of the Oak Ridges Moraine in the north and contains the Peel Plain. The southern boundary along Lake Ontario includes the Iroquois Plain. The western boundary follows the transition between the lower Queenston shale slopes of the Niagara Escarpment and the Peel Plain. The eastern boundary of 7E-4 is the northeastern limit of ecoregion 7E at the Rouge River valley.

Remaining Natural Cover:

Less than 6% of the ecodistrict remains as natural cover, predominantly as forest cover. Nearly two-thirds of this remaining natural cover is comprised of till plain forest complexes, with over 50% of this being till plain deciduous forest complexes, and 10% till plain mixed forest complexes. Sand plain deciduous forest complexes are also present (8% of the remaining natural cover). Eight percent of the remaining natural cover is wetland, primarily swamp. There is also a 23.5 hectare remnant of prairie-savannah in 7E-4.

Land Use:

Over one-third of 7E-4 has been converted to developed agricultural lands (68,558 ha), and an additional 11,325 hectares are pastures and abandoned fields. Lands associated with agriculture represent 42% of the total area of the ecodistrict. Over half of the land base, 100,506 hectares, is devoted to settlement and other associated developed lands, including the cities of Toronto, Burlington and Mississauga.



Protection and Conservation:

Conservation lands make up approximately 6% of Ecodistrict 7E-4 (10,759 ha). Conservation Authorities have secured nearly 60% of this land (6,299 ha). Over 2,700 hectares have been identified as provincially significant life science ANSIs, of which 173 hectares coincide with provincial parks. Sixty-five percent of all occurrences of species and vegetation community targets in 7E-4 are in conservation lands, primarily within Conservation Authority lands and provincially significant life science ANSIs.

Species Targets:

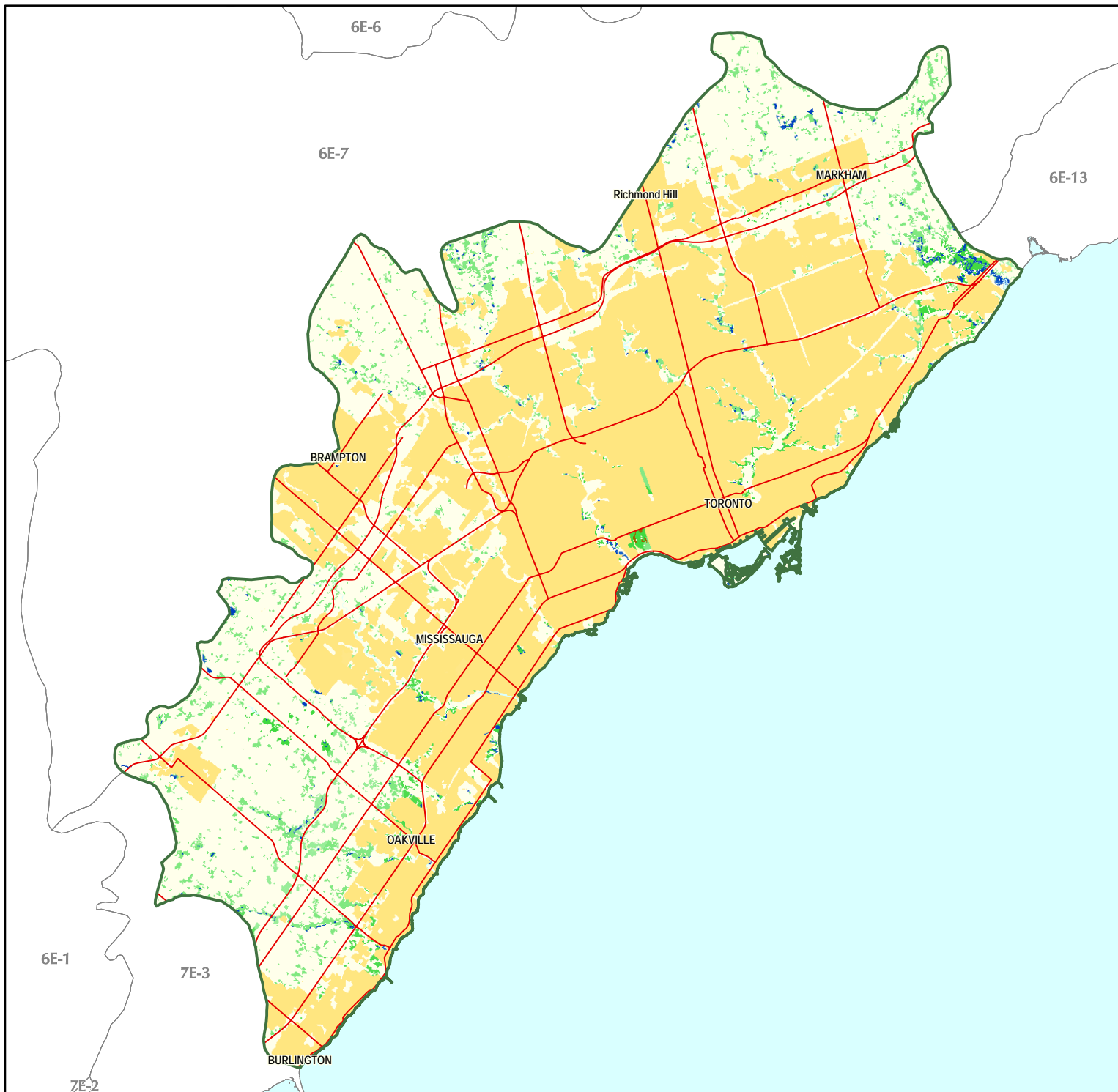
Six of the 15 targeted species occurring in 7E-4 are plants. Half of the targeted plant species are designated as species at risk, including the Endangered Few-flowered Club-rush (*Trichophorum planifolium*) and American Ginseng (*Panax quinquefolius*). The targeted birds, amphibians and reptiles are all species at risk.

Vegetation Community Targets:

Two of the five significant vegetation communities identified in 7E-4 are globally rare (tallgrass prairies, coastal meadow marshes), three are provincially rare, and two are considered high quality representative communities important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 7E-4 includes approximately 37% of all remaining natural cover and nearly two-thirds of all occurrences of rare species and vegetation community targets.

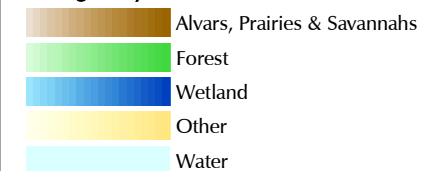


Great Lakes Conservation Blueprint for Biodiversity

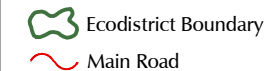
WHITBY ECODISTRICT 7E-4



Ecological Systems



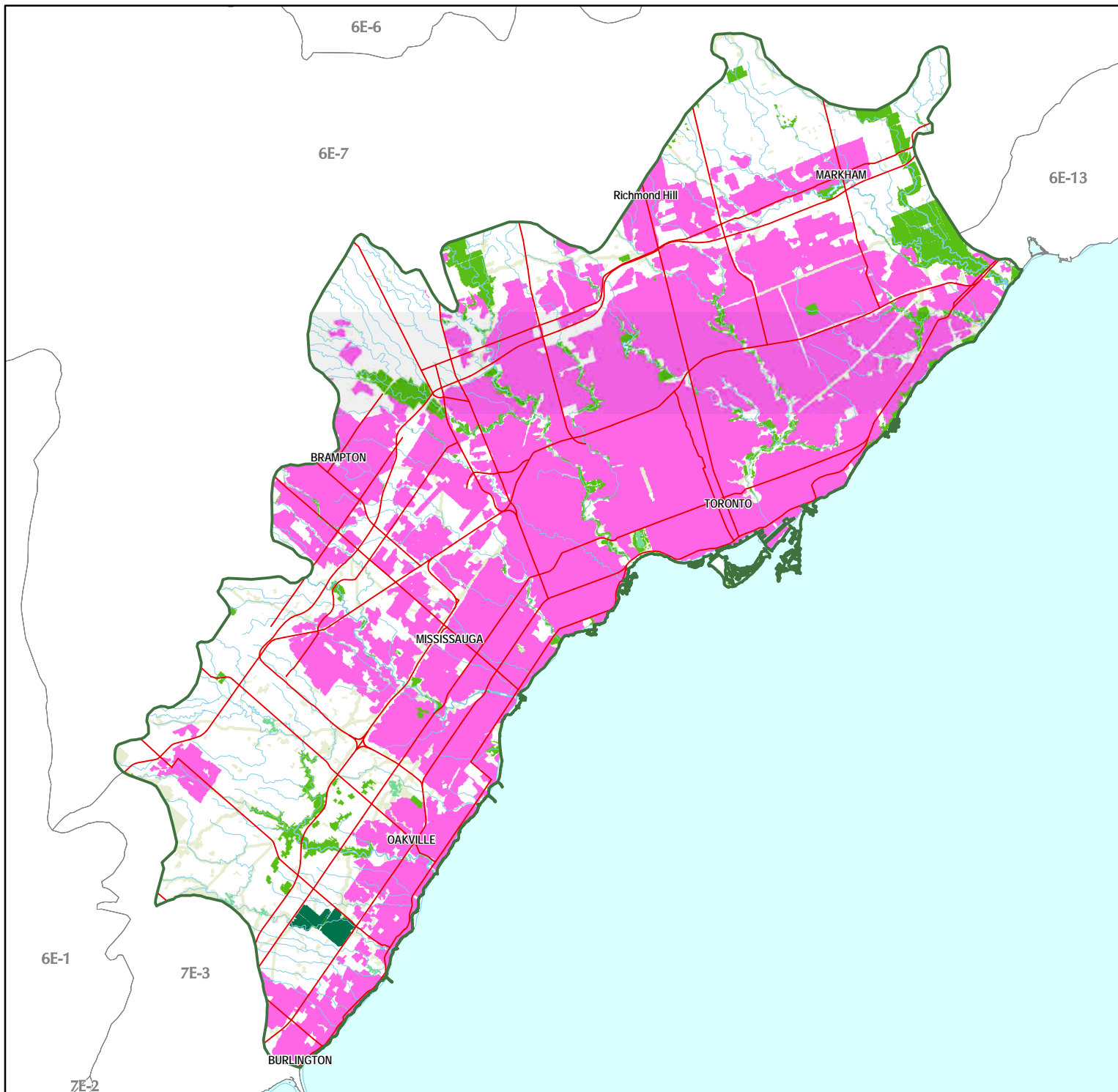
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

WHITBY ECODISTRICT 7E-4



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Documented extant vegetation community and species targets in Ecodistrict 7E-4

Number of pops in 7E-4	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
7	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	0	43	29	86	6	86	3
4	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	0	50	75	75	3	75	3
1	<i>Liatris spicata</i>	Dense Blazing Star	G5	S2	THR	THR	SAR	0	100	100	0	100	1	100	secondary
2	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	50	100	50	100	2	100	2
1	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	0	0	100	0	0	1	100	3
1	<i>Trichophorum planifolium</i>	Few-flowered Club-rush	G4G5	S1	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Birds															
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	100	100	100	1	100	secondary
2	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	50	50	1	50	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	100	100	100	1	100	secondary
1	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S3B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
1	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	0	100	100	1	100	secondary
Amphibians															
3	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	100	100	1	100	secondary
1	<i>Lampropeltis triangulum</i>	Milksnake	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Lepidoptera															
1	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	100	0	0	100	1	100	2
Communities															
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	G5			high quality	0	100	100	0	100	1	100	secondary
1	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	100	0	100	1	100	3
2	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	0	0	2	100	all viable
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	0	0	100	100	1	100	3

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Ecological systems summary for Ecodistrict 7E-4

Ecological System	# of Patches in 7E-4	Total Area (ha) in 7E-4	% of Total Area of 7E-4	% Natural Cover in 7E-4	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	3,789	9,832.06	5.14	90.46	50	174.50	1.77	517	1,567.00	15.94	932	1,509.25	15.35	1,369	3,104.56	31.58	1,367	3,363.50	34.21
Prairies and savannahs	5	23.50	0.01	0.22				6	21.44	91.22				6	21.44	91.22	6	22.00	93.62
Wetlands	515	878.19	0.46	8.08	17	14.50	1.65	116	285.50	32.51	182	326.00	37.12	369	577.44	65.75	369	577.44	65.75
All ecological systems	9453	191775.03	100.00	100.00	147	679.50	0.35	1791	2703.25	1.41	3760	6299.25	3.28	5339	10759.38	5.61	5339	11022.88	5.75

Ecological systems details for Ecodistrict 7E-4

Ecological System	# of Patches in 7E-4	Total Area (ha) in 7E-4	% of Total Area of 7E-4	% Natural Cover in 7E-4	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Clay Plain Coniferous Forest Complex	1	1.06	0.00	0.01				2	0.75	70.59	2	0.19	17.65	2	0.75	70.59	2	0.75	70.59
Clay Plain Mixed Forest Complex	5	5.44	0.00	0.05				3	1.75	32.18	5	3.69	67.82	5	4.81	88.51	5	4.81	88.51
Clay Plain Deciduous Forest Complex	23	44.06	0.02	0.41				15	7.88	17.87	28	13.50	30.64	24	17.25	39.15	24	17.25	39.15
Niagara Escarpment Coniferous Forest Complex	1	1.81	0.00	0.02															
Niagara Escarpment Mixed Forest Complex	9	5.56	0.00	0.05															
Niagara Escarpment Deciduous Forest Complex	27	47.88	0.03	0.44															
Sand Plain Coniferous Forest Complex	25	49.06	0.03	0.45				12	17.56	35.80	19	21.50	43.82	17	24.81	50.57	17	24.81	50.57
Sand Plain Mixed Forest Complex	154	413.00	0.22	3.80				57	93.63	22.67	92	131.00	31.72	114	166.38	40.28	104	216.25	52.36
Sand Plain Deciduous Forest Complex	420	909.75	0.48	8.37				89	212.31	23.34	187	326.25	35.86	205	372.63	40.96	208	422.88	46.48
Shale Plain Coniferous Forest Complex	2	2.75	0.00	0.03															
Shale Plain Mixed Forest Complex	28	43.38	0.02	0.40	4	5.19	11.96	4	5.94	13.69	3	2.94	6.77	7	8.88	20.46	7	8.88	20.46
Shale Plain Deciduous Forest Complex	125	473.88	0.25	4.36	6	9.69	2.04	6	39.63	8.36	6	27.06	5.71	12	66.88	14.11	13	97.00	20.47
Till Moraine Mixed Forest Complex	71	114.75	0.06	1.06				44	64.81	56.48				44	64.81	56.48	44	64.81	56.48
Till Moraine Deciduous Forest Complex	185	882.31	0.46	8.12				58	390.19	44.22				58	390.19	44.22	57	421.75	47.80
Till Plain Coniferous Forest Complex	156	267.50	0.14	2.46				14	14.19	5.30	45	62.06	23.20	66	107.94	40.35	67	110.00	41.12
Till Plain Mixed Forest Complex	536	1,087.38	0.57	10.00	10	12.13	1.12	80	125.00	11.50	184	237.56	21.85	278	411.25	37.82	278	411.25	37.82
Till Plain Deciduous Forest Complex	2,021	5,482.50	2.87	50.44	30	147.50	2.69	133	593.38	10.82	361	683.50	12.47	537	1,468.00	26.78	541	1,563.06	28.51
Prairies and Savannahs	5	23.50	0.01	0.22				6	21.44	91.22				6	21.44	91.22	6	22.00	93.62
Wetlands																			
Marsh Complex	134	156.94	0.08	1.44				14	42.50	27.08	32	64.50	41.10	115	128.19	81.68	115	128.19	81.68
Swamp Complex	381	721.25	0.38	6.64	17	14.50	2.01	102	243.00	33.69	150	261.50	36.26	254	449.25	62.29	254	449.25	62.29
Other Landcover																			
Bedrock Outcrop	1	3.88	0.00	0.04													1	3.88	100.00
Pasture and Abandoned Fields	3,707	11,325.25	5.92		32	159.38	1.41	385	300.50	2.65	528	759.69	6.71	896	1,419.88	12.54	897	1,419.94	12.54
Water	139	131.85	0.07	1.21				50	53.25	30.46	160	153.25	87.65	188	206.13	117.89	188	206.13	117.89
Anthropogenic Land Types																			
Settlement and Developed Land	78	100,505.75	52.57					57	109.88	0.11	766	786.00	0.78	807	866.00	0.86	807	866.00	0.86
Cropland	1,093	68,558.31	35.86		48	331.13	0.48	660	365.69	0.53	1,190	2,764.81	4.03	1,702	4,563.69	6.66	1,702	4,563.75	6.66
NRVIS Pit or Quarry	126	473.25	0.25								2	0.25	0.05	2	0.25	0.05	2	0.25	0.05

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Niagara

Ecodistrict 7E-5

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 361,785 hectares (893,991 acres)

Land Ownership: 93% private, 1% public, 6% First Nations

Planning Authority: 42% Norfolk County, 40% Niagara Region, 10% Hamilton-Wentworth, 8% Brant County

Physiography:

The ecodistrict consists of the Haldimand Clay Plain portion of Hills's site district 7E-2. The western boundary is bordered by the sand plains of 7E-2. The northern boundary follows the small moraines along the top of the Niagara Escarpment and the escarpment rim itself in areas where moraines do not exist.

Remaining Natural Cover:

Nearly 22% of Ecodistrict 7E-5 remains as natural cover, predominantly as forest. Clay plain forest complexes comprise two-thirds of the remaining natural cover, with over half of this occurring as clay plain deciduous forest complex. Nearly 10% of the remaining natural cover is sand plain deciduous forest complex. Another 15% of the remaining natural cover is wetland, primarily swamp.

Land Use:

Two-thirds of 7E-5 have been converted to developed agricultural land (238,234 ha), and an additional 32,247 hectares are pastures and abandoned fields. Lands associated with agriculture occupy nearly three-quarters of the ecodistrict. Nearly 10,000 hectares are devoted to settlement and other associated developed lands, including the city of Niagara Falls.

Protection and Conservation:

Conservation lands cover approximately 4% of Ecodistrict 7E-5 (14,443 ha). Conservation Authorities have secured 20% of these lands (3,035 ha).



Approximately 9,500 hectares have been identified as provincially significant wetlands, and 4,430 hectares are provincially significant life science ANSIs. Approximately five hectares of provincially significant ANSIs coincide with provincial parks and 202 hectares coincide with conservation reserves. Nearly half of the occurrences of species and vegetation community targets in 7E-5 occur within these conservation lands, primarily provincially significant life science ANSIs and provincially significant wetlands.

Species Targets:

Over half of the 42 targeted species occurring in 7E-5 are plants. Thirty-three species targets have been designated as species at risk, including the Endangered Cucumber Tree (*Magnolia acuminata*) and the Threatened Fowler's Toad (*Bufo fowleri*).

Vegetation Community Targets:

Seven of the 19 significant vegetation communities identified within 7E-5 are globally rare (limestone talus, limestone cliff, alvar), 15 are provincially rare, and three are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 7E-5 includes approximately 19% of all remaining natural cover, and 54% of all occurrences of rare species and vegetation community targets.

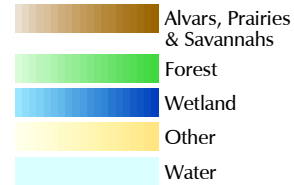
Great Lakes Conservation Blueprint for Biodiversity

NIAGARA ECODISTRICT 7E-5

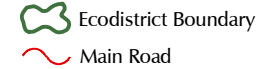
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Ecological Systems



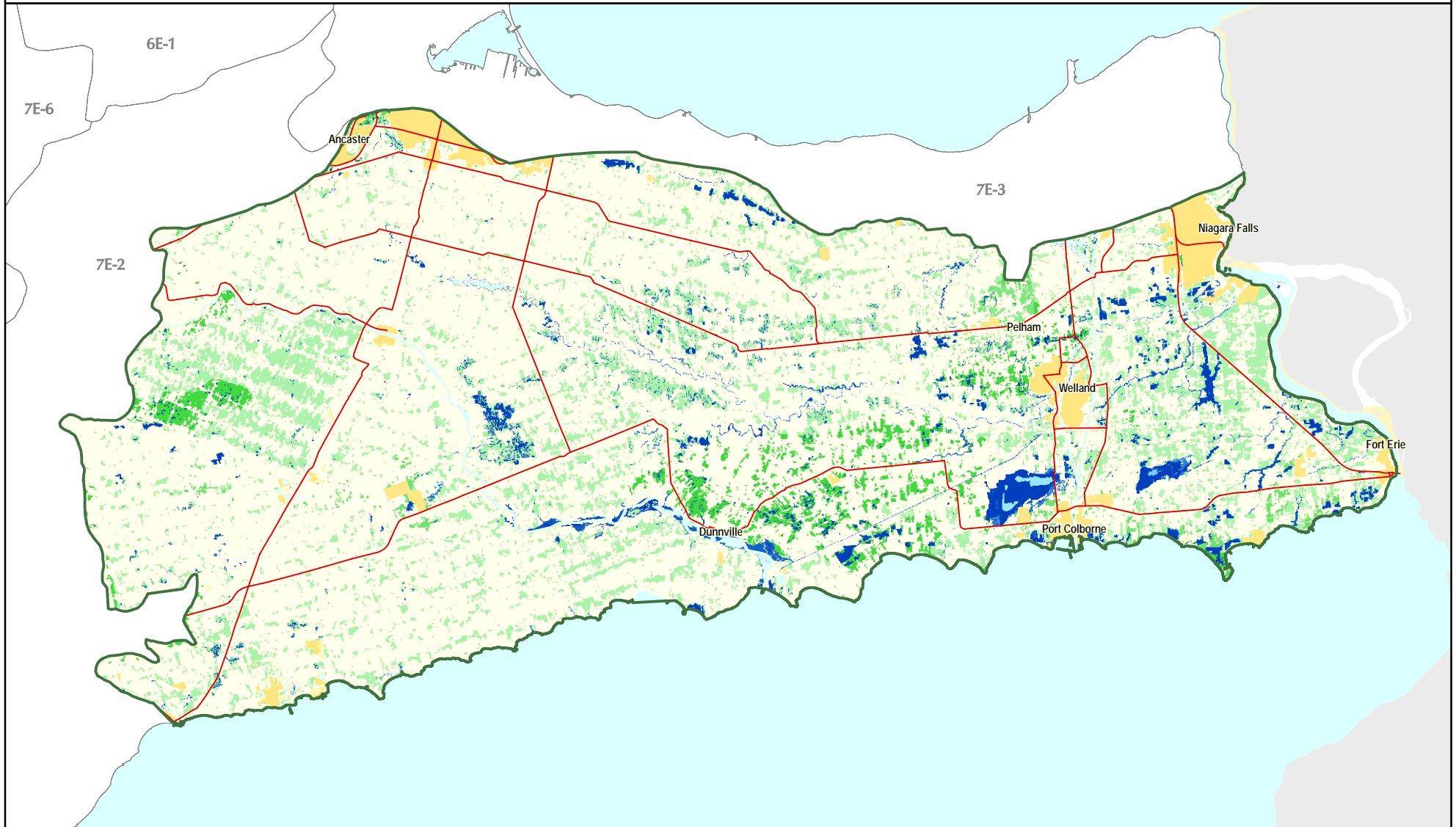
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

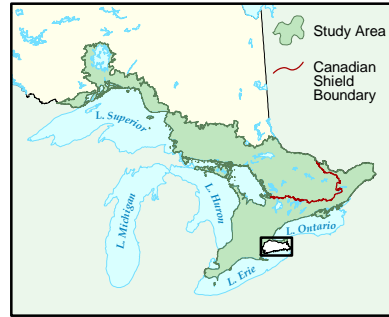
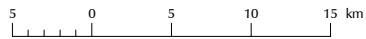
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NIAGARA ECODISTRICT 7E-5



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

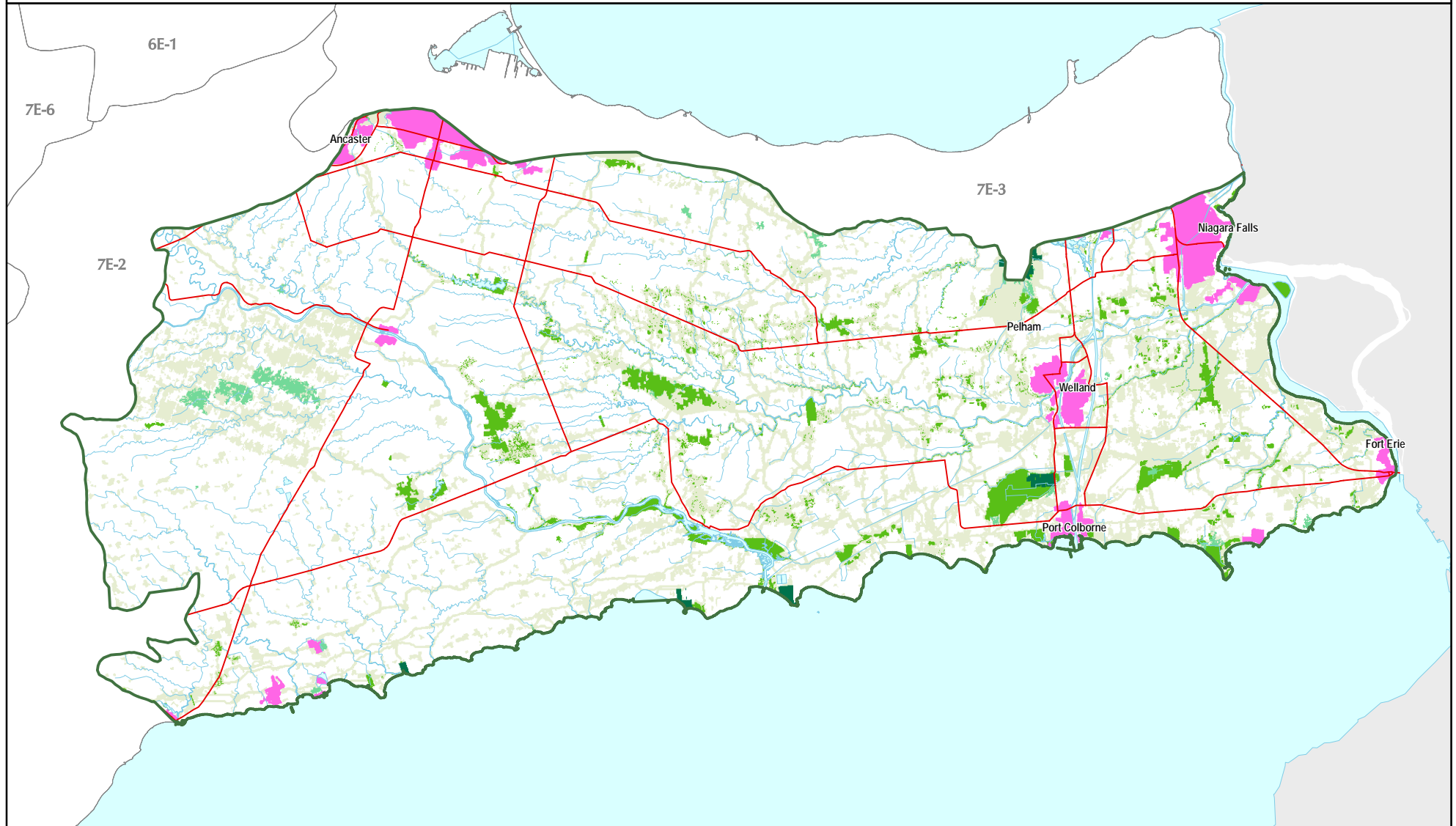
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 7E-5

Number of pops in 7E-5	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS- ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
5	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	40	20	0	80	5	100	3
11	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	0	0	9	1	9	secondary
1	<i>Bromus nottowanus</i>	Nottoway Brome Grass	G3G4	S1?			GRank	0	0	100	0	100	1	100	2
7	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	14	43	0	71	6	86	3
17	<i>Castanea dentata</i>	American Chestnut	G4	S3	END	THR	SAR	0	0	12	0	24	5	29	secondary
3	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	0	33	0	33	3	100	3
1	<i>Chenopodium foggii</i>	Fogg's Goosefoot	G3Q	S2			GRank	0	0	100	0	100	1	100	3
1	<i>Crataegus formosa</i>	A Hawthorn	G2G3Q	S2			GRank endemic	0	0	100	0	100	1	100	all viable
12	<i>Eurybia divaricata</i>	White Wood Aster	G5	S2	THR	THR	SAR	0	0	17	8	25	3	25	secondary
2	<i>Fraseria carolinensis</i>	American Columbo	G5	S2	SC	SC	SAR	0	50	50	0	100	2	100	secondary
1	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	0	0	0	100	1	100	secondary
1	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	0	0	0	1	100	2
1	<i>Justicia americana</i>	American Water-willow	G5	S1	THR	THR	SAR	0	0	0	0	0	0	0	secondary
9	<i>Magnolia acuminata</i>	Cucumber Tree	G5	S2	END	END-R	SAR	0	0	11	0	44	4	44	secondary
1	<i>Morus rubra</i>	Red Mulberry	G5	S2	END	END	SAR	0	0	100	0	100	1	100	secondary
1	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	100	0	100	1	100	2
4	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	25	0	25	1	25	secondary
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	0	100	0	100	1	100	2
2	<i>Ptelea trifoliata</i>	Common Hoptree	G5	S3	THR	THR	SAR	0	0	50	0	50	1	50	secondary
1	<i>Quercus shumardii</i>	Shumard Oak	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
2	<i>Sida hermaphrodita</i>	Virginia Mallow	G2G3Q	S1			GRank	0	0	0	50	50	2	100	all viable
5	<i>Smilax rotundifolia</i>	Round-leaved Greenbrier	G5	S2	THR	THR	SAR	0	0	0	0	20	1	20	secondary
1	<i>Vaccinium stamineum</i>	Deerberry	G5	S1	THR	THR	SAR	0	0	100	0	100	1	100	secondary
Birds															
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	0	secondary
5	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	40	0	40	2	40	secondary
1	<i>Empidonax virescens</i>	Acadian Flycatcher	G5	S2B,SZN	END	END	SAR	0	0	0	0	0	0	0	secondary
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	0	0	secondary
2	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	50	50	100	2	100	secondary
7	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	0	14	29	57	5	71	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	100	100	1	100	secondary
3	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	33	33	1	33	secondary
5	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	80	0	80	4	80	secondary
Amphibians															
5	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	0	20	20	1	20	secondary
8	<i>Bufo fowleri</i>	Fowler's Toad	G5	S2	THR	THR	SAR	0	13	0	0	25	2	25	secondary
Reptiles															
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	100	100	1	100	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
1	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	0	0	0	0	0	1	100	4
4	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	25	50	0	50	2	50	secondary
3	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	33	1	33	secondary

Number of pops in 7E-5	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	0	0	100	100	1	100	4
Communities															
1	Basswood - White Ash - Butternut Moist Treed Limestone Talus Type		G3G5	S2			GRank	0	0	100	0	100	1	100	all viable
1	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	0	100	1	100	3
1	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	0	100	1	100	3
1	Dry - Fresh Red Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0		0	secondary
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	100	0	100	1	100	3
2	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5				0	0	100	0	100	2	100	secondary
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	100	0	0	100	1	100	3
1	Leatherleaf Shrub Bog Type		G5	S5			high quality	0	100	100	0	100	1	100	secondary
2	Moist - Fresh Sugar Maple - Black Maple Deciduous Forest Type		G?	S3?			SRank	0	0	50	0	50	2	100	3
1	Mountain Maple Open Limestone Talus Shrubland Type		G?	S3			SRank	0	0	100	0	100	1	100	3
1	Open Limestone / Dolostone Seepage Cliff Type		G?Q	S3			GRank	0	0	100	0	100	1	100	3
1	Pin Oak Mineral Deciduous Swamp Type		G2	S2S3			GRank	0	0	0	0	100	1	100	all viable
1	Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type		G1Q	S1			GRank	0	0	0	0	0	1	100	all viable
1	Sugar Maple - Ironwood - White Ash Treed Limestone Cliff Type		G?	S3			SRank	0	0	100	0	100	1	100	3
1	Sugar Maple Moist Treed Limestone Talus Type		G3G5	S3			GRank	0	0	100	0	100	1	100	all viable
1	Wet Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	100	0	100	1	100	3
1	White Birch Dry Treed Limestone Talus Type		G3G5	S3			GRank	0	0	100	0	100	1	100	all viable
1	White Cedar Treed Limestone Cliff Type		G2Q	S3			GRank	0	0	100	0	100	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 7E-5

Ecological System	# of Patches in 7E-5	Total Area (ha) in 7E-5	% of Total Area of 7E-5	% Natural Cover in 7E-5	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservat-ion Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	17,812	64,843.63	17.92	81.75	-	-	-	60	164.38	0.25	667	1,800.38	2.78	355	673.44	1.04	1,508	2,551.13	3.93	1,521	4,481.75	6.91
Wetlands	8,315	12,094.38	3.34	15.25	-	-	-	38	274.38	2.27	789	1,756.75	14.53	403	1,525.38	12.61	7,162	9,650.50	79.79	7,143	9,779.00	80.86
All ecological systems	41961	378301.17	100.00	100.00	1	146.75	0.04	206	777.94	0.21	2177	4429.31	1.18	1358	3034.63	0.81	10713	14443.06	3.84	10709	16574.13	4.41

Ecological systems details for Ecodistrict 7E-5

Ecological System	# of Patches in 7E-5	Total Area (ha) in 7E-5	% of Total Area of 7E-5	% Natural Cover in 7E-5	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservat-ion Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Beach and Shorecliff Coniferous Forest Complex	2	0.69	0.00	0.00																		
Beach and Shorecliff Mixed Forest Complex	4	12.94	0.00	0.02																2	9.38	72.46
Beach and Shorecliff Deciduous Forest Complex	10	17.06	0.00	0.02																2	5.63	32.97
Clay Plain Coniferous Forest Complex	396	610.69	0.17	0.77							12	7.75	1.27	18	25.31	4.14	30	32.88	5.38	30	32.88	5.38
Clay Plain Mixed Forest Complex	4,108	7,733.63	2.14	9.75				13	21.69	0.28	170	133.44	1.73	81	117.13	1.51	301	268.63	3.47	302	269.13	3.48
Clay Plain Deciduous Forest Complex	9,136	43,140.69	11.92	54.39				36	125.44	0.29	346	1,367.44	3.17	172	359.94	0.83	884	1,809.00	4.19	880	2,688.25	6.23
Coniferous Forest Complex on Peat and Muck	2	3.75	0.00	0.00																		
Mixed Forest Complex on Peat and Muck	76	91.94	0.03	0.12				2	0.44	0.48	1	0.13	0.14	9	7.50	8.16	12	8.06	8.77	13	13.69	14.89
Deciduous Forest Complex on Peat and Muck	118	276.63	0.08	0.35				7	1.44	0.52	3	0.31	0.11	17	5.25	1.90	27	7.00	2.53	26	67.50	24.40
Kame Moraine Coniferous Forest Complex	43	37.38	0.01	0.05																		
Kame Moraine Mixed Forest Complex	127	294.31	0.08	0.37							18	21.44	7.28	2	4.81	1.64	21	21.69	7.37	21	21.69	7.37
Kame Moraine Deciduous Forest Complex	270	747.38	0.21	0.94							15	112.81	15.09	1	26.31	3.52	16	115.06	15.40	17	197.81	26.47
Limestone Plain Coniferous Forest Complex	18	30.88	0.01	0.04							1	0.06	0.20				1	0.06	0.20	1	0.06	0.20
Limestone Plain Mixed Forest Complex	142	231.25	0.06	0.29							14	21.56	9.32	1	0.81	0.35	19	22.63	9.78	21	24.19	10.46
Limestone Plain Deciduous Forest Complex	391	1,302.06	0.36	1.64							30	27.81	2.14	5	6.75	0.52	36	34.63	2.66	35	179.19	13.76
Niagara Escarpment Coniferous Forest Complex	13	14.13	0.00	0.02										7	0.94	6.64	7	0.94	6.64	7	0.94	6.64
Niagara Escarpment Mixed Forest Complex	21	46.50	0.01	0.06										2	0.81	1.75	2	0.81	1.75	2	0.81	1.75
Niagara Escarpment Deciduous Forest Complex	37	143.75	0.04	0.18				2	15.38	10.70	1	14.69	10.22	4	2.56	1.78	6	18.00	12.52	10	68.81	47.87
Sand Plain Coniferous Forest Complex	109	194.25	0.05	0.24							3	4.56	2.35	1	7.69	3.96	4	12.25	6.31	4	12.25	6.31
Sand Plain Mixed Forest Complex	855	1,405.19	0.39	1.77							20	52.63	3.75	12	13.88	0.99	40	67.00	4.77	40	67.00	4.77
Sand Plain Deciduous Forest Complex	1,501	7,509.38	2.08	9.47							33	35.75	0.48	22	91.88	1.22	98	130.44	1.74	100	743.44	9.90
Till Moraine Coniferous Forest Complex	13	3.00	0.00	0.00													1	0.06	2.08	1	0.06	2.08
Till Moraine Mixed Forest Complex	66	94.25	0.03	0.12																2	4.94	5.24
Till Moraine Deciduous Forest Complex	354	901.94	0.25	1.14										1	1.88	0.21	3	2.00	0.22	5	74.13	8.22
Wetlands																						
Bog Complex	3	260.38	0.07	0.33				1	130.88	50.26	1	131.75	50.60	3	105.13	40.37	3	260.38	100.00	3	260.38	100.00
Fen Complex	8	35.00	0.01	0.04													5	1.06	3.04	6	34.81	99.46
Marsh Complex	3,529	2,745.94	0.76	3.46				20	24.94	0.91	135	258.19	9.40	263	347.38	12.65	3,199	2,437.75	88.78	3,182	2,495.19	90.87
Swamp Complex	4,775	9,053.06	2.50	11.41				17	118.56	1.31	653	1,366.81	15.10	137	1,072.88	11.85	3,955	6,951.31	76.78	3,952	6,988.63	77.20
Non-Target Natural Ecological Systems																						
Coniferous Forest Complex	4	6.88	0.00	0.01																		
Mixed Forest Complex	2	1.81	0.00	0.00																		
Deciduous Forest Complex	12	12.81	0.00	0.02							3	6.50	50.73				3	6.50	50.73	3	6.50	50.73

Ecological System	# of Patches in 7E-5	Total Area (ha) in 7E-5	% of Total Area of 7E-5	% Natural Cover in 7E-5	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservat-ion Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover																						
Bedrock Outcrop	55	192.69	0.05	0.24										6	3.38	1.75	6	3.38	1.75	8	75.31	39.09
Pasture and Abandoned Fields	11,352	32,247.06	8.91					46	66.88	0.21	129	64.19	0.20	163	189.44	0.59	417	323.06	1.00	417	323.06	1.00
Water	897	2,170.84	0.60	2.74	1	146.75	5.16	5	51.88	1.83	38	278.56	9.80	46	177.19	6.24	320	686.25	24.15	320	686.25	24.15
Unknown Landcover	113	16,199.25	4.48								1	147.50	0.91	3	0.88	0.01	4	148.38	0.92	4	148.38	0.92
Anthropogenic Land Types																						
Settlement and Developed Land	34	9,789.75	2.71								1	0.88	0.01	2	0.75	0.01	8	1.94	0.02	8	1.94	0.02
Cropland	3,209	238,233.88	65.85					57	220.44	0.09	544	241.69	0.10	376	430.25	0.18	1,276	905.13	0.38	1,276	905.13	0.38
NRVIS Pit or Quarry	156	1,837.31	0.51								5	132.88	7.23	4	33.94	1.85	9	166.81	9.08	9	166.81	9.08

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Stratford South

Ecodistrict 7E-6

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 225,181 hectares (556,436 acres)

Land Ownership: 95% private, 5% public

Planning Authority: 40% Middlesex County, 30% Oxford County, 15% Brant County 12% Elgin County, 3% Waterloo Region

Physiography:

This ecodistrict is composed of till plains, till moraines and spillways. The western and eastern boundaries are flanked by Horseshoe Moraines, with much of the eastern portion of 7E-6 containing the Mount Elgin Ridges. The northern boundary follows the transition between till moraines and spillways in 7E-6 with the till plains and kame moraines of 6E-1. The southern boundary follows the transition between till plains, till moraines and spillways in 7E-6 with the sand plains and clays plains of 7E-2.

Remaining Natural Cover:

Approximately 13% of the ecodistrict remains in a state of natural cover, primarily forest. Till moraine deciduous forest complex makes up 40% of this remaining natural cover, followed by till plain deciduous forest with 20 percent. Nearly 27% of the remaining natural cover is wetland, largely swamps. Three hectares of a larger prairie and savannah remnant occurring mostly in Ecodistrict 7E-2 are within 7E-6.

Land Use:

Approximately 79% of 7E-6 has been converted to developed agricultural lands (177,700 ha), and an additional 2,515 hectares are pastures and abandoned fields. Lands associated with agriculture represent over 80% of the ecodistrict. There are over 3,500 hectares of gravel pits and quarries, and nearly 12,000 hectares of settlement and other associated developed lands, including the city of London.

Protection and Conservation:

Conservation lands cover approximately 4% of Ecodistrict 7E-6 (9,371 ha).



Conservation Authorities have secured nearly one-third of these lands (2,939 ha). Over 6,500 hectares have been identified as provincially significant wetlands and 1,838 hectares are designated as provincially significant life science ANSIs. One-third of all occurrences of species and vegetation community targets in 7E-6 are within conservation lands, primarily provincially significant life science ANSIs and Conservation Authority lands.

Species Targets:

Nearly two-thirds of the 34 targeted species occurring in 7E-6 are plants. Twenty-seven species have been designated as species at risk including the Endangered Wood-poppy (*Stylophorum diphyllum*) and Large Whorled Pogonia (*Isotria verticillata*), as well as the Threatened Jefferson Salamander (*Ambystoma jeffersonianum*).

Vegetation Community Targets:

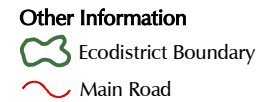
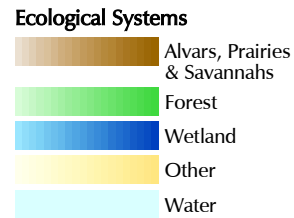
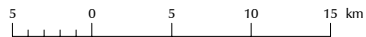
Five of the eight significant vegetation communities identified within 7E-6 are globally rare, five are provincially rare, and one is considered a high-quality representative vegetation community that is important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 7E-6 includes 29% of all remaining natural cover, and over half of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

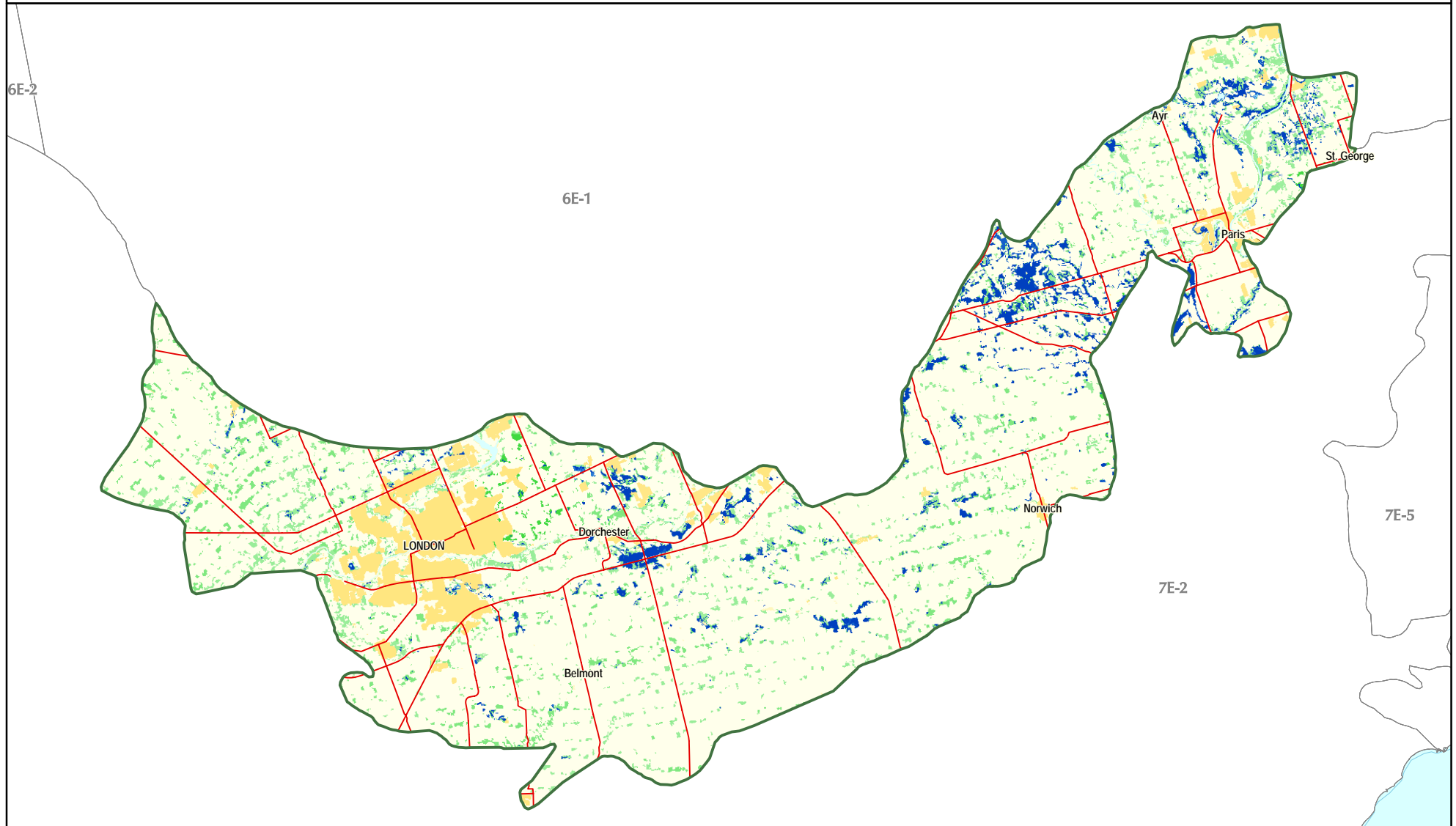
STRATFORD SOUTH ECODISTRICT 7E-6



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

STRATFORD SOUTH ECODISTRICT 7E-6

5 0 5 10 15 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

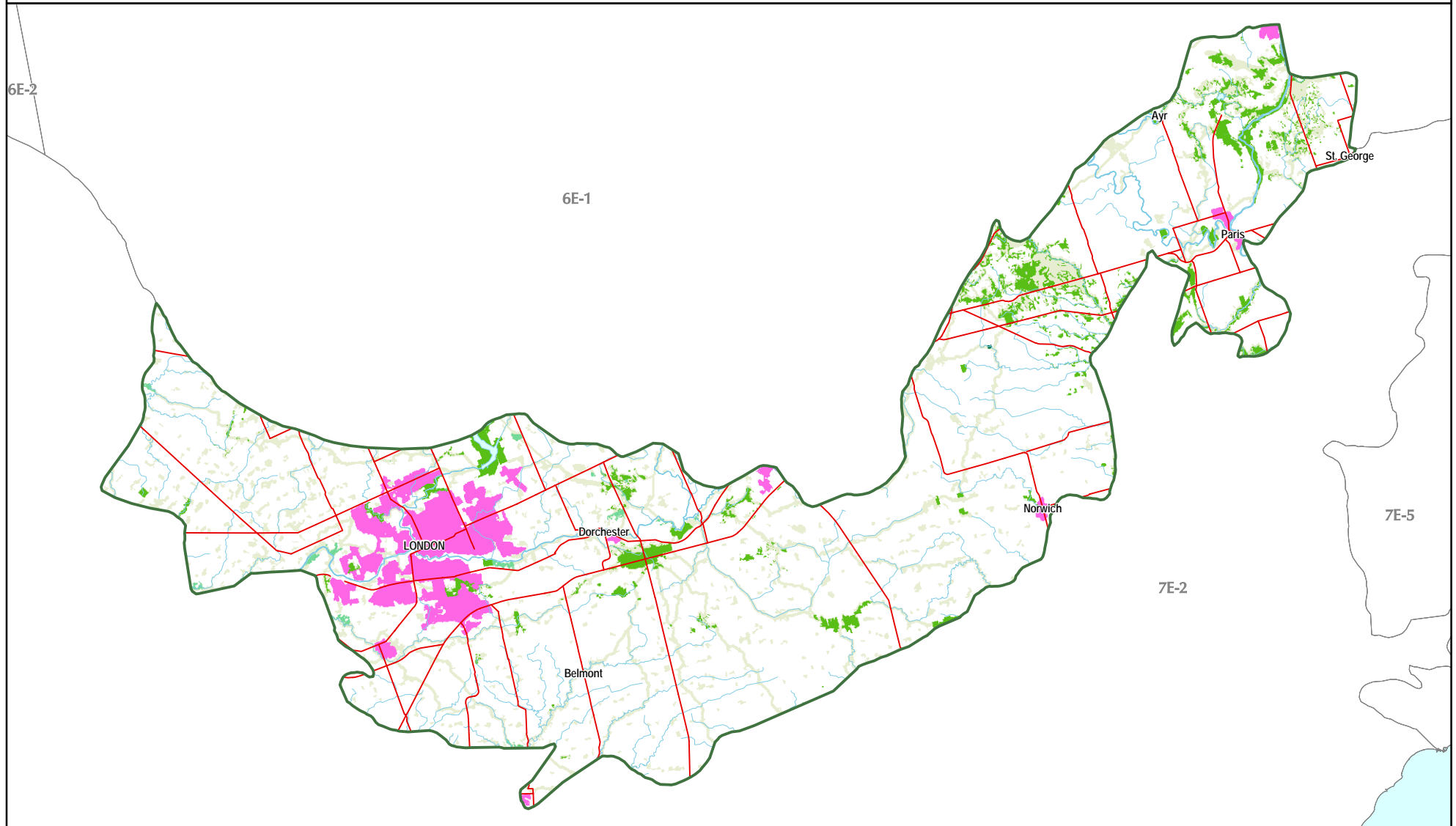
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 7E-6

Number of pops in 7E-6	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
5	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	0	0	20	20	2	40	secondary
1	<i>Carex lupuliformis</i>	False Hop Sedge	G4	S1	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	100	0	100	1	100	2
6	<i>Castanea dentata</i>	American Chestnut	G4	S3	END	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Cornus florida</i>	Flowering Dogwood	G5	S2			declining	0	0	0	0	0	0	0	secondary
1	<i>Eleocharis nitida</i>	Slender Spike-rush	G3G4	S2			GRank	0	0	0	100	100	1	100	2
2	<i>Enemion biternatum</i>	False Rue-anemone	G5	S2	THR	SC	SAR	0	0	0	50	50	2	100	secondary
1	<i>Frasera caroliniensis</i>	American Columbo	G5	S2	SC	SC	SAR	0	0	100	100	100	1	100	secondary
1	<i>Fraxinus quadrangulata</i>	Blue Ash	G5	S3	SC	SC	SAR	0	0	0	0	0	1	100	secondary
1	<i>Gymnocladus dioica</i>	Kentucky Coffee-tree	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Isotria verticillata</i>	Large Whorled Pogonia	G5	S1	END	END-R	SAR	0	0	0	0	100	1	100	secondary
6	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	33	33	50	3	50	2
2	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	100	50	100	2	100	2
6	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	33	17	50	3	50	secondary
1	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	0	100	0	100	1	100	3
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	0	0	0	0	1	100	2
1	<i>Solidago riddellii</i>	Riddell's Goldenrod	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
2	<i>Stylophorum diphyllum</i>	Wood-poppy	G5	S1	END	END-R	SAR	0	0	0	0	0	1	50	secondary
1	<i>Symphyotrichum prenanthoides</i>	Crooked-stem Aster	G4G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Valeriana edulis ssp. ciliata</i>	Hairy Valerian	G5T3	S1			GRank	0	0	0	0	0	1	100	secondary
Birds															
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	100	100	1	100	secondary
1	<i>Empidonax virescens</i>	Acadian Flycatcher	G5	S2B,SZN	END	END	SAR	0	0	0	100	100	1	100	secondary
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	0	0	secondary
1	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	1	100	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	50	0	50	1	50	secondary
1	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Amphibians															
3	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	33	0	33	1	33	secondary
Reptiles															
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
5	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	20	20	1	20	secondary
Mammals															
2	<i>Taxidea taxus</i>	American Badger	G5	S2	END	END	SAR	0	0	0	0	0	0	0	secondary
Odonata															
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	0	1	100	2
Communities															
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	100	100	100	1	100	secondary
1	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	1	100	3

Number of pops in 7E-6	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued														
4	Dry Tallgrass Prairie Type	G3	S1			GRank	0	0	25	25	25	4	100	all viable
1	Huckleberry Organic Thicket Swamp Type	G2Q	S1			GRank	0	0	100	0	100	1	100	all viable
1	Perched Mineral Prairie Fen Type	G3G4	S1			GRank	0	0	0	0	0	1	100	all viable
1	Shrubby Cinquefoil Shrub Fen Type	G3G4	S4			GRank	0	0	0	0	0	1	100	all viable
1	White Cedar - Hemlock Coniferous Mineral Swamp Type	G?	S3S4			SRank	0	0	100	100	100	1	100	3
1	White Cedar - Tamarack Coniferous Organic Swamp Type	G3G4	S5			GRank	0	0	100	0	100	1	100	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 7E-6

Ecological System	# of Patches in 7E-6	Total Area (ha) in 7E-6	% of Total Area of 7E-6	% Natural Cover in 7E-6	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	8,057	20,756.63	9.22	70.28	2	0.44	0.00	377	812.75	3.92	571	874.19	4.21	871	1,554.50	7.49	915	2,153.25	10.37
Prairies and savannahs	1	2.88	0.00	0.01													1	2.88	100.00
Wetlands	2,501	7,858.50	3.49	26.61	1	0.06	0.00	241	664.13	8.45	225	758.19	9.65	1,773	6,151.00	78.27	1,776	6,163.69	78.43
All ecological systems	14432	225180.19	100.00	100.00	5	10.31	0.00	1162	1837.69	0.82	1536	2938.81	1.31	3881	9371.00	4.16	3932	9985.50	4.43

Ecological systems details for Ecodistrict 7E-6

Ecological System	# of Patches in 7E-6	Total Area (ha) in 7E-6	% of Total Area of 7E-6	% Natural Cover in 7E-6	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Clay Plain Coniferous Forest Complex	1	0.13	0.00	0.00															
Clay Plain Mixed Forest Complex	2	0.69	0.00	0.00															
Clay Plain Deciduous Forest Complex	10	18.50	0.01	0.06															
Coniferous Forest Complex on Peat and Muck	1	0.94	0.00	0.00															
Mixed Forest Complex on Peat and Muck	6	4.63	0.00	0.02															
Deciduous Forest Complex on Peat and Muck	104	86.69	0.04	0.29													4	14.25	16.44
Kame Moraine Deciduous Forest Complex	5	0.69	0.00	0.00															
Limestone Plain Mixed Forest Complex	1	0.75	0.00	0.00															
Limestone Plain Deciduous Forest Complex	18	22.00	0.01	0.07										1	0.06	0.28	1	0.06	0.28
Sand Plain Coniferous Forest Complex	23	33.13	0.01	0.11							9	14.06	42.45	9	14.06	42.45	9	14.06	42.45
Sand Plain Mixed Forest Complex	41	42.38	0.02	0.14							6	1.38	3.24	6	1.38	3.24	6	1.38	3.24
Sand Plain Deciduous Forest Complex	261	613.56	0.27	2.08							26	30.19	4.92	26	30.19	4.92	31	83.50	13.61
Till Moraine Coniferous Forest Complex	385	638.81	0.28	2.16				47	39.31	6.15	68	107.38	16.81	103	139.75	21.88	106	143.06	22.40
Till Moraine Mixed Forest Complex	842	959.19	0.43	3.25				88	71.06	7.41	77	54.13	5.64	148	117.81	12.28	152	125.38	13.07
Till Moraine Deciduous Forest Complex	4,032	11,837.13	5.26	40.08	2	0.44	0.00	232	670.06	5.66	343	606.38	5.12	525	1,158.19	9.78	527	1,466.50	12.39
Till Plain Coniferous Forest Complex	93	139.38	0.06	0.47							10	10.75	7.71	10	10.75	7.71	13	21.63	15.52
Till Plain Mixed Forest Complex	328	392.81	0.17	1.33							3	0.44	0.11	3	0.44	0.11	7	5.88	1.50
Till Plain Deciduous Forest Complex	1,904	5,965.25	2.65	20.20				10	32.31	0.54	29	49.50	0.83	40	81.88	1.37	59	277.56	4.65
Prairies and Savannahs	1	2.88	0.00	0.01													1	2.88	100.00
Wetlands																			
Bog Complex	30	12.75	0.01	0.04				5	4.56	35.78	11	3.50	27.45	30	12.75	100.00	30	12.75	100.00
Fen Complex	105	67.50	0.03	0.23				28	14.00	20.74	5	9.31	13.80	69	36.06	53.43	69	36.06	53.43
Marsh Complex	718	933.13	0.41	3.16				108	89.25	9.56	43	114.88	12.31	579	832.75	89.24	582	834.44	89.42
Swamp Complex	1,648	6,845.13	3.04	23.18	1	0.06	0.00	100	556.31	8.13	166	630.50	9.21	1,095	5,269.44	76.98	1,095	5,280.44	77.14
Non-Target Natural Ecological Systems																			
Coniferous Plantation Forest	3	34.50	0.02																
Other Landcover																			
Bedrock Outcrop	27	47.69	0.02	0.16															
Pasture and Abandoned Fields	2,001	2,515.00	1.12					81	50.06	1.99	82	50.38	2.00	149	95.06	3.78	150	95.13	3.78
Water	612	869.47	0.39	2.94				66	88.81	9.92	102	243.81	27.24	165	332.69	37.17	165	332.69	37.17

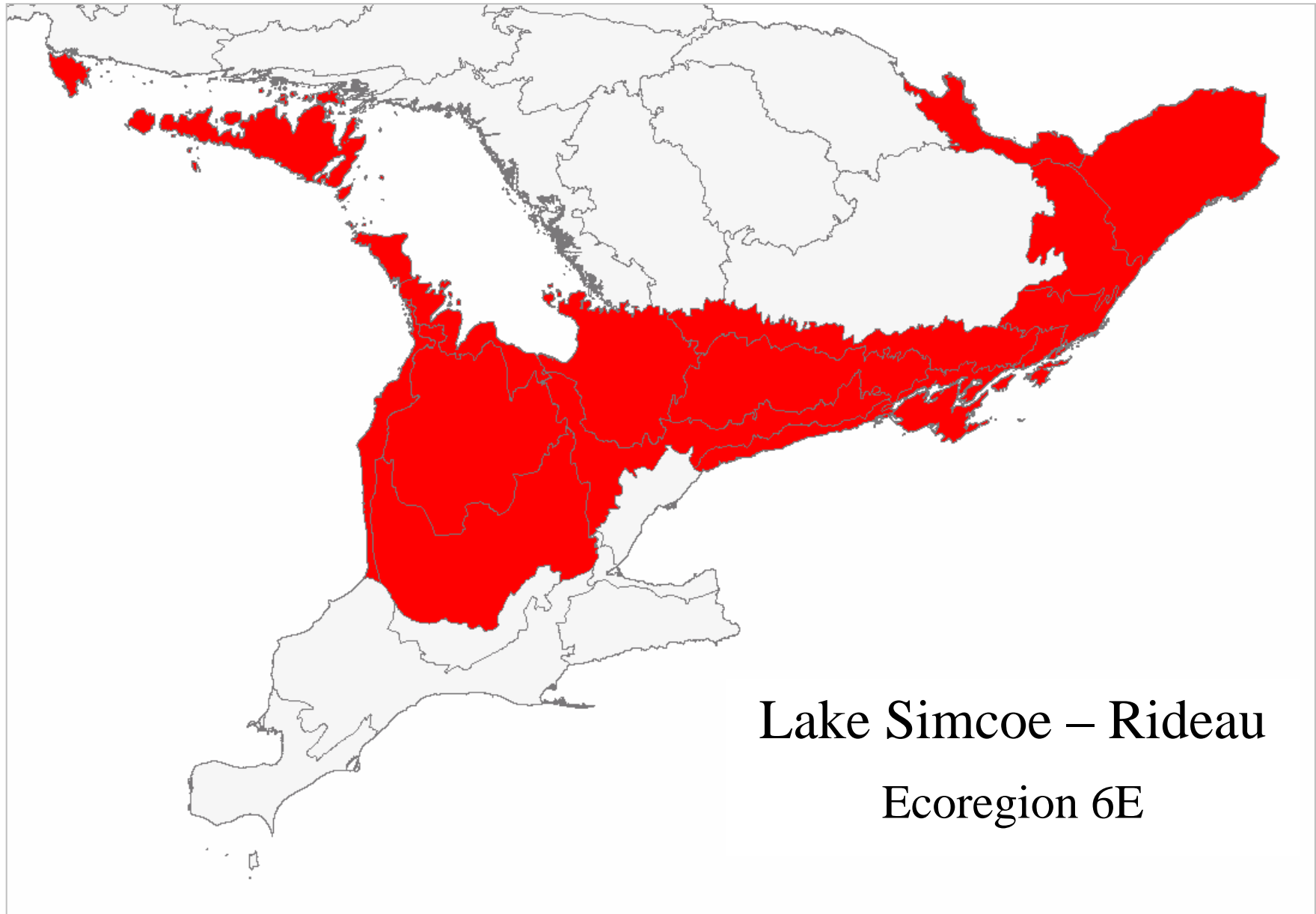
Ecological System	# of Patches in 7E-6	Total Area (ha) in 7E-6	% of Total Area of 7E-6	% Natural Cover in 7E-6	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover continued																			
Unknown Landcover	2	0.19	0.00																
Anthropogenic Land Types																			
Settlement and Developed Land	22	11,718.81	5.20								65	84.81	0.72	65	84.81	0.72	65	84.81	0.72
Cropland	1,006	177,700.00	78.91		2	9.81	0.01	384	200.13	0.11	438	834.19	0.47	792	1,037.88	0.58	794	1,038.00	0.58
NRVIS Pit or Quarry	200	3,650.88	1.62					13	21.81	0.60	53	93.25	2.55	66	115.06	3.15	66	115.06	3.15

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>



Stratford

Ecodistrict 6E-1

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 926,055 hectares (2,288,330 acres)

Land Ownership: 98% private, 2% public

Planning Authority: 19% Huron County, 18% Perth County, 17% Wellington County, 14% Waterloo Region, 12% Oxford County 7% Middlesex County, 6% Dufferin County, 4% Hamilton, 2% Halton Region, 1% Peel Region

Physiography:

This ecodistrict can generally be described as smooth clay areas and gently rolling till moraines. Much of the ecodistrict is composed of the Stratford Till Plain and the Oxford Till Plain. The western boundary follows the transition between the Horseshoe Moraines and spillways of 6E-1 and the bevelled till plains and sand plains of the Huron Fringe in 6E-2. The eastern boundary follows the transition between the Flamborough Limestone Plain and the Niagara Escarpment influenced features of the adjacent ecodistricts. The northern boundary follows the transition between the undrumlinized Stratford Till Plain and the drumlinized Dundalk Till Plain of 6E-5. The eastern portion of the ecodistrict also contains the Guelph Drumlin Field and portions of the Hillsburgh Sandhills and Waterloo Hills.

Remaining Natural Cover:

Sixteen percent of the ecodistrict remains as natural cover. Till moraine and till plain forest complexes comprise half of the remaining natural cover. Another 34% of the remaining natural cover is wetland, primarily swamp.

Land Use:

More than three-quarters of 6E-1 has been converted to developed agricultural lands (704,107 ha), and an additional 36,632 hectares are pastures and abandoned fields. Lands associated with agriculture represent 80% of the ecodistrict. Over 14,000 hectares are gravel pits and quarries, and more than 20,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands constitute approximately 6% of Ecodistrict 6E-1 (54,699 ha). Conservation Authorities have secured 25% of this land (14,709 ha). Over 41,000 hectares are classified as provincially significant wetlands and 6,648 hectares are identified as provincially significant life science ANSIs. Approximately 27 hectares of provincially significant ANSIs coincide with provincial parks. Forty-two percent of the occurrences of rare species and vegetation community targets in 6E-1 occur within conservation lands, primarily in provincially significant wetlands.

Species Targets:

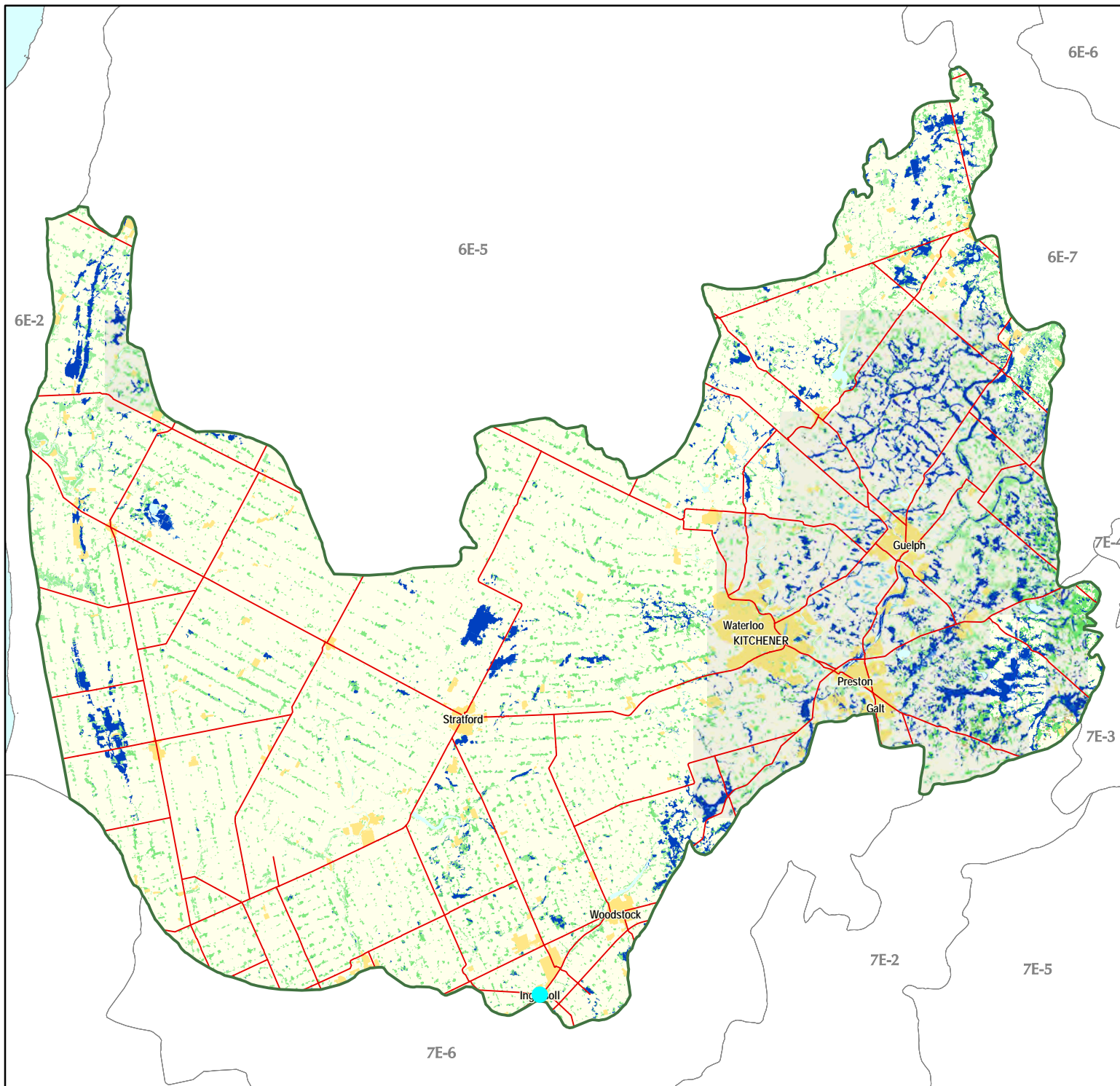
Nearly half of the 33 targeted species occurring in 6E-1 are plants. Twenty-eight species are designated as being at risk, including the Endangered American Ginseng (*Panax quinquefolius*), Threatened Dense Blazing Star (*Liatris spicata*) and Threatened Jefferson Salamander (*Ambystoma jeffersonianum*).

Vegetation Community Targets:

Two of the three significant vegetation communities within 6E-1 are globally rare, and the other is considered to be a high-quality representative community that is important to conservation.

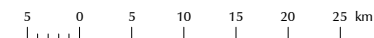
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-1 includes approximately one-third of all remaining natural cover, and half of the occurrences of rare species and vegetation community targets.

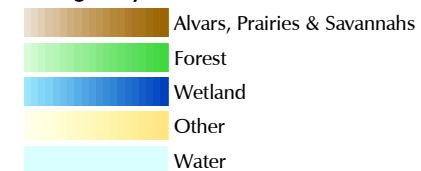


Great Lakes Conservation Blueprint for Biodiversity

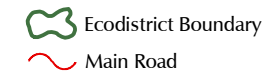
STRATFORD ECODISTRICT 6E-1



Ecological Systems



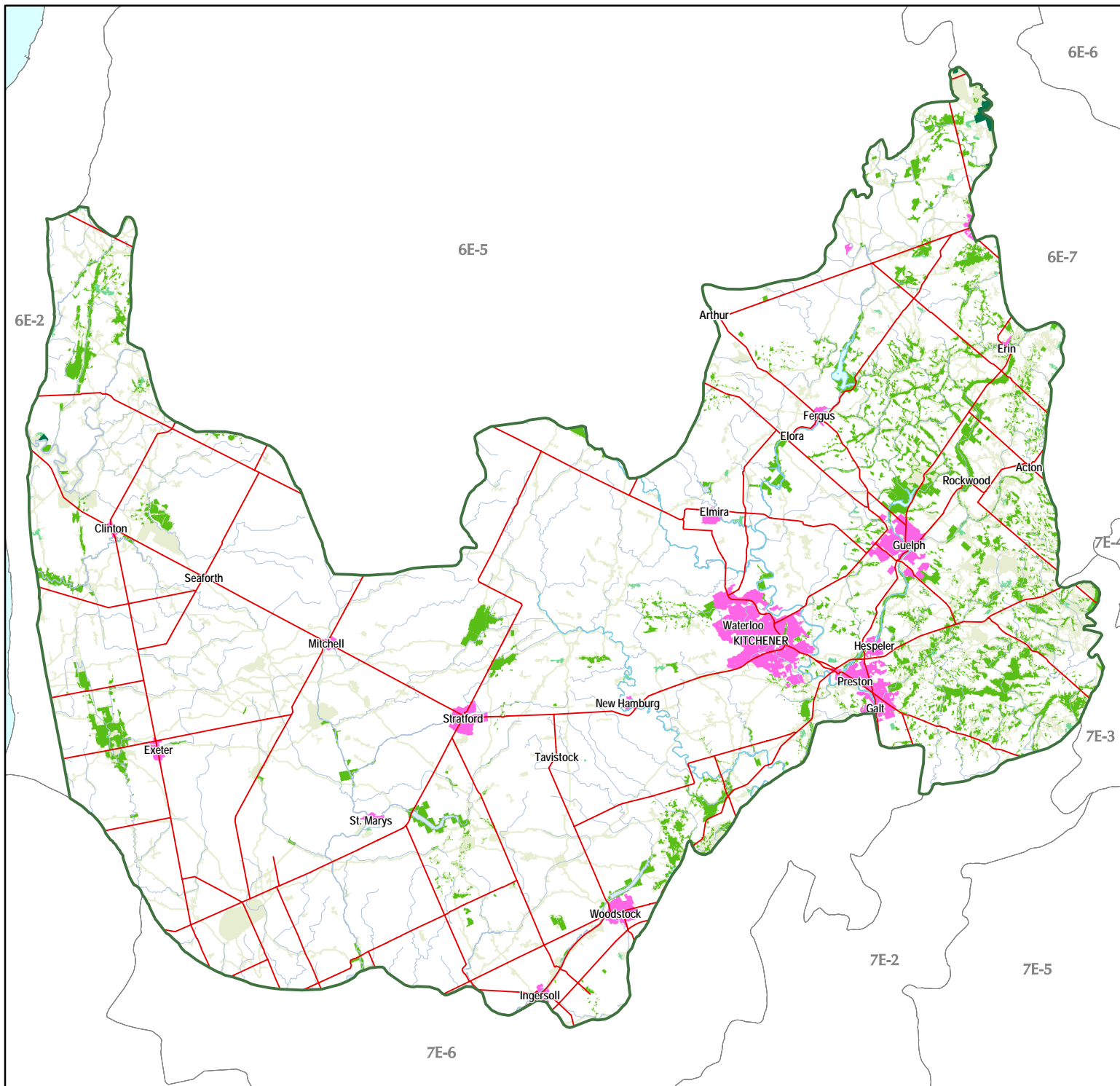
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

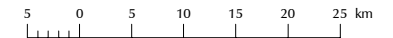
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Projection: Lambert Conformal Conic (North American Datum 1983)



Great Lakes Conservation Blueprint for Biodiversity

STRATFORD ECODISTRICT 6E-1



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Documented extant vegetation community and species targets in Ecodistrict 6E-1

Number of pops in 6E-1	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	0	1	100	3
13	<i>Arisaema dracontium</i>	Green Dragon	G5	S3	SC	SC	SAR	0	8	0	8	15	4	31	secondary
4	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
2	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	50	50	0	50	1	50	4
1	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3	S2			GRank	0	0	0	100	100	1	100	4
3	<i>Castanea dentata</i>	American Chestnut	G4	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Hydrastis canadensis</i>	Goldenseal	G4	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	100	0	0	100	1	100	2
8	<i>Liatris spicata</i>	Dense Blazing Star	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
4	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	50	75	25	100	4	100	3
2	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	50	0	100	2	100	2
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	100	0	100	1	100	4
1	<i>Stylophorum diphyllum</i>	Wood-poppy	G5	S1	END	END-R	SAR	0	0	0	100	100	1	100	secondary
1	<i>Symphytotrichum praealtum</i>	Willowleaf Aster	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Thelypteris simulata</i>	Bog Fern	G4G5	S1			disjunct	0	0	0	100	100	1	100	3
Mosses															
1	<i>Physcomitrium immersum</i>	A Moss	G2G3	S1			GRank	0	0	0	100	100	1	100	all viable
Birds															
4	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	25	0	50	2	50	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	100	1	100	secondary
2	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	0	100	2	100	secondary
1	<i>Empidonax virescens</i>	Acadian Flycatcher	G5	S2B,SZN	END	END	SAR	0	0	0	0	100	1	100	secondary
1	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	0	0	0	100	1	100	secondary
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	4	100	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	100	1	100	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	50	0	50	1	50	secondary
2	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	50	0	50	1	50	secondary
Amphibians															
5	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	40	0	40	2	40	secondary
Reptiles															
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	0	secondary
5	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	20	0	40	2	40	secondary
1	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	0	0	0	0	0	1	100	4
1	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Mammals															
1	<i>Urocyon cinereoargenteus</i>	Grey Fox	G5	SZB?	THR	THR	SAR	0	0	0	0	0	0	0	secondary

Number of pops in 6E-1	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities															
4	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	0	50	4	100	all viable
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	100	0	0	100	1	100	secondary
1	Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type		G1Q	S1			GRank	0	0	0	0	0	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-1

Ecological System	# of patches in 6E-1	Total Area (ha) of System in 6E-1	% of Total Area (ha) of 6E-1	% of Natural Cover in 6E-1	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	47,557	94,414.88	10.20	62.92	102	324.56	0.34	1,732	2,259.06	2.39	2,561	3,230.38	3.42	4,160	5,440.31	5.76	4,239	7,185.75	7.61
Alvars	185	442.00	0.05	0.29													5	31.06	7.03
Prairies and savannahs	5	7.63	0.00	0.01													2	7.25	95.08
Wetlands	9,378	50,606.88	5.46	33.73	4	9.00	0.02	204	3,941.75	7.79	575	4,299.88	8.50	6,373	41,368.63	81.75	6,374	41,507.88	82.02
All ecological systems	82,790	926,056.00	100.00	100.00	228	621.50	0.07	3,169	6,647.88	0.72	5,699	14,709.06	1.59	14,415	54,699.06	5.91	14,529	56,998.69	6.15

Ecological systems details for Ecodistrict 6E-1

Ecological System	# of patches in 6E-1	Total Area (ha) of System in 6E-1	% of Total Area (ha) of 6E-1	% of Natural Cover in 6E-1	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Clay Plain Mixed Forest Complex	5	6.00	0.00	0.00															
Clay Plain Deciduous Forest Complex	44	191.50	0.02	0.13													3	10.75	5.61
Coniferous Forest Complex on Peat and Muck	71	117.19	0.01	0.08	1	1.81	1.55	31	14.38	12.27	3	15.31	13.07	35	31.50	26.88	34	65.50	55.89
Mixed Forest Complex on Peat and Muck	256	176.31	0.02	0.12	1	1.00	0.57	47	25.13	14.25	25	6.13	3.47	74	32.31	18.33	75	40.81	23.15
Deciduous Forest Complex on Peat and Muck	472	475.00	0.05	0.32	2	2.00	0.42	84	39.56	8.33	35	7.69	1.62	121	47.94	10.09	122	52.69	11.09
Kame Moraine Coniferous Forest Complex	763	1,127.00	0.12	0.75	6	12.19	1.08	19	29.25	2.60	51	58.25	5.17	68	84.31	7.48	73	150.00	13.31
Kame Moraine Mixed Forest Complex	1,105	1,210.06	0.13	0.81	25	43.38	3.58	29	76.88	6.35	41	39.69	3.28	67	114.69	9.48	73	124.56	10.29
Kame Moraine Deciduous Forest Complex	2,954	7,010.69	0.76	4.67	31	120.00	1.71	73	180.75	2.58	92	113.00	1.61	174	318.94	4.55	179	483.88	6.90
Limestone Plain Coniferous Forest Complex	448	845.19	0.09	0.56				34	18.31	2.17	7	25.88	3.06	41	43.56	5.15	42	46.00	5.44
Limestone Plain Mixed Forest Complex	1,137	1,660.00	0.18	1.11				69	69.63	4.19	15	9.63	0.58	79	76.63	4.62	82	143.00	8.61
Limestone Plain Deciduous Forest Complex	2,647	5,805.56	0.63	3.87				104	220.31	3.79	19	33.56	0.58	130	230.31	3.97	130	294.31	5.07
Niagara Escarpment Mixed Forest Complex	2	0.31	0.00	0.00				2	0.31	100.00				2	0.31	100.00	2	0.31	100.00
Niagara Escarpment Deciduous Forest Complex	11	11.94	0.00	0.01				10	4.81	40.31				10	4.81	40.31	10	4.81	40.31
Sand Plain Coniferous Forest Complex	13	11.00	0.00	0.01															
Sand Plain Mixed Forest Complex	52	42.44	0.00	0.03															
Sand Plain Deciduous Forest Complex	292	261.75	0.03	0.17				1	0.69	0.26	1	0.06	0.02	6	1.00	0.38	10	8.00	3.06
Till Moraine Coniferous Forest Complex	3,077	5,334.31	0.58	3.56	6	10.56	0.20	273	504.38	9.46	366	663.31	12.43	582	1,122.88	21.05	585	1,353.13	25.37
Till Moraine Mixed Forest Complex	5,928	5,956.56	0.64	3.97	18	38.19	0.64	375	359.38	6.03	507	373.69	6.27	813	694.00	11.65	820	730.13	12.26
Till Moraine Deciduous Forest Complex	13,715	28,662.75	3.10	19.10	12	95.44	0.33	436	483.44	1.69	815	930.44	3.25	1,211	1,449.25	5.06	1,229	1,997.69	6.97
Till Plain Coniferous Forest Complex	1,125	1,638.19	0.18	1.09				33	42.88	2.62	111	276.13	16.86	145	319.06	19.48	147	349.19	21.32
Till Plain Mixed Forest Complex	3,226	4,119.94	0.44	2.75				45	31.88	0.77	82	83.38	2.02	129	115.38	2.80	138	183.50	4.45
Till Plain Deciduous Forest Complex	10,214	29,751.19	3.21	19.83				67	157.13	0.53	391	594.25	2.00	473	753.44	2.53	485	1,147.50	3.86
Alvar	185	442.00	0.05	0.29													5	31.06	7.03
Prairies and Savannahs	5	7.63	0.00	0.01													2	7.25	95.08
Wetlands																			
Bog Complex	22	42.19	0.00	0.03				5	3.88	9.19	5	9.56	22.67	21	40.75	96.59	21	40.75	96.59
Fen Complex	763	1,555.50	0.17	1.04				21	26.75	1.72	32	85.50	5.50	83	179.13	11.52	87	235.13	15.12
Marsh Complex	2,516	3,690.13	0.40	2.46	1	2.31	0.06	57	71.88	1.95	184	247.13	6.70	2,076	3,208.56	86.95	2,077	3,227.63	87.47
Swamp Complex	6,077	45,319.06	4.89	30.20	3	6.69	0.01	121	3,839.25	8.47	354	3,957.69	8.73	4,193	37,940.19	83.72	4,189	38,004.38	83.86
Non-Target Natural Ecological Systems																			
Coniferous Plantation Forest	143	804.06	0.09								52	343.63	42.74	53	343.69	42.74	60	466.38	58.00

Ecological System	# of patches in 6E-1	Total Area (ha) of System in 6E-1	% of Total Area (ha) of 6E-1	% of Natural Cover in 6E-1	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover																			
Bedrock Outcrop	235	747.00	0.08	0.50				3	0.19	0.03	3	0.19	0.03	6	0.38	0.05	15	253.44	33.93
Pasture and Abandoned Fields	16,754	36,632.25	3.96		61	137.19	0.37	291	101.56	0.28	614	683.44	1.87	951	895.63	2.44	951	895.69	2.45
Water	1,405	3,832.32	0.41	2.55	2	0.19	0.00	25	66.38	1.70	281	1,797.25	46.15	316	1,867.31	47.94	316	1,867.31	47.94
Anthropogenic Land Types																			
Settlement and Developed Land	54	20,034.19	2.16								42	48.06	0.24	42	48.06	0.24	42	48.06	0.24
Cropland	6,167	704,107.38	76.03		59	150.56	0.02	907	275.44	0.04	1,541	4,182.81	0.59	2,473	4,607.88	0.65	2,484	4,608.69	0.65
NRVIS Pit or Quarry	907	14,365.00	1.55					7	3.50	0.02	30	123.44	0.86	41	127.19	0.89	41	127.19	0.89

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Kincardine

Ecodistrict 6E-2

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 147,254 hectares (363,872 acres)

Land Ownership: 96% private, 1% public, 3% First Nations lands

Planning Authority: 68% Bruce County, 32% Huron County

Physiography:

This ecodistrict is composed of the Huron Slope and Huron Fringe. The northern boundary of the ecodistrict extends to the transition between the sand plain of the Huron Fringe (formerly in 6E-3) and the limestone plain of the upper Bruce Peninsula (6E-14). The eastern boundary follows the transition between the bevelled till plains and sand plains of the Huron Fringe and the till moraines and spillways of the Huron Slope in 6E-5.

Remaining Natural Cover:

Approximately 24% of the ecodistrict remains as natural cover, primarily forest. Sand plain deciduous forest complexes comprise 26% of this remaining natural cover, followed by sand plain mixed forest complexes (17%) and till plain deciduous forest complexes (15%). Another 16% of the natural cover is wetland, primarily swamp.

Land Use:

Nearly 70% of 6E-2 has been converted to developed agricultural lands (101,750 ha), and an additional 6,569 hectares are pastures or abandoned fields. Lands associated with agriculture represent nearly 75% of the ecodistrict. Approximately 2,300 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands occupy approximately 5% of Ecodistrict 6E-2 (7,313 ha). Conservation Authorities have secured 17% of this land (1,265 ha). Nearly 3,000 hectares have been designated as provincially significant wetlands and nearly 2,500 hectares are provincially significant life science



ANSIs. Nearly 60% of all occurrences of species and vegetation community targets in 6E-2 are within identified conservation lands, primarily within provincial parks, provincially significant life science ANSIs, and provincially significant wetlands.

Species Targets:

Nearly 75% of the 30 targeted species in 6E-1 are vascular plants. Eleven of these species have been designated as species at risk, including the Endangered and endemic Pitcher's Thistle (*Cirsium pitcheri*) and the Endangered Spotted Turtle (*Clemmys guttata*). Nearly half of the targeted vascular plants occur as disjuncts in the Great Lakes ecoregion, including Giant Rattlesnake-plantain (*Goodyera oblongifolia*) and American Beachgrass (*Ammophila breviligulata*).

Vegetation Communities:

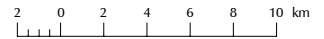
Four of the eight significant vegetation communities identified within 6E-2 are globally rare (alvar grasslands and coastal marshes), six are provincially rare, and two are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-2 includes approximately 29% of all remaining natural cover, and nearly 75% of all occurrences of species and vegetation community targets in the ecodistrict.

Great Lakes Conservation Blueprint for Biodiversity

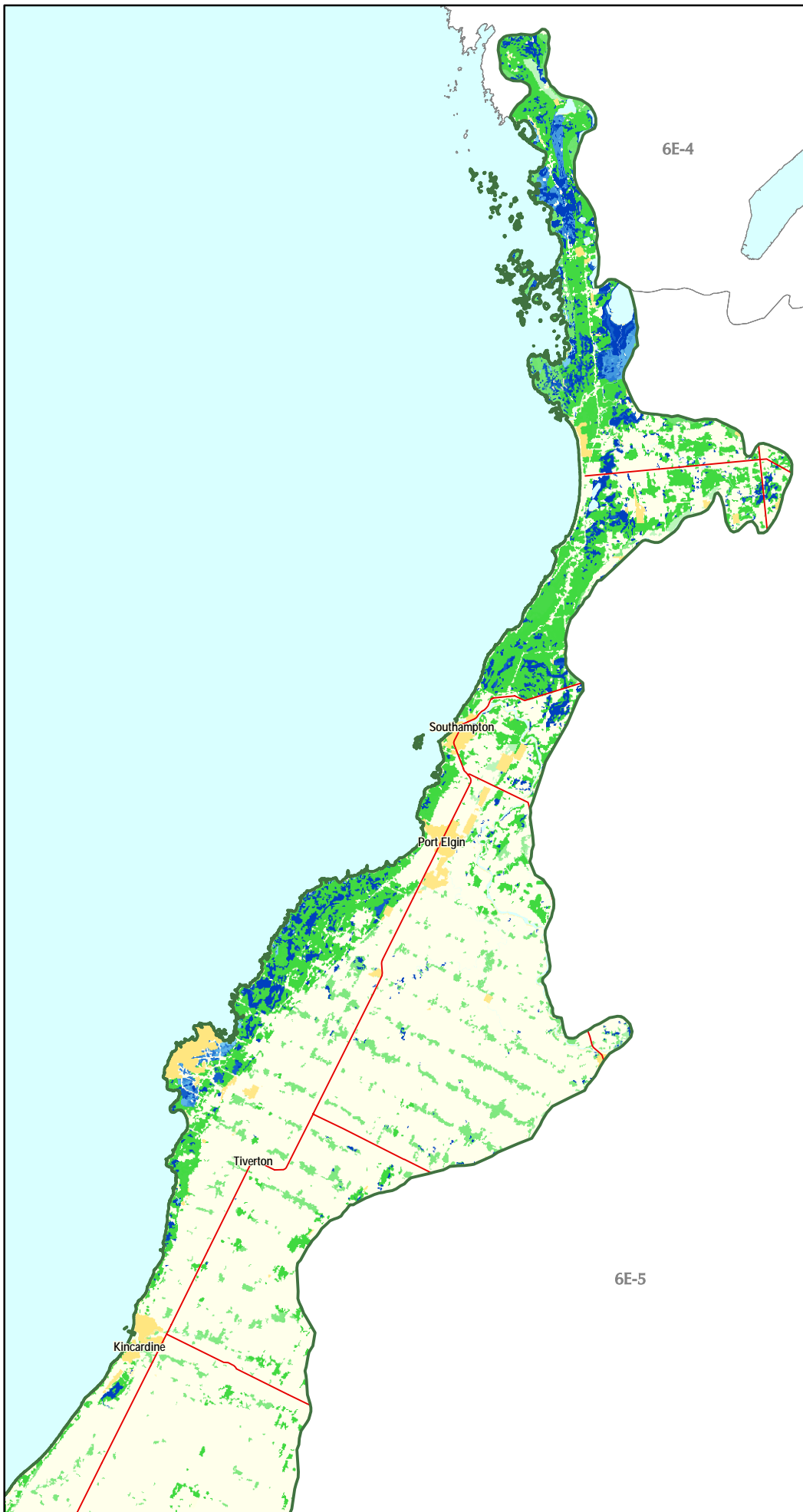
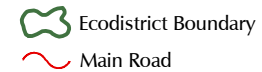
KINCARDINE ECODISTRICT 6E-2



Ecological Systems



Other Information



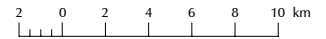
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

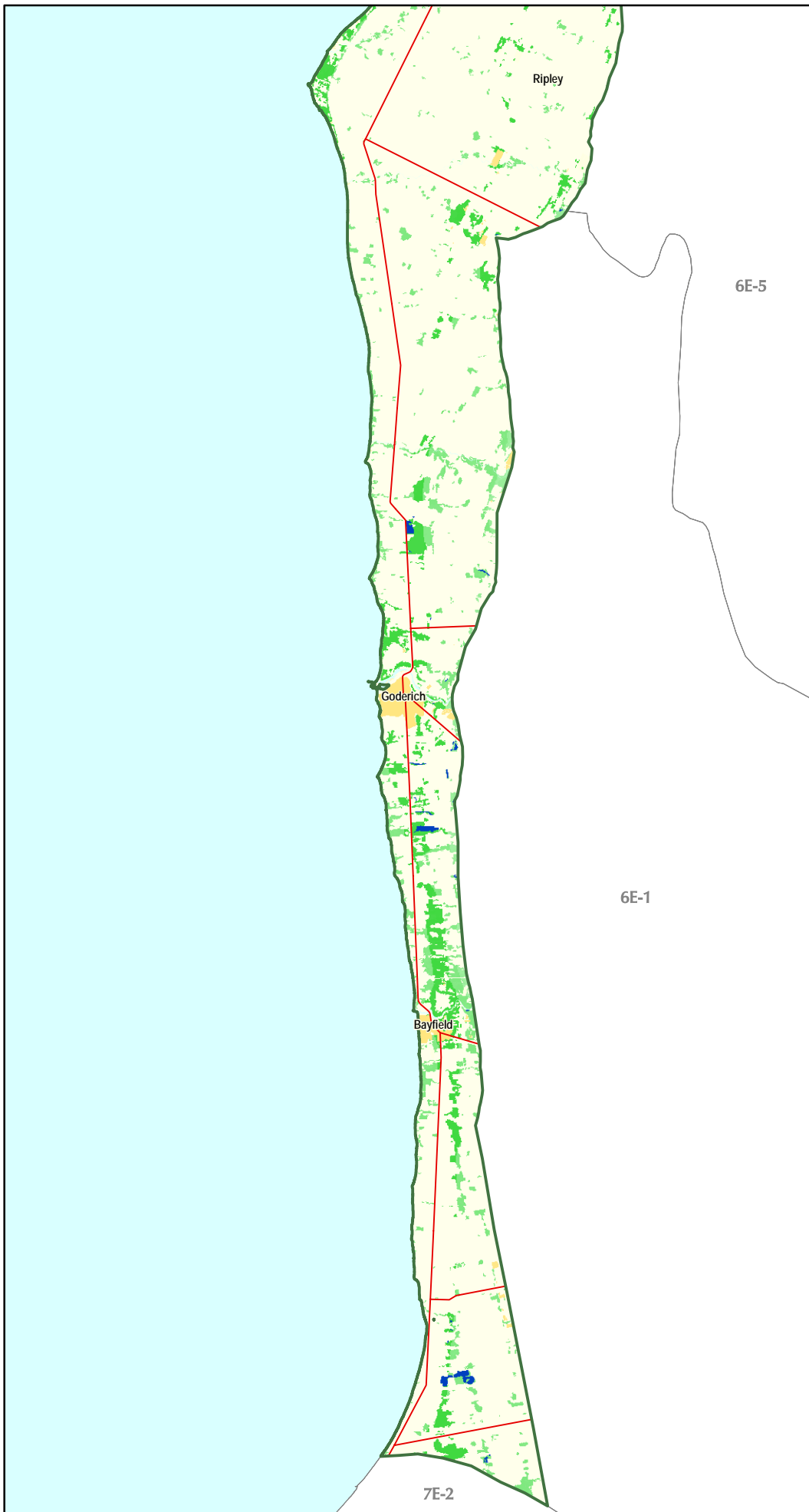
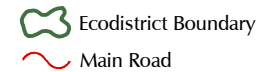
KINCARDINE ECODISTRICT 6E-2



Ecological Systems



Other Information



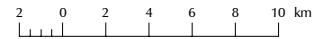
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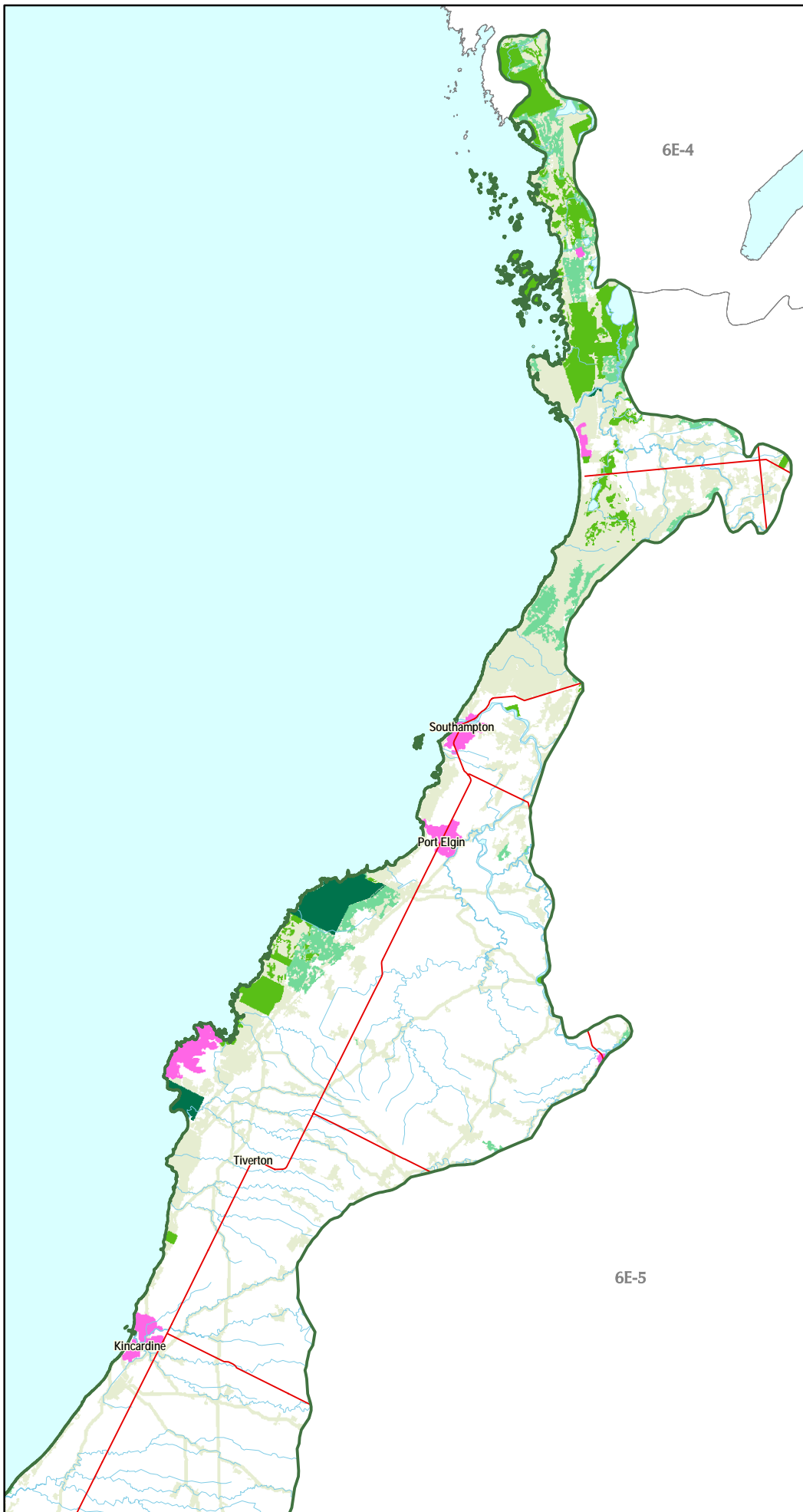


Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



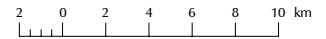
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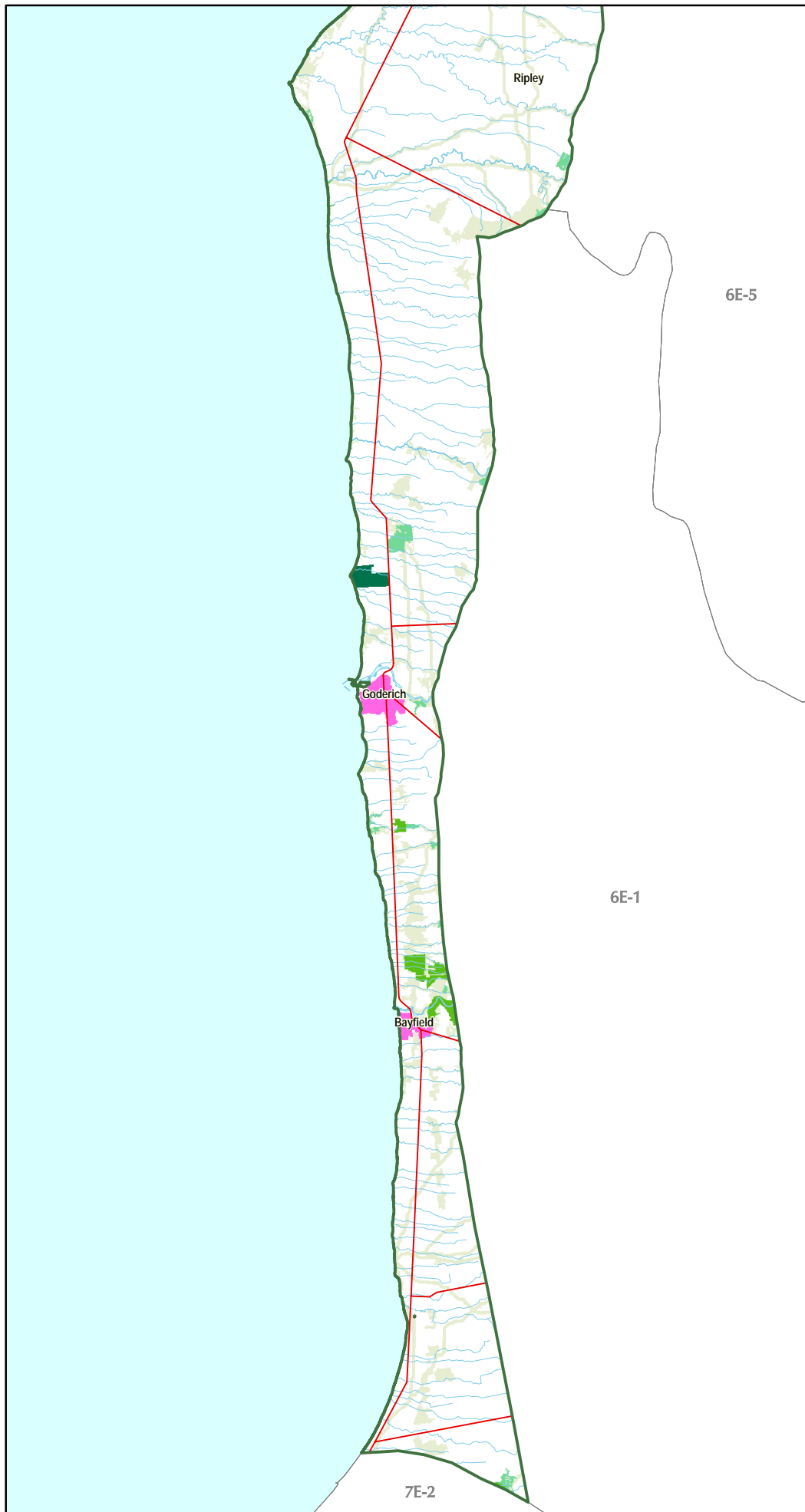


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Documented extant vegetation community and species targets in Ecodistrict 6E-2

Number of pops in 6E-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	0	2	100	3
3	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	67	0	0	67	3	100	3
4	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	0	0	25	0	75	3	75	secondary
2	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	0	0	0	0	2	100	3
7	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	14	14	0	29	4	57	4
1	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	0	0	0	0	1	100	3
2	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	0	0	50	50	100	2	100	4
1	<i>Cirsium pitcheri</i>	Pitcher's Thistle	G3	S2	END	END	GRank endemic	0	100	0	0	100	1	100	3
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	100	0	0	100	1	100	4
7	<i>Elymus lanceolatus</i> ssp. <i>psammophilus</i>	Great Lakes Wheatgrass	G5T3	S3			GRank endemic	0	29	0	0	29	4	57	4
2	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	100	0	100	2	100	3
5	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	40	20	20	80	5	100	3
6	<i>Iris lacustris</i>	Dwarf Lake Iris	G3	S3	THR		GRank endemic	0	33	0	17	67	4	67	4
1	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	100	0	0	100	1	100	2
6	<i>Linum medium</i> var. <i>medium</i>	Stiff Yellow Flax	G4T3T4	S3			GRank endemic	0	17	67	0	100	6	100	4
1	<i>Muhlenbergia richardsonis</i>	Soft-leaf Muhly	G5	S2			disjunct	0	0	0	0	0	1	100	3
2	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	100	0	100	2	100	3
6	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	33	33	0	67	4	67	3
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	100	0	100	1	100	4
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	100	0	0	100	1	100	2
2	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	100	0	0	100	2	100	3
2	<i>Valeriana edulis</i> ssp. <i>ciliata</i>	Hairy Valerian	G5T3	S1			GRank	0	0	0	0	0	1	50	secondary
Liverworts															
1	<i>Lophozia rutheana</i>	A Liverwort	G5	S5			disjunct	0	0	0	0	0	1	100	3
Birds															
3	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	100	1	100	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	1	100	secondary
Reptiles															
4	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	25	25	0	75	3	75	secondary
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
2	<i>Regina septemvittata</i>	Queen Snake	G5	S2	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	0	100	0	100	1	100	4
Communities															
9	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	11	56	0	89	8	89	3
9	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type		G?	S2			SRank	0	11	11	0	0	3	33	3
1	Moist - Fresh White Cedar - Hemlock Coniferous Forest Type		G4?	S5			high quality	0	0	0	100	100	1	100	secondary
1	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type		G2G3?	S2S3			GRank	0	0	0	0	0	1	100	all viable
1	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type		G2?	S2			GRank	0	0	100	0	100	1	100	all viable
4	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	0	25	25	0	100	4	100	all viable
1	Silky Dogwood Mineral Thicket Swamp Type		G5	S3S4			SRank	0	0	0	0	100	1	100	3

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Communities continued															
1	White Cedar Conifer Swamp		G5	S5			high quality	0	0	100	0	100	1	100	secondary

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The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-2

Ecological System	# of Patches in 6E-2	Total Area (ha) in 6E-2	% of Total Area of 6E-2	% of Natural Cover in 6E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	6,771	28,202.94	19.15	80.10	1	3.75	0.01	276	821.25	2.91	528	1,635.00	5.80	251	680.44	2.41	987	2,985.44	10.59	1,036	6,451.69	22.88
Wetlands	1,806	5,632.63	3.83	16.00	1	2.25	0.04	116	332.94	5.91	341	630.25	11.19	177	465.88	8.27	1,002	3,202.00	56.85	1,002	3,230.44	57.35
All ecological systems	13273	147533.28	100.00	100.00	5	118.19	0.08	598	1815.25	1.23	1269	2488.19	1.69	558	1264.94	0.86	2781	7312.81	4.96	2840	10902.88	7.39

Ecological systems details for Ecodistrict 6E-2

Ecological System	# of Patches in 6E-2	Total Area (ha) in 6E-2	% of Total Area of 6E-2	% of Natural Cover in 6E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservati-on Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Beach and Shorecliff Coniferous Forest Complex	9	8.50	0.01	0.02																2	1.94	22.79
Beach and Shorecliff Mixed Forest Complex	38	99.88	0.07	0.28							19	30.06	30.10	1	0.25	0.25	20	30.31	30.35	15	51.00	51.06
Beach and Shorecliff Deciduous Forest Complex	69	256.88	0.17	0.73							7	37.75	14.70				7	37.75	14.70	11	123.44	48.05
Clay Plain Mixed Forest Complex	1	1.75	0.00	0.00										2	0.38	21.43	2	0.38	21.43	2	0.38	21.43
Clay Plain Deciduous Forest Complex	30	67.50	0.05	0.19										2	4.06	6.02	2	4.06	6.02	6	48.19	71.39
Coniferous Forest Complex on Peat and Muck	79	243.06	0.17	0.69				7	23.00	9.46				7	3.00	1.23	15	26.06	10.72	15	135.75	55.85
Mixed Forest Complex on Peat and Muck	133	485.13	0.33	1.38				4	17.44	3.59				20	25.63	5.28	28	43.31	8.93	26	309.25	63.75
Deciduous Forest Complex on Peat and Muck	65	154.44	0.10	0.44				3	10.63	6.88				5	4.25	2.75	8	14.88	9.63	9	26.81	17.36
Limestone Plain Coniferous Forest Complex	102	452.94	0.31	1.29							28	112.31	24.80	1	10.06	2.22	30	112.44	24.82	33	120.75	26.66
Limestone Plain Mixed Forest Complex	190	509.94	0.35	1.45							10	30.56	5.99	10	9.31	1.83	23	39.56	7.76	47	175.06	34.33
Limestone Plain Deciduous Forest Complex	26	89.50	0.06	0.25										4	15.88	17.74	4	15.88	17.74	6	57.44	64.18
Sand Plain Coniferous Forest Complex	752	3,101.25	2.11	8.81				67	187.63	6.05	101	322.88	10.41	45	94.63	3.05	202	584.31	18.84	206	935.31	30.16
Sand Plain Mixed Forest Complex	1,449	6,092.63	4.14	17.30				97	153.13	2.51	140	674.69	11.07	102	367.88	6.04	321	1,106.19	18.16	321	1,820.63	29.88
Sand Plain Deciduous Forest Complex	1,592	9,044.06	6.14	25.69	1	3.75	0.04	87	410.56	4.54	88	213.31	2.36	45	113.44	1.25	216	726.00	8.03	210	2,088.44	23.09
Till Moraine Coniferous Forest Complex	30	99.13	0.07	0.28							3	2.81	2.84				3	2.81	2.84	5	28.75	29.00
Till Moraine Mixed Forest Complex	51	59.56	0.04	0.17							6	12.50	20.99				6	12.50	20.99	11	14.13	23.71
Till Moraine Deciduous Forest Complex	121	332.19	0.23	0.94							9	21.00	6.32				9	21.00	6.32	13	116.13	34.96
Till Plain Coniferous Forest Complex	267	967.94	0.66	2.75				2	8.88	0.92	14	36.25	3.75	1	0.06	0.01	17	45.19	4.67	19	132.81	13.72
Till Plain Mixed Forest Complex	443	842.75	0.57	2.39				4	2.63	0.31	27	56.56	6.71				31	59.19	7.02	31	59.19	7.02
Till Plain Deciduous Forest Complex	1,324	5,293.94	3.60	15.04				5	7.38	0.14	32	64.63	1.22	6	31.63	0.60	43	103.63	1.96	48	206.31	3.90
Wetlands																						
Bog Complex	1	1.00	0.00	0.00										1	0.13	12.50	1	1.00	100.00	1	1.00	100.00
Fen Complex	203	251.69	0.17	0.71				39	18.56	7.38	40	42.75	16.99	5	3.63	1.44	196	228.63	90.84	196	228.63	90.84
Marsh Complex	483	986.13	0.67	2.80				7	20.69	2.10	155	121.75	12.35	69	122.44	12.42	333	662.56	67.19	333	663.75	67.31
Swamp Complex	1,119	4,393.81	2.98	12.48	1	2.25	0.05	70	293.69	6.68	146	465.75	10.60	102	339.69	7.73	472	2,309.81	52.57	472	2,337.06	53.19
Non-Target Natural Ecological Systems																						
Coniferous Plantation Forest	11	134.00	0.09																	2	62.69	46.78
Other Landcover																						
Bedrock Outcrop	197	482.75	0.33	1.37				79	51.69	10.71	44	19.69	4.08	3	8.06	1.67	135	79.38	16.44	138	111.75	23.15
Pasture and Abandoned Fields	2,650	6,569.25	4.46					25	36.19	0.55	13	7.81	0.12	31	27.75	0.42	70	71.81	1.09	74	72.06	1.10

Ecological System	# of Patches in 6E-2	Total Area (ha) in 6E-2	% of Total Area of 6E-2	% of Natural Cover in 6E-2	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover continued																						
Water	471	890.11	0.60	2.53	1	110.50	7.83	31	336.06	23.81	247	111.25	7.88	53	33.31	2.36	334	583.25	41.33	334	583.25	41.33
Anthropogenic Land Types																						
Settlement and Developed Land	12	2,300.25	1.56					2	0.19	0.01				1	3.13	0.14	3	3.31	0.14	3	3.31	0.14
Anthropogenic Land Types continued																						
Cropland	1,173	101,749.44	69.10		2	1.69	0.00	68	236.19	0.23	131	91.00	0.09	41	45.88	0.05	239	373.50	0.37	240	373.56	0.37
NRVIS Pit or Quarry	182	1,050.81	0.71					1	0.75	0.07	9	12.88	1.23	1	0.50	0.05	11	14.13	1.34	11	14.13	1.34

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Meaford

Ecodistrict 6E-4

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 171,679 hectares (424,227 acres)

Land Ownership: 92.5% private, 2.5% public, 5% First Nations lands

Planning Authority: 66% Grey County, 33% Bruce County, 1% Simcoe County

Physiography:

This ecodistrict is underlain by limestone and shale bedrock associated with the Niagara Escarpment. Soils are generally till and clay loams. The northwestern boundary includes limestone plains and clay plains and excludes the sand plains along the fringe of Lake Huron (6E-2) and higher drumlinized limestone plains of 6E-5. The western and southern boundaries generally follow the extent of shallow-soiled limestone plain atop the Niagara Escarpment and the scattered till moraines along the Niagara Escarpment rim. The eastern boundary follows the transition between the Niagara Escarpment slopes and the Horseshoe Moraines and till plains.

Remaining Natural Cover:

Approximately 52% of the ecodistrict remains as natural cover, 50% of which is limestone plain forest complex. Another 14% of the remaining cover is wetland, largely swamps.

Land Use:

Twenty-eight percent of 6E-4 has been converted to developed agricultural lands (48,059 ha), and an additional 31,184 hectares are pastures and abandoned fields. Lands associated with agriculture represent 46% of the ecodistrict. Nearly 1,700 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands occupy approximately 17% of Ecodistrict 6E-4 (29,803ha). Nearly 19,000 hectares are identified as provincially significant



life science ANSIs, of which 706 hectares coincide with provincial parks. Approximately 70% of the occurrences of rare species and vegetation community target are within conservation lands, primarily provincially significant life science ANSIs.

Species Targets:

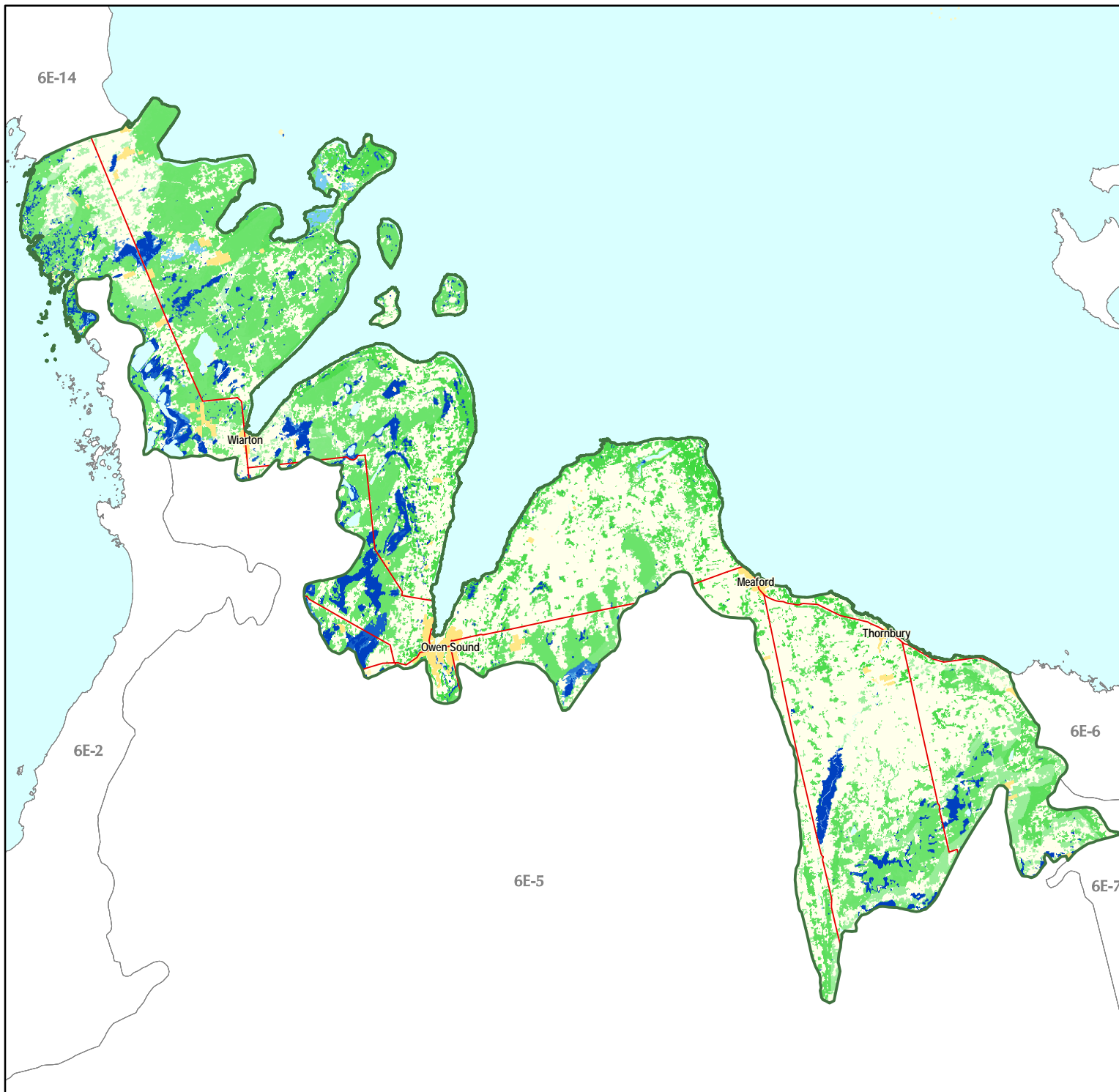
Nearly 75% of the 35 targeted species occurring in 6E-4 are plants, many of which are globally rare. Fifteen species have been designated as species at risk, including the Endangered American Ginseng (*Panax quinquefolius*), and the Threatened Massasauga (*Sistrurus catenatus*). There are also fourteen plant targets that occur in the Great Lakes as disjuncts including Male Fern (*Dryopteris filix-mas*) and Northern Holly-fern (*Polystichum lonchitis*). The majority of the global population of American Hart's-tongue Fern also occurs in this ecodistrict.

Vegetation Community Targets:

Eleven of the 23 significant vegetation communities identified within 6E-4 are globally rare (alvar, coastal meadow marsh, talus), 20 are provincially rare, and three are considered to be high-quality representative vegetation communities that are important to conservation.

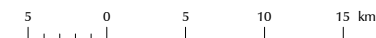
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-4 includes approximately 41% of all remaining natural cover, and nearly 80% of all occurrences of species and vegetation community targets.

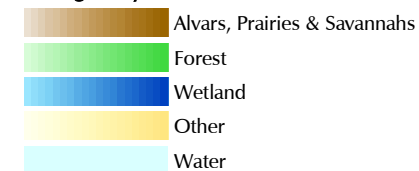


Great Lakes Conservation Blueprint for Biodiversity

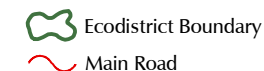
MEAFORD ECODISTRICT 6E-4



Ecological Systems



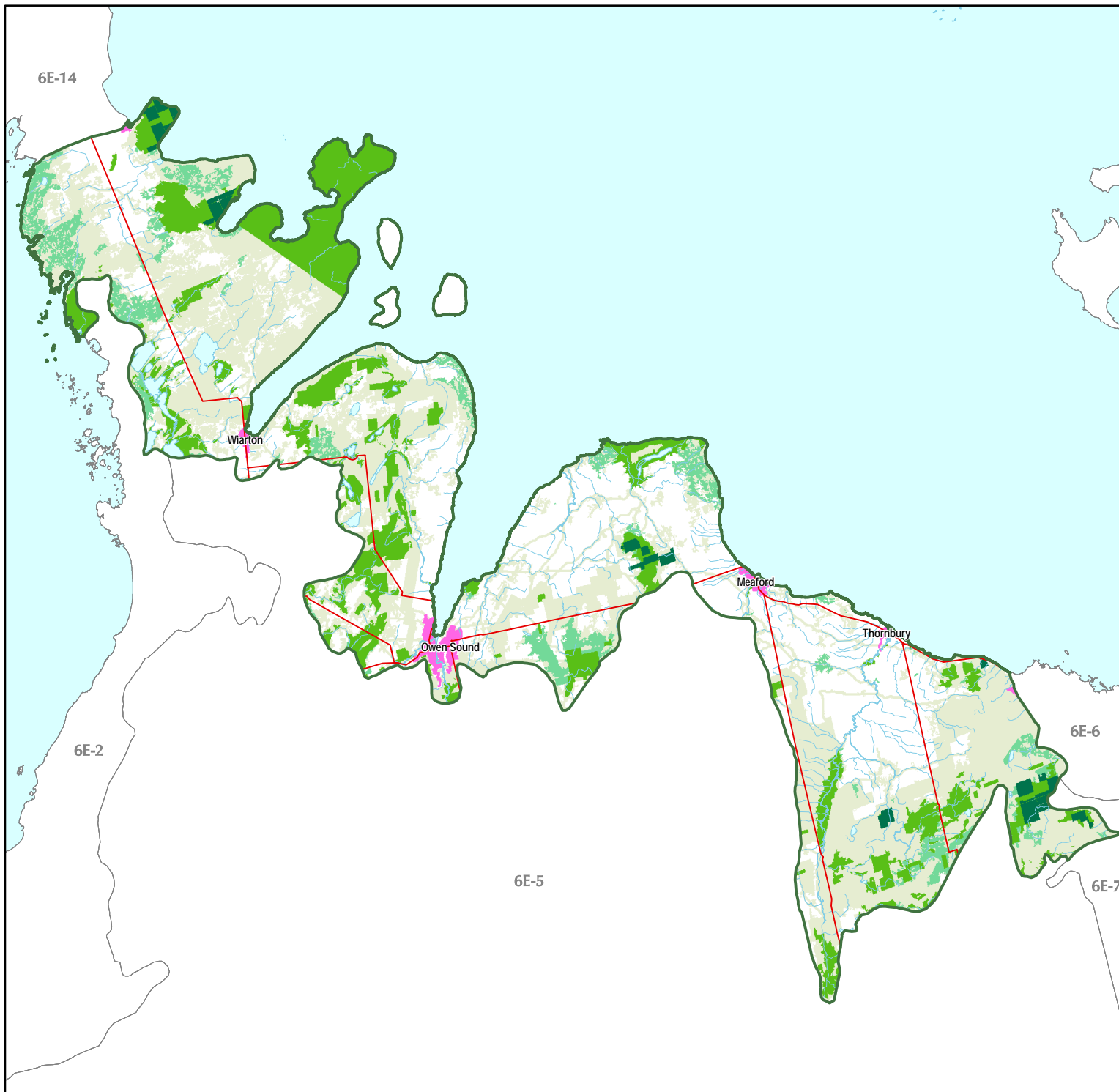
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

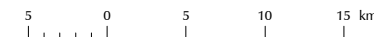
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MEAFORD ECODISTRICT 6E-4



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-4

Number of pops in 6E-4	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Adenocaulon bicolor</i>	Trail-plant	G5?	S1			disjunct	0	0	100	0	100	1	100	3
1	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	0	100	0	100	1	100	3
2	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	0	0	50	50	50	1	50	secondary
48	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	8	35	17	50	27	56	4
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	100	100	100	1	100	2
2	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	0	0	50	50	50	2	100	4
3	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	0	0	67	33	67	3	100	3
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	100	100	100	1	100	4
2	<i>Draba cana</i>	Hoary Draba	G5	S4			disjunct	0	0	50	0	50	2	100	3
10	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	0	50	10	60	6	60	3
5	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	100	20	100	5	100	3
2	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	0	100	0	100	2	100	3
2	<i>Iris lacustris</i>	Dwarf Lake Iris	G3	S3	THR		GRank endemic	0	0	50	0	50	2	100	4
3	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	67	100	0	100	3	100	2
1	<i>Linum medium</i> var. <i>medium</i>	Stiff Yellow Flax	G4T3T4	S3			GRank endemic	0	0	100	100	100	1	100	4
3	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	100	0	100	3	100	3
13	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	15	69	8	69	10	77	3
12	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	50	33	67	10	83	2
1	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	100	0	100	1	100	secondary
4	<i>Piperia unalascensis</i>	Alaskan Rein-orchid	G5	S4			disjunct	0	0	50	0	50	3	75	3
1	<i>Poa alpina</i>	Alpine Bluegrass	G5	S4			disjunct	0	0	100	0	100	1	100	3
1	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	0	0	100	0	100	1	100	3
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	0	100	100	100	1	100	2
9	<i>Polystichum lonchitis</i>	Northern Holly-fern	G5	S4			disjunct	0	22	67	0	78	7	78	3
2	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	50	0	100	2	100	4
1	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	0	100	0	100	1	100	3
Birds															
2	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	100	100	100	2	100	secondary
6	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	17	83	5	83	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	100	0	100	1	100	secondary
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	2	100	secondary
2	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
Reptiles															
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	100	100	100	1	100	secondary
5	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	20	40	20	60	4	80	4
Communities															
1	Basswood - White Ash - Butternut Moist Treed Limestone Talus Type		G3G5	S2			GRank	0	0	100	0	100	1	100	all viable
3	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	67	0	67	3	100	3

Number of pops in 6E-4	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued														
2	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type	G5	S3			SRank	0	0	100	50	100	2	100	3
1	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type	G2?	S2			GRank	0	0	100	0	100	1	100	all viable
2	Dry Herbaceous Limestone / Dolostone Talus	G?	S2			SRank	0	0	100	0	100	2	100	3
1	Fresh Sugar Maple - Beech Deciduous Forest Type	G5?	S5			high quality	0	0	0	100	100	1	100	secondary
4	Fresh Sugar Maple Deciduous Forest Type	G5?	S5			high quality	0	0	100	25	100	4	100	secondary
8	Graminoid Coastal Meadow Marsh Type	G2?	S2			GRank	0	0	25	0	38	6	75	3
1	Hemlock - Sugar Maple Moist Limestone Talus Type	G?	S2			SRank	0	0	100	0	100	1	100	3
1	Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type	G1?	S1			GRank	0	0	0	0	0	1	100	all viable
3	Mountain Maple Open Limestone Talus Shrubland Type	G?	S3			SRank	0	33	100	0	100	3	100	3
3	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type	G2G3?	S2S3			GRank	0	0	67	0	67	3	100	all viable
1	Open Limestone / Dolostone Cliff Rim Type	G5	S2			SRank	0	0	100	0	100	1	100	3
1	Round-leaved Dogwood Limestone / Dolostone Shrubland Barren Type	G?	S3			SRank	0	0	100	0	100	1	100	3
1	Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type	G?	S3			SRank	0	0	100	0	100	1	100	3
1	Sand Cherry Dune Shrubland Type	G2Q	S2			GRank	0	0	0	0	0	1	100	all viable
2	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type	G2?	S2			GRank	0	0	50	0	50	2	100	all viable
2	Shrubby Cinquefoil Coastal Meadow Marsh Type	G2?	S1			GRank	0	0	50	0	50	2	100	all viable
5	Sugar Maple Moist Treed Limestone Talus Type	G3G5	S3			GRank	0	20	100	0	100	5	100	all viable
2	White Birch Dry Treed Limestone Talus Type	G3G5	S3			GRank	0	50	100	0	100	2	100	all viable
1	White Cedar Conifer Swamp	G5	S5			high quality	0	0	100	100	100	1	100	secondary
4	White Cedar Dry Treed Limestone Talus Type	G?	S3			SRank	0	0	25	0	75	3	75	3
1	White Cedar Treed Limestone Cliff Type	G2Q	S3			GRank	0	100	100	0	100	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-4

Ecological System	# of Patches in 6E-4	Total Area (ha) in 6E-4	% of Total Area in 6E-4	% of Natural Cover in 6E-4	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	12,681	74,750.38	43.54	83.86	330	1,922.50	2.57	2,238	13,928.63	18.63	1,284	4,093.50	5.48	3,267	17,427.25	23.31	3,242	27,021.69	36.15
Wetlands	2,348	12,292.81	7.16	13.79	3	3.50	0.03	439	2,314.00	18.82	511	1,807.94	14.71	1,177	8,597.38	69.94	1,169	8,778.31	71.41
All ecological systems	24643	171960.50	100.00	100.00	550	2434.19	1.42	4203	18738.69	10.90	2348	6681.31	3.89	6582	29803.25	17.33	6553	39641.00	23.05

Ecological systems details for Ecodistrict 6E-4

Ecological System	# of Patches in 6E-4	Total Area (ha) in 6E-4	% of Total Area in 6E-4	% of Natural Cover in 6E-4	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Coniferous Forest Complex	19	58.94	0.03	0.07													2	42.44	72.00
Beach and Shorecliff Mixed Forest Complex	72	190.56	0.11	0.21				1	0.06	0.03				1	0.06	0.03	3	65.94	34.60
Beach and Shorecliff Deciduous Forest Complex	64	216.00	0.13	0.24													3	64.25	29.75
Clay Plain Coniferous Forest Complex	73	181.69	0.11	0.20	1	1.81	1.00	1	0.38	0.21				2	2.19	1.20	6	48.94	26.93
Clay Plain Mixed Forest Complex	307	1,122.69	0.65	1.26	2	4.19	0.37	20	39.19	3.49	2	6.63	0.59	24	50.00	4.45	26	285.00	25.39
Clay Plain Deciduous Forest Complex	401	1,337.06	0.78	1.50	2	16.31	1.22	19	39.25	2.94	3	6.13	0.46	24	61.69	4.61	21	130.94	9.79
Coniferous Forest Complex on Peat and Muck	69	79.69	0.05	0.09							17	22.69	28.47	22	24.13	30.27	22	24.13	30.27
Mixed Forest Complex on Peat and Muck	157	303.00	0.18	0.34							30	59.00	19.47	33	63.13	20.83	34	94.31	31.13
Deciduous Forest Complex on Peat and Muck	81	309.13	0.18	0.35							27	122.50	39.63	31	134.19	43.41	30	175.19	56.67
Kame Moraine Mixed Forest Complex	3	2.06	0.00	0.00															
Kame Moraine Deciduous Forest Complex	10	28.50	0.02	0.03							1	0.38	1.32	1	0.38	1.32	1	0.38	1.32
Limestone Plain Coniferous Forest Complex	948	5,526.81	3.22	6.20	32	46.81	0.85	180	523.75	9.48	136	493.94	8.94	283	925.75	16.75	288	2,695.88	48.78
Limestone Plain Mixed Forest Complex	2,607	16,160.25	9.41	18.13	113	347.88	2.15	630	3,402.94	21.06	411	918.00	5.68	941	4,038.13	24.99	918	5,362.44	33.18
Limestone Plain Deciduous Forest Complex	2,010	22,261.50	12.97	24.98	53	783.31	3.52	365	4,411.88	19.82	233	1,519.69	6.83	529	5,601.13	25.16	484	7,911.56	35.54
Niagara Escarpment Coniferous Forest Complex	158	419.81	0.24	0.47	5	28.50	6.79	84	229.25	54.61	13	9.81	2.34	89	250.50	59.67	89	256.56	61.11
Niagara Escarpment Mixed Forest Complex	474	1,868.06	1.09	2.10	28	28.44	1.52	201	957.50	51.26	15	42.13	2.26	211	1,001.25	53.60	210	1,099.38	58.85
Niagara Escarpment Deciduous Forest Complex	680	4,785.56	2.79	5.37	23	353.25	7.38	169	1,312.25	27.42	31	68.19	1.42	196	1,505.94	31.47	196	1,902.75	39.76
Sand Plain Coniferous Forest Complex	101	220.31	0.13	0.25				16	60.56	27.49	14	22.75	10.33	23	63.88	28.99	26	73.44	33.33
Sand Plain Mixed Forest Complex	268	565.13	0.33	0.63				33	47.19	8.35	33	62.63	11.08	58	90.31	15.98	69	131.19	23.21
Sand Plain Deciduous Forest Complex	326	1,755.88	1.02	1.97	3	2.38	0.14	12	129.81	7.39	47	54.94	3.13	62	187.13	10.66	62	846.69	48.22
Shale Plain Coniferous Forest Complex	146	353.44	0.21	0.40				41	144.44	40.87	15	16.38	4.63	53	157.75	44.63	54	160.13	45.31
Shale Plain Mixed Forest Complex	803	3,994.06	2.33	4.48	1	1.25	0.03	188	1,230.38	30.81	86	166.69	4.17	230	1,350.75	33.82	233	1,837.13	46.00
Shale Plain Deciduous Forest Complex	1,358	6,324.00	3.68	7.09	17	8.44	0.13	127	418.13	6.61	53	123.31	1.95	176	493.75	7.81	169	1,123.88	17.77
Till Moraine Coniferous Forest Complex	141	292.19	0.17	0.33	6	11.38	3.89	25	60.75	20.79	14	35.44	12.13	41	95.44	32.66	41	108.00	36.96
Till Moraine Mixed Forest Complex	287	473.81	0.28	0.53	8	3.50	0.74	62	67.38	14.22	20	22.31	4.71	79	85.25	17.99	81	87.50	18.47
Till Moraine Deciduous Forest Complex	431	3,699.69	2.16	4.15	36	285.06	7.71	48	766.75	20.72	28	162.44	4.39	84	998.56	26.99	83	1,585.50	42.85
Till Plain Coniferous Forest Complex	88	177.31	0.10	0.20							15	10.94	6.17	15	10.94	6.17	19	36.06	20.34
Till Plain Mixed Forest Complex	246	594.00	0.35	0.67				6	8.75	1.47	22	28.94	4.87	29	37.75	6.36	38	136.56	22.99
Till Plain Deciduous Forest Complex	353	1,449.25	0.84	1.63				10	78.06	5.39	18	117.69	8.12	30	197.31	13.61	34	735.56	50.75
Wetlands																			
Bog Complex	3	8.63	0.01	0.01				1	6.31	73.19	3	6.94	80.43	3	8.63	100.00	3	8.63	100.00
Fen Complex	80	738.13	0.43	0.83				51	497.75	67.43	21	37.00	5.01	61	513.13	69.52	62	518.13	70.19
Marsh Complex	900	2,227.44	1.30	2.50	1	1.56	0.07	146	245.81	11.04	273	269.44	12.10	537	1,632.69	73.30	530	1,663.13	74.67
Swamp Complex	1,365	9,318.63	5.43	10.45	2	1.94	0.02	241	1,564.13	16.78	214	1,494.56	16.04	576	6,442.94	69.14	574	6,588.44	70.70
Non-Target Natural Ecological Systems																			
Coniferous Forest Complex	6	8.88	0.01	0.01				5	8.75	98.59				5	8.75	98.59	5	8.75	98.59
Mixed Forest Complex	7	32.56	0.02	0.04				4	32.38	99.42				4	32.38	99.42	4	32.38	99.42

Ecological System	# of Patches in 6E-4	Total Area (ha) in 6E-4	% of Total Area in 6E-4	% of Natural Cover in 6E-4	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Non-Target Natural Ecological Systems continued																			
Deciduous Forest Complex	3	17.19	0.01	0.02															
Other Landcover																			
Bedrock Outcrop	87	234.13	0.14	0.26				8	13.13	5.61	1	8.81	3.76	8	13.13	5.61	12	75.50	32.25
Pasture and Abandoned Fields	5,739	31,184.25	18.16		107	147.94	0.47	703	1,341.63	4.30	214	367.31	1.18	945	1,852.69	5.94	945	1,852.69	5.94
Water	436	1,797.59	1.05	2.02	30	24.00	1.02	334	578.88	24.60	90	63.50	2.70	424	638.69	27.14	424	638.69	27.14
Anthropogenic Land Types																			
Settlement and Developed Land	6	1,696.19	0.99								6	0.94	0.06	6	0.94	0.06	6	0.94	0.06
Cropland	3,255	48,058.75	27.99		80	336.25	0.70	460	511.31	1.06	241	338.94	0.71	733	1,221.69	2.54	733	1,221.69	2.54
NRVIS Pit or Quarry	75	1,331.75	0.78					12	10.00	0.75	1	0.38	0.03	13	10.38	0.78	13	10.38	0.78

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Mount Forest

Ecodistrict 6E-5

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 867,659 hectares (2,144,032 acres)

Land Ownership: 99.9% private, 0.1% public

Planning Authority: 38% Grey County, 24% Bruce County, 13% Huron County, 13% Wellington County, 6% Dufferin County, 6% Perth County

Physiography:

The northern and eastern boundaries of this ecodistrict follow the transition between the drumlinized limestone plain of 6E-5 and the shallow-soiled limestone plain and till moraines near the Niagara Escarpment (6E-4). The northwestern boundary includes the drumlinized till plain of the Arran Drumlin Field and excludes the adjacent sand plains of the Huron Fringe (6E-2). The southern boundary follows the limit of the Dundalk Till Plain. The ecodistrict also contains the Teeswater Drumlin Field. At the north end, this ecodistrict was recently expanded to include limestone plain and a minor sand plain of Hills's site district 6E-3.

Remaining Natural Cover:

Approximately 27% of the ecodistrict remains as natural cover, primarily forest. Swamps comprise nearly 27% of this remaining cover, followed by till plain deciduous forest complex (23%) and till moraine deciduous forest complex (13%).

Land Use:

Nearly two-thirds of 6E-5 has been converted to developed agricultural lands (549,870 ha), and an additional 71,447 hectares are pastures and abandoned fields. Lands associated with agriculture represent nearly 72% of the ecodistrict. Over 7,300 hectares are gravel pits and quarries, and there are 2,400 hectares of settlement and other associated developed lands.

Protection and Conservation:

Conservation lands occupy 7.5% of Ecodistrict 6E-5 (65,010 ha). Conservation Authorities have secured nearly one-third of this land (22,402 ha). There are 46,625 hectares that have been designated as provincially



significant wetlands. Over 21,000 hectares have been designated as provincially significant life science ANSIs, of which 15 hectares coincide with provincial parks. Half of all the occurrences of species and vegetation community targets in 6E-5 coincide with conservation lands, primarily provincially significant life science ANSIs.

Species Targets:

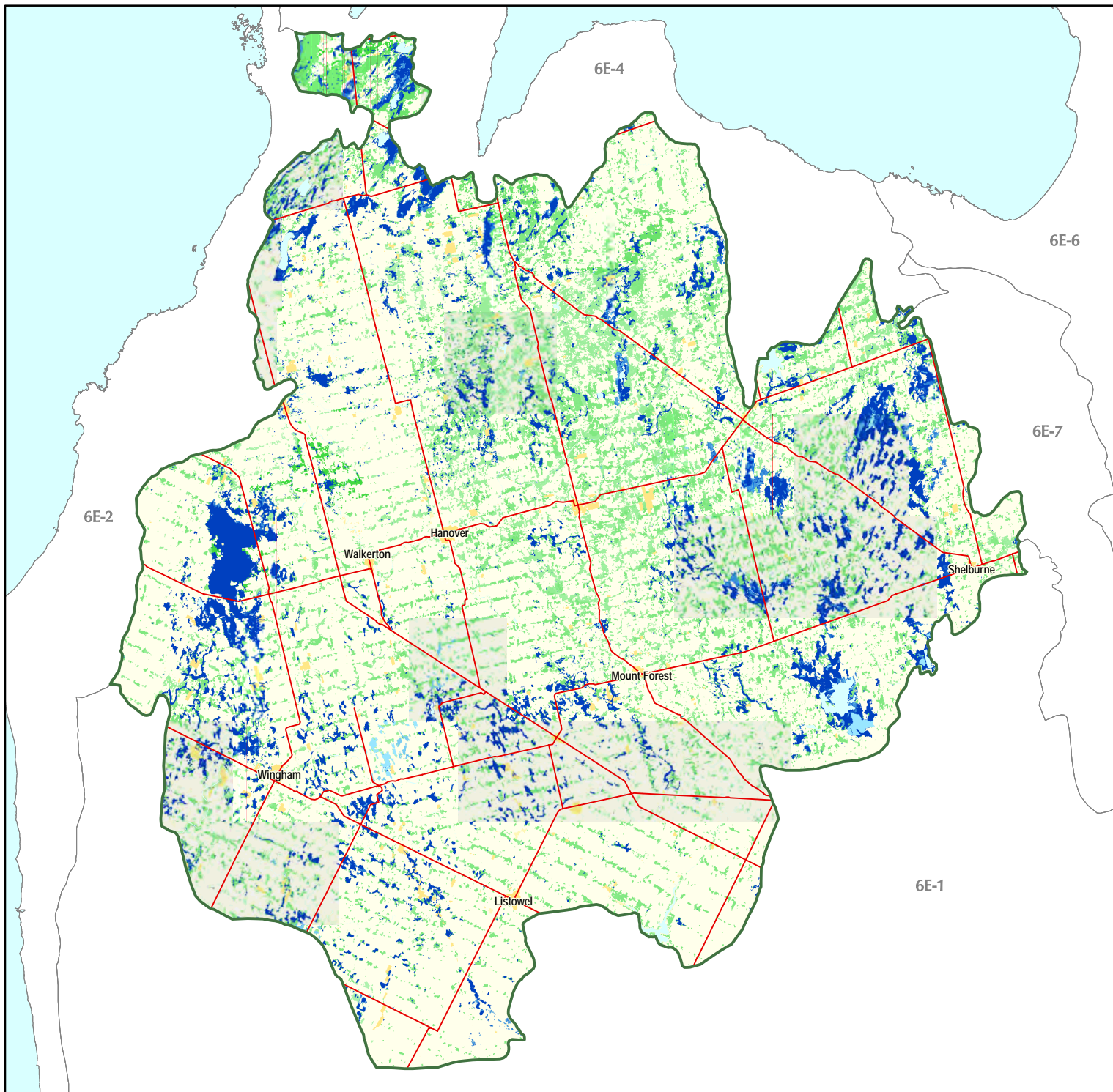
Nearly half of the 18 targeted species occurring in 6E-5 are plants. Fifteen species are designated as species at risk. This includes the Endangered Loggerhead Shrike (*Lanius ludovicianus*) and American Ginseng (*Panax quinquefolius*), as well as American Hart's-tongue Fern (*Asplenium scolopendrium* var. *americanum*) which is a species of Special Concern. There are also a number of disjunct plants in this ecodistrict.

Vegetation Community Targets:

There is one provincially rare vegetation community in 6E-5. Three other vegetation communities are considered to be high-quality representative occurrences that are important to conservation.

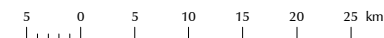
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-5 includes approximately 29% of all remaining natural cover, and 65% of the occurrences of species and vegetation community targets.

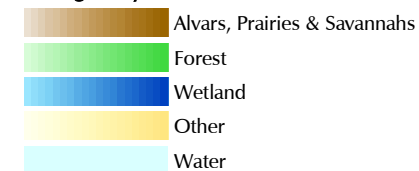


Great Lakes Conservation Blueprint for Biodiversity

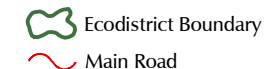
MOUNT FOREST ECODISTRICT 6E-5



Ecological Systems



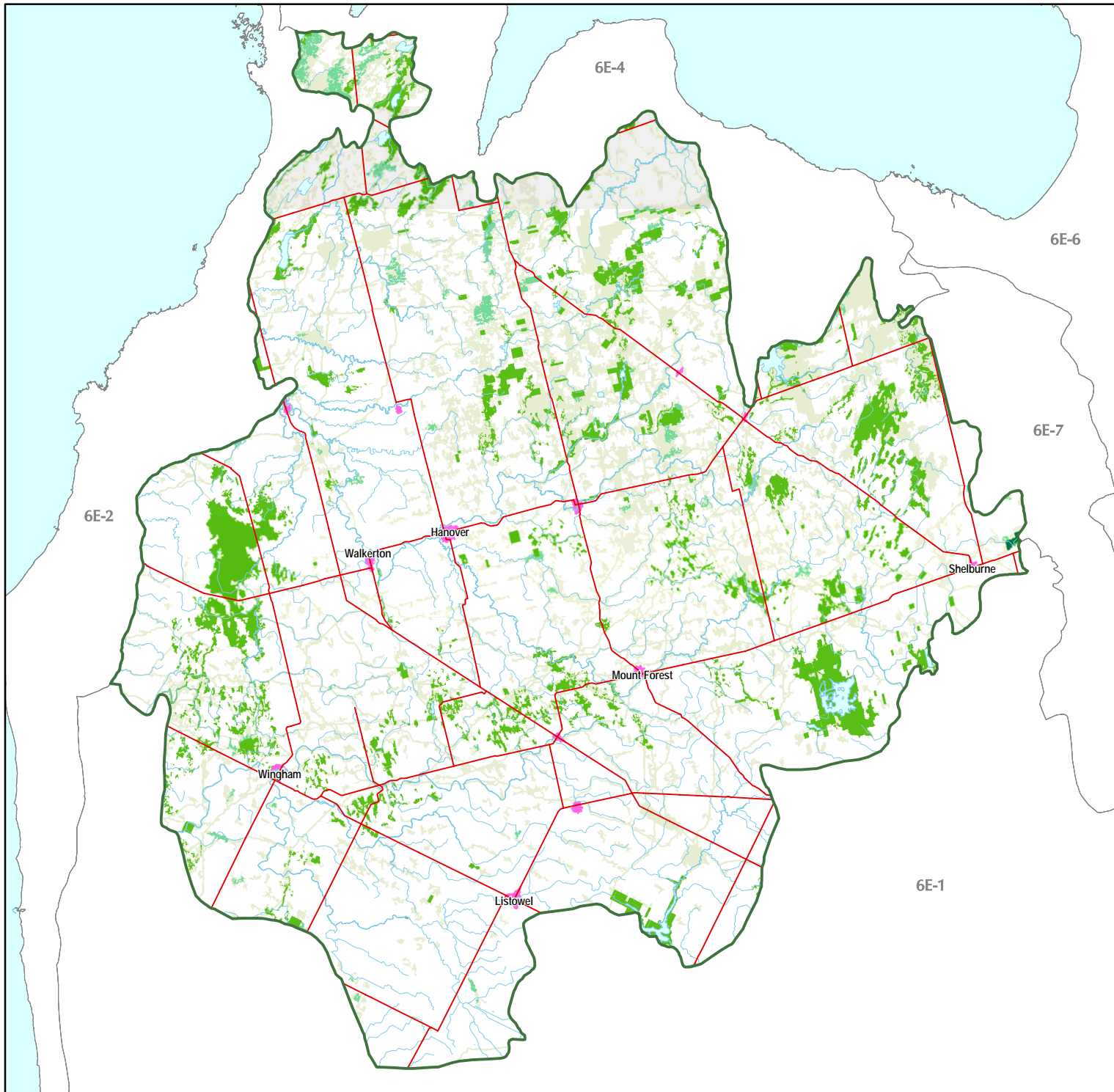
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

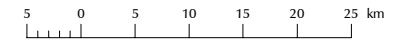
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Projection: Lambert Conformal Conic (North American Datum 1983)



Great Lakes Conservation Blueprint for Biodiversity

MOUNT FOREST ECODISTRICT 6E-5



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-5

Number of pops in 6E-5	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
22	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	0	23	14	36	11	50	4
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	100	1	100	2
1	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	0	0	0	1	100	2
5	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	80	20	80	5	100	3
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	100	100	100	1	100	3
4	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	75	25	75	3	75	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	100	100	100	1	100	all viable
3	<i>Polystichum lonchitis</i>	Northern Holly-fern	G5	S4			disjunct	0	0	67	0	67	3	100	3
1	<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	G4G5	S3			disjunct	0	0	0	100	100	1	100	3
Birds															
3	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	33	0	67	2	67	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	100	100	100	1	100	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
1	<i>Icteria virens</i>	Yellow-breasted Chat	G5	S2S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	50	75	3	75	secondary
7	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	100	1	100	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	100	100	100	1	100	secondary
Reptiles															
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	50	50	50	1	50	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0		0	secondary
1	<i>Thamnophis butleri</i>	Butler's Gartersnake	G4	S2	THR	THR	SAR	0	0	100	100	100	1	100	secondary
Odonata															
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	100	0	100	1	100	2
Communities															
1	Dry Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	0	0	0	1	100	3
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	0	100	100	1	100	secondary
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Tamarack Treed Fen Type		G4?	S5			high quality	0	0	100	100	100	1	100	secondary

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-5

Ecological System	# of Patches in 6E-5	Total Area (ha) in 6E-5	% of Total Area of 6E-5	% of Natural Cover in 6E-5	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	59,151	161,956.25	18.67	68.60	69	123.50	0.08	3,152	5,215.50	3.22	3,284	6,618.81	4.09	5,896	11,219.13	6.93	5,984	17,714.81	10.94
Wetlands	7,863	69,513.75	8.01	29.44	2	16.81	0.02	738	14,548.56	20.93	916	11,363.81	16.35	3,623	47,983.25	69.03	3,608	48,790.63	70.19
All ecological systems	105759	867656.00	100.00	100.00	114	195.56	0.02	5864	21009.00	2.42	6496	22401.75	2.58	13677	65010.63	7.49	13760	72399.38	8.34

Ecological systems details for Ecodistrict 6E-5

Ecological System	# of Patches in 6E-5	Total Area (ha) in 6E-5	% of Total Area of 6E-5	% of Natural Cover in 6E-5	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Coniferous Forest Complex	2	10.63	0.00	0.00													2	10.63	100.00
Beach and Shorecliff Mixed Forest Complex	18	42.88	0.00	0.02													2	2.75	6.41
Beach and Shorecliff Deciduous Forest Complex	27	34.25	0.00	0.01													3	4.00	11.68
Clay Plain Coniferous Forest Complex	24	31.19	0.00	0.01															
Clay Plain Mixed Forest Complex	284	578.50	0.07	0.25							3	4.75	0.82	3	4.75	0.82	8	92.81	16.04
Clay Plain Deciduous Forest Complex	1,265	5,340.63	0.62	2.26				1	5.31	0.10	21	77.56	1.45	27	83.19	1.56	39	545.13	10.21
Coniferous Forest Complex on Peat and Muck	528	831.56	0.10	0.35	5	4.38	0.53	138	87.44	10.51	155	305.38	36.72	232	351.94	42.32	237	368.25	44.28
Mixed Forest Complex on Peat and Muck	1,445	2,127.25	0.25	0.90	6	3.13	0.15	306	277.13	13.03	304	435.75	20.48	506	596.56	28.04	504	788.63	37.07
Deciduous Forest Complex on Peat and Muck	2,344	3,519.44	0.41	1.49	4	0.81	0.02	464	365.25	10.38	420	415.44	11.80	731	646.44	18.37	730	798.19	22.68
Kame Moraine Coniferous Forest Complex	1,087	2,525.25	0.29	1.07	2	3.81	0.15	60	114.50	4.53	48	166.69	6.60	110	286.13	11.33	113	399.00	15.80
Kame Moraine Mixed Forest Complex	1,952	3,488.38	0.40	1.48				106	136.50	3.91	46	71.50	2.05	148	207.38	5.94	151	337.69	9.68
Kame Moraine Deciduous Forest Complex	3,789	11,483.06	1.32	4.86	8	11.25	0.10	100	557.44	4.85	59	301.38	2.62	167	845.50	7.36	167	1,418.25	12.35
Limestone Plain Coniferous Forest Complex	180	1,606.13	0.19	0.68				33	77.69	4.84	32	108.06	6.73	53	154.25	9.60	52	1,211.94	75.46
Limestone Plain Mixed Forest Complex	565	2,430.94	0.28	1.03				80	115.13	4.74	94	129.31	5.32	156	235.06	9.67	159	993.75	40.88
Limestone Plain Deciduous Forest Complex	570	3,531.88	0.41	1.50				45	480.69	13.61	106	239.50	6.78	137	709.06	20.08	140	942.69	26.69
Niagara Escarpment Coniferous Forest Complex	4	2.88	0.00	0.00				2	0.13	4.35				2	0.13	4.35	2	0.13	4.35
Niagara Escarpment Mixed Forest Complex	11	8.00	0.00	0.00				1	1.13	14.06				1	1.13	14.06	1	1.13	14.06
Niagara Escarpment Deciduous Forest Complex	15	21.69	0.00	0.01															
Sand Plain Coniferous Forest Complex	51	109.75	0.01	0.05				1	0.31	0.28	3	5.06	4.61	4	5.38	4.90	7	31.13	28.36
Sand Plain Mixed Forest Complex	316	643.75	0.07	0.27				29	9.94	1.54	14	19.44	3.02	40	29.13	4.52	42	191.13	29.69
Sand Plain Deciduous Forest Complex	520	1,986.56	0.23	0.84				87	59.69	3.00	36	52.88	2.66	110	109.75	5.52	108	261.81	13.18
Shale Plain Coniferous Forest Complex	1	0.63	0.00	0.00															
Shale Plain Mixed Forest Complex	10	4.00	0.00	0.00															
Shale Plain Deciduous Forest Complex	15	13.75	0.00	0.01															
Till Moraine Coniferous Forest Complex	2,910	7,418.81	0.86	3.14	17	50.13	0.68	187	331.00	4.46	158	728.19	9.82	319	1,055.63	14.23	336	1,270.94	17.13
Till Moraine Mixed Forest Complex	5,169	10,188.69	1.17	4.32	12	16.06	0.16	279	276.06	2.71	257	373.06	3.66	492	606.19	5.95	500	764.25	7.50
Till Moraine Deciduous Forest Complex	9,935	29,977.63	3.46	12.70	15	33.94	0.11	283	910.38	3.04	298	619.69	2.07	578	1,430.75	4.77	594	2,309.13	7.70
Till Plain Coniferous Forest Complex	2,517	5,577.56	0.64	2.36				124	146.38	2.62	255	781.63	14.01	376	932.06	16.71	371	1,141.00	20.46
Till Plain Mixed Forest Complex	6,856	13,605.88	1.57	5.76				329	344.38	2.53	388	445.94	3.28	680	776.81	5.71	686	923.13	6.78
Till Plain Deciduous Forest Complex	16,741	54,814.75	6.32	23.22				497	919.06	1.68	587	1,337.63	2.44	1,024	2,151.94	3.93	1,030	2,907.38	5.30
Wetlands																			
Bog Complex	98	1,477.38	0.17	0.63				17	668.63	45.26	19	700.44	47.41	95	1,452.50	98.32	95	1,452.56	98.32
Fen Complex	249	894.38	0.10	0.38				60	114.38	12.79	36	99.13	11.08	154	477.56	53.40	153	529.88	59.25
Marsh Complex	1,595	4,277.50	0.49	1.81				211	1,346.13	31.47	221	1,602.63	37.47	1,195	3,450.00	80.65	1,195	3,452.31	80.71
Swamp Complex	5,921	62,864.50	7.25	26.63	2	16.81	0.03	450	12,419.44	19.76	640	8,961.63	14.26	2,179	42,603.19	67.77	2,165	43,355.88	68.97
Non-Target Natural Ecological Systems																			
Coniferous Plantation Forest	85	369.63	0.04					4	1.56	0.42	14	100.69	27.24	15	101.94	27.58	16	130.19	35.22

Ecological System	# of Patches in 6E-5	Total Area (ha) in 6E-5	% of Total Area of 6E-5	% of Natural Cover in 6E-5	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Other Landcover																			
Bedrock Outcrop	54	161.19	0.02	0.07				1	0.06	0.04				1	0.06	0.04	5	57.19	35.48
Pasture and Abandoned Fields	27,360	71,447.25	8.23		10	17.88	0.03	469	422.50	0.59	746	941.13	1.32	1,183	1,407.13	1.97	1,184	1,407.19	1.97
Other Landcover continued																			
Unclassified (cloud & shadow)	19	54.50	0.01																
Water	1,396	4,450.83	0.51	1.89				130	201.69	4.46	223	864.69	19.14	318	1,018.06	22.53	318	1,018.06	22.53
Unknown Landcover	4	17.06	0.00																
Anthropogenic Land Types																			
Settlement and Developed Land	14	2,400.50	0.28								2	1.63	0.07	2	1.63	0.07	2	1.63	0.07
Cropland	8,656	549,870.38	63.37		33	37.38	0.01	1,309	524.69	0.10	1,306	2,506.88	0.46	2,572	3,180.81	0.58	2,575	3,181.00	0.58
NRVIS Pit or Quarry	1,157	7,347.31	0.85					61	94.44	1.29	5	4.13	0.06	67	98.63	1.34	68	98.69	1.34

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Barrie

Ecodistrict 6E-6

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 560,878 hectares (1,385,960 acres)

Land Ownership: 97% private, 1.5% public, 1.4% First Nations lands

Planning Authority: 75% Simcoe County, 20% York Region, 5% Durham Region

Physiography:

The northern portion of this ecodistrict includes the clay plain and limestone plain south to the shallow till and bare rock ridges of the Canadian Shield in 5E-7. The western and southwestern boundaries include the sand plains and bevelled till plains of the Simcoe Lowlands and Simcoe Uplands to where they meet till moraines, spillways and lower slopes of the Niagara Escarpment in 6E-7. The eastern portion of 6E-6 follows the transition between the clay plains and sand plains of the Simcoe Lowlands and the Carden Limestone Plain in 6E-9, as well as till plains in 6E-8. The southern and southeastern portions of the ecodistrict include all of the Simcoe Lowlands, the Schomberg Clay Plains and two outliers of the Peterborough Drumlin Field.

Remaining Natural Cover:

Nearly 47% of the ecodistrict remains as natural cover, half as forest. Sand plain forest complex makes up 28% of the remaining natural cover, followed by till plain forest complex (12%). These complexes are primarily deciduous forests. Nearly 18% of the remaining natural cover is wetland, the majority of which are swamps. There are 537 hectares of alvars mapping in 6E-9 in the broad sense, of which none are considered to be true alvars. There are also 30 hectares of prairie-savannah remnants in 6E-6.

Land Use:

Over 40% of 6E-6 has been converted to developed agricultural lands (233,486 ha), and an additional 46,530 hectares are pastures and abandoned fields. Lands associated with agriculture represent half of the ecodistrict. Over 6,000 hectares are gravel pits and quarries, and nearly 10,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands occupy approximately 8% of Ecodistrict 6E-6 (46,182 ha). Nearly 36,800 hectares have been identified as provincially significant wetlands, including Minesing Swamp and Holland Marsh. Over 15,000 hectares are provincially significant life science ANSIs, of which 940 hectares coincide with provincial parks. More than half of the occurrences of species and vegetation community targets are within conservation lands, primarily provincially significant life science ANSIs and provincially significant wetlands.

Species Targets:

Over half of the 36 targeted species occurring in 6E-6 are plants, several of which occur in the Great Lakes as disjuncts. Twenty are species at risk, including the Endangered American Ginseng (*Panax quinquefolius*), and the Threatened Massasauga (*Sistrurus catenatus*).

Vegetation Community Targets:

Four of the 17 significant vegetation communities identified within 6E-6 are globally rare, seven are provincially rare, and another 10 are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

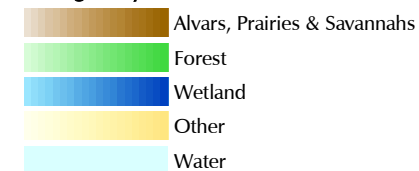
The Conservation Blueprint portfolio in Ecodistrict 6E-6 includes approximately 30% of all remaining natural cover, and 83% of the occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

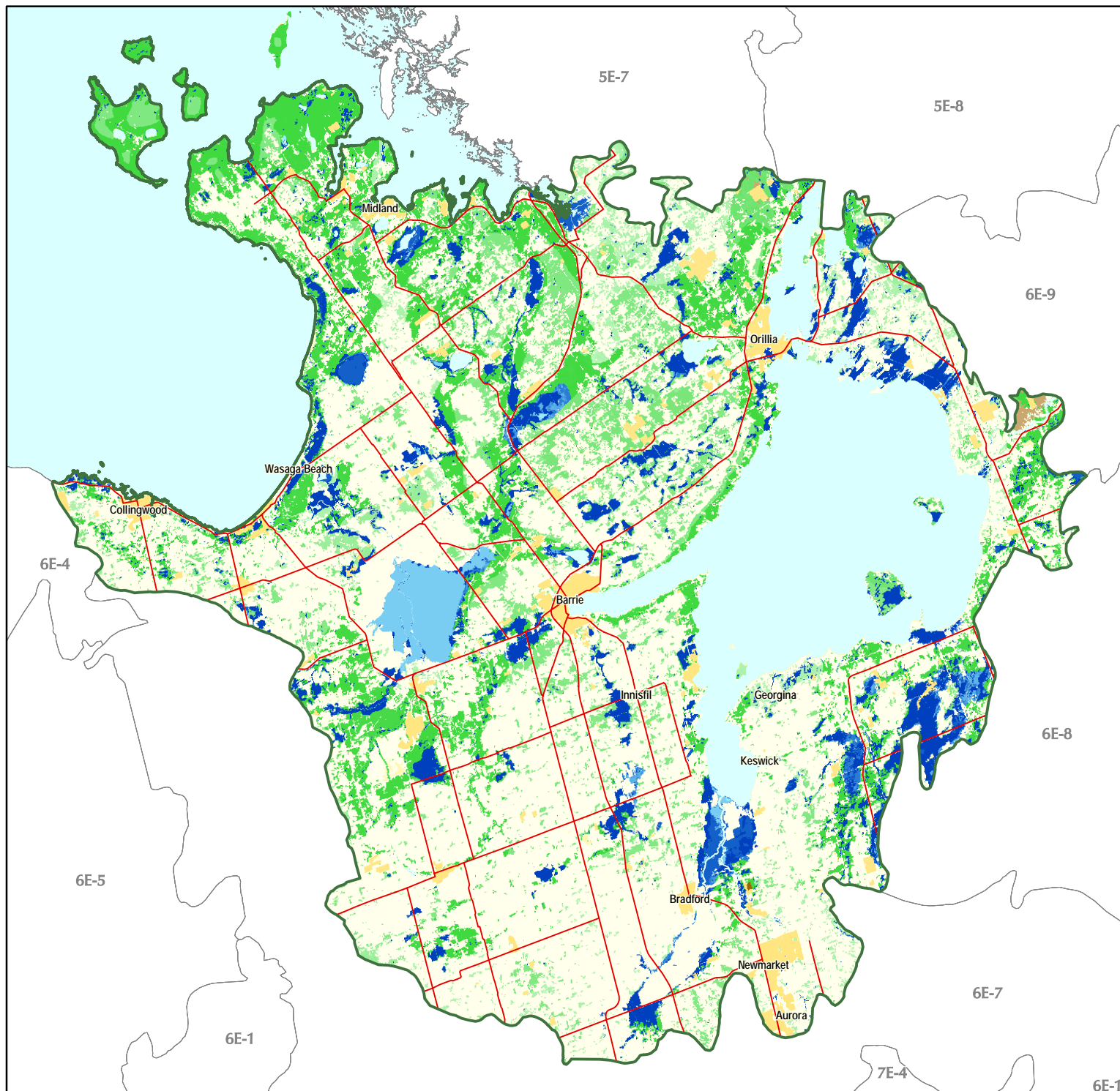
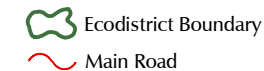
BARRIE ECODISTRICT 6E-6



Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BARRIE ECODISTRICT 6E-6



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

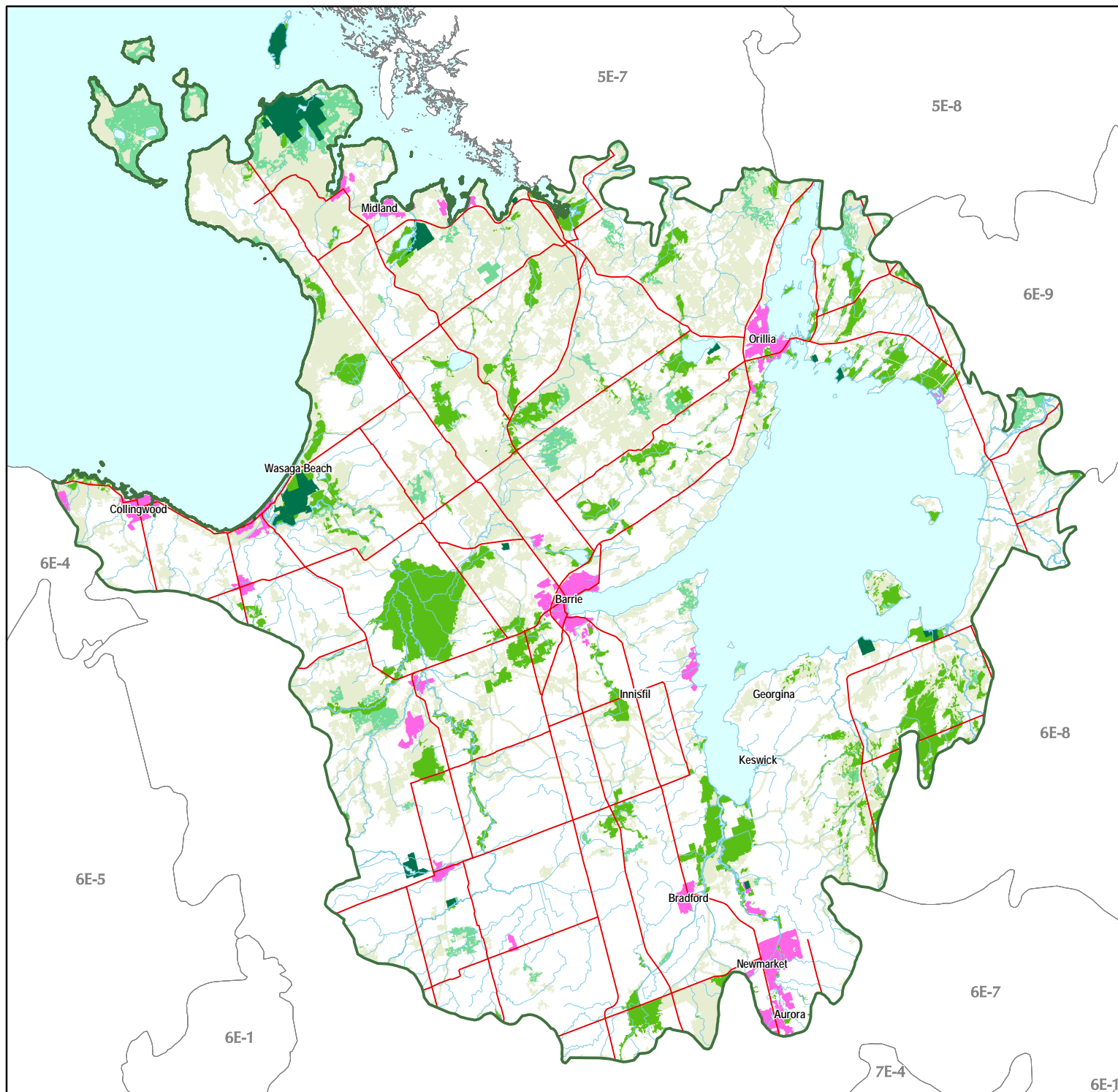
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-6

Number of pops in 6E-6	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
6	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	17	17	0	17	4	67	3
5	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	40	40	0	40	5	100	3
5	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	40	60	0	60	5	100	3
3	<i>Aristida basiramea</i>	Forked Three-awned Grass	G5	S1	END	END	SAR	0	0	33	0	33	2	67	secondary
1	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	33	33	0	33	3	100	3
3	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	2	67	2
1	<i>Chimaphila maculata</i>	Spotted Wintergreen	G5	S1	END	END-R	SAR	0	100	100	0	100	1	100	secondary
1	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	0	100	100	0	100	1	100	4
7	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	43	29	0	57	6	86	4
3	<i>Elymus lanceolatus</i> ssp. <i>psammophilus</i>	Great Lakes Wheatgrass	G5T3	S3			GRank endemic	0	0	0	0	0	3	100	4
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	0	0	0	1	100	3
8	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	50	38	0	50	6	75	3
1	<i>Leymus mollis</i>	Sea Lyme-grass	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Linum medium</i> var. <i>medium</i>	Stiff Yellow Flax	G4T3T4	S3			GRank endemic	0	0	0	0	0	1	100	4
3	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	33	33	0	67	3	100	3
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
7	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	29	0	43	3	43	2
2	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	100	0	100	2	100	all viable
2	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	50	50	0	50	2	100	2
2	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	0	0	0	0	2	100	3
Birds															
5	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	20	0	40	60	3	60	secondary
7	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	29	14	100	7	100	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
4	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	50	25	0	100	4	100	secondary
7	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	29	0	86	7	100	secondary
3	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
3	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	33	0	67	3	100	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	100	0	0	100	1	100	secondary
Reptiles															
4	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	25	0	25	0	75	3	75	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	100	100	100	1	100	secondary
2	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	0	0	0	0	0	2	100	4
5	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	40	40	0	60	3	60	secondary
4	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	25	25	0	50	2	50	secondary
3	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	0	0	0	0	3	100	4
Communities															
2	Dry - Fresh Sugar Maple - Ironwood Deciduous Forest Type		G?	S5			high quality	0	50	0	0	50	2	100	secondary
1	Dry - Fresh White Pine - Sugar Maple Mixed Forest Type		G?	S5			high quality	0	100	100	0	100	1	100	secondary
1	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	100	100	0	100	1	100	3

Number of pops in 6E-6	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
5	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	20	20	5	100	all viable
1	Fresh Sugar Maple - Red Maple Deciduous Forest Type		G?	S5			high quality	0	100	100	0	100	1	100	secondary
2	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	50	100	0	100	2	100	all viable
1	Juniper Dune Shrubland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
1	Leatherleaf Shrub Bog Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
7	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type		G?	S2			SRank	0	0	0	0	0	4	57	3
6	Sand Cherry Dune Shrubland Type		G2Q	S2			GRank	0	17	17	0	17	6	100	all viable
1	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	0	100	100	0	100	1	100	all viable
1	Silver / Red Maple Deciduous Organic Swamp Type		G4?	S5			high quality	0	0	100	100	100	1	100	secondary
2	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	100	50	100	2	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
2	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	0	100	0	100	2	100	secondary
1	Tamarack Treed Fen Type		G4?	S5			high quality	0	0	100	0	100	1	100	secondary
1	White Cedar Conifer Swamp		G5	S5			high quality	0	0	100	0	100	1	100	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-6

Ecological System	# of Patches in 6E-6	Total Area (ha) in 6E-6	% of Total Area of 6E-6	% Natural Cover in 6E-6	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservat-ion Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	36,883	134,201.00	23.93	51.46	52	112.50	0.08	450	3,632.69	2.71	1,218	4,399.19	3.28	182	229.56	0.17	1,779	6,783.81	5.05	1,905	17,535.94	13.07
Alvars	32	537.25	0.10	0.21																6	484.00	90.09
Prairies and savannahs	2	29.94	0.01	0.01				2	24.44	81.63	2	29.81	99.58				2	29.88	99.79	2	29.94	100.00
Wetlands	4,589	46,090.44	8.22	17.67	36	265.81	0.58	96	372.25	0.81	557	9,597.13	20.82	231	3,968.06	8.61	2,413	35,346.50	76.69	2,411	35,486.06	76.99
All ecological systems	67511	562247.91	100.00	100.00	128	437.50	0.08	1064	6064.81	1.08	2974	15083.38	2.68	692	4656.06	0.83	6210	46182.00	8.21	6307	58337.50	10.38

Ecological systems details for Ecodistrict 6E-6

Ecological System	# of Patches in 6E-6	Total Area (ha) in 6E-6	% of Total Area of 6E-6	% Natural Cover in 6E-6	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservat-ion Lands	Total Area (ha) of all Conservat-ion Lands	% of System in all Conservat-ion Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Clay Plain Coniferous Forest Complex	681	1,513.25	0.27	0.58				6	2.38	0.16	5	13.31	0.88	8	17.38	1.15	18	33.00	2.18	21	93.63	6.19
Clay Plain Mixed Forest Complex	1,227	2,777.50	0.50	1.06				7	11.56	0.42	20	21.88	0.79	8	30.19	1.09	37	63.06	2.27	41	186.94	6.73
Clay Plain Deciduous Forest Complex	3,292	9,509.13	1.70	3.65				20	45.06	0.47	50	35.50	0.37	30	31.69	0.33	102	129.56	1.36	118	563.56	5.93
Coniferous Forest Complex on Peat and Muck	431	926.81	0.17	0.36							8	6.06	0.65	1	0.50	0.05	9	6.56	0.71	12	146.56	15.81
Mixed Forest Complex on Peat and Muck	642	878.69	0.16	0.34							23	14.81	1.69	11	0.88	0.10	33	15.63	1.78	36	64.13	7.30
Deciduous Forest Complex on Peat and Muck	1,115	2,246.25	0.40	0.86				1	0.38	0.02	82	83.63	3.72	21	6.00	0.27	98	89.88	4.00	102	370.38	16.49
Kame Moraine Coniferous Forest Complex	241	514.88	0.09	0.20							6	1.63	0.32				7	1.69	0.33	13	33.38	6.48
Kame Moraine Mixed Forest Complex	433	708.44	0.13	0.27							3	1.19	0.17				4	1.25	0.18	9	11.69	1.65
Kame Moraine Deciduous Forest Complex	521	4,312.63	0.77	1.65							2	182.75	4.24				4	182.88	4.24	8	1,059.44	24.57
Limestone Plain Coniferous Forest Complex	165	664.19	0.12	0.25																4	144.56	21.77
Limestone Plain Mixed Forest Complex	277	911.00	0.16	0.35													2	0.13	0.01	5	182.13	19.99
Limestone Plain Deciduous Forest Complex	384	1,578.31	0.28	0.61																4	231.38	14.66
Niagara Escarpment Mixed Forest Complex	1	0.19	0.00	0.00																		
Niagara Escarpment Deciduous Forest Complex	2	3.50	0.00	0.00																		
Sand Plain Coniferous Forest Complex	3,498	13,802.38	2.46	5.29	10	7.75	0.06	117	700.63	5.08	195	748.50	5.42	12	21.88	0.16	281	980.25	7.10	288	2,125.00	15.40
Sand Plain Mixed Forest Complex	5,779	16,716.63	2.98	6.41	15	18.25	0.11	136	662.69	3.96	296	1,010.31	6.04	24	39.25	0.23	410	1,274.19	7.62	420	1,749.94	10.47
Sand Plain Deciduous Forest Complex	7,555	41,907.44	7.47	16.07	27	86.50	0.21	126	2,056.31	4.91	352	1,595.69	3.81	39	55.13	0.13	499	3,108.00	7.42	499	8,134.00	19.41
Till Moraine Coniferous Forest Complex	166	318.25	0.06	0.12							2	2.25	0.71	1	0.06	0.02	3	2.31	0.73	7	42.69	13.41
Till Moraine Mixed Forest Complex	258	744.06	0.13	0.29							1	11.44	1.54				2	11.50	1.55	6	80.13	10.77
Till Moraine Deciduous Forest Complex	515	1,930.06	0.34	0.74							2	10.94	0.57	1	0.56	0.03	3	11.50	0.60	8	280.69	14.54
Till Plain Coniferous Forest Complex	1,615	3,814.25	0.68	1.46				9	19.88	0.52	37	41.38	1.08	7	3.06	0.08	58	69.69	1.83	63	254.81	6.68
Till Plain Mixed Forest Complex	2,812	6,387.44	1.14	2.45				11	5.94	0.09	56	187.31	2.93	9	6.06	0.09	87	214.13	3.35	88	263.63	4.13
Till Plain Deciduous Forest Complex	5,273	22,035.75	3.93	8.45				17	127.88	0.58	78	430.63	1.95	10	16.94	0.08	122	588.63	2.67	153	1,517.31	6.89
Alvar	32	537.25	0.10	0.21																6	484.00	90.09
Prairies and Savannahs	2	29.94	0.01	0.01				2	24.44	81.63	2	29.81	99.58				2	29.88	99.79	2	29.94	100.00
Wetlands																						
Bog Complex	66	263.63	0.05	0.10	3	2.00	0.76	1	0.69	0.26	29	140.50	53.30	2	0.13	0.05	59	207.94	78.88	59	207.94	78.88
Fen Complex	148	7,154.81	1.28	2.74	11	6.63	0.09	1	1.06	0.01	34	5,881.75	82.21	22	3,398.44	47.50	113	7,045.50	98.47	114	7,046.50	98.49
Marsh Complex	1,010	5,496.81	0.98	2.11	13	124.19	2.26	18	56.00	1.02	161	1,483.75	26.99	35	83.94	1.53	764	4,646.69	84.53	763	4,717.69	85.83
Swamp Complex	3,365	33,175.19	5.91	12.72	9	133.00	0.40	76	314.50	0.95	333	2,091.13	6.30	172	485.56	1.46	1,477	23,446.38	70.67	1,475	23,513.94	70.88

Ecological System	# of Patches in 6E-6	Total Area (ha) in 6E-6	% of Total Area of 6E-6	% Natural Cover in 6E-6	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Non-Target Natural Ecological Systems																						
Coniferous Plantation Forest	391	5,063.19	0.90		1	1.75	0.03				22	3.81	0.08				23	5.56	0.11	26	570.44	11.27
Mixed Forest Complex	2	16.25	0.00	0.01																		
Deciduous Forest Complex	11	12.75	0.00	0.00				2	0.38	2.94	1	0.06	0.49				2	0.38	2.94	2	0.38	2.94
Other Landcover																						
Bedrock Outcrop	181	964.69	0.17	0.37				106	112.25	11.64	17	31.00	3.21	2	0.31	0.03	107	117.31	12.16	69	332.06	34.42
Pasture and Abandoned Fields	16,236	46,529.50	8.30		10	24.25	0.05	77	147.38	0.32	277	105.88	0.23	77	63.31	0.14	471	376.38	0.81	472	376.44	0.81
Water	1,181	78,953.25	14.08	30.27	2	2.25	0.00	37	1,271.00	1.61	65	377.50	0.48	17	36.00	0.05	171	2,041.44	2.58	171	2,041.44	2.58
Anthropogenic Land Types																						
Settlement and Developed Land	45	9,972.00	1.78					32	28.63	0.29	8	1.94	0.02	23	27.19	0.27	51	56.00	0.56	51	56.00	0.56
Cropland	7,404	233,486.06	41.63		26	23.56	0.01	261	475.50	0.20	803	524.38	0.22	158	325.00	0.14	1,184	1,398.06	0.60	1,185	1,398.13	0.60
NRVIS Pit or Quarry	554	6,315.88	1.13		1	7.38	0.12	1	0.31	0.00	4	12.69	0.20	2	6.63	0.10	7	26.69	0.42	7	26.69	0.42

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Uxbridge

Ecodistrict 6E-7

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 442,544 hectares (1,093,551 acres)

Land Ownership: 98% private, 2% public

Planning Authority: 21% Durham Region, 21% Northumberland County, 15% Peel Region, 15% York Region, 10% Dufferin County, 9% Simcoe County, 5% Halton Region, 3% Kawartha Lakes, 1% Hastings County

Physiography:

The western and northwestern portions of this ecodistrict include the central part of the Niagara Escarpment and the moraines and spillways that overlie it. The eastern portion follows the Oak Ridges Moraine to its eastern limit, and includes kame moraines on the north side and drumlinized till plains on the south slope, as well as sand plains near the eastern boundary.

Remaining Natural Cover:

Approximately 30% of the ecodistrict remains as natural cover, primarily deciduous forest. Kame moraine forest complex makes up one-third of the natural cover, while 23% is till plain forest complex and 16% is till moraine forest complexes. Eleven percent of the remaining natural cover is comprised of wetlands, almost entirely swamp complex. There are also 291 ha of prairie and savannah remaining in 6E-7, approximately 7% of all of the remnants known in Southern Ontario.

Land Use:

Over half of 6E-7 has been converted to developed agricultural lands (226,239 ha), and an additional 59,612 hectares are pastures and abandoned fields. Lands associated with agriculture represent nearly two-thirds of the ecodistrict. Over 10,000 hectares are gravel pits and quarries, and more than 6,500 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands occupy approximately 7% of Ecodistrict 6E-7 (32,430 ha). Conservation Authorities have secured nearly one-third of this land (10,184 ha). Over 17,000 hectares have been identified as provincially significant life science ANSIs, of which 322 hectares coincide with provincial parks. Nearly half of the occurrences of species and vegetation community targets in 6E-7 are within conservation lands, primarily provincially significant life science ANSIs.

Species Targets:

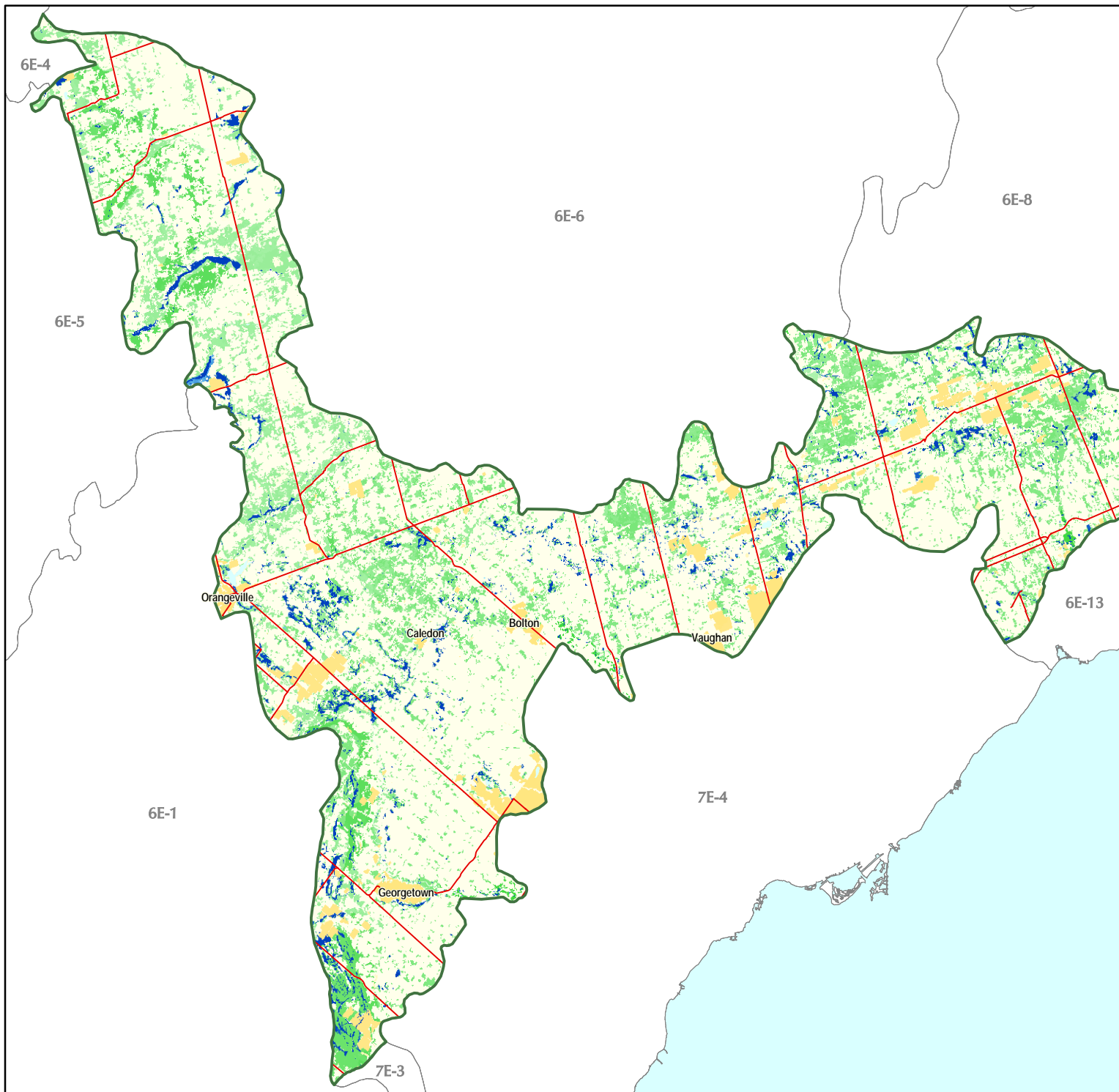
Nearly half of the 18 targeted species occurring in 6E-7 are plants. Eleven are species at risk, including the Endangered Butternut (*Juglans cinerea*) and American Ginseng (*Panax quinquefolius*), as well as the Threatened Jefferson Salamander (*Ambystoma jeffersonianum*).

Vegetation Community Targets:

Seven of the 32 significant vegetation communities identified within 6E-7 are globally rare, 12 are provincially rare, and another 13 are considered to be high-quality representative communities that are important to conservation.

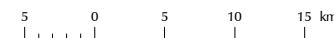
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-7 includes approximately 22% of all remaining natural cover, and nearly 75% of all occurrences of species and vegetation community targets.

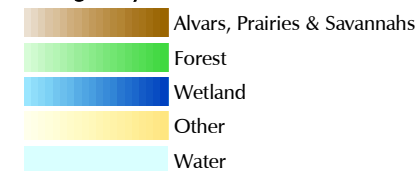


Great Lakes Conservation Blueprint for Biodiversity

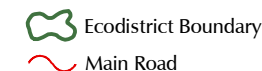
UXBRIDGE ECODISTRICT 6E-7



Ecological Systems



Other Information



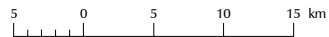
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

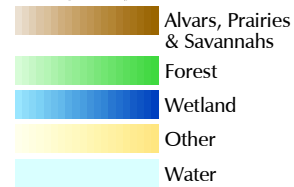
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Great Lakes Conservation Blueprint for Biodiversity

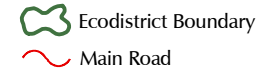
UXBRIDGE ECODISTRICT 6E-7



Ecological Systems



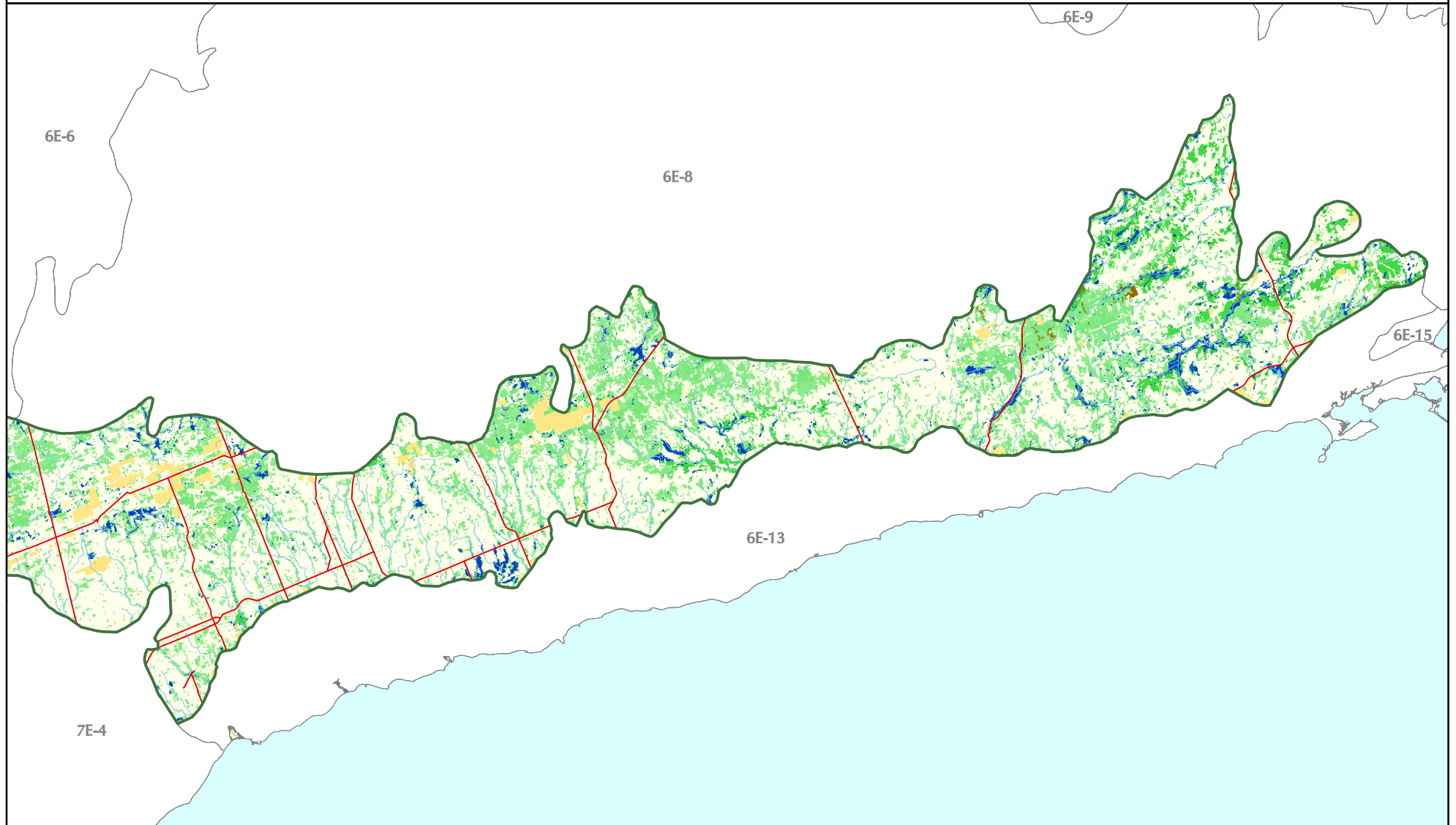
Other Information

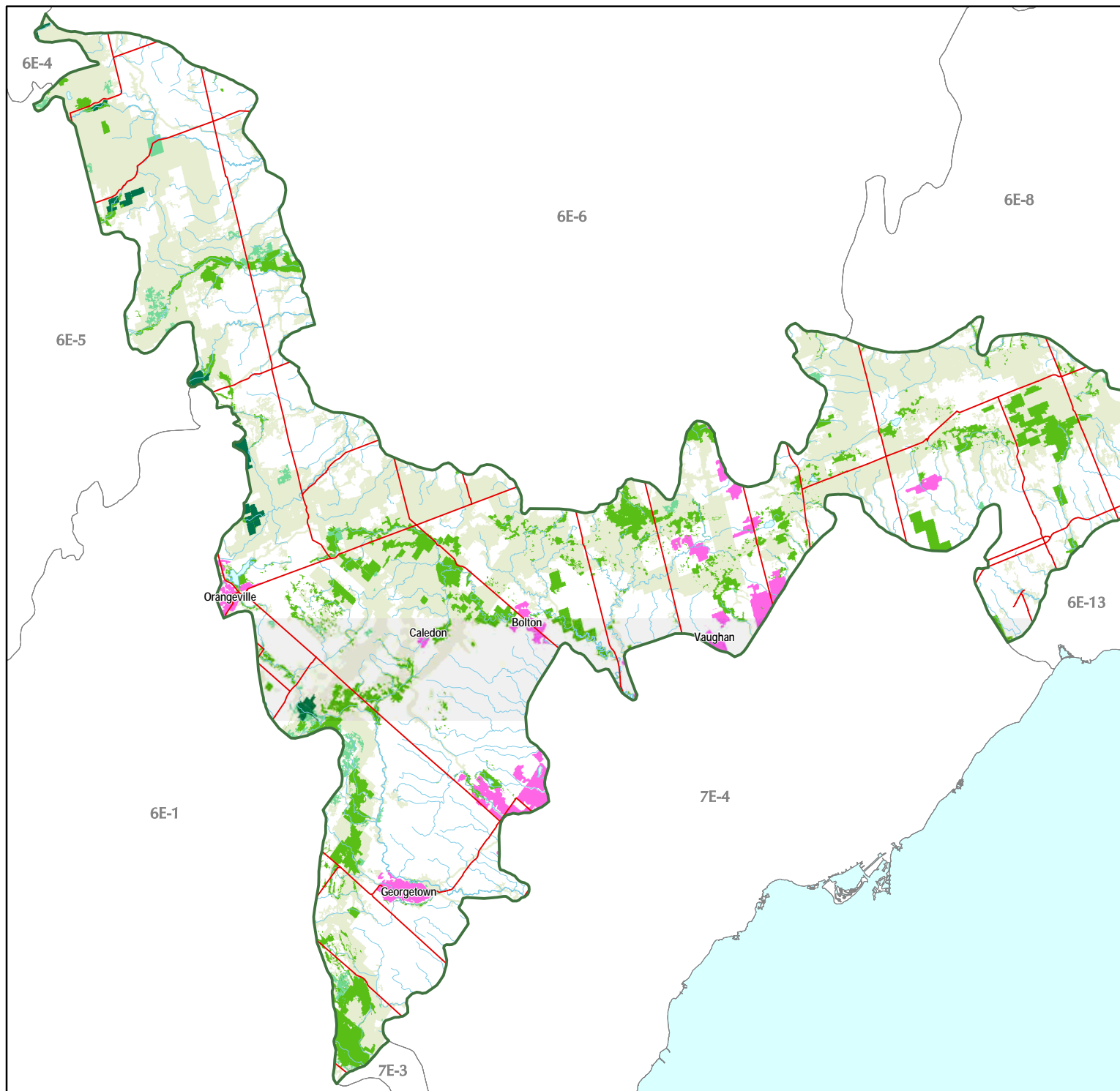


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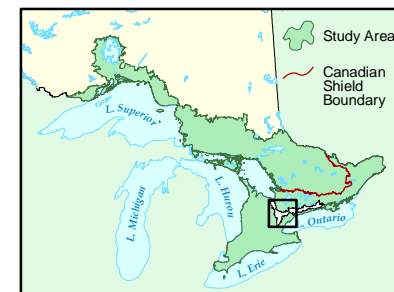
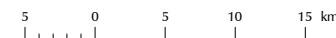
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Great Lakes Conservation Blueprint for Biodiversity

UXBRIDGE ECODISTRICT 6E-7



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



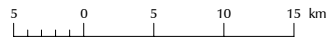
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Great Lakes Conservation Blueprint for Biodiversity

UXBRIDGE ECODISTRICT 6E-7



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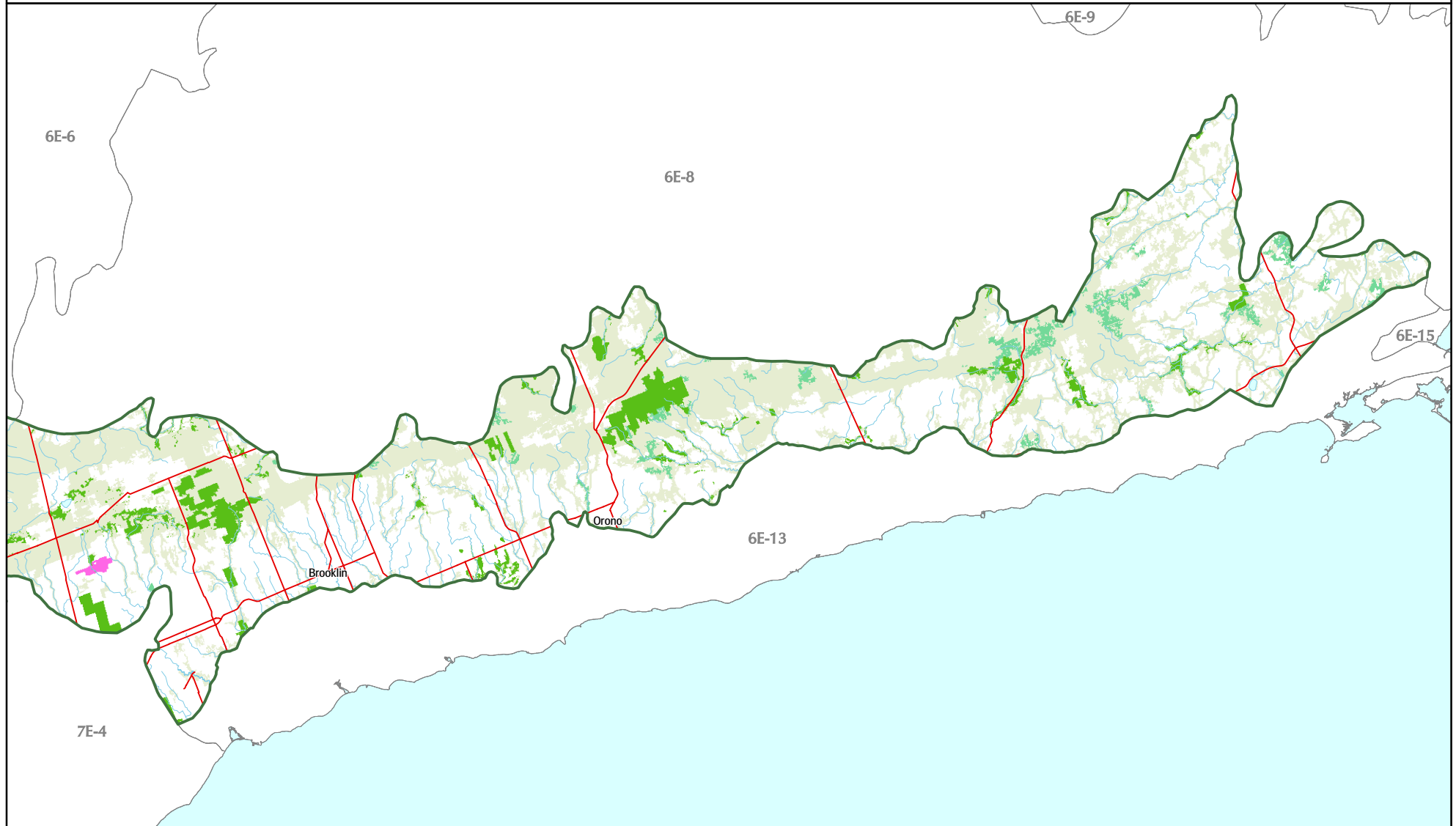
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Documented extant vegetation community and species targets in Ecodistrict 6E-7

Number of pops in 6E-7	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
4	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	25	50	0	50	2	50	4
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	100	100	0	100	1	100	2
6	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	17	67	50	83	6	100	3
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	50	50	100	2	100	2
6	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			Disjunct	0	17	50	0	67	4	67	3
15	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	47	20	53	9	60	2
2	<i>Polystichum lonchitis</i>	Northern Holly-fern	G5	S4			disjunct	0	50	0	0	50	2	100	3
1	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	0	0	0	1	100	4
Birds															
13	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	23	0	23	3	23	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	50	0	100	2	100	secondary
3	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	67	0	67	3	100	secondary
2	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	0	0	50	0	50	1	50	secondary
Amphibians															
6	<i>Ambystoma jeffersonianum</i>	Jefferson Salamander	G4	S2	THR	THR	SAR	0	0	67	17	67	4	67	secondary
Reptiles															
1	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Communities															
1	Basswood - White Ash - Butternut Moist Treed Limestone Talus Type		G3G5	S2			GRank	0	0	100	0	100	1	100	all viable
1	Broad-leaved Sedge Organic Shallow Marsh Type		G4G5Q	S5			high quality	0	0	0	0	0	0	0	secondary
2	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	50	100	2	100	3
1	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	100	100	1	100	3
2	Dry - Fresh Red Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	2	100	secondary
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
3	Dry - Fresh White Oak Deciduous Forest Type		G?	S4			high quality	0	0	0	0	0	1	33	secondary
2	Dry - Fresh White Pine - Oak Mixed Forest Type		G4G5	S5			high quality	0	0	0	0	0	1	50	secondary
1	Dry - Fresh White Pine - Red Maple Mixed Forest Type		G4G5	S5			high quality	0	0	0	0	0	1	100	secondary
4	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	3	75	3
1	Dry Black Oak Deciduous Forest Type		G4?	S3			SRank	0	0	0	0	0	1	100	3
3	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	0	0	33	33	3	100	3
1	Dry Herbaceous Limestone / Dolostone Talus		G?	S2			SRank	0	0	100	100	100	1	100	3
2	Dry Red Pine - White Pine Coniferous Forest Type		G3G4	S4			GRank	0	0	0	50	50	2	100	all viable
12	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	0	0	12	100	all viable
3	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	33	33	0	67	3	100	secondary
1	Fresh Sugar Maple - White Ash Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	1	100	secondary
2	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	0	100	50	100	2	100	secondary
3	Hemlock - Sugar Maple Moist Limestone Talus Type		G?	S2			SRank	0	0	100	33	100	3	100	3
1	Leatherleaf Shrub Kettle Peatland Type		G3G4	S3			GRank	0	0	0	0	0	1	100	all viable

Number of pops in 6E-7	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
2	Moist - Fresh Hemlock - Sugar Maple Mixed Forest Type		G4G5	S4S5			high quality	0	0	0	0	0	1	50	secondary
3	Moist - Fresh Sugar Maple - Black Maple Deciduous Forest Type		G?	S3?			SRank	0	0	67	33	67	3	100	3
2	Mountain Maple Open Limestone Talus Shrubland Type		G?	S3			SRank	0	0	100	50	100	2	100	3
1	Open Limestone / Dolostone Seepage Cliff Type		G?Q	S3			SRank	0	0	100	100	100	1	100	3
1	Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type		G?	S3			SRank	0	0	100	100	100	1	100	3
1	Sugar Maple Moist Treed Limestone Talus Type		G3G5	S3			GRank	0	0	100	100	100	1	100	all viable
1	White Birch Dry Treed Limestone Talus Type		G3G5	S3			GRank	0	0	100	100	100	1	100	all viable
1	White Cedar - Hemlock Coniferous Organic Swamp Type		G?	S3S4			SRank	0	0	0	0	0	1	100	3
1	White Cedar - White Spruce Coniferous Organic Swamp Type		G4	S5			high quality	0	0	0	0	0	0	0	secondary
1	White Cedar Dry Treed Limestone Talus Type		G?	S3			SRank	0	0	100	100	100	1	100	3
2	White Cedar Treed Limestone Cliff Type		G2Q	S3			GRank	0	0	100	50	100	2	100	all viable
1	Willow Organic Thicket Swamp Type		G5	S5			high quality	0	0	0	0	0	0	0	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-7

Ecological System	# of Patches in 6E-7	Total Area (ha) in 6E-7	% of Total Area of 6E-7	% Natural Cover in 6E-7	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	37,746	118,358.94	26.75	87.89	375	801.38	0.68	4,729	12,349.81	10.43	2,283	5,495.50	4.64	6,409	16,125.25	13.62	6,412	21,848.06	18.46
Prairies and savannahs	91	290.56	0.07	0.22							21	21.06	7.25	21	21.06	7.25	30	128.94	44.38
Wetlands	6,201	14,702.56	3.32	10.92	29	89.56	0.61	1,420	2,656.88	18.07	437	829.56	5.64	4,085	8,919.75	60.67	4,076	9,096.50	61.87
All ecological systems	72558	442547.19	100.00	100.00	697	1459.00	0.33	10931	17411.00	3.93	4786	10183.56	2.30	17519	32430.38	7.33	17534	39214.25	8.86

Ecological systems details for Ecodistrict 6E-7

Ecological System	# of Patches in 6E-7	Total Area (ha) in 6E-7	% of Total Area of 6E-7	% Natural Cover in 6E-7	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Coniferous Forest Complex	6	12.25	0.00	0.01													2	1.44	11.73
Beach and Shorecliff Mixed Forest Complex	7	7.00	0.00	0.01													3	6.00	85.71
Beach and Shorecliff Deciduous Forest Complex	5	6.50	0.00	0.00													3	4.69	72.12
Clay Plain Coniferous Forest Complex	76	88.94	0.02	0.07													5	11.56	13.00
Clay Plain Mixed Forest Complex	161	279.63	0.06	0.21							4	1.00	0.36	4	1.00	0.36	8	56.56	20.23
Clay Plain Deciduous Forest Complex	188	451.50	0.10	0.34				1	0.75	0.17	7	7.81	1.73	8	8.56	1.90	14	131.56	29.14
Coniferous Forest Complex on Peat and Muck	21	69.25	0.02	0.05	15	46.75	67.51	21	58.81	84.93				21	62.75	90.61	22	64.00	92.42
Mixed Forest Complex on Peat and Muck	37	46.75	0.01	0.03	30	30.63	65.51	36	39.63	84.76				35	41.44	88.64	35	41.44	88.64
Deciduous Forest Complex on Peat and Muck	19	35.63	0.01	0.03	13	8.38	23.51	14	14.81	41.58				15	17.50	49.12	16	17.75	49.82
Kame Moraine Coniferous Forest Complex	2,942	9,185.19	2.08	6.82	3	2.38	0.03	565	755.69	8.23	238	677.38	7.37	634	1,222.75	13.31	630	1,413.44	15.39
Kame Moraine Mixed Forest Complex	4,224	13,388.81	3.03	9.94	9	5.88	0.04	905	1,999.31	14.93	419	880.81	6.58	1,079	2,420.06	18.08	1,077	3,163.06	23.62
Kame Moraine Deciduous Forest Complex	5,391	22,800.38	5.15	16.93	12	8.19	0.04	1,040	3,876.13	17.00	427	1,564.19	6.86	1,307	4,493.88	19.71	1,311	5,779.00	25.35
Limestone Plain Coniferous Forest Complex	75	128.31	0.03	0.10				25	39.06	30.44	4	10.25	7.99	29	49.31	38.43	29	49.31	38.43
Limestone Plain Mixed Forest Complex	288	487.44	0.11	0.36				146	188.75	38.72	9	12.00	2.46	154	200.56	41.15	154	200.56	41.15
Limestone Plain Deciduous Forest Complex	289	2,356.38	0.53	1.75				86	1,239.13	52.59	14	30.13	1.28	104	1,267.13	53.77	95	1,525.38	64.73
Niagara Escarpment Coniferous Forest Complex	283	726.25	0.16	0.54	13	25.19	3.47	85	145.50	20.03	24	30.31	4.17	92	152.19	20.96	89	154.94	21.33
Niagara Escarpment Mixed Forest Complex	478	1,083.31	0.24	0.80	24	29.44	2.72	145	264.06	24.38	55	81.19	7.49	155	282.19	26.05	157	288.56	26.64
Niagara Escarpment Deciduous Forest Complex	779	4,352.13	0.98	3.23	22	138.25	3.18	183	1,007.19	23.14	70	389.81	8.96	205	1,159.56	26.64	198	1,237.75	28.44
Sand Plain Coniferous Forest Complex	868	2,437.88	0.55	1.81							31	55.94	2.29	31	55.94	2.29	37	96.94	3.98
Sand Plain Mixed Forest Complex	1,289	3,089.44	0.70	2.29				1	0.31	0.01	40	62.56	2.03	41	62.88	2.04	44	133.44	4.32
Sand Plain Deciduous Forest Complex	1,406	5,025.31	1.14	3.73				2	0.19	0.00	47	119.50	2.38	52	119.88	2.39	57	507.19	10.09
Till Moraine Coniferous Forest Complex	1,248	3,528.13	0.80	2.62	54	47.63	1.35	152	172.44	4.89	51	79.50	2.25	227	294.19	8.34	217	471.50	13.36
Till Moraine Mixed Forest Complex	2,121	4,724.88	1.07	3.51	55	108.44	2.30	320	451.69	9.56	91	114.25	2.42	422	621.81	13.16	422	722.31	15.29
Till Moraine Deciduous Forest Complex	3,910	12,770.63	2.89	9.48	112	336.88	2.64	547	1,308.50	10.25	162	268.69	2.10	744	1,760.19	13.78	710	2,589.69	20.28
Till Plain Coniferous Forest Complex	2,045	6,671.25	1.51	4.95	3	1.69	0.03	93	151.19	2.27	94	221.38	3.32	176	364.31	5.46	184	655.38	9.82
Till Plain Mixed Forest Complex	3,204	6,071.50	1.37	4.51	6	2.94	0.05	150	236.06	3.89	156	238.31	3.93	297	450.38	7.42	307	578.81	9.53
Till Plain Deciduous Forest Complex	6,386	18,534.31	4.19	13.76	4	8.75	0.05	212	400.63	2.16	340	650.50	3.51	577	1,016.81	5.49	586	1,945.81	10.50
Prairies and Savannahs	91	290.56	0.07	0.22							21	21.06	7.25	21	21.06	7.25	30	128.94	44.38

Ecological System	# of Patches in 6E-7	Total Area (ha) in 6E-7	% of Total Area of 6E-7	% Natural Cover in 6E-7	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Wetlands																			
Bog Complex	36	43.19	0.01	0.03				23	24.25	56.15	4	1.25	2.89	36	43.19	100.00	36	43.19	100.00
Fen Complex	90	60.25	0.01	0.04				14	5.25	8.71	25	7.56	12.55	43	16.25	26.97	45	37.13	61.62
Marsh Complex	1,720	1,363.81	0.31	1.01	1	1.06	0.08	427	269.38	19.75	98	76.31	5.60	1,521	1,045.31	76.65	1,525	1,072.44	78.64
Swamp Complex	4,355	13,235.31	2.99	9.83	28	88.50	0.67	956	2,358.00	17.82	310	744.44	5.62	2,485	7,815.00	59.05	2,470	7,943.75	60.02
Non-Target Natural Ecological Systems																			
Coniferous Plantation Forest	524	4,947.69	1.12					236	326.44	6.60	87	717.50	14.50	186	847.75	17.13	192	1,563.31	31.60
Other Landcover																			
Bedrock Outcrop	224	221.13	0.05	0.16	4	0.56	0.25	15	1.38	0.62				19	1.94	0.88	25	62.63	28.32
Pasture and Abandoned Fields	19,340	59,612.13	13.47		155	281.88	0.47	1,495	761.63	1.28	876	1,040.38	1.75	2,376	2,090.81	3.51	2,376	2,090.81	3.51
Water	742	1,090.85	0.25	0.81	3	4.75	0.42	232	249.88	22.18	34	245.25	21.77	458	545.50	48.43	458	545.50	48.43
Anthropogenic Land Types																			
Settlement and Developed Land	54	6,508.00	1.47					9	8.94	0.14	57	27.81	0.43	67	36.81	0.57	67	36.81	0.57
Cropland	7,068	226,239.06	51.12		123	280.31	0.12	2,743	983.19	0.43	954	1,771.19	0.78	3,800	3,732.88	1.65	3,800	3,733.06	1.65
NRVIS Pit or Quarry	568	10,540.75	2.38		8	0.56	0.01	52	72.88	0.69	37	35.31	0.34	98	108.63	1.03	98	108.63	1.03

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Peterborough

Ecodistrict 6E-8

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 532,069 hectares (1,314,771 acres)

Land Ownership: 99% private, 0.5% public, 0.4% First Nations lands

Planning Authority: 30% Kawartha Lakes, 24% Peterborough County, 19% Durham Region, 14% Northumberland County, 12% Hastings County, 1% York Region

Physiography:

Ecodistrict 6E-8 consists almost entirely of drumlinized till plain, primarily the Peterborough Drumlin Field. Its southern portion also contains scattered sand plains and the Schomberg Clay Plains as they transition to the Oak Ridges Moraine in 6E-7. The eastern boundary includes a minor drumlinized portion of bevelled till plain with the predominantly undrumlinized portion of this bevelled till plain (Napanee Plain) being in 6E-15. This area of the ecodistrict also includes a portion of the Iroquois Plain, the dominant landform of adjacent 6E-13.

Remaining Natural Cover:

Nearly 40% of the ecodistrict remains as natural cover, primarily forest. Till plain deciduous (17%), mixed (9%) and coniferous (8%) forest complexes comprise one-third of this remaining cover. Thirty-one percent of the remaining natural cover is swamp complex and 6% is marsh. There are also approximately 1,000 hectares of alvars mapped in 6E-8, in the broad sense; of which none are considered to be true alvars. There are also 98 hectares of prairies and savannahs in Ecodistrict 6E-8.

Land Use:

Forty-three percent of 6E-8 has been converted to developed agricultural lands (228,146 ha), and an additional 84,306 hectares are pastures and abandoned fields. Lands associated with agriculture represent nearly 60% of the ecodistrict. Almost 5,000 hectares are gravel pits and quarries, and over 5,700 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands occupy almost 10% of Ecodistrict 6E-8 (51,340 ha). Over 49,000 hectares are provincially significant wetlands, representing 96% of all the identified conservation lands in the ecodistrict. Over 10,000 hectares are provincially significant life science ANSIs, of which 40 hectares coincide with provincial parks. Thirty-eight percent of all occurrences of species and vegetation community targets coincide with these conservation lands, primarily provincially significant wetlands.

Species Targets:

Half of the 12 targeted species occurring in 6E-8 are birds. Ten are species at risk including the Endangered Butternut (*Juglans cinerea*) and Loggerhead Shrike (*Lanius ludovicianus*).

Vegetation Community Targets:

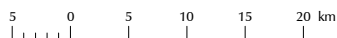
Two of the 17 significant vegetation communities identified within 6E-8 are globally rare, seven are provincially rare, and another 10 are considered to be high-quality representative communities that are important to conservation.

Conservation Blueprint:

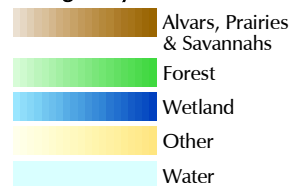
The Conservation Blueprint portfolio in Ecodistrict 6E-8 includes approximately 30% of all remaining natural cover, and nearly 68% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

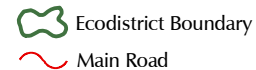
PETERBOROUGH ECODISTRICT 6E-8



Ecological Systems



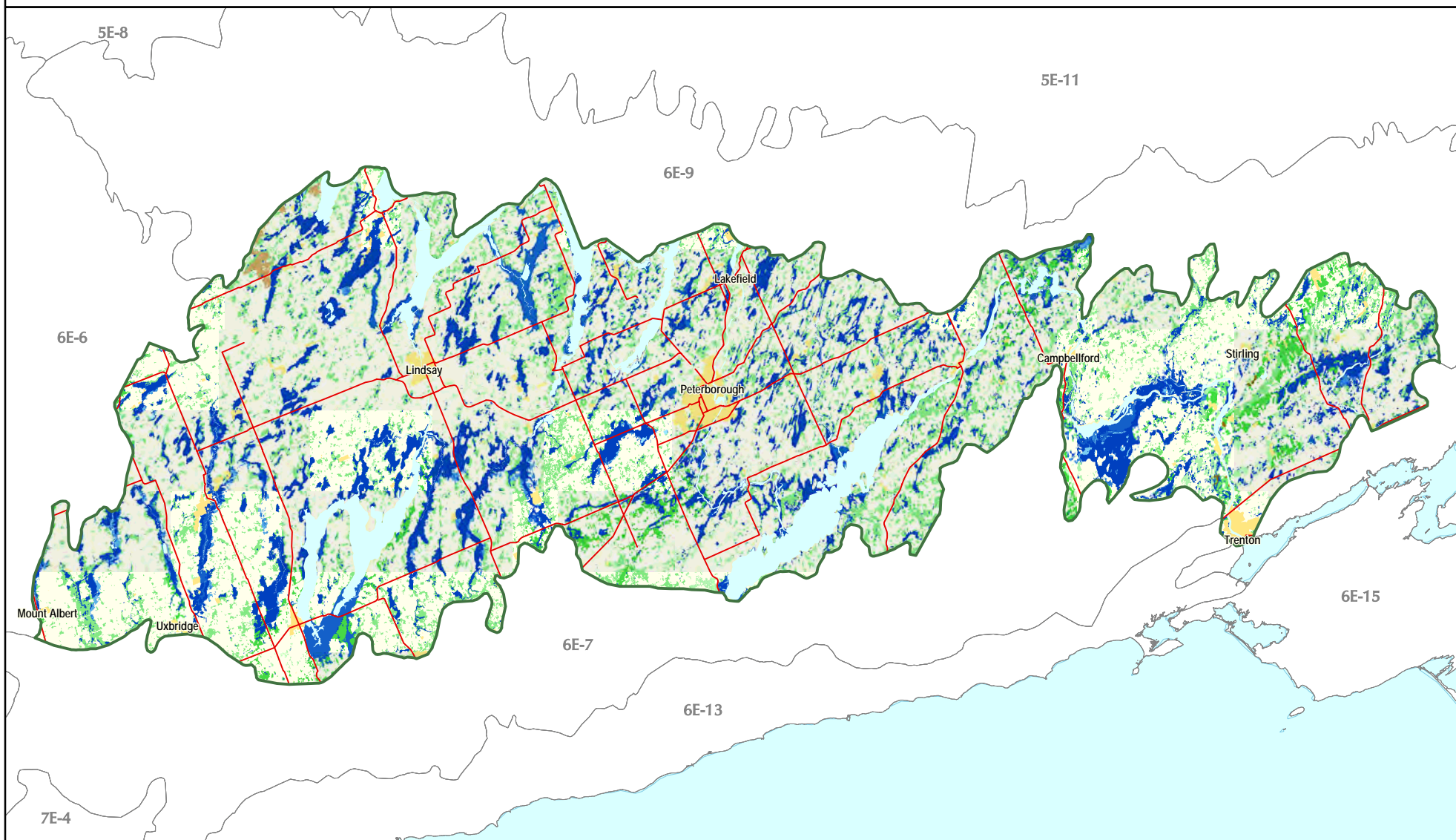
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

PETERBOROUGH ECODISTRICT 6E-8



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

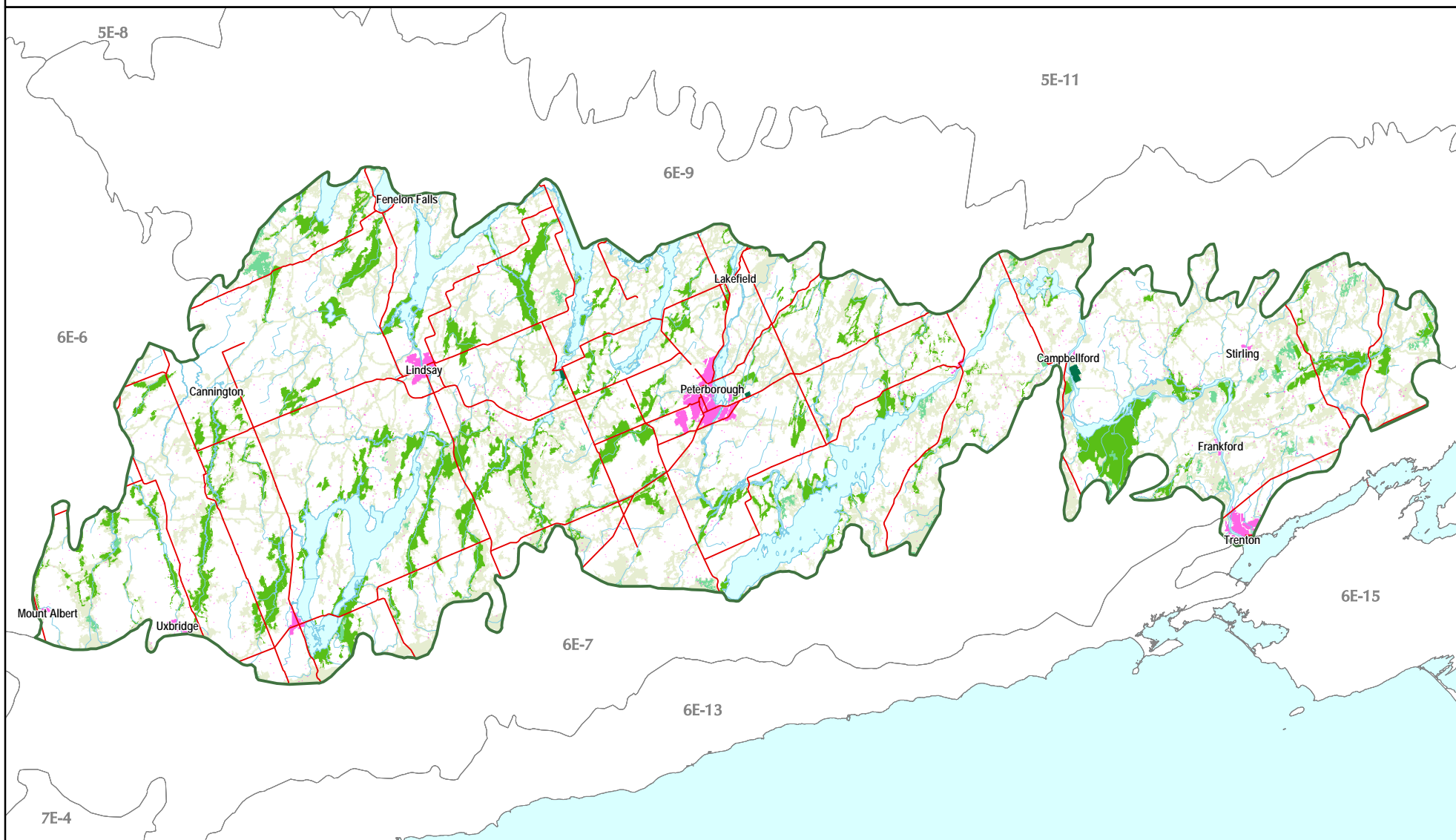
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-8

Number of pops in 6E-8	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	1	100	2
1	<i>Celtis tenuifolia</i>	Dwarf Hackberry	G5	S2	THR	THR	SAR	0	0	0	0	0	1	100	3
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			Disjunct	0	0	100	0	100	1	100	3
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	0	0	50	2	100	2
Birds															
8	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	25	0	75	6	75	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
17	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	12	12	59	10	59	secondary
9	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	11	11	1	11	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	100	0	100	1	100	secondary
Reptiles															
1	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	0	0	100	100	1	100	secondary
1	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Communities															
1	Black Spruce Treed Bog Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
2	Dry - Fresh Hickory Deciduous Forest Type		G4?	S3S4			SRank	0	0	0	0	0	2	100	3
1	Dry - Fresh Oak - Sugar Maple Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
3	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry - Fresh White Pine - Red Maple Mixed Forest Type		G4G5	S5			high quality	0	0	0	100	100	1	100	secondary
2	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	2	100	3
3	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	0	0	0	0	3	100	3
2	Dry Bur Oak - Shagbark Hickory Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	2	100	3
6	Dry Tallgrass Prairie Type		G3	S1			GRank	0	0	0	0	0	6	100	all viable
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	100	0	0	100	1	100	secondary
1	Leatherleaf Shrub Bog Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Red Cedar - Early Buttercup Treed Alvar Grassland Type		G2?	S2			GRank	0	0	0	0	0	1	100	all viable
2	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	100	0	100	2	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	White Cedar - Hemlock Coniferous Organic Swamp Type		G?	S3S4			SRank	0	0	0	0	0	1	100	3
1	White Cedar - Yellow Birch Mixed Organic Swamp Type		G4?	S5			high quality	0	0	0	0	0	1	100	secondary

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-8

Ecological System	# of Patches in 6E-8	Total Area (ha) in 6E-8	% of Total Area of 6E-8	% Natural Cover in 6E-8	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	43,280	99,734.69	18.74	47.76	76	175.13	0.18	643	676.38	0.68	508	747.88	0.75	1,290	1,652.94	1.66	1,395	4,811.00	4.82
Alvars	39	997.94	0.19	0.48													5	724.44	72.59
Prairies and savannahs	22	98.13	0.02	0.05													4	44.94	45.80
Wetlands	7,598	78,288.19	14.71	37.49	27	47.50	0.06	322	8,768.31	11.20	309	1,845.31	2.36	2,255	48,301.75	61.70	2,256	48,796.50	62.33
All ecological systems	83827	532068.31	100.00	100.00	162	343.19		1596	10053.19	1.89	1204	3096.44	0.58	4718	51339.88	9.65	4843	55800.94	10.49

Ecological systems details for Ecodistrict 6E-8

Ecological System	# of Patches in 6E-8	Total Area (ha) in 6E-8	% of Total Area of 6E-8	% Natural Cover in 6E-8	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Coniferous Forest Complex	8	11.88	0.00	0.01				2	0.50	4.21				2	0.50	4.21	4	5.00	42.11
Beach and Shorecliff Mixed Forest Complex	7	9.88	0.00	0.00				2	0.63	6.33				2	0.63	6.33	2	2.31	23.42
Beach and Shorecliff Deciduous Forest Complex	4	1.44	0.00	0.00				4	0.50	34.78				4	0.50	34.78	5	1.38	95.65
Clay Plain Coniferous Forest Complex	420	777.81	0.15	0.37				1	0.19	0.02				1	0.19	0.02	8	59.50	7.65
Clay Plain Mixed Forest Complex	1,150	2,339.94	0.44	1.12				4	0.94	0.04	4	5.94	0.25	9	6.94	0.30	16	100.44	4.29
Clay Plain Deciduous Forest Complex	1,863	4,854.06	0.91	2.32				7	6.63	0.14	3	11.63	0.24	10	18.25	0.38	17	244.13	5.03
Coniferous Forest Complex on Peat and Muck	872	1,634.50	0.31	0.78				48	36.19	2.21	38	24.25	1.48	88	60.56	3.71	93	174.50	10.68
Mixed Forest Complex on Peat and Muck	837	1,203.56	0.23	0.58				49	51.94	4.32	46	25.56	2.12	98	79.00	6.56	100	159.31	13.24
Deciduous Forest Complex on Peat and Muck	1,166	1,453.00	0.27	0.70				78	105.75	7.28	58	37.75	2.60	147	152.63	10.50	149	195.94	13.49
Kame Moraine Coniferous Forest Complex	162	293.38	0.06	0.14				5	1.19	0.40				5	1.19	0.40	7	44.31	15.10
Kame Moraine Mixed Forest Complex	178	198.38	0.04	0.09				5	0.75	0.38	3	0.38	0.19	8	1.13	0.57	12	17.63	8.88
Kame Moraine Deciduous Forest Complex	271	625.94	0.12	0.30							1	1.25	0.20	1	1.25	0.20	7	48.13	7.69
Limestone Plain Coniferous Forest Complex	92	136.00	0.03	0.07	1	1.25	0.92	1	1.38	1.01	1	0.06	0.05	5	8.13	5.97	7	26.56	19.53
Limestone Plain Mixed Forest Complex	304	553.50	0.10	0.27	12	9.63	1.74	5	4.63	0.84	8	37.44	6.76	27	52.94	9.56	28	78.75	14.23
Limestone Plain Deciduous Forest Complex	317	1,077.13	0.20	0.52	6	6.56	0.61	16	75.81	7.04	8	16.13	1.50	32	98.69	9.16	34	284.75	26.44
Sand Plain Coniferous Forest Complex	1,019	2,859.25	0.54	1.37				99	169.75	5.94	22	48.56	1.70	122	218.38	7.64	112	394.19	13.79
Sand Plain Mixed Forest Complex	1,740	3,742.44	0.70	1.79				54	28.81	0.77	41	60.88	1.63	98	89.88	2.40	104	368.13	9.84
Sand Plain Deciduous Forest Complex	2,074	5,749.56	1.08	2.75				67	35.94	0.63	16	65.81	1.14	83	101.75	1.77	96	500.19	8.70
Till Moraine Coniferous Forest Complex	460	791.94	0.15	0.38							11	26.75	3.38	11	26.75	3.38	15	44.44	5.61
Till Moraine Mixed Forest Complex	496	956.94	0.18	0.46							10	8.75	0.91	11	8.81	0.92	21	115.75	12.10
Till Moraine Deciduous Forest Complex	602	1,210.69	0.23	0.58				1	2.56	0.21	10	20.38	1.68	11	22.94	1.89	14	55.38	4.57
Till Plain Coniferous Forest Complex	6,710	15,894.06	2.99	7.61	9	10.94	0.07	69	71.31	0.45	66	128.25	0.81	148	222.00	1.40	157	527.38	3.32
Till Plain Mixed Forest Complex	9,097	18,573.63	3.49	8.89	20	34.81	0.19	52	31.75	0.17	84	98.88	0.53	167	172.94	0.93	177	539.50	2.90
Till Plain Deciduous Forest Complex	13,431	34,785.81	6.54	16.66	28	111.94	0.32	74	49.25	0.14	78	129.25	0.37	200	307.00	0.88	210	823.44	2.37
Alvar	39	997.94	0.19	0.48													5	724.44	72.59
Prairies and Savannahs	22	98.13	0.02	0.05													4	44.94	45.80
Wetlands																			
Bog Complex	14	181.00	0.03	0.09				2	56.63	31.28	4	12.63	6.98	11	146.75	81.08	11	146.75	81.08
Fen Complex	207	291.94	0.05	0.14				58	151.44	51.87	18	7.13	2.44	80	183.13	62.73	82	190.94	65.40
Marsh Complex	1,286	12,323.88	2.32	5.90	3	24.38	0.20	60	4,720.44	38.30	96	243.25	1.97	754	10,400.63	84.39	755	10,450.44	84.80
Swamp Complex	6,091	65,491.38	12.31	31.36	24	23.13	0.04	202	3,839.81	5.86	191	1,582.31	2.42	1,410	37,571.25	57.37	1,408	38,008.38	58.04

Henson, B.L. and K.E. Brodribb, 2005. Great Lakes Conservation Blueprint for Terrestrial Biodiversity. Volume 2: Ecodistrict Summaries. 344pp.

Ecological System	# of Patches in 6E-8	Total Area (ha) in 6E-8	% of Total Area of 6E-8	% Natural Cover in 6E-8	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Non-Target Natural Ecological Systems																			
Coniferous Plantation Forest	9	56.31	0.01														4	36.13	64.15
Other Landcover																			
Bedrock Outcrop	87	102.69	0.02	0.05							4	0.81	0.79	4	0.81	0.79	7	3.38	3.29
Pasture and Abandoned Fields	22,224	84,305.69	15.84		24	32.44	0.04	200	59.56	0.07	140	128.06	0.15	396	259.56	0.31	397	259.63	0.31
Unclassified (cloud & shadow)	5	0.94	0.00					5	0.94	100.00				5	0.94	100.00	5	0.94	100.00
Water	681	29,602.61	5.56	14.18	6	21.38	0.07	75	400.69	1.35	43	22.38	0.08	148	467.88	1.58	149	467.94	1.58
Anthropogenic Land Types																			
Settlement and Developed Land	19	5,753.56	1.08					1	0.25	0.00				1	0.25	0.00	1	0.25	0.00
Cropland	9,253	228,146.13	42.88		29	66.75	0.03	348	146.81	0.06	196	326.88	0.14	611	630.25	0.28	612	630.31	0.28
NRVIS Pit or Quarry	610	4,958.81	0.93					2	0.25	0.01	4	25.13	0.51	8	25.50	0.51	8	25.50	0.51

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Madoc

Ecodistrict 6E-9

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 421,168 hectares (1,040,729 acres)

Land Ownership: 99% private, 0.8% public, 0.3% First Nations lands

Planning Authority: 23% Kawartha Lakes, 22% Hastings County, 22% Peterborough County, 19% Lennox and Addington County, 10% Frontenac County, 3% Simcoe County, 1% Northumberland County

Physiography:

This ecodistrict's northern boundary follows the southern edge of the Canadian Shield and the ecodistrict includes the limestone plains of the Carden Plain in the west, the Napanee Plain in the east, and the till moraines of the Dummer Moraine. The southeastern boundary follows the transition between the Napanee Plains and the clay plains of 6E-15. The southwestern boundary follows the transition between the Carden Plain and Dummer Moraine (6E-9) and the Peterborough Drumlin Field (6E-8). The western portion of 6E-9 also follows the transition between the limestone Carden Plain and the clay plains and sand plains of the Simcoe Lowlands in 6E-6.

Remaining Natural Cover:

Approximately 69% of the ecodistrict remains as natural cover, primarily forest. Twenty-seven percent of this remaining cover is composed of till moraine forest complexes, and another 27% is composed of limestone plain forest complexes. These complexes are primarily deciduous or mixed forest. Another 19% of the natural cover is wetland, almost entirely composed of swamps. There are approximately 28,000 hectares of alvars mapped in 6E-9, in the broad sense. Of this, approximately 5% are considered to be true alvars.

Land Use:

Nearly 18% of 6E-9 has been converted to developed agricultural lands (75,434 ha), and an additional 49,466 hectares are pastures or abandoned fields. Lands associated with agriculture represent nearly 30% of the ecodistrict. There are approximately 4,500 hectares of gravel pits and quarries, and over 1,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands cover approximately 8.6% of Ecodistrict 6E-9 (36,326 ha). Over 23,000 hectares are designated as provincially significant wetlands. Over 8,500 hectares are provincially significant life science ANSIs, of which 640 hectares coincide with provincial parks. Nearly 17% of the occurrences of species and vegetation community targets coincide with conservation lands, primarily provincially significant life science ANSIs and wetlands.

Species Targets:

The 25 targeted species occurring in 6E-9 are plants, birds and reptiles. Twenty species targets are species at risk, including the Endangered Loggerhead Shrike (*Lanius ludovicianus*) and American Ginseng (*Panax quinquefolius*), as well as the Threatened Eastern Hog-nosed Snake (*Heterodon platirhinos*).

Vegetation Community Targets:

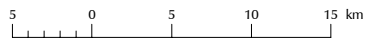
Eight of the 18 significant vegetation communities identified in 6E-9 are globally rare, nine are provincially rare, and another eight are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

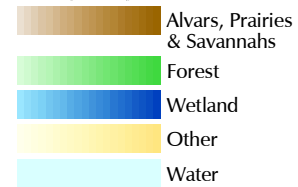
The Conservation Blueprint portfolio in Ecodistrict 6E-9 includes approximately 23% of all remaining natural cover, and over 40% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

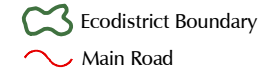
MADOC ECODISTRICT 6E-9



Ecological Systems



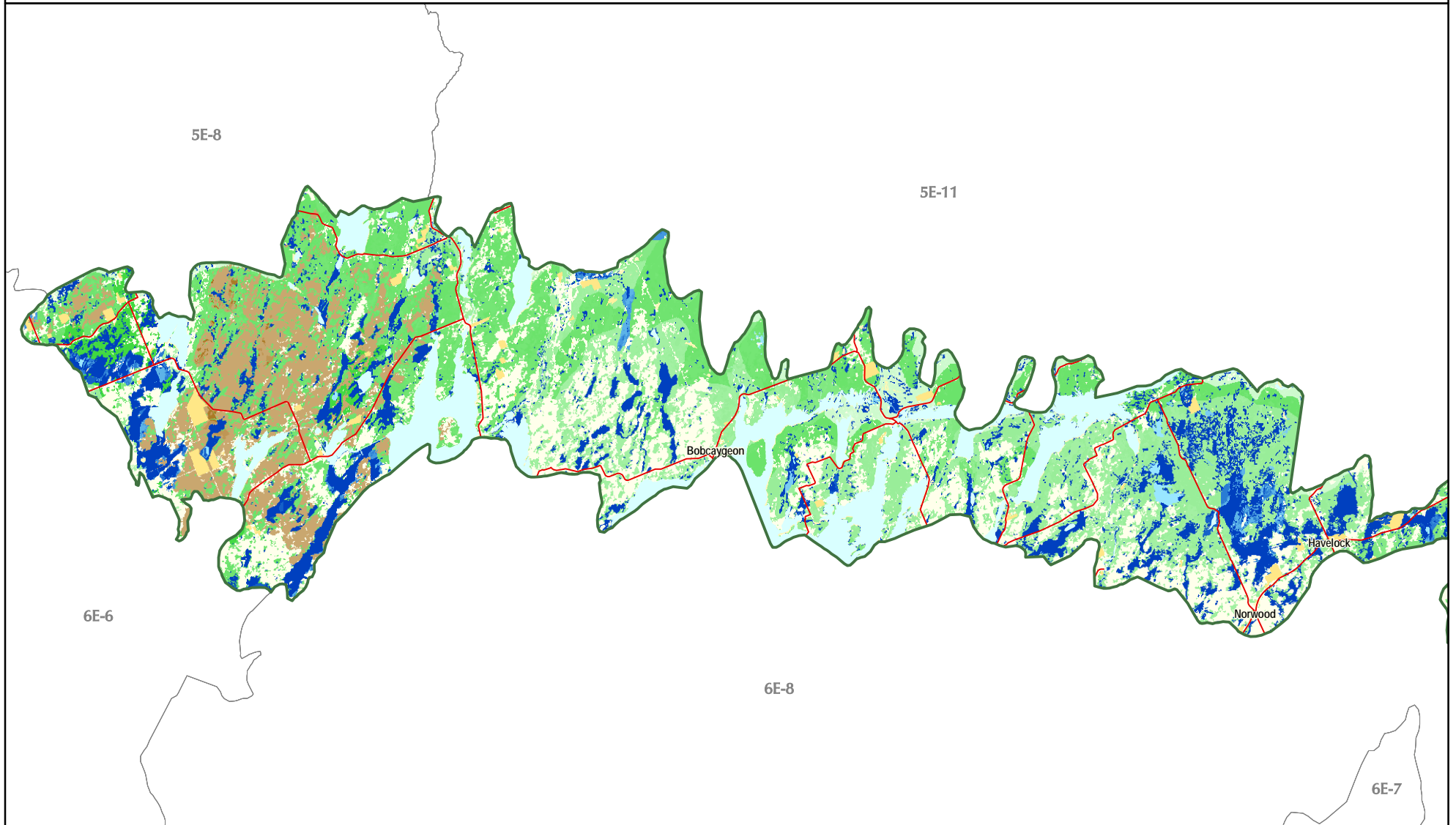
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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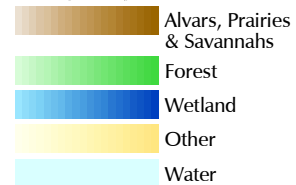
Great Lakes Conservation Blueprint for Biodiversity

MADOC ECODISTRICT 6E-9

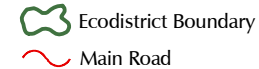
5 0 5 10 15 km



Ecological Systems



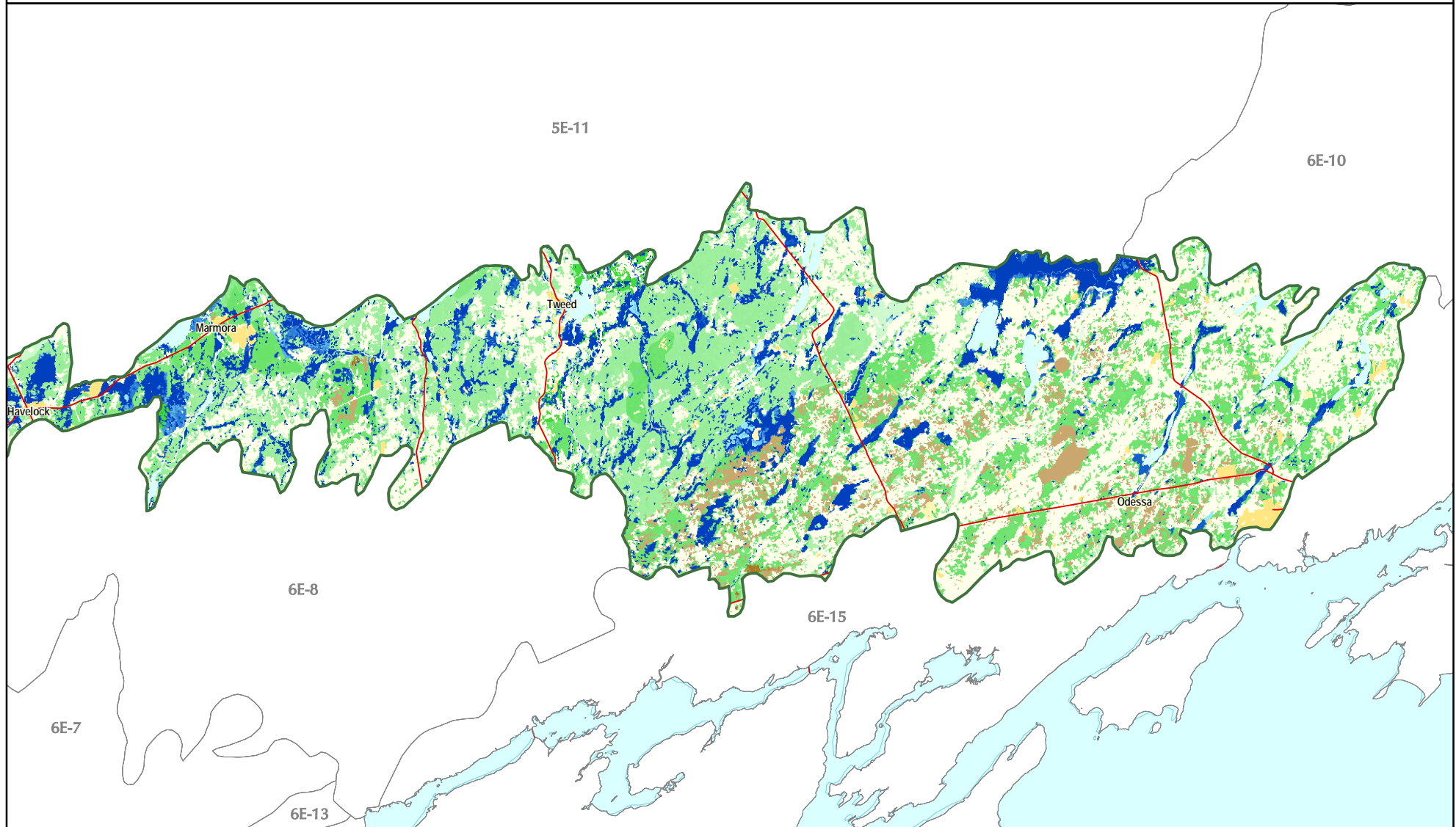
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Great Lakes Conservation Blueprint for Biodiversity

MADOC ECODISTRICT 6E-9

5 0 5 10 15 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

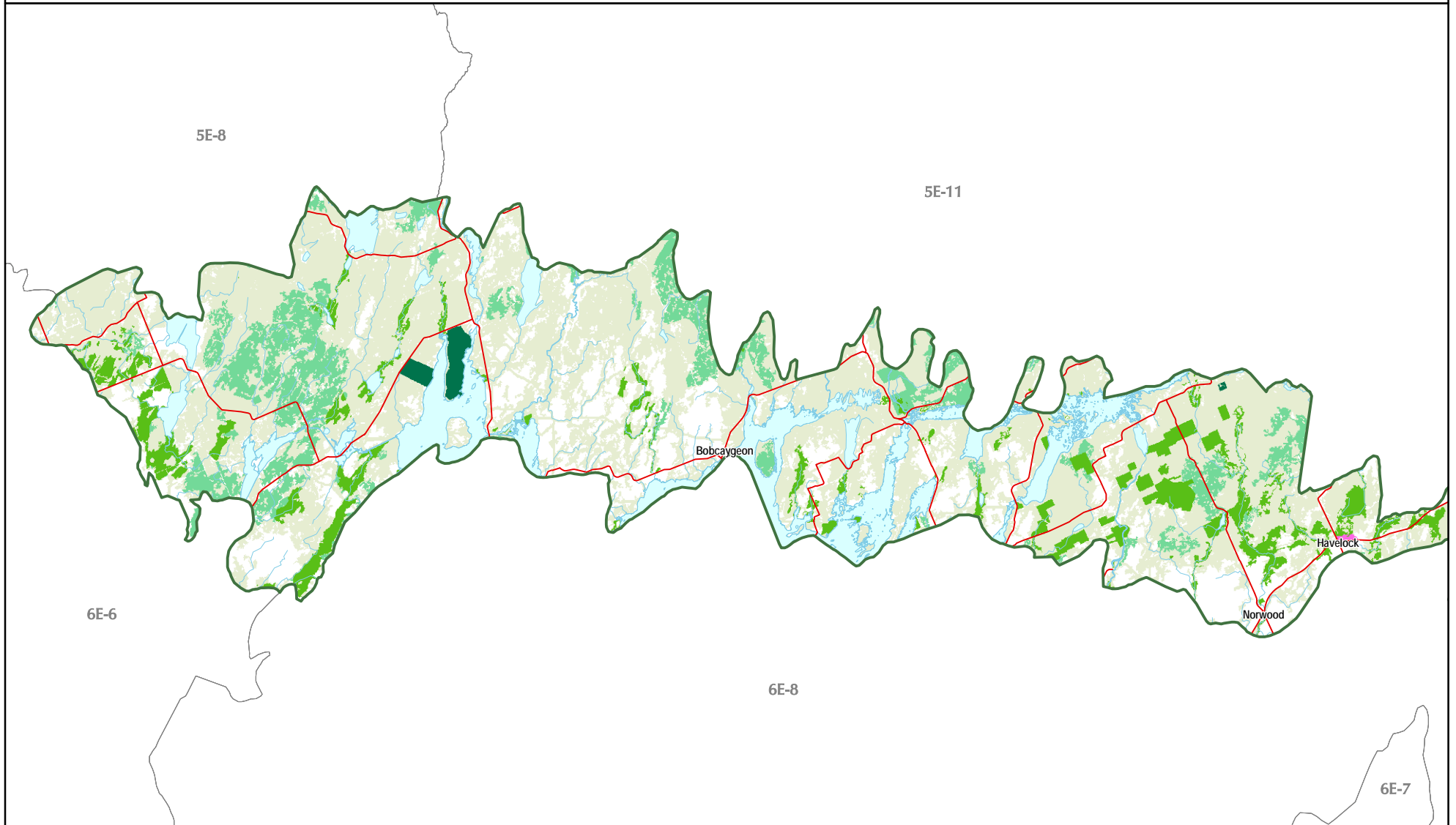
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Great Lakes Conservation Blueprint for Biodiversity

MADOC ECODISTRICT 6E-9





5 0 5 10 15 km



Terrestrial Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Lands
-  Other Priority Stewardship Lands

Other Information

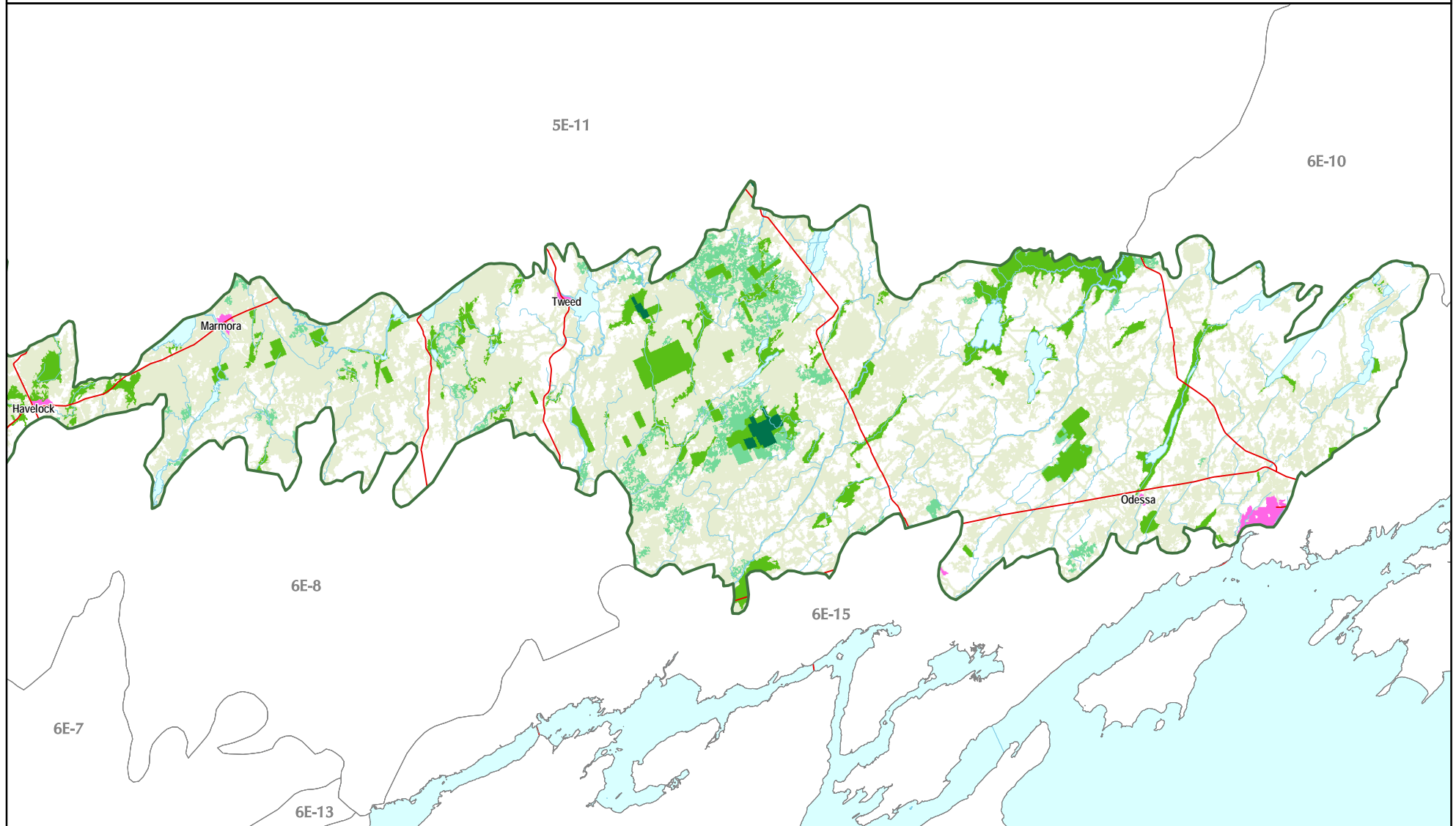
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Documented extant vegetation community and species targets in Ecodistrict 6E-9

Number of pops in 6E-9	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Carex juniperorum</i>	Juniper Sedge	G2	S1	END	END-R	GRank SAR	0	0	100	0	100	1	100	all viable
1	<i>Celtis tenuifolia</i>	Dwarf Hackberry	G5	S2	THR	THR	SAR	0	0	100	0	100	1	100	3
1	<i>Cypripedium candidum</i>	Small White Lady's-slipper	G4	S1	END	END-R	SAR	0	0	100	0	100	1	100	secondary
1	<i>Gratiola aurea</i>	Golden Hedge-hyssop	G5	S4?			disjunct	0	0	100	0	100	1	100	3
1	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	0	0	0	0	1	100	3
3	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	33	0	0	33	2	67	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	100	0	0	100	1	100	all viable
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	0	100	0	100	1	100	2
1	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	0	0	0	0	1	100	3
Mosses															
1	<i>Bryum gemmiparum</i>	A Moss	G3G5	S1			disjunct?	0	0	0	0	0	1	100	4
Birds															
5	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	20	0	20	2	40	secondary
7	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	14	29	57	4	57	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
6	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	50	67	4	67	secondary
87	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	1	0	1	11	13	secondary
1	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S3B,SZN	SC	SC	SAR	0	100	0	0	100	1	100	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	100	100	1	100	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	50	0	50	1	50	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	1	100	secondary
1	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
4	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Communities															
6	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	0	6	100	all viable
1	Dry - Fresh Sugar Maple - Ironwood Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry - Fresh White Pine - Sugar Maple Mixed Forest Type		G?	S5			high quality	0	0	0	100	100	1	100	secondary
1	Dry - Fresh White Pine Coniferous Forest Type		G3G4	S4S5			GRank	0	0	0	0	0	1	100	all viable
1	Dry Bur Oak - Shagbark Hickory Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	1	100	3
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	0	0	0	1	100	secondary
3	Moist - Fresh Sugar Maple - Black Maple Deciduous Forest Type		G?	S3?			SRank	0	0	0	0	0	3	100	3
1	Moist - Fresh White Cedar - Birch - Aspen Mixed Forest Type		G5Q	S5			high quality	0	0	0	0	0	0	0	secondary
1	Narrow-leaved Sedge Organic Shallow Marsh Type		G4?	S5			high quality	0	0	0	0	100	1	100	secondary
1	Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type		G1Q	S1			GRank	0	0	0	0	0	1	100	all viable
2	Red Cedar - Early Buttercup Treed Alvar Grassland Type		G2?	S2			GRank	0	0	100	0	100	2	100	all viable
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	100	0	100	1	100	secondary

Number of pops in 6E-9	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
1	Tamarack - White Cedar Treed Fen Type		G4?	S5			high quality	0	100	100	0	100	1	100	secondary
9	Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type		G2G3?	S2S3			GRank	0	0	33	0	11	9	100	all viable
1	White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement		G1G2	S1			GRank	0	0	0	0	0	1	100	all viable
2	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type		G3?	S3			GRank	0	0	0	0	0	2	100	all viable
1	Winterberry Organic Thicket Swamp Type		G3G4Q	S3S4			GRank	0	0	0	0	100	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-9

Ecological System	# of Patches in 6E-9	Total Area (ha) in 6E-9	% of Total Area of 6E-9	% Natural Cover in 6E-9	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	41,078	180,077.06	42.76	61.95	311	1,225.06	0.68	956	1,595.81	0.89	1,366	4,671.38	2.59	2,793	8,061.44	4.48	2,977	23,736.19	13.18
Alvars	3,254	28,389.69	6.74	9.77	25	81.56	0.29	101	1,089.56	3.84	39	32.25	0.11	188	1,330.63	4.69	208	10,556.00	37.18
Wetlands	9,026	54,442.25	12.93	18.73	82	559.00	1.03	340	4,747.81	8.72	600	2,042.75	3.75	2,333	24,717.44	45.40	2,315	25,250.63	46.38
All ecological systems	71469	421169.00	100.00	100.00	560	2155.13	0.51	1793	8523.19	2.02	2405	7532.00	1.79	6339	36325.88	8.63	6536	61923.56	14.70

Ecological systems details for Ecodistrict 6E-9

Ecological System	# of Patches in 6E-9	Total Area (ha) in 6E-9	% of Total Area of 6E-9	% Natural Cover in 6E-9	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Bare Rock Ridge & Shallow Till Coniferous Forest Complex	255	494.50	0.12	0.17	2	2.06	0.42							32	36.94	7.47	35	48.69	9.85
Bare Rock Ridge & Shallow Till Mixed Forest Complex	599	1,811.63	0.43	0.62	11	7.69	0.42				5	2.31	0.13	65	145.69	8.04	81	356.50	19.68
Bare Rock Ridge & Shallow Till Deciduous Forest Complex	469	3,309.56	0.79	1.14	6	15.44	0.47	7	5.38	0.16	1	0.31	0.01	67	184.25	5.57	89	652.44	19.71
Clay Plain Coniferous Forest Complex	57	125.19	0.03	0.04				10	41.63	33.25				10	41.63	33.25	11	48.56	38.79
Clay Plain Mixed Forest Complex	272	551.63	0.13	0.19				15	22.75	4.12	2	0.63	0.11	17	23.38	4.24	22	54.50	9.88
Clay Plain Deciduous Forest Complex	493	1,359.94	0.32	0.47				7	2.69	0.20	13	17.13	1.26	20	19.81	1.46	25	59.00	4.34
Coniferous Forest Complex on Peat and Muck	569	1,231.69	0.29	0.42	13	12.63	1.03	28	35.44	2.88	7	16.19	1.31	51	60.50	4.91	53	180.19	14.63
Mixed Forest Complex on Peat and Muck	675	1,435.13	0.34	0.49	23	43.44	3.03	102	89.63	6.25	16	31.88	2.22	111	177.06	12.34	115	412.56	28.75
Deciduous Forest Complex on Peat and Muck	599	1,534.44	0.36	0.53	4	5.81	0.38	86	114.94	7.49	12	16.63	1.08	105	139.81	9.11	108	284.88	18.57
Kame Moraine Coniferous Forest Complex	51	158.81	0.04	0.05													3	58.00	36.52
Kame Moraine Mixed Forest Complex	82	150.81	0.04	0.05													4	44.13	29.26
Kame Moraine Deciduous Forest Complex	70	258.25	0.06	0.09													4	107.94	41.80
Limestone Plain Coniferous Forest Complex	3,381	15,460.00	3.67	5.32	56	393.63	2.55	79	200.50	1.30	58	136.44	0.88	210	758.00	4.90	238	2,162.94	13.99
Limestone Plain Mixed Forest Complex	7,069	29,137.81	6.92	10.02	83	307.88	1.06	178	294.94	1.01	135	464.88	1.60	431	1,180.81	4.05	460	3,641.56	12.50
Limestone Plain Deciduous Forest Complex	7,527	33,972.06	8.07	11.69	84	394.56	1.16	165	212.75	0.63	169	509.88	1.50	439	1,147.44	3.38	481	2,274.38	6.69
Sand Plain Coniferous Forest Complex	213	495.06	0.12	0.17													4	7.94	1.60
Sand Plain Mixed Forest Complex	525	1,274.25	0.30	0.44										2	0.13	0.01	6	60.25	4.73
Sand Plain Deciduous Forest Complex	544	1,860.00	0.44	0.64										2	0.13	0.01	6	272.13	14.63
Till Moraine Coniferous Forest Complex	4,369	18,814.31	4.47	6.47	12	23.31	0.12	69	182.50	0.97	294	1,114.75	5.93	368	1,262.19	6.71	370	2,171.63	11.54
Till Moraine Mixed Forest Complex	5,979	30,425.00	7.22	10.47	14	15.81	0.05	132	119.06	0.39	389	1,230.31	4.04	512	1,476.50	4.85	481	6,683.94	21.97
Till Moraine Deciduous Forest Complex	5,469	30,601.00	7.27	10.53	3	2.81	0.01	65	256.69	0.84	265	1,130.06	3.69	335	1,388.31	4.54	342	3,759.06	12.28
Till Plain Coniferous Forest Complex	471	1,695.00	0.40	0.58										2	1.88	0.11	7	265.13	15.64
Till Plain Mixed Forest Complex	645	1,619.00	0.38	0.56				3	2.13	0.13				3	2.13	0.13	14	90.06	5.56
Till Plain Deciduous Forest Complex	695	2,302.00	0.55	0.79				10	14.81	0.64				11	14.88	0.65	18	39.81	1.73
Alvar	3,159	27,809.88	6.60	9.57	25	81.56	0.29	90	979.44	3.52	39	32.25	0.12	177	1,220.50	4.39	188	10,286.69	36.99
Alvar Grassland	42	285.75	0.07	0.10				4	17.94	6.28				4	17.94	6.28	7	104.44	36.55
Alvar Savannah	42	268.88	0.06	0.09				7	92.19	34.29				7	92.19	34.29	11	159.63	59.37
Alvar Shrubland	11	25.19	0.01	0.01													2	5.25	20.84
Wetlands																			
Bog Complex	119	846.63	0.20	0.29	18	65.06	7.68	23	434.06	51.27	19	92.88	10.97	94	712.25	84.13	93	725.88	85.74
Fen Complex	776	1,190.38	0.28	0.41	13	53.69	4.51	79	101.13	8.50	77	55.38	4.65	235	432.38	36.32	235	432.38	36.32

Ecological System	# of Patches in 6E-9	Total Area (ha) in 6E-9	% of Total Area of 6E-9	% Natural Cover in 6E-9	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Wetlands continued																			
Marsh Complex	1,241	4,525.44	1.07	1.56	10	5.94	0.13	112	346.88	7.67	104	436.88	9.65	727	3,407.31	75.29	727	3,408.31	75.31
Swamp Complex	6,890	47,879.81	11.37	16.47	41	434.31	0.91	126	3,865.75	8.07	400	1,457.63	3.04	1,277	20,165.50	42.12	1,260	20,684.06	43.20
Other Landcover																			
Bedrock Outcrop	116	477.06	0.11	0.16	1	0.25	0.05	2	0.25	0.05	4	8.31	1.74	18	18.38	3.85	20	182.19	38.19
Pasture and Abandoned Fields	9,663	49,465.56	11.74		51	110.13	0.22	177	142.75	0.29	128	269.69	0.55	364	536.13	1.08	366	536.25	1.08
Unclassified (cloud & shadow)	1	32.13	0.01																
Water	1,285	27,283.81	6.48	9.39	43	89.31	0.33	70	831.06	3.04	123	268.06	0.98	287	1,160.69	4.25	287	1,160.69	4.25
Anthropogenic Land Types																			
Settlement and Developed Land	10	1,039.69	0.25														-	-	-
Cropland	6,492	75,433.75	17.91		46	89.75	0.12	142	83.69	0.11	138	238.31	0.32	342	418.69	0.56	349	419.13	0.56
NRVIS Pit or Quarry	544	4,485.19	1.06		1	0.06	0.00	5	32.25	0.72	7	1.25	0.03	14	82.50	1.84	14	82.50	1.84

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Westport

Ecodistrict 6E-10

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 149,891 hectares (370,390 acres)

Land Ownership: 89.5% private, 10% public, 0.5% National Park

Planning Authority: 62% Leeds and Grenville County, 38% Frontenac County

Physiography:

This ecodistrict contains the Frontenac Axis, the only area in ecoregion 6E where the granitic bedrock of the Canadian Shield extends into southern Ontario. Local pockets of moderate to low lime loam, silt and clay are interspersed with areas of shallow soil over the bedrock. The eastern and western boundaries follow the transition between shallow till and bare rock ridges of 6E-10 and the limestone plains and clay plains in adjacent ecodistricts (6E-9, 6E-15 and 6E-11). The ecodistrict roughly extends from Gananoque to west of Brockville, and inland to Frontenac Provincial Park. It also includes the majority of St. Lawrence Islands National Park.

Remaining Natural Cover:

Nearly 83% of the ecodistrict remains as natural cover, primarily forest. Till plain forest complex comprises 58% of the remaining natural cover. Ten percent of the remaining natural cover is wetland, primarily marsh and swamp.

Land Use:

18,427 hectares of 6E-10 have been converted to developed agricultural lands, and an additional 13,649 hectares are pastures and abandoned fields. Lands associated with agriculture represent approximately 20% of the ecodistrict. Five hundred hectares are gravel pits and quarries, and less than 300 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands cover approximately 12% of Ecodistrict 6E-10 (18,464 ha). Provincially protected areas account for over 40% of this land (7,680 ha), including Frontenac and Charleston Lake Provincial Parks. Over 7,000 hectares have been designated as provincially significant life science ANSIs, of which 1,940 hectares coincide with provincial parks. Thirty-eight percent of the occurrences of species and vegetation community targets are within identified conservation lands and protected areas.

Species Targets:

Nearly half of the 18 targeted species occurring in 6E-10 are plants. Fifteen of the species targets are species at risk, including the Endangered American Ginseng (*Panax quinquefolius*), the Threatened Least Bittern (*Ixobrychus exilis*) and the Threatened Eastern Ratsnake (*Elaphe obsoleta*). Disjunct plants such as Wild Chives (*Allium schoenoprasum* var. *sibiricum*) and White Bluegrass (*Poa glauca* ssp. *glauca*) also occur in the ecodistrict.

Vegetation Community Targets:

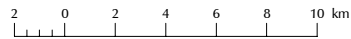
There are 10 occurrences of the globally rare vegetation community Pitch Pine Treed Granite Barren.

Conservation Blueprint:

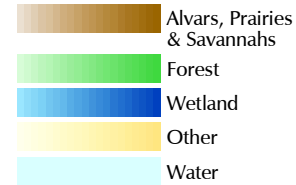
The Conservation Blueprint portfolio in Ecodistrict 6E-10 includes approximately 41% of all remaining natural cover, and over 60% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

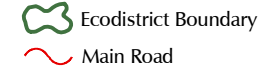
WESTPORT ECODISTRICT 6E-10



Ecological Systems



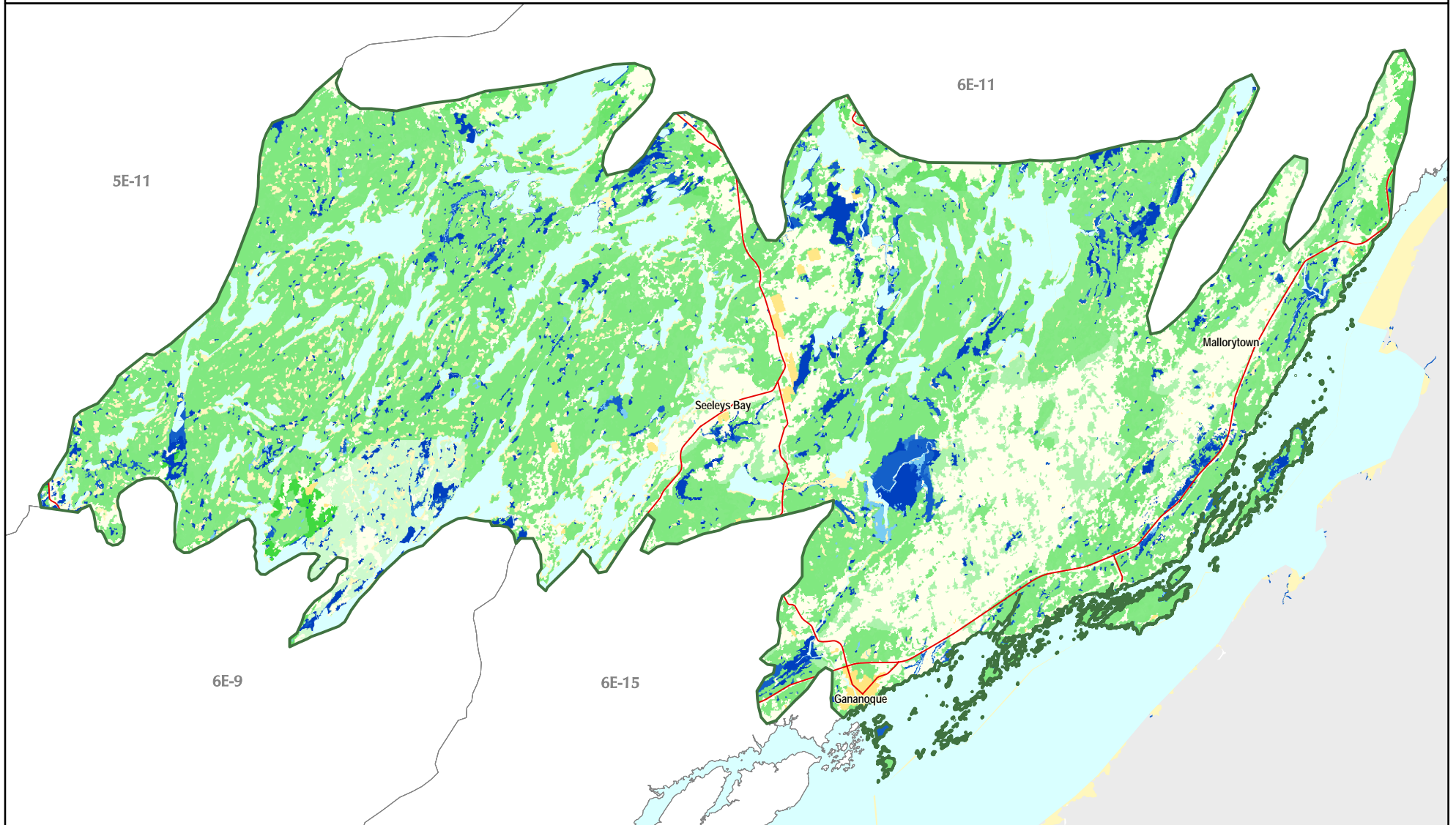
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

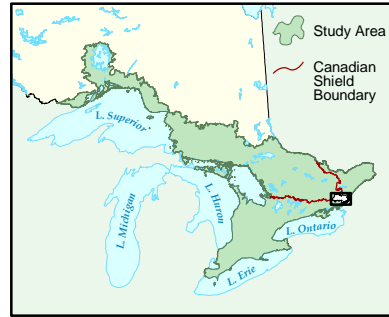
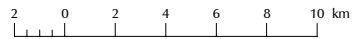
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

WESTPORT ECODISTRICT 6E-10



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

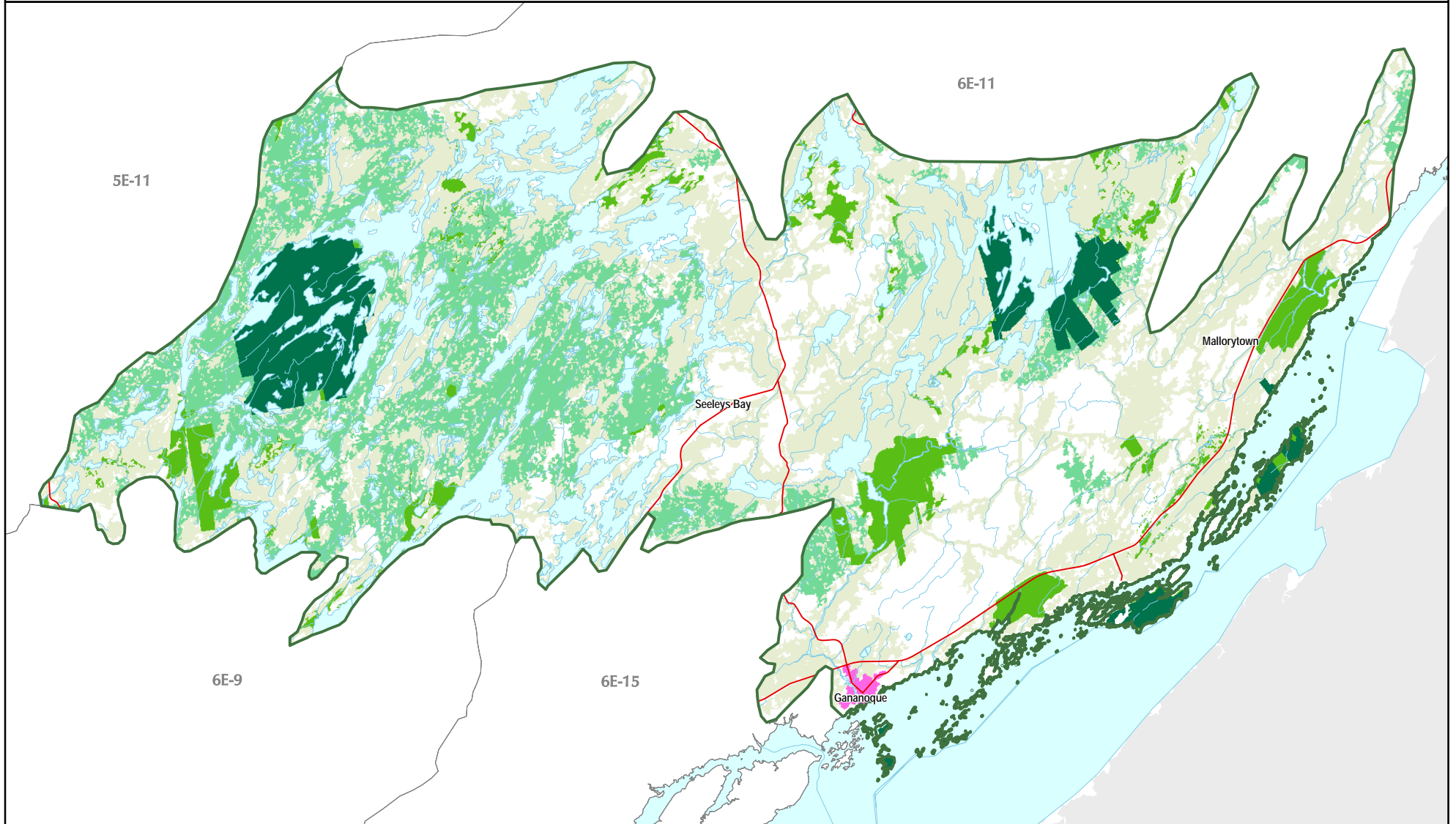
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation community and species targets in Ecodistrict 6E-10

Number of pops in 6E-10	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Chenopodium foggii</i>	Fogg's Goosefoot	G3Q	S2			GRank	0	0	0	0	0	1	100	4
1	<i>Liparis liliifolia</i>	Purple Twayblade	G5	S2	END	END	SAR	0	100	0	0	100	1	100	secondary
7	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	57	0	0	57	6	86	2
1	<i>Phegopteris hexagonoptera</i>	Broach Beech Fern	G5	S3	SC	SC	SAR	0	100	100	0	100	1	100	secondary
1	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5T5?	S4			disjunct	0	100	0	0	100	1	100	3
3	<i>Vaccinium stamineum</i>	Deerberry	G5	S1	THR	THR	SAR	67	0	0	0	67	2	67	secondary
1	<i>Woodsia obtusa</i>	Blunt-lobed Woodsia	G5	S1	END	END-R	SAR	0	100	0	0	100	1	100	secondary
Birds															
11	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	9	9	0	9	6	55	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	0	secondary
5	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	40	20	0	40	2	40	secondary
2	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	50	1	50	secondary
5	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	20	0	40	0	60	4	80	secondary
2	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	50	50	0	50	1	50	secondary
Reptiles															
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
19	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	11	5	11	11	26	7	37	4
4	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	25	0	25	0	50	2	50	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	100	0	0	100	1	100	secondary
Communities															
10	Pitch Pine Treed Granite Barren Type		G3G5	S1			GRank	20	10	20	0	40	10	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-10

Ecological System	# of Patches in 6E-10	Total Area (ha) of System in 6E-10	% of Total Area (ha) of 6E-10	% of Natural Cover in 6E-10	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Forests	13,042	83,175.00	55.49	67.25	149	646.19	0.78	682	5,812.38	6.99	801	3,918.81	4.71	219	1,177.94	1.42	1,612	9,584.13	11.52	1,601	33,027.88	39.71
Wetlands	3,868	12,044.69	8.04	8.87	87	160.75	1.33	146	229.94	1.91	463	2,186.25	18.15	75	225.81	1.87	1,607	6,075.69	50.44	1,606	6,131.31	50.90
All ecological systems	24996	161612.54	100.00	100.00	408	908.88	0.56	1229	7680.00	4.75	1818	7146.75	4.42	379	1651.88	1.02	4327	18463.63	11.42	4350	41965.38	25.97

Ecological systems details for Ecodistrict 6E-10

Ecological System	# of Patches in 6E-10	Total Area (ha) of System in 6E-10	% of Total Area (ha) of 6E-10	% of Natural Cover in 6E-10	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																						
Forests																						
Bare Rock Ridge & Shallow Till Coniferous Forest Complex	29	76.13	0.05	0.06							2	0.19	0.25				2	0.19	0.25	4	3.00	3.94
Bare Rock Ridge & Shallow Till Mixed Forest Complex	244	974.38	0.65	0.79							30	25.56	2.62				30	25.56	2.62	29	247.25	25.38
Bare Rock Ridge & Shallow Till Deciduous Forest Complex	152	2,046.81	1.37	1.65							48	59.81	2.92	1	9.81	0.48	50	69.69	3.40	39	1,472.38	71.94
Clay Plain Coniferous Forest Complex	99	189.38	0.13	0.15							2	2.69	1.42				2	2.69	1.42	3	6.00	3.17
Clay Plain Mixed Forest Complex	704	1,373.56	0.92	1.11							19	26.75	1.95	2	2.13	0.15	21	28.88	2.10	25	94.25	6.86
Clay Plain Deciduous Forest Complex	849	3,751.81	2.50	3.03							17	101.13	2.70	5	8.38	0.22	23	109.56	2.92	21	638.00	17.01
Coniferous Forest Complex on Peat and Muck	2	2.94	0.00	0.00							2	2.94	100.00				2	2.94	100.00	2	2.94	100.00
Mixed Forest Complex on Peat and Muck	14	17.31	0.01	0.01							11	15.31	88.45	2	0.94	5.42	11	15.31	88.45	11	15.31	88.45
Deciduous Forest Complex on Peat and Muck	22	78.63	0.05	0.06							19	51.88	65.98	1	20.06	25.52	18	57.19	72.73	16	66.44	84.50
Kame Moraine Coniferous Forest Complex	1	1.13	0.00	0.00																		
Kame Moraine Mixed Forest Complex	13	9.50	0.01	0.01																		
Kame Moraine Deciduous Forest Complex	17	27.94	0.02	0.02																		
Limestone Plain Coniferous Forest Complex	135	331.88	0.22	0.27																4	53.50	16.12
Limestone Plain Mixed Forest Complex	441	969.69	0.65	0.78										3	0.75	0.08	3	0.75	0.08	5	154.56	15.94
Limestone Plain Deciduous Forest Complex	314	1,479.75	0.99	1.20							4	3.81	0.26	2	0.69	0.05	6	4.50	0.30	28	305.06	20.62
Sand Plain Coniferous Forest Complex	13	19.81	0.01	0.02							1	3.44	17.35				1	3.44	17.35	1	3.44	17.35
Sand Plain Mixed Forest Complex	48	79.63	0.05	0.06							7	1.00	1.26				7	1.00	1.26	8	6.56	8.24
Sand Plain Deciduous Forest Complex	44	333.06	0.22	0.27							10	13.56	4.07	1	25.13	7.54	11	38.69	11.62	12	216.06	64.87
Till Plain Coniferous Forest Complex	1,622	3,783.25	2.52	3.06	38	55.06	1.46	122	158.56	4.19	108	257.63	6.81	30	45.31	1.20	272	471.00	12.45	278	756.75	20.00
Till Plain Mixed Forest Complex	5,403	22,175.75	14.79	17.93	59	217.06	0.98	366	1,707.19	7.70	284	1,226.56	5.53	111	385.19	1.74	679	3,153.31	14.22	671	4,031.56	18.18
Till Plain Deciduous Forest Complex	2,876	45,452.69	30.32	36.75	52	374.06	0.82	194	3,946.63	8.68	237	2,126.56	4.68	61	679.56	1.50	474	5,599.44	12.32	444	24,954.81	54.90
Wetlands																						
Bog Complex	4	6.75	0.00	0.01							2	5.31	78.70				4	6.75	100.00	4	6.75	100.00
Fen Complex	519	614.44	0.41	0.50	12	12.19	1.98	12	8.88	1.44	135	223.25	36.33	32	22.94	3.73	174	271.81	44.24	174	271.81	44.24
Marsh Complex	1,149	5,480.38	3.66	4.43	62	116.50	2.13	35	65.56	1.20	112	1,054.25	19.24	11	31.81	0.58	685	3,102.69	56.61	683	3,121.75	56.96
Swamp Complex	2,196	5,943.13	3.96	4.81	13	32.06	0.54	99	155.50	2.62	214	903.44	15.20	32	171.06	2.88	744	2,694.44	45.34	745	2,731.00	45.95
Non-Target Natural Ecological Systems																						
Coniferous Forest Complex	83	164.00	0.11	0.13	2	3.06	1.87				1	1.00	0.61				2	3.06	1.87	2	3.06	1.87
Mixed Forest Complex	244	713.75	0.48	0.58	5	2.31	0.32				1	1.31	0.18				5	2.38	0.33	5	2.38	0.33
Deciduous Forest Complex	119	2,729.69	1.82	2.21																		

	# of Patches in 6E-10	Total Area (ha) of System in 6E-10	% of Total Area (ha) of 6E-10	% of Natural Cover in 6E-10	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Ecological System																						
Other Landcover																						
Bedrock Outcrop	4	1.50	0.00	0.0				4	1.50	100.00	4	1.50	100.00				4	1.50	100.00	4	1.50	100.00
Pasture and Abandoned Fields	2,410	13,649.13	9.11		17	35.13	0.26	7	5.19	0.04	75	130.38	0.96	16	37.31	0.27	109	174.19	1.28	109	174.19	1.28
Water	3,477	24,852.08	16.58	20.09	131	42.44	0.17	389	1,627.25	6.47	368	831.44	3.30	54	192.44	0.76	845	2,513.19	9.99	880	2,515.56	10.00
Unknown Landcover	44	4,748.81	3.17																			
Anthropogenic Land Types																						
Settlement and Developed Land	2	291.63	0.19																			
Cropland	1,594	18,427.00	12.29		16	12.63	0.07	1	3.75	0.02	104	69.69	0.38	15	18.38	0.10	142	103.13	0.56	142	103.13	0.56
NRVIS Pit or Quarry	109	500.31	0.33		1	6.38	1.27				1	6.38	1.27				1	6.38	1.27	1	6.38	1.27

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Smiths Falls

Ecodistrict 6E-11

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 353,567 hectares (873,684 acres)

Land Ownership: 99.5% private, 0.5% public

Planning Authority: 47% Leeds and Grenville County, 37% Lanark County, 16% Ottawa-Carlton Region

Physiography:

This ecodistrict consists of limestone and sandstone plains with ridges of siliceous igneous bedrock. The northern boundary of Ecodistrict 6E-11 follows the transition between the Smiths Falls Limestone Plains and the clay plains and drumlinized till plains of 6E-12. The shallow till and rock ridges of 5E-11 form the western boundary, and the clay plains of 6E-12 form the eastern boundary. The southern boundary follows the transition between the limestone plains and kame moraines of 6E-11 and the shallow till and bare rock ridges of 6E-10.

Remaining Natural Cover:

Sixty percent of the ecodistrict remains as natural cover, primarily forest. Limestone plain forest makes up 41% of the remaining natural cover, largely as deciduous and mixed forest. Another third of the remaining natural cover is wetlands, primarily swamp. Over 12,500 hectares of alvars are represented in 6E-11 in the broad sense. Of this, 416 hectares are considered to be true alvars.

Land Use:

Eighteen percent of Ecodistrict 6E-11 has been converted to cropland (64,056 ha) and an additional 72,002 hectares are pastures and abandoned fields. Lands associated with agriculture account for 38% of the ecodistrict. Over 2,000 hectares are gravel pits and quarries, and more than 2,000 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Approximately 14% of Ecodistrict 6E-11 (47,756 ha) is conservation land.



Over two-thirds of these areas (37,289 ha) are provincially significant wetlands. Over 18,600 hectares have been designated as provincially significant life science ANSIs, of which 513 hectares coincide with provincial parks. Half of the occurrences of species and vegetation community targets are within identified conservation lands, primarily provincially significant wetlands and life science ANSIs.

Species Targets:

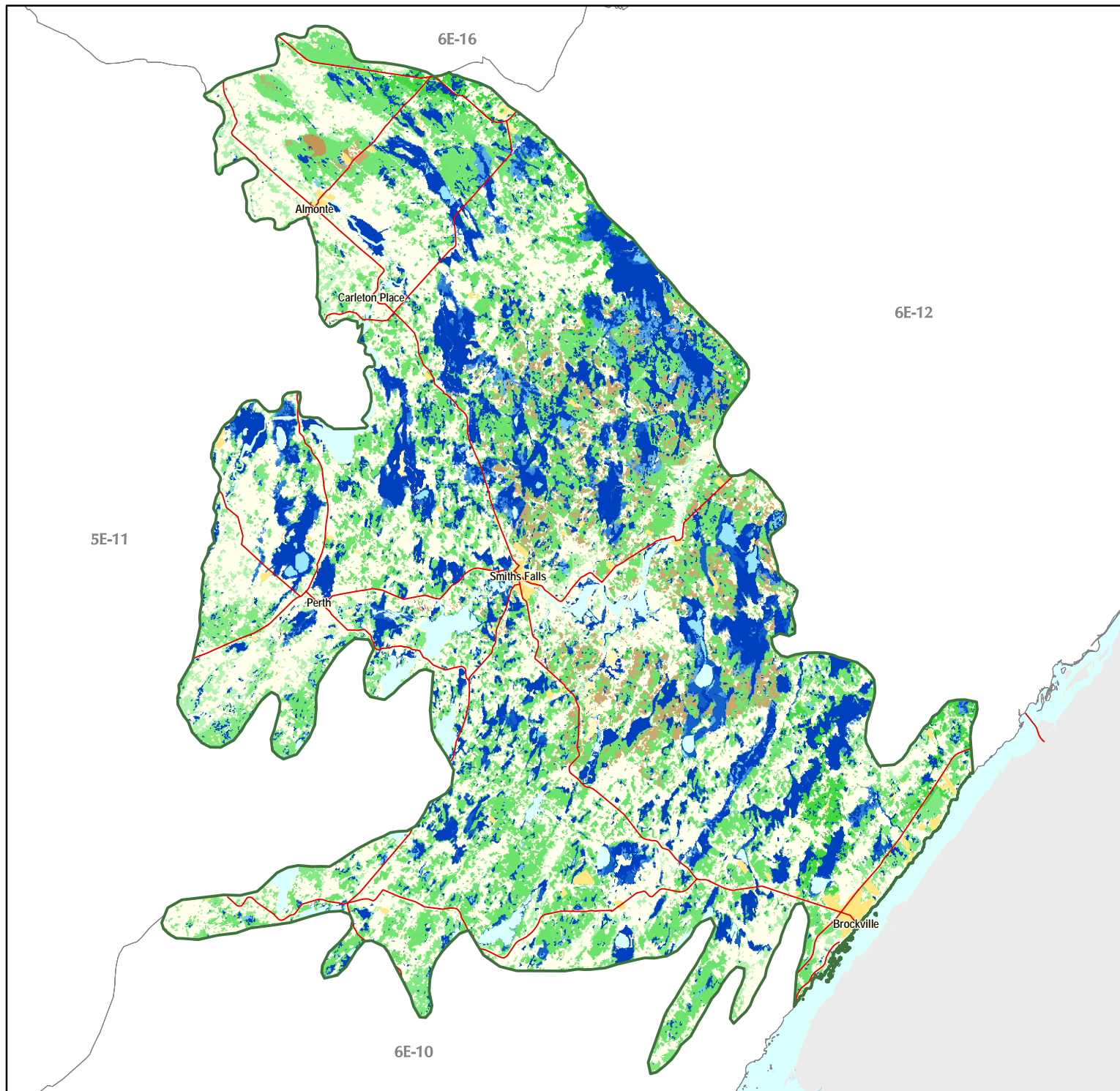
The 19 targeted species occurring in Ecodistrict 6E-11 are plants, birds, reptiles, insects and mammals. Twelve of these species have been designated as species at risk including the Endangered Loggerhead Shrike (*Lanius ludovicianus*) and American Ginseng (*Panax quinquefolius*).

Vegetation Community Targets:

Six of the 10 significant vegetation communities identified within 6E-11 are globally rare, including Philadelphia Panic Grass - False Pennyroyal Alvar Pavement. Five vegetation communities are provincially rare, and another four are considered to be high-quality representative vegetation communities that are important to conservation.

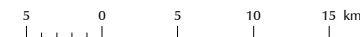
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 6E-11 includes 25% of all remaining natural cover, and 56% of the occurrences of species and vegetation community targets.

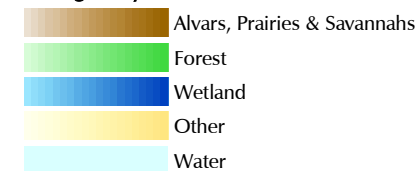


Great Lakes Conservation Blueprint for Biodiversity

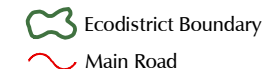
SMITH FALLS ECODISTRICT 6E-11



Ecological Systems



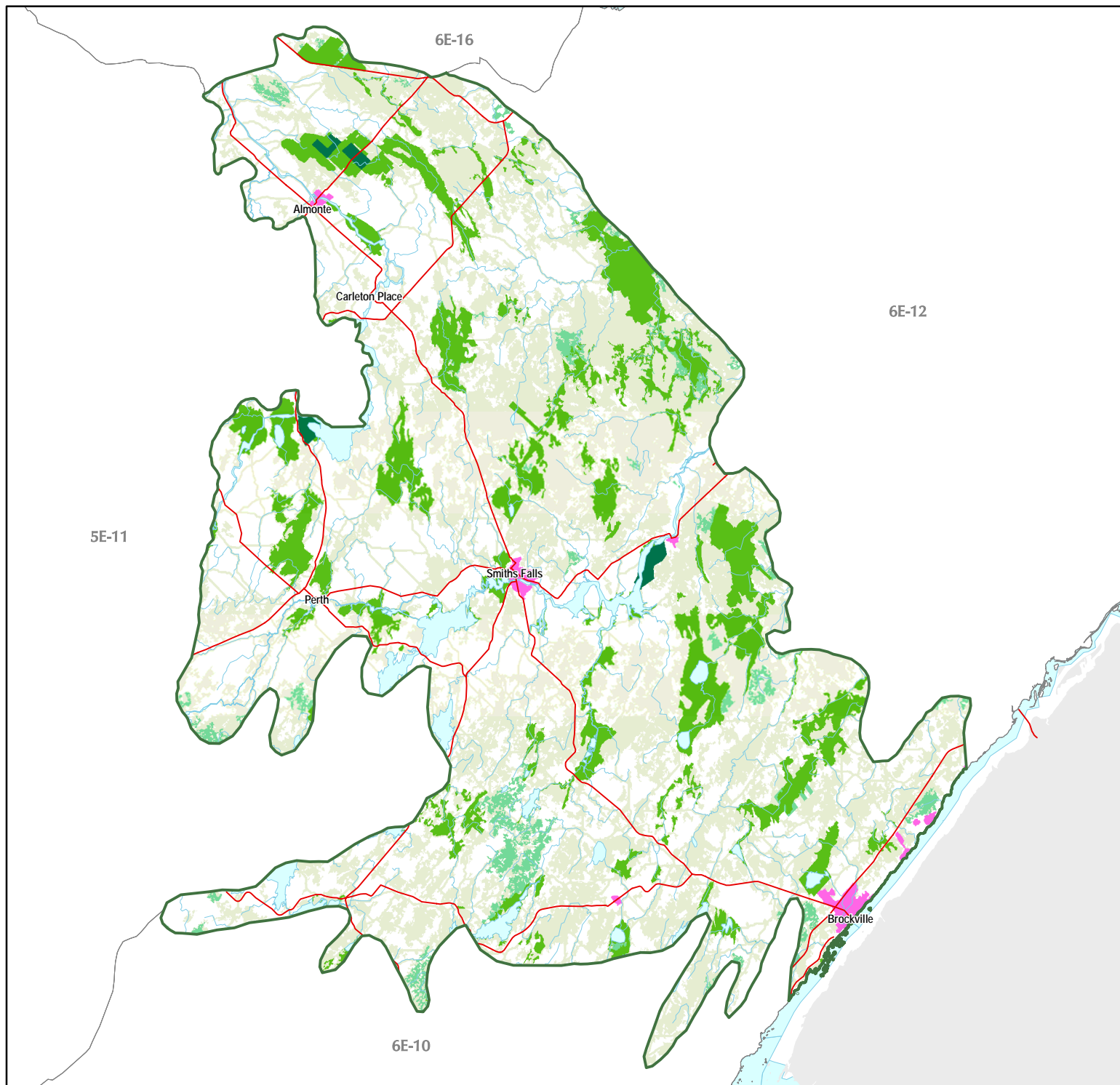
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

SMITH FALLS ECODISTRICT 6E-11



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Documented extant vegetation community and species targets in Ecodistrict 6E-11

Number of pops in 6E-11	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3	S2			GRank	0	0	0	0	0	1	100	4
3	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	33	67	0	100	3	100	4
5	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	60	0	60	3	60	2
3	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	67	0	100	3	100	all viable
Mosses															
1	<i>Bryum gemmiparum</i>	A Moss	G3G5	S1			disjunct?	0	0	0	0	0	1	100	4
Birds															
8	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	13	0	25	2	25	secondary
22	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	18	9	64	14	64	secondary
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
3	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	0	0		0	secondary
8	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	25	13	88	7	88	secondary
19	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0		0	secondary
Reptiles															
4	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	50	25	75	3	75	secondary
2	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	0	0	0	100	1	100	secondary
Lepidoptera															
2	<i>Chlosyne gorgone</i>	Gorgone Crescentspot	G5	S2			disjunct	0	0	0	0	0	2	100	3
1	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	0	100	0	100	1	100	2
Odonata															
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	0	1	100	2
3	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	67	0	67	2	67	2
Mammals															
1	<i>Urocyon cinereoargenteus</i>	Grey Fox	G5	SZB?	THR	THR	SAR	0	0	0	0	0		0	secondary
Communities															
2	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type		G2?	S2			GRank	0	50	50	0	50	2	100	all viable
1	Cotton-grass Graminoid Bog Type		G3G4	S5			GRank	0	0	100	0	100	1	100	all viable
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	0	100	0	100	1	100	secondary

Number of pops in 6E-11	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
1	Leatherleaf Shrub Bog Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type		G1Q	S1			GRank	0	100	100	0	100	1	100	all viable
1	Pitch Pine Treed Granite Barren Type		G3G5	S1			GRank	0	0	0	0	0	1	100	all viable
1	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Sweet Gale Shrub Fen Type		G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type		G2G3?	S2S3			GRank	0	100	100	0	100	1	100	all viable
1	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type		G3?	S3			GRank	0	100	100	0	100	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-11

Ecological System	# of patches in 6E-11	Total Area (ha) in 6E-11	% of Total Area (ha) of 6E-11	% Natural Cover in 6E-11	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Forests	33,675	122,522.38	34.65	57.49	111	220.44	0.18	70	223.56	0.18	2,065	4,734.06	3.86	247	445.06	0.36	2,484	5,438.00	4.44	2,551	11,593.06	9.46
Alvars	2,447	12,562.69	3.55	5.89	9	35.31	0.28	28	226.69	1.80	174	646.13	5.14	3	8.25	0.07	189	689.88	5.49	194	1,258.19	10.02
Wetlands	8,904	67,922.56	19.21	31.87	58	196.13	0.29	1	0.06	0.00	1,052	11,909.00	17.53	151	618.19	0.91	2,702	38,031.69	55.99	2,658	38,801.75	57.13
All ecological systems	63321	362776.56	100.00	100.00	256	999.06	0.28	130	515.31	0.14	4242	18646.38	5.14	520	1423.75	0.39	7059	47755.88	13.16	7092	55399.06	15.27

Ecological systems details for Ecodistrict 6E-11

Ecological System	# of patches in 6E-11	Total Area (ha) in 6E-11	% of Total Area (ha) of 6E-11	% Natural Cover in 6E-11	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																						
Forests																						
Clay Plain Coniferous Forest Complex	376	1,069.31	0.30	0.50	2	2.31	0.22	6	22.63	2.12	27	49.25	4.61	4	4.50	0.42	33	56.06	5.24	34	130.63	12.22
Clay Plain Mixed Forest Complex	1,477	2,668.69	0.75	1.25	13	14.50	0.54	4	6.75	0.25	31	26.44	0.99	8	11.19	0.42	54	52.56	1.97	57	113.06	4.24
Clay Plain Deciduous Forest Complex	1,794	6,410.38	1.81	3.01	10	12.25	0.19	1	1.38	0.02	33	36.38	0.57	13	55.75	0.87	64	106.69	1.66	74	278.81	4.35
Coniferous Forest Complex on Peat and Muck	863	2,904.38	0.82	1.36							149	366.31	12.61	16	15.38	0.53	166	381.75	13.14	169	583.19	20.08
Mixed Forest Complex on Peat and Muck	1,481	2,356.06	0.67	1.11							234	297.25	12.62	21	16.63	0.71	257	314.00	13.33	259	390.81	16.59
Deciduous Forest Complex on Peat and Muck	1,041	2,905.81	0.82	1.36							153	310.81	10.70	15	37.69	1.30	173	348.81	12.00	171	349.94	12.04
Kame Moraine Coniferous Forest Complex	11	12.44	0.00	0.01																		
Kame Moraine Mixed Forest Complex	28	92.06	0.03	0.04																2	34.19	37.14
Kame Moraine Deciduous Forest Complex	46	170.00	0.05	0.08																2	56.19	33.05
Limestone Plain Coniferous Forest Complex	4,121	17,905.00	5.06	8.40	9	26.69	0.15	22	132.38	0.74	278	1,887.31	10.54	17	13.19	0.07	304	1,927.94	10.77	297	2,972.81	16.60
Limestone Plain Mixed Forest Complex	10,371	28,496.13	8.06	13.37	35	76.13	0.27	32	55.81	0.20	669	939.50	3.30	38	53.31	0.19	741	1,070.13	3.76	750	1,416.69	4.97
Limestone Plain Deciduous Forest Complex	7,053	40,083.69	11.34	18.81	32	69.31	0.17	5	4.63	0.01	333	688.81	1.72	31	107.13	0.27	407	858.50	2.14	422	3,550.56	8.86
Sand Plain Coniferous Forest Complex	461	1,740.19	0.49	0.82							19	32.88	1.89	4	4.06	0.23	31	52.56	3.02	33	135.94	7.81
Sand Plain Mixed Forest Complex	930	2,173.56	0.61	1.02							25	12.13	0.56	19	14.81	0.68	60	43.88	2.02	62	146.94	6.76
Sand Plain Deciduous Forest Complex	750	2,963.19	0.84	1.39							22	10.13	0.34	19	33.94	1.15	48	54.56	1.84	56	176.50	5.96
Till Plain Coniferous Forest Complex	428	1,054.06	0.30	0.49							14	5.88	0.56	1	0.06	0.01	15	5.94	0.56	17	7.06	0.67
Till Plain Mixed Forest Complex	1,333	3,521.69	1.00	1.65	3	0.81	0.02				38	23.50	0.67	15	55.56	1.58	59	80.06	2.27	66	392.75	11.15
Till Plain Deciduous Forest Complex	1,111	5,995.75	1.70	2.81	7	18.44	0.31				40	47.50	0.79	26	21.88	0.36	72	84.56	1.41	80	857.00	14.29
Alvar	2,444	12,267.19	3.47	5.76	9	35.31	0.29	25	124.38	1.01	171	350.63	2.86	3	8.25	0.07	186	394.38	3.21	191	962.69	7.85
Alvar Grassland	3	295.50	0.08	0.14				3	102.31	34.62	3	295.50	100.00				3	295.50	100.00	3	295.50	100.00
Wetlands																						
Bog Complex	33	1,271.56	0.36	0.60							10	625.56	49.20				30	1,251.94	98.46	30	1,251.94	98.46
Fen Complex	1,360	2,422.06	0.69	1.14	1	0.75	0.03				120	342.06	14.12	12	7.38	0.30	140	504.38	20.82	140	504.38	20.82
Marsh Complex	2,394	8,370.38	2.37	3.93	29	55.38	0.66				477	2,416.25	28.87	56	269.25	3.22	1,291	5,788.75	69.16	1,283	5,844.88	69.83
Swamp Complex	5,117	55,858.56	15.80	26.21	28	140.00	0.25	1	0.06	0.00	445	8,525.13	15.26	83	341.56	0.61	1,241	30,486.63	54.58	1,205	31,200.56	55.86
Other Landcover																						
Bedrock Outcrop	42	208.25	0.06	0.10							8	0.56	0.27				8	0.56	0.27	11	150.19	72.12
Pasture and Abandoned Fields	8,737	72,001.81	20.36		40	202.88	0.28	7	1.81	0.00	446	205.88	0.29	36	102.19	0.14	535	577.00	0.80	535	577.00	0.80

Ecological System	# of patches in 6E-11	Total Area (ha) in 6E-11	% of Total Area (ha) of 6E-11	% Natural Cover in 6E-11	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Other Landcover continued																						
Water	3,382	9,914.28	2.80	4.65	16	248.63	2.50				149	906.88	9.11	61	207.69	2.09	716	2,600.19	26.13	718	2,600.31	26.13
Unknown Landcover	1	9,183.81	2.60																			
Anthropogenic Land Types																						
Settlement and Developed Land	19	2,113.44	0.60								4	0.88	0.04	4	0.25	0.01	8	1.13	0.05	8	1.13	0.05
Anthropogenic Land Types continued																						
Cropland	5,705	64,055.88	18.12		22	95.69	0.15	24	63.19	0.10	337	171.56	0.27	18	42.13	0.07	409	342.63	0.53	409	342.63	0.53
NRVIS Pit or Quarry	409	2,254.81	0.64								7	71.44	3.17				8	74.81	3.32	8	74.81	3.32

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Kemptville

Ecodistrict 6E-12

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 774,847 hectares (1,914,688 acres)

Land Ownership: 98% private, 2% public, 0.1% First Nations lands

Planning Authority: 43% Stormont Dundas and Glengarry County, 25% Prescott and Russell County, 22% Ottawa-Carlton Region, 10% Leeds and Grenville County

Physiography:

This ecodistrict can be described as a plain of limestone and sandstone bedrock covered with sand, silt, lime clay and loam. The western boundary contains the Edwardsburg Sand Plain and North Gower Drumlin Field. The southern and eastern portions of the ecodistrict include the Glengarry Till Plain as well as the Lancaster Flats along the St. Lawrence River. The central portion of 6E-12 contains the Winchester Clay Plain. The northern boundary includes portions of the Russell and Prescott Sand Plains and the Ottawa Valley Clay Flats along the Ottawa River.

Remaining Natural Cover:

Over 37% of the ecodistrict remains as natural cover, primarily forest. Sand plain deciduous forest complex accounts for 19% of the remaining natural cover, followed by till plain deciduous forest (17%) and clay plain deciduous forest (10%). Twenty-two percent of the remaining natural cover is wetland, primarily swamp. There are also over 1,500 hectares of alvars in 6E-12, in the broad sense; of which none are considered to be true alvars.

Land Use:

Nearly 40% of 6E-12 has been converted to developed agricultural lands (292,803 ha), with an additional 158,020 hectares of pasture and abandoned field. Lands associated with agriculture represent nearly 60% of the ecodistrict. Over 6,600 hectares are gravel pits and quarries, and over 23,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Approximately 6% of Ecodistrict 6E-12 (43,916 ha) is conservation land. Provincially significant wetlands represent nearly 90% of this area (39,235 ha). Over 16,000 hectares are identified as provincially significant life science ANSIs. Over half of the occurrences of species and vegetation community targets are within conservation lands, primarily provincially significant wetlands and life science ANSIs.

Species Targets:

The 18 targeted species occurring in 6E-12 are plants, birds, reptiles and insects. Nine of these species are at risk, including the Endangered American Ginseng (*Panax quinquefolius*) and Loggerhead Shrike (*Lanius ludovicianus*). There are also several occurrences of globally rare insects such as the Elusive Clubtail (*Stylurus notatus*) and the Ebony Boghaunter (*Williamsonia fletcheri*).

Vegetation Community Targets:

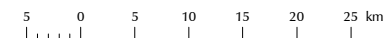
One of the 10 significant vegetation communities identified within 6E-12 is globally rare, one is provincially rare, and another 10 are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

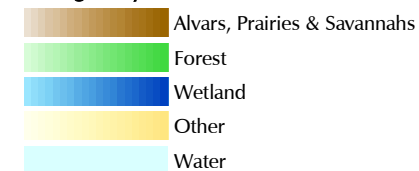
The Conservation Blueprint portfolio in Ecodistrict 6E-12 includes approximately 18% of all remaining natural cover, and nearly 80% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

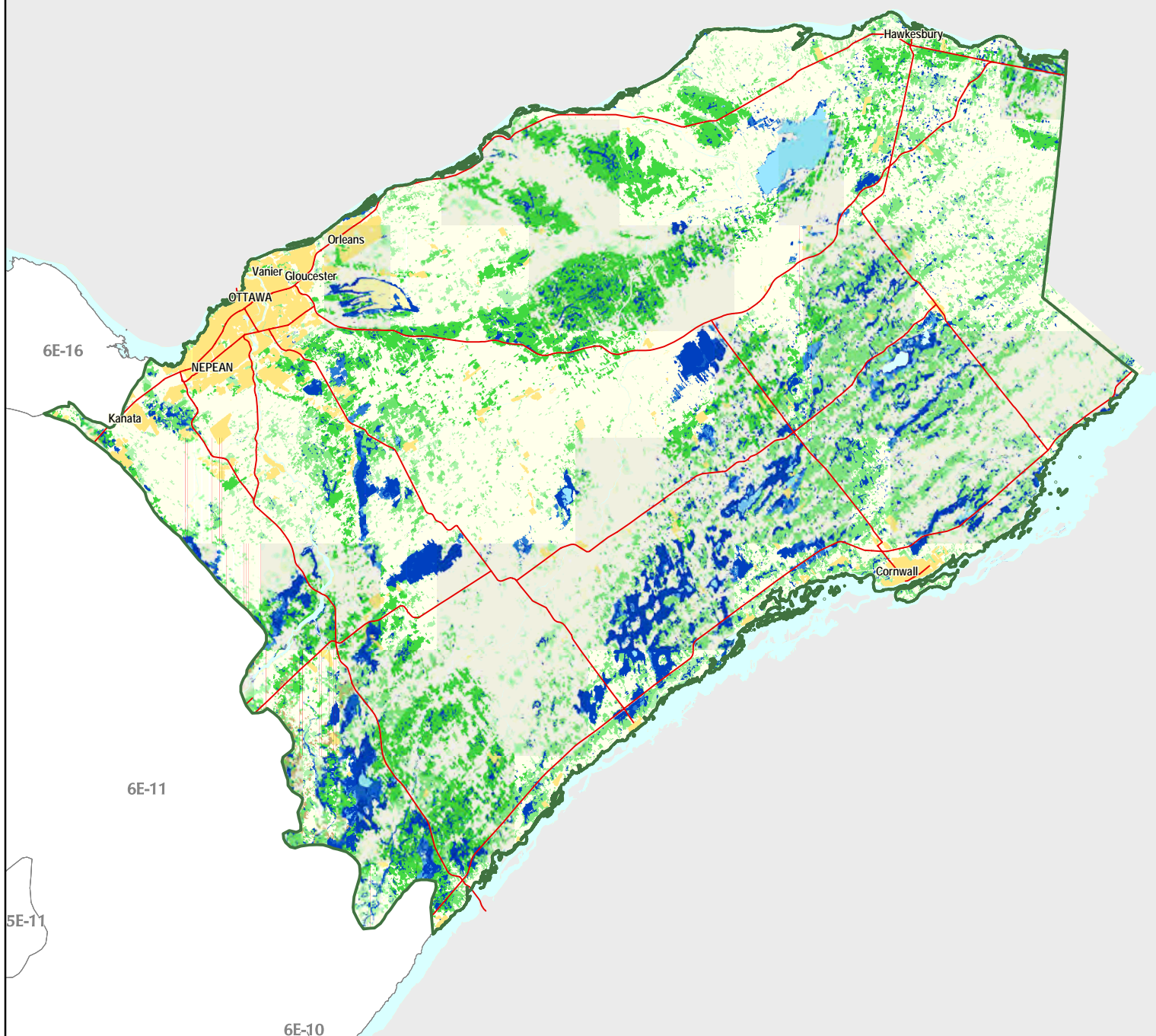
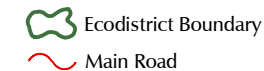
KEMPTVILLE ECODISTRICT 6E-12



Ecological Systems



Other Information



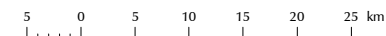
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Great Lakes Conservation Blueprint for Biodiversity

KEMPTVILLE ECODISTRICT 6E-12



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

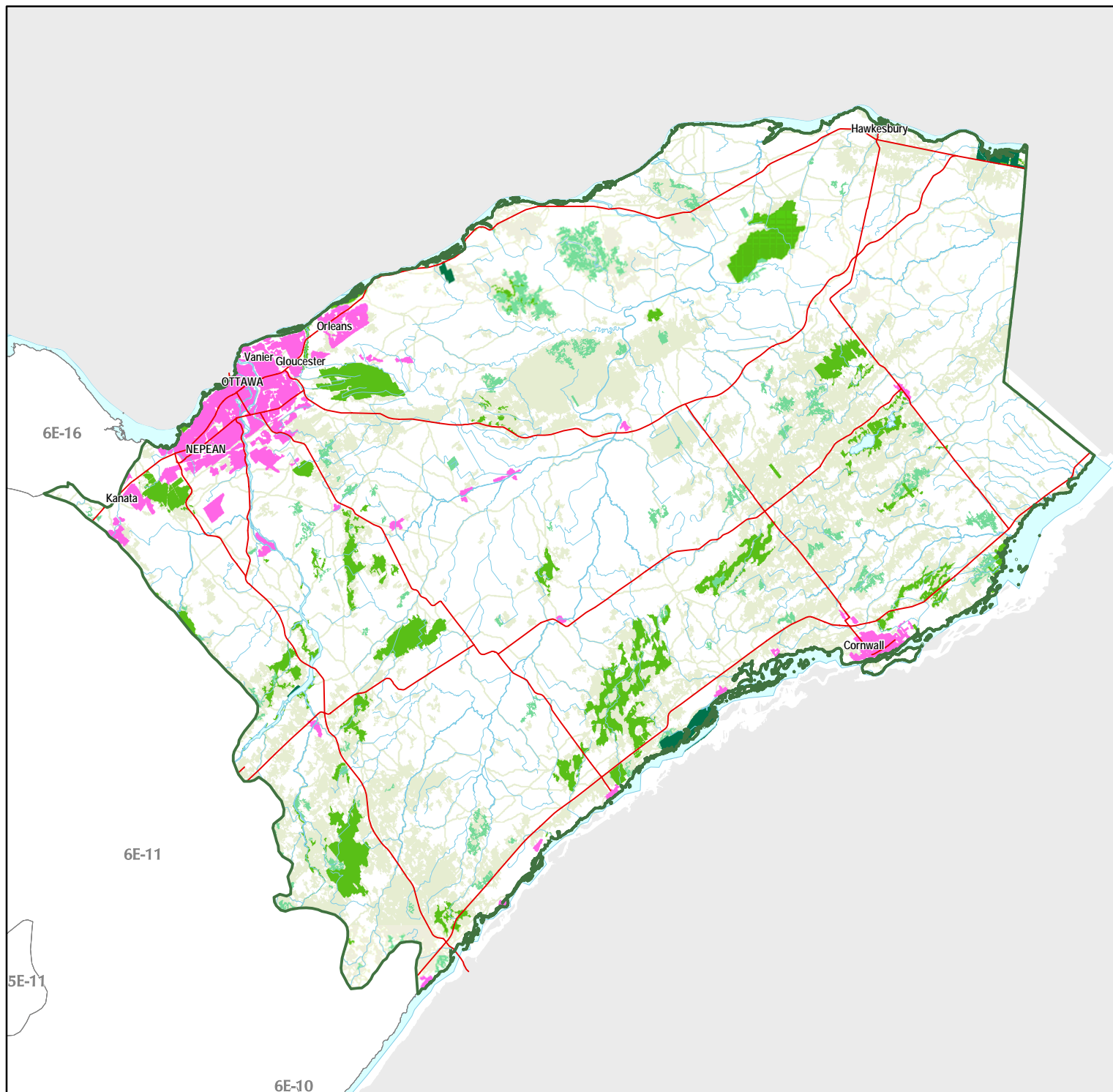
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- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Documented extant vegetation community and species targets in Ecodistrict 6E-12

Number of pops in 6E-12	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	50	0	50	2	100	4
1	<i>Gratiola aurea</i>	Golden Hedge-hyssop	G5	S4?			disjunct	0	0	0	0	0	1	100	3
3	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	0	33	33	2	67	2
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	0	100	100	1	100	all viable
3	<i>Thelypteris simulata</i>	Bog Fern	G4G5	S1			disjunct	0	0	33	0	67	3	100	3
Bryophytes															
1	<i>Plagiothecium latebricola</i>	Lurking Leskea	G3G4	S2			GRank	0	0	0	0	0	1	100	2
Birds															
1	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	0	0	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	50	2	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	1	100	secondary
3	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
2	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	100	0	100	2	100	secondary
1	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Lepidoptera															
3	<i>Callophrys lanoraieensis</i>	Bog Elfin	G3G4	S1			GRank	0	0	33	0	33	2	67	2
3	<i>Chlosyne gorgone</i>	Gorgone Crescentspot	G5	S2			disjunct	0	0	0	0	0	3	100	3
Odonata															
1	<i>Gomphus quadricolor</i>	Rapids Clubtail	G3G4	S1			GRank	0	0	0	0	0	1	100	2
4	<i>Stylurus notatus</i>	Elusive Clubtail	G3	S2			GRank	0	0	0	0	50	2	50	2
3	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	67	33	100	3	100	2
Communities															
1	Black Spruce - Tamarack - Leatherleaf Patterned Fen Type		G4	S5			high quality	0	0	100	0	100	1	100	secondary
1	Black Spruce Coniferous Organic Swamp Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Black Spruce Treed Bog Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Cattail Organic Shallow Marsh Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
1	Cotton-grass Graminoid Bog Type		G3G4	S5			GRank	0	0	100	0	100	1	100	all viable
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Gray Birch Treed Fen Type		G4?	S2S3			SRank	0	0	100	0	100	1	100	3
1	Leatherleaf - Forb Shrub Fen Type		G5	S5			high quality	0	0	100	0	100	1	100	secondary
2	Leatherleaf Shrub Bog Type		G5	S5			high quality	0	0	100	0	100	2	100	secondary
1	Tamarack Treed Fen Type		G4?	S5			high quality	0	0	100	0	100	1	100	secondary

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The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-12

Ecological System	# patches in 6E-12	Total Area (ha) of System in 6E-12	% of Total Area (ha) of 6E-12	% of Natural Cover in 6E-12	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Forests	48,813	218,692.31	28.22	74.96	169	479.06	0.22	191	425.13	0.19	1,455	3,359.38	1.54	170	347.19	0.16	2,034	4,648.44	2.13	2,123	18,771.24	8.58
Alvars	409	1,533.56	0.20	0.53							10	3.50	0.23				10	3.50	0.23	15	58.56	3.82
Wetlands	11,124	65,190.44	8.41	22.34	116	439.38	0.67	83	238.06	0.37	802	9,913.00	15.21	115	419.06	0.64	2,182	31,933.94	48.99	2,188	32,807.44	50.33
All ecological systems	97954	775690.53	100.00	100.00	471	2687.69	0.35	401	1514.69	0.20	3330	16019.13	2.07	522	981.50	0.13	6204	43916.13	5.66	6313	59463.12	7.67

Ecological systems details for Ecodistrict 6E-12

Ecological System	# patches in 6E-12	Total Area (ha) of System in 6E-12	% of Total Area (ha) of 6E-12	% of Natural Cover in 6E-12	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																						
Forests																						
Clay Plain Coniferous Forest Complex	750	1,865.69	0.24	0.64	11	11.19	0.60	3	6.31	0.34	20	34.19	1.83	2	0.81	0.04	34	51.63	2.77	40	115.94	6.21
Clay Plain Mixed Forest Complex	3,083	5,747.00	0.74	1.97	17	18.13	0.32	8	8.44	0.15	85	146.13	2.54	10	10.94	0.19	115	179.13	3.12	120	282.63	4.92
Clay Plain Deciduous Forest Complex	6,288	30,415.13	3.93	10.42	18	94.13	0.31	6	38.63	0.13	111	204.31	0.67	38	85.88	0.28	178	401.81	1.32	176	2,277.69	7.49
Coniferous Forest Complex on Peat and Muck	643	1,872.31	0.24	0.64							81	194.81	10.40	16	31.63	1.69	98	226.50	12.10	103	427.19	22.82
Mixed Forest Complex on Peat and Muck	1,286	1,710.19	0.22	0.59							112	125.13	7.32	14	4.75	0.28	128	130.00	7.60	136	246.19	14.40
Deciduous Forest Complex on Peat and Muck	1,630	5,619.13	0.73	1.93							166	274.94	4.89	8	31.31	0.56	186	329.81	5.87	193	1,056.75	18.81
Limestone Plain Coniferous Forest Complex	380	1,273.50	0.16	0.44							47	159.44	12.52	7	8.31	0.65	54	167.75	13.17	59	354.31	27.82
Limestone Plain Mixed Forest Complex	1,080	3,279.88	0.42	1.12							137	314.88	9.60	5	28.19	0.86	144	343.19	10.46	151	586.06	17.87
Limestone Plain Deciduous Forest Complex	1,090	5,469.06	0.71	1.87							78	282.56	5.17	3	5.06	0.09	83	287.75	5.26	88	861.31	15.75
Sand Plain Coniferous Forest Complex	1,704	8,304.44	1.07	2.85				32	68.56	0.83	54	118.50	1.43	1	1.75	0.02	87	187.13	2.25	92	1,030.94	12.41
Sand Plain Mixed Forest Complex	6,228	17,054.88	2.20	5.85	7	14.31	0.08	34	58.38	0.34	154	132.75	0.78	2	0.81	0.00	200	210.69	1.24	208	1,214.55	7.12
Sand Plain Deciduous Forest Complex	5,292	55,953.63	7.22	19.18	8	81.19	0.15	52	151.25	0.27	126	275.19	0.49	3	17.56	0.03	201	542.06	0.97	211	5,782.56	10.33
Till Plain Coniferous Forest Complex	3,420	14,379.63	1.86	4.93	21	26.69	0.19	23	18.44	0.13	76	207.13	1.44	14	15.94	0.11	134	268.19	1.87	143	851.06	5.92
Till Plain Mixed Forest Complex	7,738	14,995.88	1.94	5.14	37	44.06	0.29	17	14.13	0.09	122	141.38	0.94	21	24.88	0.17	201	226.31	1.51	206	433.06	2.89
Till Plain Deciduous Forest Complex	8,201	50,752.00	6.55	17.40	50	189.38	0.37	16	61.00	0.12	86	748.06	1.47	26	79.38	0.16	191	1,096.50	2.16	197	3,251.00	6.41
Alvar	409	1,533.56	0.20	0.53							10	3.50	0.23				10	3.50	0.23	15	58.56	3.82
Wetlands																						
Bog Complex	58	6,056.69	0.78	2.08							3	4,593.94	75.85	2	9.06	0.15	43	5,684.44	93.85	43	5,684.44	93.85
Fen Complex	424	722.13	0.09	0.25				1	0.06	0.01	123	167.75	23.23				126	172.81	23.93	131	338.06	46.81
Marsh Complex	2,333	4,976.00	0.64	1.71	49	114.06	2.29	42	91.75	1.84	272	1,044.75	21.00	36	208.00	4.18	1,015	3,015.81	60.61	1,015	3,162.81	63.56
Swamp Complex	8,309	53,435.63	6.90	18.32	67	325.31	0.61	40	146.25	0.27	404	4,106.56	7.69	77	202.00	0.38	998	23,060.88	43.16	999	23,622.13	44.21
Non-Target Natural Ecological Systems																						
Coniferous Plantation Forest	430	2,422.31	0.31								6	43.50	1.80				12	51.50	2.13	15	380.25	15.70
Mixed Forest Complex	1	0.50	0.00	0.00																		
Deciduous Forest Complex	2	0.56	0.00	0.00																		
Other Landcover																						
Bedrock Outcrop	237	640.69	0.08	0.22							8	3.31	0.52				8	3.31	0.52	13	170.13	26.55
Pasture and Abandoned Fields	20,052	158,020.13	20.39		83	305.88	0.19	56	142.13	0.09	443	336.81	0.21	58	100.31	0.06	674	957.69	0.61	674	957.69	0.61

Ecological System	# patches in 6E-12	Total Area (ha) of System in 6E-12	% of Total Area (ha) of 6E-12	% of Natural Cover in 6E-12	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Other Landcover continued																						
Water	4,067	5,696.05	0.74	1.95	37	1,076.63	16.70	8	661.63	10.26	133	1,998.81	31.01	89	37.69	0.58	542	5,284.25	81.97	542	5,284.25	81.97
Anthropogenic Land Types																						
Settlement and Developed Land	51	23,325.19	3.01								15	32.81	0.14	4	0.25	0.00	19	33.06	0.14	19	33.06	0.14
Cropland	11,922	292,802.88	37.79		64	386.25	0.13	63	47.75	0.02	443	302.63	0.10	86	77.00	0.03	705	950.44	0.32	705	950.44	0.32
NRVIS Pit or Quarry	846	6,615.38	0.85		2	0.50	0.01				15	25.38	0.38				18	50.00	0.76	19	50.06	0.76

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Oshawa-Cobourg

Ecodistrict 6E-13

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 99,356 hectares (245,513 acres)

Land Ownership: 93% private, 7% public

Planning Authority: 51% Durham Region, 46% Northumberland County, 3% Hastings County

Physiography:

This ecodistrict is the eastern part of Hills's site district 7E-4. It extends along the Lake Ontario shoreline, from west of the Rouge River to Presqu'île Provincial Park, Trenton and the Bay of Quinte. It is made up of the Iroquois Sand Plains. The transition to drumlinized till plains of 6E-7 forms the northern boundary.

Remaining Natural Cover:

Approximately 27% of the ecodistrict remains as natural cover, primarily forest. Sand plain deciduous (19%), mixed (16%) and coniferous (15%) forest are the dominant ecological systems in the ecodistrict; together they represent half of the natural cover. Nearly 25% of the remaining natural cover is wetland, primarily swamp. There are approximately 40 hectares of alvars mapped in 6E-13, in the broad sense; of which none are considered to be true alvars. There also are 23 hectares of prairie and savannah.

Land Use:

Nearly 60% of this ecodistrict is associated with agricultural, with almost half being converted to developed agricultural lands (46,205 ha), and an additional 11,130 hectares are pastures and abandoned fields. Over 13,000 hectares are devoted to settlement and other associated developed land. This ecodistrict is highly fragmented by roads, including Highway 401 and Highway 2, which span its entire length.

Protection and Conservation:

Conservation lands cover approximately 5.5% of Ecodistrict 6E-13 (5,478



ha). Conservation Authorities have secured nearly one-third of this land (1,700 ha). Over 2,700 hectares are provincially significant wetlands, including Oshawa Second Marsh. Approximately 1,236 hectares are provincially significant life science ANSIs, of which 381 hectares coincide with provincial parks. Over half of the occurrences of species and vegetation community targets in 6E-13 are within identified conservation lands, primarily provincially significant wetlands and life science ANSIs.

Species Targets:

Two-thirds of the 12 targeted species in 6E-13 are plants. Five species are at risk, including the Endangered American Ginseng (*Panax quinquefolius*) and the Threatened Least Bittern (*Ixobrychus exilis*). There are also several occurrences of American Sea-rocket (*Cakile edentula*), a disjunct in the Great Lakes ecoregion.

Vegetation Community Targets:

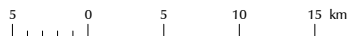
One of the eight significant vegetation communities identified within 6E-13 is globally rare, five are provincially rare, and another three are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

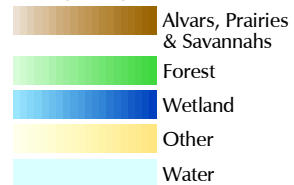
The Conservation Blueprint portfolio in Ecodistrict 6E-13 includes approximately 19% of all remaining natural cover, and 80% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

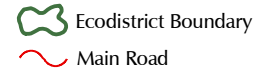
OSHAWA-COBOURG ECODISTRICT 6E-13



Ecological Systems



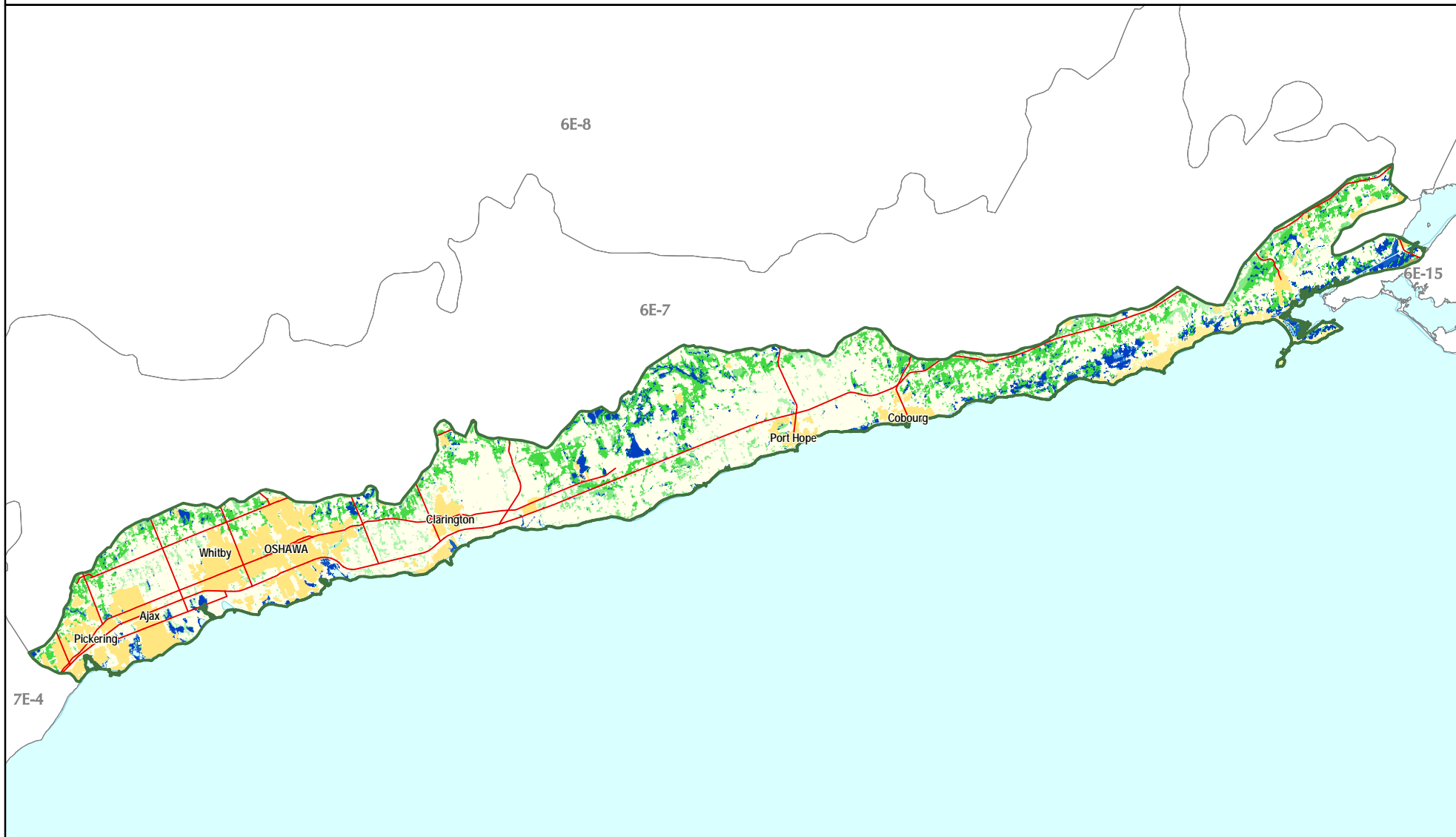
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

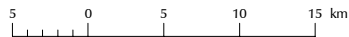
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

OSHAWA-COBOURG ECODISTRICT 6E-13



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

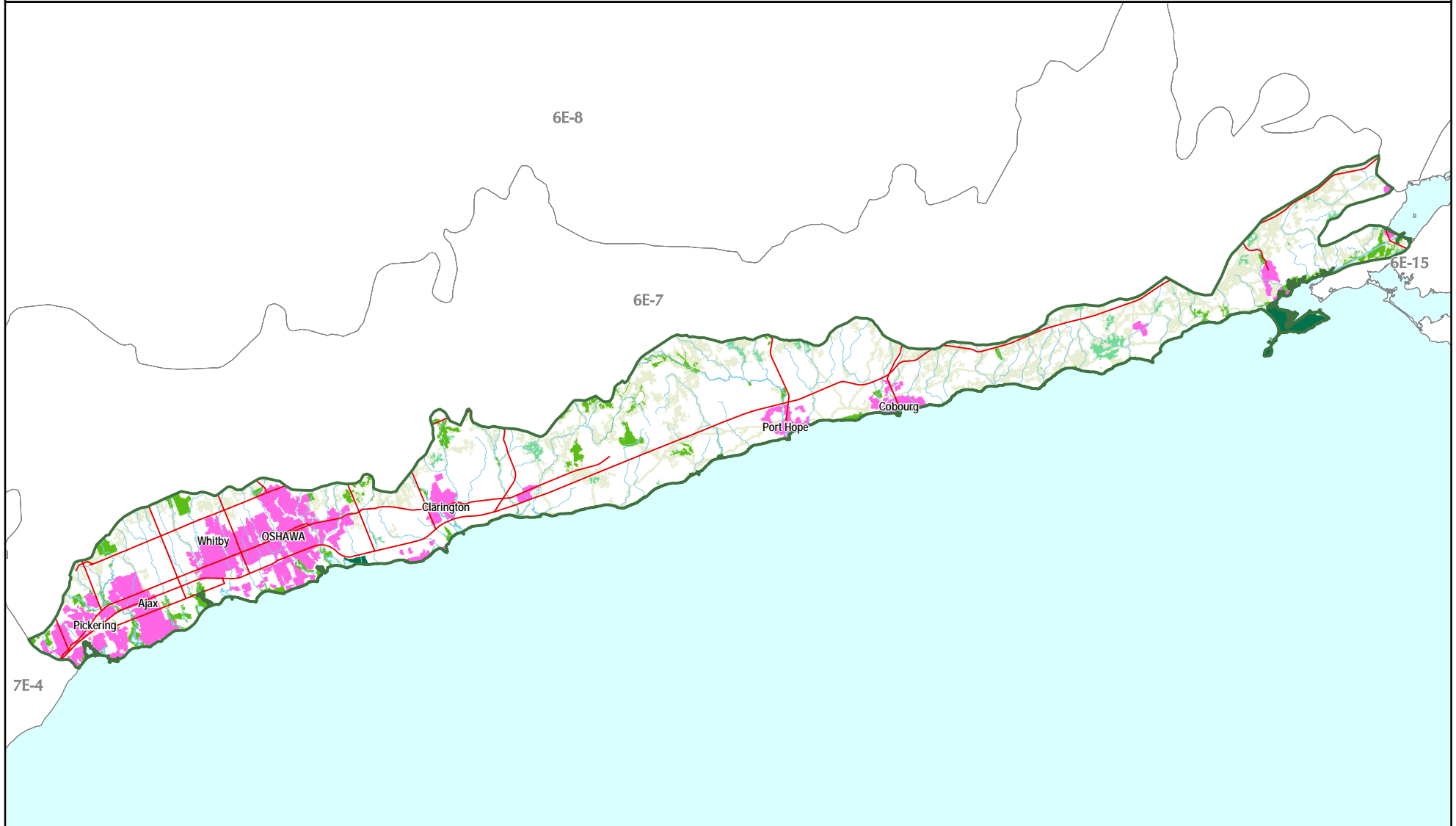
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



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Documented extant vegetation community and species targets in Ecodistrict 6E-13

Number of pops in 6E-13	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
8	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	25	25	0	25	4	50	3
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	1	100	2
1	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	100	0	0	100	1	100	4
1	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	0	0	0	100	1	100	3
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	100	0	100	1	100	2
2	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	0	50	0	0	50	2	100	3
Birds															
6	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	17	33	17	83	5	83	secondary
5	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	20	60	0	80	4	80	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	100	100	1	100	secondary
3	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	33	67	0	100	3	100	secondary
Communities															
1	Dry - Fresh Red Oak Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry - Fresh White Pine - Sugar Maple Mixed Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry Black Oak - White Oak Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	1	100	3
1	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	0	0	0	0	1	100	3
1	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	100	100	0	100	1	100	3
1	Hay Sedge Sand Barren Type		G?	S1			SRank	0	0	0	0	0	1	100	all viable
1	Little Bluestem - Switchgrass - Beachgrass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
2	Moist - Fresh Hemlock - Sugar Maple Mixed Forest Type		G4G5	S4S5			high quality	0	0	50	0	50	2	100	secondary

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Ecological systems summary for Ecodistrict 6E-13

Ecological System	# of patches in 6E-13	Total Area (ha) in 6E-13	% of Total Area of 6E-13	% Natural Cover in 6E-13	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in Blueprint	% of System in the Blueprint
Target Forests	7,876	19,981.13	20.11	74.95	59	86.13	0.43	213	219.31	1.10	413	597.00	2.99	640	868.69	4.35	690	1,623.93	8.13
Alvars	4	39.81	0.04	0.15													2	38.06	95.60
Prairies and savannahs	15	22.50	0.02	0.08													3	16.63	73.89
Wetlands	1,630	6,189.56	6.23	23.22	79	315.50	5.10	166	631.44	10.20	232	385.13	6.22	810	2,968.06	47.95	806	3,325.50	53.73
All ecological systems	15479	103037.52	100.00	100.00	258	1097.50	1.07	627	1235.75	1.20	1148	1700.06	1.65	2266	5477.75	5.32	2317	6653.99	6.46

Ecological systems details for Ecodistrict 6E-13

Ecological System	# of patches in 6E-13	Total Area (ha) in 6E-13	% of Total Area of 6E-13	% Natural Cover in 6E-13	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Beach and Shorecliff Coniferous Forest Complex	26	39.38	0.04	0.15				2	0.56	1.43				2	0.56	1.43	4	4.75	12.06
Beach and Shorecliff Mixed Forest Complex	35	64.00	0.06	0.24				2	1.06	1.66	3	12.69	19.82	5	13.75	21.48	7	17.63	27.54
Beach and Shorecliff Deciduous Forest Complex	37	82.13	0.08	0.31				2	1.06	1.29	5	8.88	10.81	7	9.94	12.10	9	31.06	37.82
Clay Plain Coniferous Forest Complex	130	358.13	0.36	1.34	4	4.25	1.19	6	14.13	3.94	11	18.44	5.15	21	36.81	10.28	23	90.00	25.13
Clay Plain Mixed Forest Complex	233	331.75	0.33	1.24	2	2.25	0.68	4	0.63	0.19	20	12.94	3.90	25	15.56	4.69	25	23.88	7.20
Clay Plain Deciduous Forest Complex	769	1,749.00	1.76	6.56	14	31.31	1.79	19	12.69	0.73	51	48.00	2.74	65	80.50	4.60	69	146.63	8.38
Coniferous Forest Complex on Peat and Muck	6	30.25	0.03	0.11															
Mixed Forest Complex on Peat and Muck	14	31.06	0.03	0.12															
Deciduous Forest Complex on Peat and Muck	9	14.50	0.01	0.05															
Kame Moraine Coniferous Forest Complex	47	117.56	0.12	0.44													2	6.06	5.16
Kame Moraine Mixed Forest Complex	108	216.13	0.22	0.81													6	14.94	6.91
Kame Moraine Deciduous Forest Complex	95	317.13	0.32	1.19													2	75.75	23.89
Limestone Plain Coniferous Forest Complex	15	16.00	0.02	0.06	15	16.00	100.00	11	5.31	33.20				15	16.00	100.00	15	16.00	100.00
Limestone Plain Mixed Forest Complex	17	21.56	0.02	0.08	16	20.56	95.36	8	2.94	13.62				16	20.56	95.36	16	20.56	95.36
Limestone Plain Deciduous Forest Complex	8	13.69	0.01	0.05	8	11.75	85.84	2	1.81	13.24				8	11.75	85.84	8	11.75	85.84
Sand Plain Coniferous Forest Complex	1,116	4,092.75	4.12	15.35				14	27.06	0.66	59	124.88	3.05	71	147.56	3.61	74	265.06	6.48
Sand Plain Mixed Forest Complex	1,734	4,167.19	4.19	15.63				21	28.69	0.69	88	136.31	3.27	110	164.63	3.95	113	333.31	8.00
Sand Plain Deciduous Forest Complex	1,847	4,996.69	5.03	18.74				16	18.31	0.37	114	179.50	3.59	137	198.25	3.97	141	296.69	5.94
Till Moraine Coniferous Forest Complex	17	52.06	0.05	0.20													2	17.50	33.61
Till Moraine Mixed Forest Complex	31	66.88	0.07	0.25													2	3.06	4.58
Till Moraine Deciduous Forest Complex	33	71.31	0.07	0.27													2	6.94	9.73
Till Plain Coniferous Forest Complex	365	792.75	0.80	2.97				18	41.31	5.21	15	17.69	2.23	32	57.81	7.29	33	93.36	11.78
Till Plain Mixed Forest Complex	477	808.94	0.81	3.03				46	31.69	3.92	16	15.50	1.92	62	46.19	5.71	64	91.00	11.25
Till Plain Deciduous Forest Complex	707	1,530.31	1.54	5.74				42	32.06	2.10	31	22.19	1.45	64	48.81	3.19	73	58.00	3.79
Alvar	4	39.81	0.04	0.15													2	38.06	95.60
Prairies and Savannahs	15	22.50	0.02	0.08													3	16.63	73.89
Wetlands																			
Bog Complex	1	1.56	0.00	0.01										1	1.56	100.00	1	1.56	100.00
Fen Complex	5	28.13	0.03	0.11	5	28.13	100.00	4	26.19	93.11				5	28.13	100.00	5	28.13	100.00
Marsh Complex	406	972.13	0.98	3.65	36	150.75	15.51	70	308.63	31.75	88	118.81	12.22	368	838.13	86.22	365	866.69	89.15
Swamp Complex	1,218	5,187.75	5.22	19.46	38	136.63	2.63	92	296.63	5.72	144	266.31	5.13	436	2,100.25	40.48	435	2,429.13	46.82
Other Landcover																			
Bedrock Outcrop	17	141.75	0.14	0.53	4	78.56	55.42	10	29.63	20.90	1	0.06	0.04	4	79.00	55.73	4	87.94	62.04

Ecological System	# of patches in 6E-13	Total Area (ha) in 6E-13	% of Total Area of 6E-13	% Natural Cover in 6E-13	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in Blueprint	% of System in the Blueprint
Other Landcover continued																			
Pasture and Abandoned Fields	3,763	11,129.81	11.20		27	82.50	0.74	50	25.19	0.23	129	112.88	1.01	202	210.31	1.89	202	210.31	1.89
Unclassified (cloud & shadow)	130	4,601.56	4.63		19	237.06	5.15	6	53.38	1.16	2	1.25	0.03	22	240.69	5.23	22	240.69	5.23
Water	369	285.38	0.29	1.07	48	251.63	64.59	62	172.81	44.36	55	33.75	8.66	152	416.00	106.78	152	416.00	106.78
Anthropogenic Land Types																			
Settlement and Developed Land	51	13,016.25	13.10					4	0.38	0.00	63	69.69	0.54	64	69.81	0.54	64	69.81	0.54
Cropland	1,432	46,204.56	46.50		21	46.06	0.10	101	69.19	0.15	247	463.69	1.00	350	564.31	1.22	350	564.25	1.22
NRVIS Pit or Quarry	192	1,321.00	1.33		1	0.06	0.00	15	34.44	2.61	6	36.63	2.77	22	60.88	4.61	22	60.88	4.61

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Tobermory

Ecodistrict 6E-14

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 62,347 hectares (154,062 acres)

Land Ownership: 72% private, 10% public, 15% National Park, 3% First Nations lands

Planning Authority: 100% Bruce County

Physiography:

This ecodistrict is composed of the Niagara Escarpment and the extensive shallow-soiled limestone plain of the upper Bruce Peninsula, as well as the islands off the northern tip of the Bruce Peninsula. The clay plains and deeper soils of Ecodistrict 6E-4 occur to the south.

Remaining Natural Cover:

Approximately 91% of the ecodistrict remains as natural cover, primarily forest. Limestone plain coniferous (41%), mixed (29%) and deciduous (7%) forest are the dominant ecological systems; these complexes represent 76% of the remaining natural cover. Another 9% of the remaining natural cover is swamp and an additional 4% is marsh. There are also 1,187 hectares of alvars mapped in 6E-13, in the broad sense; of which none are considered to be true alvars.

Land Use:

Three percent of 6E-13 has been converted to developed agricultural lands (1,747 ha), and an additional 2,884 hectares are pasture and abandoned fields. Lands associated with agriculture represent just over 7% of the ecodistrict. Approximately 130 hectares are gravel pits and quarries, and over 34 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands span approximately 48% of Ecodistrict 6E-14 (29,910



ha). Federally protected lands account for nearly one-third of these areas (9,460 ha). Over 23,700 hectares are provincially significant life science ANSIs, of which 1,405 hectares coincide with provincial parks. Over 90% of all occurrences of species and vegetation community targets are in conservation lands, primarily provincially significant life science ANSIs.

Species Targets:

Nearly 90% of the 33 targeted species in 6E-14 are plants, several of which are disjunct or endemic. Ten species are at risk, including the Threatened Massasauga (*Sistrurus catenatus*), Hill's Thistle (*Cirsium hillii*), and Hill's Pondweed (*Potamogeton hillii*).

Vegetation Community Targets:

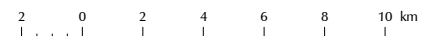
Fourteen of the 28 significant vegetation communities identified in 6E-14 are globally rare, 23 are provincially rare, and another four are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

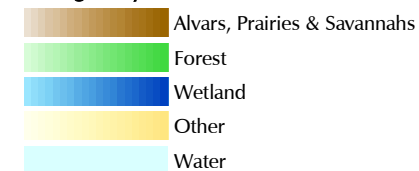
The Conservation Blueprint portfolio in Ecodistrict 6E-14 includes approximately 65% of all remaining natural cover, and 95% of all occurrences of rare species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

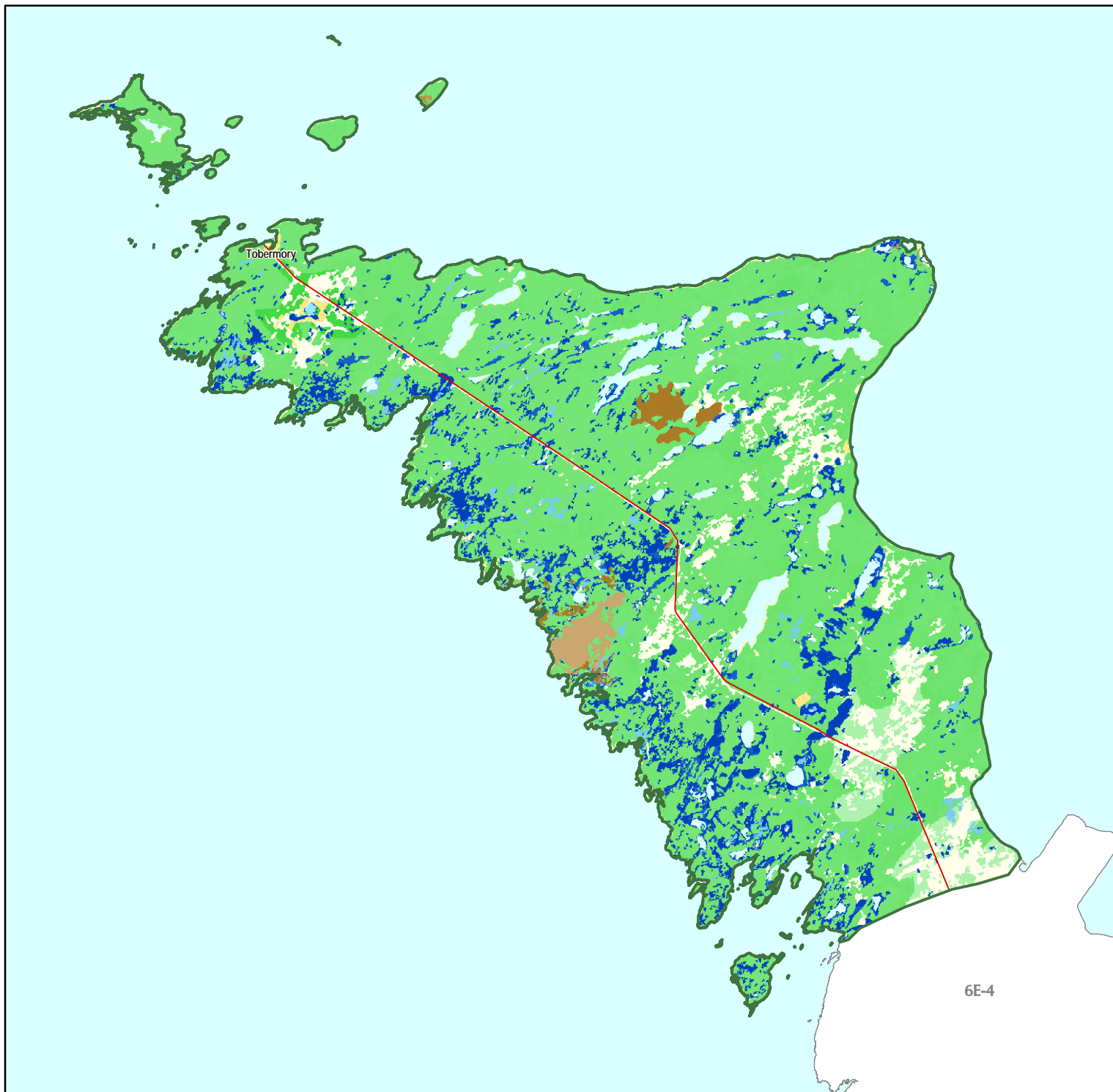
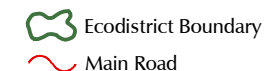
TOBERMORY ECODISTRICT 6E-14



Ecological Systems



Other Information



6E-4



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

TOBERMORY ECODISTRICT 6E-14



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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6E-4

Documented extant vegetation community and species targets in Ecodistrict 6E-14

Number of pops in 6E-14	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	0	100	0	100	1	100	3
3	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	33	0	100	0	100	3	100	3
5	<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	G4G5	S3	SC	SC	SAR	40	0	80	0	100	5	100	secondary
1	<i>Asplenium scolopendrium</i> var. <i>americanum</i>	American Hart's-tongue Fern	G4T3	S3	SC	SC	GRank SAR	0	0	100	0	100	1	100	4
14	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	21	0	79	0	93	13	93	4
2	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	50	0	100	0	100	2	100	3
6	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	33	17	100	0	100	6	100	4
6	<i>Draba cana</i>	Hoary Draba	G5	S4			disjunct	0	0	100	0	100	6	100	3
1	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Elymus lanceolatus</i> ssp. <i>psammophilus</i>	Great Lakes Wheatgrass	G5T3	S3			GRank endemic	0	0	0	0	0	1	100	4
3	<i>Erigeron philadelphicus</i> ssp. <i>provancheri</i>	Provancher's Philadelphia Fleabane	G5T1T3Q	SU			GRank	33	33	67	0	100	3	100	secondary
6	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	17	0	100	0	100	6	100	3
9	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	33	33	89	0	89	9	100	3
7	<i>Hymenoxys herbacea</i>	Lakeside Daisy	G2	S2	THR	THR	GRank endemic	29	0	71	0	71	7	100	all viable
6	<i>Iris lacustris</i>	Dwarf Lake Iris	G3	S3	THR		GRank endemic	17	17	67	0	83	5	83	4
2	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	100	0	100	2	100	3
7	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	14	0	86	0	86	6	86	3
8	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	50	0	75	0	88	7	88	3
15	<i>Piperia unalascensis</i>	Alaskan Ring-orchid	G5	S4			disjunct	27	33	87	0	100	15	100	3
1	<i>Platanthera leucophaea</i>	Eastern Prairie Fringed-orchid	G2	S2	END	END	GRank SAR	0	0	100	0	100	1	100	all viable
7	<i>Poa alpina</i>	Alpine Bluegrass	G5	S4			disjunct	29	14	86	0	86	6	86	3
8	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	13	13	88	0	88	7	88	3
1	<i>Poa secunda</i>	Canby Blue Grass	G5	S1			disjunct	0	0	100	0	100	1	100	3
4	<i>Polystichum lonchitis</i>	Northern Holly-fern	G5	S4			disjunct	25	50	100	0	100	4	100	3
9	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	22	0	33	0	67	8	89	4
2	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	50	100	0	100	2	100	2
4	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	75	0	75	0	100	4	100	3
8	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	25	13	88	0	88	7	88	3
1	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR endemic	0	100	100	0	100	1	100	4
Birds															
3	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	33	67	0	67	2	67	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	50	0	100	2	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	1	100	secondary
Reptiles															
4	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	25	0	75	0	100	4	100	4
Communities															
3	Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	0	100	3	100	3
1	Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type		G5	S3			SRank	0	0	100	0	100	1	100	3

Number of pops in 6E-14	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued														
1	Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type	G2?	S2			GRank	0	100	100	0	100	1	100	all viable
1	Common Juniper Open Limestone / Dolostone Cliff Rim Shrubland Type	G?	S2S3			SRank	0	0	100	0	100	1	100	3
1	Dry - Fresh Sugar Maple - Oak Deciduous Forest Type	G?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry - Fresh White Cedar Coniferous Forest Type	G4	S5			high quality	0	0	100	0	100	1	100	secondary
1	Dry Herbaceous Limestone / Dolostone Talus	G?	S2			SRank	0	0	100	0	100	1	100	3
1	Fresh Sugar Maple Deciduous Forest Type	G5?	S5			high quality	0	0	100	0	100	1	100	secondary
30	Graminoid Coastal Meadow Marsh Type	G2?	S2			GRank	10	7	83	0	87	27	90	3
4	Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type	G2?	S2			GRank	50	25	75	0	75	4	100	all viable
1	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type	G?	S2			SRank	100	0	100	0	100	1	100	3
1	Mountain Maple Open Limestone Talus Shrubland Type	G?	S3			SRank	0	0	100	0	100	1	100	3
7	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type	G2G3?	S2S3			GRank	43	14	86	0	100	7	100	all viable
3	Open Limestone / Dolostone Cliff Rim Type	G5	S2			SRank	67	0	100	0	100	3	100	3
2	Prairie Slough Grass Mineral Meadow Marsh Type	G2G3	S3			GRank	50	0	100	0	100	2	100	all viable
1	Prairie Slough Grass Organic Meadow Marsh Type	G2G3	S3			GRank	0	0	100	0	100	1	100	all viable
3	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type	G2?	S2			GRank	33	33	100	0	100	3	100	all viable
9	Shrubby Cinquefoil Coastal Meadow Marsh Type	G2?	S1			GRank	11	0	56	0	78	9	100	all viable
1	Shrubby Cinquefoil Limestone Beach Type	G3G4	S2			GRank	0	0	100	0	100	1	100	all viable
1	Silver / Red Maple Deciduous Organic Swamp Type	G3G5	S5			GRank	0	0	100	0	100	1	100	secondary
1	Sugar Maple Moist Treed Limestone Talus Type	G3G5	S3			GRank	0	0	100	0	100	1	100	all viable
1	Wet Herbaceous Limestone / Dolostone Talus	G?	S2			SRank	0	0	100	0	100	1	100	3
1	White Cedar - Hemlock Coniferous Mineral Swamp Type	G?	S3S4			SRank	0	100	100	0	100	1	100	3
4	White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement	G1G2	S1			GRank	75	25	75	0	100	4	100	all viable
1	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type	G3?	S3			GRank	0	0	100	0	100	1	100	all viable
3	White Cedar Conifer Swamp	G5	S5			high quality	33	0	100	0	100	3	100	secondary
1	White Cedar Dry Treed Limestone Talus Type	G?	S3			SRank	100	0	100	0	100	1	100	3
1	White Cedar Treed Limestone Cliff Type	G2Q	S3			GRank	0	100	100	0	100	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-14

Ecological System	# of Patches in 6E-14	Total Area (ha) in 6E-14	% of Total Area of 6E-14	% of Natural Cover in 6E-14	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	3,971	45,036.88	72.24	79.36	1,223	7,263.31	16.13	409	1,513.56	3.36	1,895	16,005.31	35.54	2,284	19,753.25	43.86	2,178	28,642.88	63.60
Alvars	87	1,187	1.90	2.09	79	764.06	64.36	42	344.81	29.04	86	917.56	77.28	95	1,100.63	92.70	90	1,138.81	95.92
Wetlands	3,667	8,295.94	13.31	14.62	760	1,068.13	12.88	283	320.31	3.86	1,861	3,831.44	46.18	2,647	5,656.31	68.18	2,648	5,670.50	68.35
All ecological systems	9516	62615.99	100.00	100.00	2549	9459.88	15.11	872	2443.88	3.90	4517	23732.94	37.90	5867	29909.75	47.77	5757	38851.75	62.05

Ecological systems details for Ecodistrict 6E-14

Ecological System	# of Patches in 6E-14	Total Area (ha) in 6E-14	% of Total Area of 6E-14	% of Natural Cover in 6E-14	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																			
Forests																			
Clay Plain Coniferous Forest Complex	30	37.44	0.06	0.07															
Clay Plain Mixed Forest Complex	101	606.81	0.97	1.07				1	2.75	0.45	4	5.06	0.83	5	7.81	1.29	7	146.25	24.10
Clay Plain Deciduous Forest Complex	105	750.06	1.20	1.32				3	10.81	1.44	6	20.94	2.79	9	31.75	4.23	11	176.25	23.50
Limestone Plain Coniferous Forest Complex	1,261	22,998.50	36.89	40.53	492	5,239.25	22.78	175	788.00	3.43	746	9,831.75	42.75	892	12,742.19	55.40	818	17,165.81	74.64
Limestone Plain Mixed Forest Complex	1,781	16,246.94	26.06	28.63	636	1,679.50	10.34	200	597.13	3.68	944	5,262.50	32.39	1,144	5,923.31	36.46	1,114	9,815.50	60.41
Limestone Plain Deciduous Forest Complex	576	3,921.25	6.29	6.91	95	344.56	8.79	30	114.88	2.93	173	863.63	22.02	212	1,026.75	26.18	201	1,128.25	28.77
Sand Plain Coniferous Forest Complex	27	84.69	0.14	0.15							2	0.38	0.44	2	0.38	0.44	4	35.81	42.29
Sand Plain Mixed Forest Complex	71	331.81	0.53	0.58							15	18.31	5.52	15	18.31	5.52	17	170.69	51.44
Sand Plain Deciduous Forest Complex	19	59.38	0.10	0.10							5	2.75	4.63	5	2.75	4.63	6	4.31	7.26
Alvar	15	564.50	0.91	0.99	31	348.06	61.66	18	274.69	48.66	16	555.06	98.33	17	557.13	98.69	15	564.50	100.00
Alvar Grassland	28	20.38	0.03	0.04	10	1.06	5.21	6	4.81	23.62	28	20.38	100.00	28	20.38	100.00	28	20.38	100.00
Alvar Pavement	7	12.69	0.02	0.02	4	0.94	7.39	6	1.31	10.34	7	12.69	100.00	7	12.69	100.00	7	12.69	100.00
Alvar Savannah	36	586.31	0.94	1.03	33	412.31	70.32	12	64.00	10.92	34	326.06	55.61	42	507.06	86.48	39	537.88	91.74
Alvar Shrubland	1	3.38	0.01	0.01	1	1.69	50.00				1	3.38	100.00	1	3.38	100.00	1	3.38	100.00
Wetlands																			
Bog Complex	3	26.00	0.04	0.05							1	19.56	75.24	3	26.00	100.00	3	26.00	100.00
Fen Complex	544	920.63	1.48	1.62	103	115.69	12.57	40	24.75	2.69	294	353.13	38.36	403	502.25	54.56	403	502.25	54.56
Marsh Complex	1,359	2,216.19	3.55	3.91	278	379.63	17.13	109	109.06	4.92	711	1,199.13	54.11	967	1,585.44	71.54	968	1,599.63	72.18
Swamp Complex	1,761	5,133.13	8.23	9.05	379	572.81	11.16	134	186.50	3.63	855	2,259.63	44.02	1,274	3,542.63	69.01	1,274	3,542.63	69.01
Non-Target Natural Ecological Systems																			
Coniferous Forest Complex	5	3.19	0.01	0.01				1	0.44	13.73	5	3.19	100.00	5	3.19	100.00	5	3.19	100.00
Mixed Forest Complex	14	15.88	0.03	0.03				5	7.25	45.67	13	15.81	99.61	13	15.81	99.61	13	15.81	99.61
Other Landcover																			
Bedrock Outcrop	3	27.56	0.04	0.05															
Pasture and Abandoned Fields	465	2,884.13	4.63		28	82.69	2.87	12	15.31	0.53	102	70.50	2.44	124	166.81	5.78	124	166.81	5.78
Water	898	2,181.59	3.50	3.84	399	263.56	8.10	104	235.81	7.25	439	2,834.13	87.09	539	3,140.75	96.51	539	3,140.75	96.51
Anthropogenic Land Types																			
Settlement and Developed Land	2	33.50	0.05																
Cropland	387	1,747.31	2.80		60	18.13	1.04	16	6.38	0.36	107	40.31	2.31	151	58.31	3.34	151	58.31	3.34
NRVIS Pit or Quarry	17	130.19	0.21								9	14.69	11.28	9	14.69	11.28	9	14.69	11.28

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Picton

Ecodistrict 6E-15

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 237,229 hectares (586,205 acres)

Land Ownership: 95.5% private, 1.4% Crown, 0.1% National Park, 3% First Nations lands

Planning Authority: 45% Prince Edward County, 21% Frontenac County, 20% Lennox and Addington County, 12% Hastings County, 2% Leeds and Grenville County

Physiography:

This ecodistrict is predominantly shallow soiled limestone plain with local areas of clay and till, and includes the entire Prince Edward Peninsula. The northern and eastern boundaries follow the transition between the clay plains of 6E-15, the limestone plains of the Napanee Plains in 6E-9, and shallow till and rock ridges of the Frontenac Axis in 6E-10. The northwestern boundary follows the transition between the undrumlinized clay plains, bevelled till plains and limestone plains in 6E-15 and drumlinized clay plains and bevelled till plains in 6E-8 and sand plains in 6E-13.

Remaining Natural Cover:

Approximately 37% of the ecodistrict remains as natural cover, primarily forest. Limestone plain deciduous and mixed forest complexes comprise 24% of the remaining natural cover, while clay plain deciduous forest complexes make up 14%. Over 30% of the remaining natural cover is wetland, largely swamp and marsh. There are also over 12,000 hectares of alvars mapped in 6E-15, in the broad sense. Of this, 117 hectares are considered to be true alvars.

Land Use:

Over one-third of 6E-15 has been converted to developed agricultural lands (91,040 ha), and an additional 46,594 hectares are pasture and abandoned field. Lands associated with agriculture represent 58% of the ecodistrict. Over 2,700 hectares are gravel pits and quarries, and over 6,500 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands make up approximately 9% of Ecodistrict 6E-15 (20,574 ha). Provincially significant wetlands account for nearly 75% of these lands (14,940 ha). Nearly 6,300 hectares are provincially significant life science ANSIs, of which 267 hectares coincide with provincial parks. Over half of all the occurrences of species and vegetation community targets in 6E-15 are within conservation lands, primarily provincially significant wetlands and life science ANSIs.

Species Targets:

Over half of the 19 targeted species occurring in 6E-15 are plants. Several the plant species targets occur in the Great Lakes region as disjuncts, for example Seaside Spurge (*Chamaesyce polygonifolia*) and American Sea-rocket (*Cakile edentula*). Thirteen species are at risk, including the Endangered Juniper Sedge (*Carex juniperorum*) and Threatened Least Bittern (*Ixobrychus exilis*).

Vegetation Community Targets:

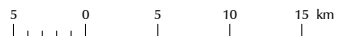
Five of the seven significant vegetation communities identified within 6E-15 are globally rare and six are provincially rare. Examples include Little Bluestem - Switchgrass - Beachgrass Dune Grassland and Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland.

Conservation Blueprint:

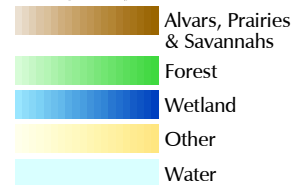
The Conservation Blueprint portfolio in Ecodistrict 6E-15 includes approximately 23% of all remaining natural cover, and 73% the occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

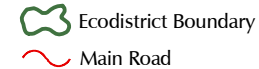
PICTON ECODISTRICT 6E-15



Ecological Systems



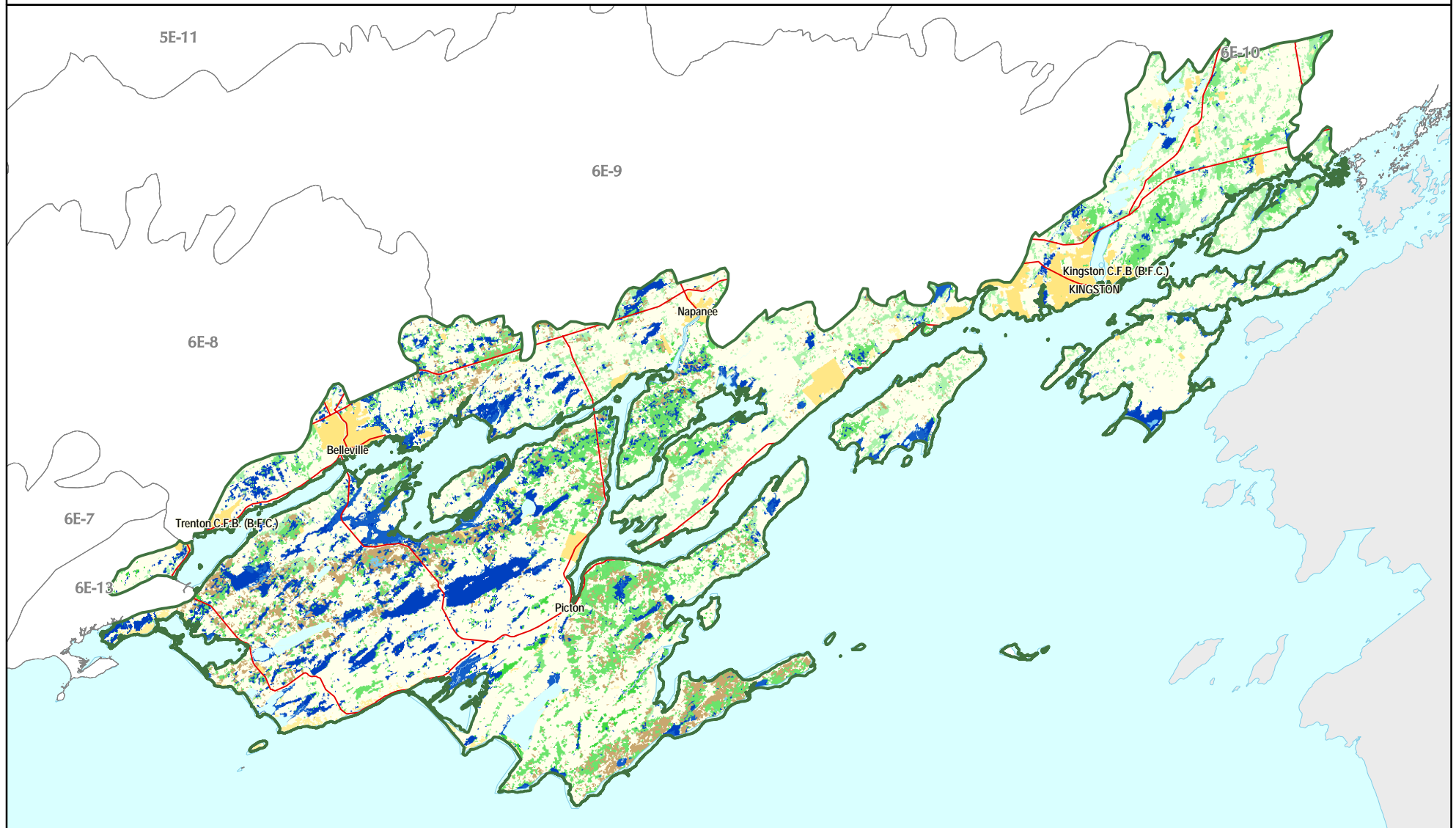
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

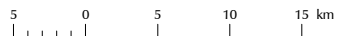
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

PICTON ECODISTRICT 6E-15



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

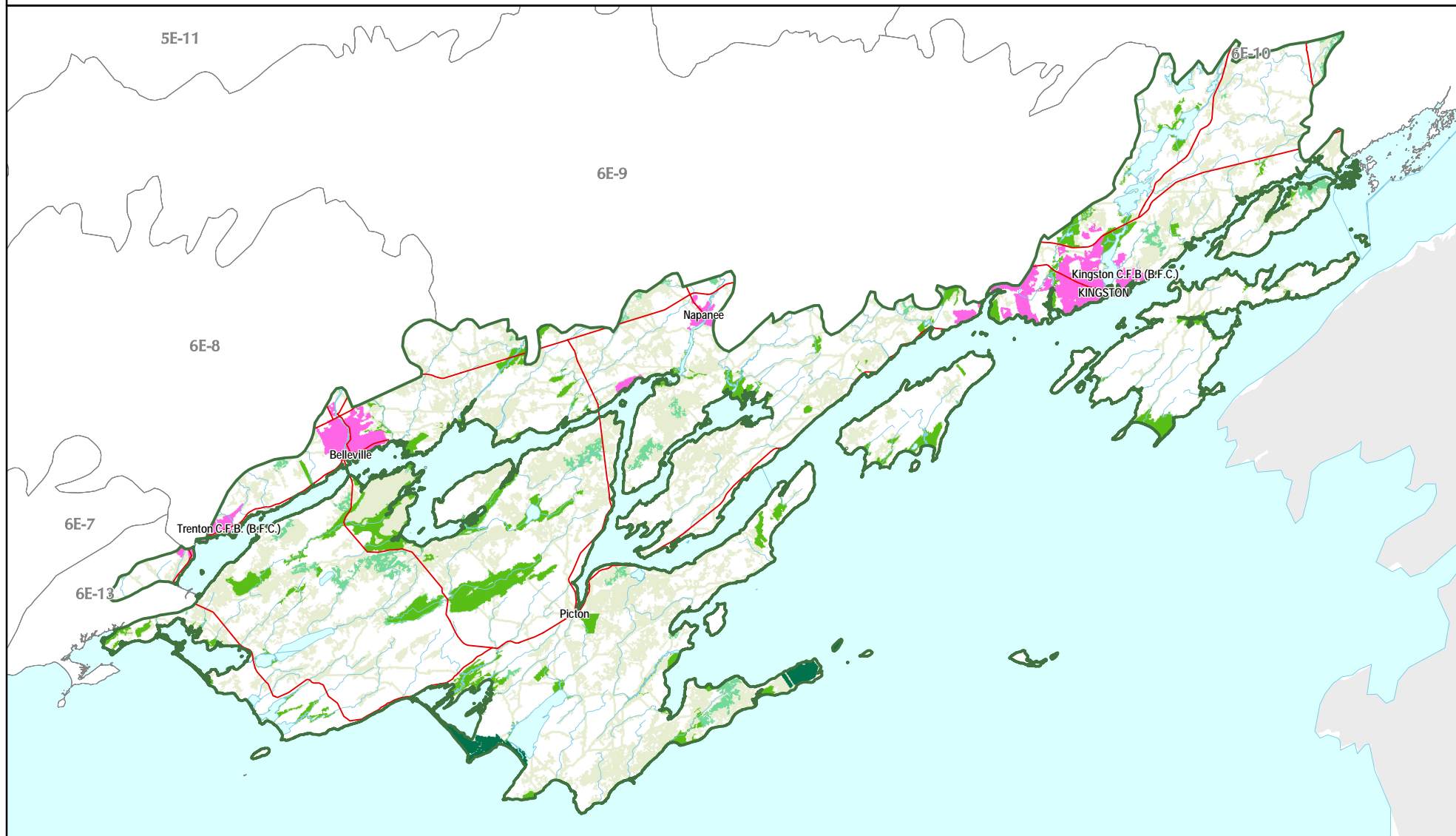
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-15

Number of pops in 6E-15	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	100	50	0	100	2	100	3
6	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	33	0	0	67	4	67	3
1	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	100	100	0	100	1	100	4
1	<i>Carex juniperorum</i>	Juniper Sedge	G2	S1	END	END-R	GRank SAR	0	0	100	0	100	1	100	all viable
1	<i>Celtis tenuifolia</i>	Dwarf Hackberry	G5	S2	THR	THR	SAR	0	0	100	0	100	1	100	3
7	<i>Chamaesyce polygonifolia</i>	Seaside Spurge	G5?	S4			disjunct	14	14	43	0	57	4	57	3
1	<i>Hibiscus moscheutos</i>	Swamp Rose-mallow	G5	S3	SC	SC	SAR	0	100	0	0	100	1	100	secondary
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	100	0	100	2	100	2
2	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	0	0	0	2	100	2
1	<i>Potentilla paradoxa</i>	Bushy Cinquefoil	G5	S3			disjunct	0	0	0	0	0	1	100	3
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	100	0	0	100	1	100	2
Birds															
16	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	6	6	13	6	63	10	63	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	100	0	100	1	100	secondary
13	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	8	23	15	69	11	85	secondary
6	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	17	17	1	17	secondary
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
2	<i>Apalone spinifera</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	0	0	100	100	1	100	secondary
1	<i>Sternotherus odoratus</i>	Stinkpot	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Communities															
1	Common Reed Grass Organic Shallow Marsh Type		G3G4	S4			SRank	0	0	0	0	0	1	100	all viable
2	Dry Bur Oak - Shagbark Hickory Tallgrass Woodland Type		G?	S1			SRank	0	0	0	0	0	2	100	3
1	Dry Tallgrass Prairie Type		G3	S1			SRank	0	0	0	0	0	1	100	all viable
3	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	33	33	0	33	3	100	3
5	Little Bluestem - Switchgrass - Beachgrass Dune Grassland Type		G?	S2			SRank	0	60	20	0	80	4	80	3
4	Red Cedar - Early Buttercup Treed Alvar Grassland Type		G2?	S2			GRank	0	0	0	0	0	4	100	all viable
4	Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type		G2G3?	S2S3			GRank	0	0	0	25	25	4	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-15

Ecological System	# of Patches in 6E-15	Total Area (ha) in 6E-15	% of Total Area of 6E-15	% of Natural Cover in 6E-15	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	12,249	43,810.13	18.47	49.91	49	188.44	0.43	59	82.44	0.19	363	747.38	1.71	179	483.63	1.10	674	1,503.75	3.43	717	3,754.94	8.57
Alvars	2,989	12,242.88	5.16	13.95	32	167.25	1.37	-	-	-	46	56.44	0.46	30	77.00	0.63	110	300.75	2.46	119	1,462.19	11.94
Wetlands	4,674	26,943.56	11.36	30.69	30	28.88	0.11	19	76.25	0.28	253	4,584.81	17.02	162	207.56	0.77	1,953	13,741.06	51.00	1,945	14,155.25	52.54
All ecological systems	33358	243421.73	100.00	100.00	218	738.56	0.30	256	1785.31	0.73	1521	6332.50	2.60	712	1347.88	0.55	4206	20574.44	8.45	4250	24470.75	10.05

Ecological systems details for Ecodistrict 6E-15

Ecological System	# of Patches in 6E-15	Total Area (ha) in 6E-15	% of Total Area of 6E-15	% of Natural Cover in 6E-15	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																						
Forests																						
Clay Plain Coniferous Forest Complex	154	511.44	0.22	0.58							27	74.19	14.51	4	10.56	2.07	31	84.75	16.57	31	188.25	36.81
Clay Plain Mixed Forest Complex	1,552	3,306.13	1.39	3.77	2	1.00	0.03				46	74.88	2.26	23	31.13	0.94	71	107.00	3.24	72	430.38	13.02
Clay Plain Deciduous Forest Complex	3,021	12,267.13	5.17	13.97	1	6.06	0.05				69	122.25	1.00	39	137.94	1.12	125	267.25	2.18	131	829.81	6.76
Coniferous Forest Complex on Peat and Muck	15	22.25	0.01	0.03							4	3.63	16.29				4	3.63	16.29	4	3.63	16.29
Mixed Forest Complex on Peat and Muck	134	257.63	0.11	0.29							25	60.13	23.34				26	60.19	23.36	26	65.44	25.40
Deciduous Forest Complex on Peat and Muck	117	146.31	0.06	0.17							27	35.88	24.52				27	35.88	24.52	27	35.88	24.52
Kame Moraine Coniferous Forest Complex	28	56.50	0.02	0.06																2	10.56	18.69
Kame Moraine Mixed Forest Complex	60	96.19	0.04	0.11																2	10.81	11.24
Kame Moraine Deciduous Forest Complex	51	129.25	0.05	0.15																4	3.81	2.95
Limestone Plain Coniferous Forest Complex	270	1,062.31	0.45	1.21				2	0.69	0.06	15	135.94	12.80	13	26.88	2.53	31	163.56	15.40	30	178.31	16.79
Limestone Plain Mixed Forest Complex	2,684	8,361.38	3.52	9.52	6	12.13	0.15	9	3.81	0.05	81	86.81	1.04	43	100.56	1.20	139	203.31	2.43	142	426.63	5.10
Limestone Plain Deciduous Forest Complex	2,616	12,874.50	5.43	14.67	33	151.13	1.17	8	6.56	0.05	69	153.69	1.19	41	124.94	0.97	156	436.63	3.39	160	1,053.56	8.18
Sand Plain Coniferous Forest Complex	29	38.19	0.02	0.04				7	9.06	23.73							7	9.06	23.73	7	9.06	23.73
Sand Plain Mixed Forest Complex	148	285.56	0.12	0.33				14	39.31	13.77							14	39.63	13.88	13	41.06	14.38
Sand Plain Deciduous Forest Complex	198	717.06	0.30	0.82				15	8.06	1.12							14	8.06	1.12	16	99.44	13.87
Till Plain Coniferous Forest Complex	70	142.44	0.06	0.16										6	11.25	7.90	6	11.25	7.90	9	27.19	19.09
Till Plain Mixed Forest Complex	549	1,257.88	0.53	1.43	2	2.13	0.17	2	1.50	0.12				3	0.69	0.05	7	4.31	0.34	11	14.25	1.13
Till Plain Deciduous Forest Complex	553	2,278.00	0.96	2.60	5	16.00	0.70	2	13.44	0.59				7	39.69	1.74	16	69.25	3.04	30	326.88	14.35
Alvar	2,949	12,169.00	5.13	13.86	32	167.25	1.37				35	26.38	0.22	28	76.44	0.63	97	270.13	2.22	103	1,423.81	11.70
Alvar Grassland	8	13.00	0.01	0.01																2	3.50	26.92
Alvar Savannah	32	60.88	0.03	0.07							11	30.06	49.38	2	0.56	0.92	13	30.63	50.31	14	34.88	57.29
Wetlands																						
Bog Complex	1	1.88	0.00	0.00							1	1.88	100.00				1	1.88	100.00	1	1.88	100.00
Fen Complex	184	331.75	0.14	0.38				2	1.63	0.49	1	31.31	9.44	3	3.75	1.13	6	36.69	11.06	7	103.56	31.22
Marsh Complex	1,492	8,820.81	3.72	10.05	12	18.75	0.21	6	14.81	0.17	93	1,910.75	21.66	71	35.50	0.40	1,052	7,360.44	83.44	1,043	7,485.06	84.86
Swamp Complex	2,997	17,789.13	7.50	20.26	18	10.13	0.06	11	59.81	0.34	158	2,640.88	14.85	88	168.31	0.95	894	6,342.06	35.65	894	6,564.75	36.90
Non-Target Natural Ecological Systems																						
Mixed Forest Complex	8	7.25	0.00	0.01				3	1.38	18.97	1	0.50	6.90				4	1.88	25.86	4	1.88	25.86
Deciduous Forest Complex	20	95.63	0.04	0.11	2	5.06	5.29	4	39.63	41.44							6	44.69	46.73	6	44.69	46.73

	# of Patches in 6E-15	Total Area (ha) in 6E-15	% of Total Area of 6E-15	% of Natural Cover in 6E-15	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in CA Lands	Total Area (ha) of CA Lands	% of System in CA Lands	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Ecological System																						
Other Landcover																						
Bedrock Outcrop	131	683.31	0.29	0.78	14	2.81	0.41	10	261.38	38.25	12	151.69	22.20				33	269.25	39.40	33	338.75	49.57
Pasture and Abandoned Fields	6,847	46,593.50	19.64		23	121.38	0.26	28	95.00	0.20	206	188.94	0.41	97	320.81	0.69	367	690.00	1.48	367	690.00	1.48
Unclassified (cloud & shadow)	230	1,931.63	0.81		4	18.38	0.95	21	124.50	6.45	1	3.81	0.20				27	142.75	7.39	27	142.75	7.39
Water	2,060	4,001.15	1.69	4.56	61	196.19	3.00	43	829.44	12.68	304	433.63	6.63	72	63.63	0.97	441	3,271.75	50.00	441	3,271.75	50.00
Unknown Landcover	26	4,162.50	1.75																			
Anthropogenic Land Types																						
Settlement and Developed Land	37	6,583.38	2.78								14	2.69	0.04	10	2.19	0.03	26	5.00	0.08	26	5.00	0.08
Cropland	3,829	91,039.75	38.38		3	10.19	0.01	68	274.81	0.30	317	154.38	0.17	158	188.63	0.21	555	590.31	0.65	555	590.31	0.65
NRVIS Pit or Quarry	258	2,784.50	1.17					1	0.50	0.02	4	8.25	0.30	4	4.44	0.16	10	13.25	0.48	10	13.25	0.48

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

Renfrew

Ecodistrict 6E-16

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 196,374 hectares (485,250 acres)

Land Ownership: 98.5% private, 1.5% public

Planning Authority: 68% Renfrew County, 28% Ottawa-Carlton Region, 4% Lanark County

Physiography:

This ecodistrict is composed of weakly broken deep clay plains with silt and sand plains with broken rock ridges. This ecodistrict corresponds to Hills's site district 5E-12. The centre of the western half of the ecodistrict contains the Muskrat Lake Ridges, and the remainder of 6E-16 is largely Ottawa Valley Clay Flats. The northwestern boundary follows the transition from the clay plains to the Petawawa Sand Plain of 5E-10. The majority of the southern boundary follows the transition from the clay plains to the Algonquin Highlands of 5E-10 and the Smiths Falls Limestone Plains of 6E-11.

Remaining Natural Cover:

Approximately 38% of the ecodistrict remains in natural cover, primarily forest. Till plain deciduous forest complexes comprise 17% of the remaining natural cover, followed by till plain mixed forest complex (15%) and clay plain deciduous forest complexes (12%). Another 12% of the remaining natural cover is wetland, two-thirds of which are swamps.

Land Use:

Over one-third of 6E-16 has been converted to developed agricultural lands (67,556 ha), and an additional 49,436 hectares are pastures and abandoned fields. Lands associated with agriculture represent nearly 60% of the ecodistrict. Over 2,000 hectares are gravel pits and quarries, and 2,000 hectares are devoted to settlement and other associated developed lands including Pembroke and Petawawa.



Protection and Conservation:

Conservation lands make up approximately 6% of Ecodistrict 6E-16 (10,958 ha). Provincially significant wetlands represent over half of these lands (5,711 ha). Over 5,000 hectares are provincially significant life science ANSIs. Twenty-eight percent of all occurrences of species and vegetation community targets are in conservation lands.

Species Targets:

Nearly half of the 13 targeted species occurring in 6E-16 are plants. There are several occurrences of Golden Hedge-hyssop (*Gratiola aurea*) and Floating-heart (*Nymphoides cordata*); both are disjuncts in the Great Lakes ecoregion. Seven species are at risk, including the Endangered American Ginseng (*Panax quinquefolius*) and Loggerhead Shrike (*Lanius ludovicianus*).

Vegetation Community Targets:

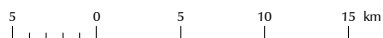
Two of the five significant vegetation communities identified within 6E-16 are globally rare, three are provincially rare, and another two are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

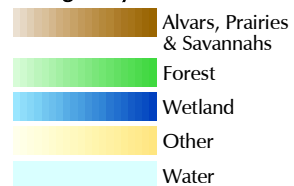
The Conservation Blueprint portfolio in Ecodistrict 6E-16 includes approximately 27% of all remaining natural cover, and nearly 54% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

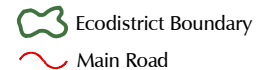
RENFREW ECODISTRICT 6E-16



Ecological Systems



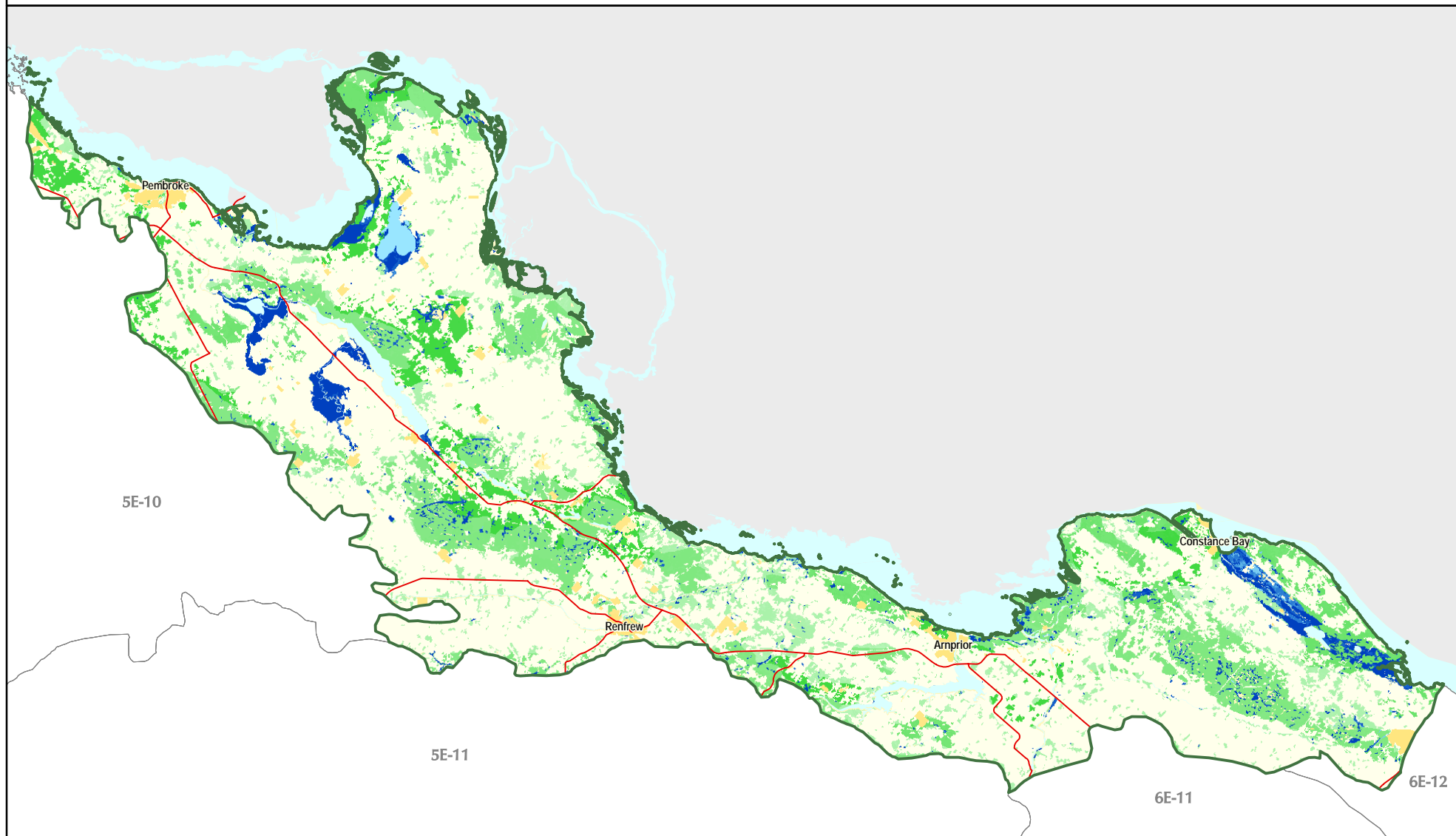
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

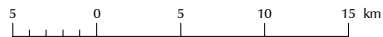
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

RENFREW ECODISTRICT 6E-16



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

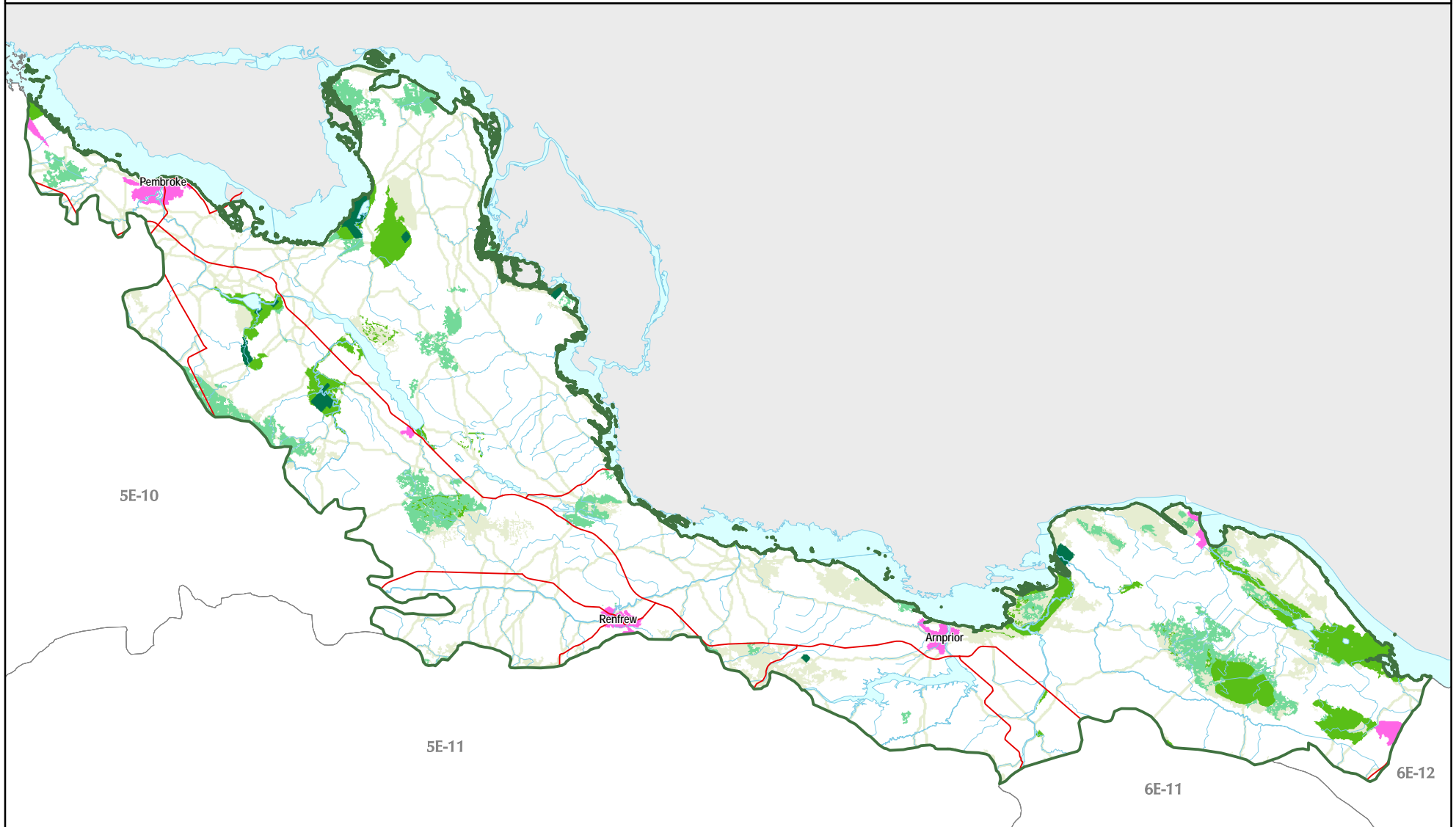
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 6E-16

Number of pops in 6E-16	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	0	100	0	100	1	100	3
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	50	2	100	4
7	<i>Gratiola aurea</i>	Golden Hedge-hyssop	G5	S4?			disjunct	0	43	0	0	43	5	71	3
3	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	0	0	0	33	3	100	3
5	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	40	0	40	2	40	2
2	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	0	0	0	0	2	100	2
Birds															
4	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	100	1	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	1	100	secondary
5	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Apalone spinifer</i>	Spiny Softshell	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
Lepidoptera															
1	<i>Erynnis martialis</i>	Mottled Duskywing	G3G4	S2			GRank	0	0	0	0	0	1	100	2
Communities															
1	Dry - Fresh White Pine - Sugar Maple Mixed Forest Type		G?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Fresh Sugar Maple - Beech Deciduous Forest Type		G5?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Little Bluestem - Switchgrass - Beachgrass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
1	Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type		G1Q	S1			GRank	0	0	0	0	0	1	100	all viable
1	White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type		G3?	S3			GRank	0	0	0	0	0	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-16

Ecological System	# of Patches in 6E-16	Total Area (ha) 6E-16	% of Total Area of 6E-16	% of Natural Cover in 6E-16	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	11,242	59,432.00	30.26	80.65	105	325.44	0.55	779	3,040.00	5.12	952	3,643.75	6.13	978	12,296.94	20.69
Wetlands	2,795	8,782.63	4.47	11.92	112	644.44	7.34	566	1,070.00	12.18	1,210	5,837.19	66.46	1,209	5,973.00	68.01
All ecological systems	25504	195675.70	100.00	100.00	434	1354.69	0.69	1789	5071.75	2.59	3001	10958.25	5.60	3031	19981.81	10.21

Ecological systems details for Ecodistrict 6E-16

Ecological System	# of Patches in 6E-16	Total Area (ha) 6E-16	% of Total Area of 6E-16	% of Natural Cover in 6E-16	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																
Forests																
Clay Plain Coniferous Forest Complex	515	1,328.88	0.68	1.80	13	18.06	1.36	12	15.25	1.15	25	33.31	2.51	28	256.00	19.26
Clay Plain Mixed Forest Complex	1,714	5,590.56	2.85	7.59	13	23.56	0.42	52	92.81	1.66	67	117.38	2.10	72	238.63	4.27
Clay Plain Deciduous Forest Complex	2,181	8,647.94	4.40	11.74	11	43.63	0.50	68	182.88	2.11	79	226.81	2.62	71	396.31	4.58
Coniferous Forest Complex on Peat and Muck	29	41.94	0.02	0.06												
Mixed Forest Complex on Peat and Muck	58	103.38	0.05	0.14										2	1.69	1.63
Deciduous Forest Complex on Peat and Muck	63	322.75	0.16	0.44										2	113.00	35.01
Kame Moraine Coniferous Forest Complex	2	1.19	0.00	0.00												
Kame Moraine Mixed Forest Complex	30	58.06	0.03	0.08										3	20.94	36.06
Kame Moraine Deciduous Forest Complex	32	86.69	0.04	0.12										3	9.75	11.25
Limestone Plain Coniferous Forest Complex	297	1,772.63	0.90	2.41	2	4.63	0.26	25	26.81	1.51	27	31.44	36.27	28	236.63	13.35
Limestone Plain Mixed Forest Complex	619	3,248.44	1.65	4.41	8	10.94	0.34	79	337.56	10.39	87	348.44	10.73	90	1,039.75	32.01
Limestone Plain Deciduous Forest Complex	436	2,351.94	1.20	3.19	3	40.06	1.70	62	310.38	13.20	67	350.56	14.91	60	412.63	17.54
Sand Plain Coniferous Forest Complex	231	983.81	0.50	1.34	6	16.63	1.69	3	4.13	0.18	9	20.81	0.88	11	315.00	13.39
Sand Plain Mixed Forest Complex	845	5,064.81	2.58	6.87	18	75.56	1.49	4	77.56	7.88	26	215.69	21.92	26	898.13	91.29
Sand Plain Deciduous Forest Complex	863	4,533.13	2.31	6.15	24	71.50	1.58	9	17.13	0.34	35	89.63	1.77	38	664.13	13.11
Till Moraine Mixed Forest Complex	3	21.13	0.01	0.03	3	7.50	35.50									
Till Moraine Deciduous Forest Complex	11	8.69	0.00	0.01	4	13.38	153.96									
Till Plain Coniferous Forest Complex	549	2,036.81	1.04	2.76				89	300.75	14.77	93	301.00	14.78	90	776.94	38.14
Till Plain Mixed Forest Complex	1,667	10,775.63	5.49	14.62				222	500.00	4.64	265	676.38	6.28	287	2,894.69	26.86
Till Plain Deciduous Forest Complex	1,097	12,453.63	6.34	16.90				154	1,174.75	9.43	172	1,232.31	9.90	167	4,022.75	32.30
Wetlands																
Bog Complex	11	764.44	0.39	1.04	1	43.31	5.67	6	3.50	0.46	9	760.13	99.44	9	760.13	99.44
Fen Complex	323	239.81	0.12	0.33	2	1.00	0.42	74	32.75	13.66	85	38.63	16.11	87	69.00	28.77
Marsh Complex	1,044	1,967.94	1.00	2.67	71	139.38	7.08	176	243.06	12.35	564	1,158.19	58.85	564	1,159.69	58.93
Swamp Complex	1,417	5,810.44	2.96	7.89	38	460.75	7.93	310	790.69	13.61	552	3,880.25	66.78	549	3,984.19	68.57
Non-Target Natural Ecological Systems																
Coniferous Plantation Forest	7	105.56	0.05											2	66.75	63.23
Coniferous Forest Complex	33	81.00	0.04	0.11	6	6.00	7.41				6	6.00	7.41	6	6.00	7.41
Mixed Forest Complex	117	372.94	0.19	0.51	12	8.75	2.35	2	19.13	5.13	14	27.94	7.49	14	71.00	19.04
Deciduous Forest Complex	85	222.63	0.11	0.30	2	6.19	2.78	8	4.13	1.85	10	10.31	4.63	10	10.31	4.63
Other Landcover																
Bedrock Outcrop	52	376.63	0.19	0.51				7	10.88	2.89	7	10.88	2.89	9	135.56	35.99
Pasture and Abandoned Fields	5,172	49,436.13	25.17		44	60.63	0.12	122	131.50	0.27	172	192.69	0.39	172	192.69	0.39
Water	2,292	4,419.51	2.25	6.00	120	269.13	5.12	187	686.69	13.06	476	1,085.75	20.65	477	1,085.81	20.65
Unknown Landcover	4	0.25	0.00													

Ecological System	# of Patches in 6E-16	Total Area (ha) 6E-16	% of Total Area of 6E-16	% of Natural Cover in 6E-16	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in ANSIs	Total Area (ha) of ANSIs	% of System in ANSIs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Anthropogenic Land Types																
Settlement and Developed Land	11	2,000.06	1.02					3	0.19	0.01	3	0.19	0.01	3	0.19	0.01
Cropland	3,433	67,555.88	34.40		33	34.13	0.05	115	109.25	0.16	151	143.56	0.21	151	143.56	0.21

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

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Gore Bay

Ecodistrict 6E-17

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 369,042 hectares (911,923 acres)

Land Ownership: 13% private, 73% public, 14% First Nations lands

Planning Authority: 80% Manitoulin District, 20% Algoma District

Physiography:

Ecodistrict 6E-17 is equivalent to Hills's site district 5E-2. It contains Manitoulin Island and the St. Joseph and Cockburn Islands. Most of the ecodistrict consists of Paleozoic dolomitic limestone bedrock near the surface or exposed. The ecodistrict's physiographic features include weakly broken bare and shallow sand and loam plains, as well as weekly broken deep and shallow sand plains.

Remaining Natural Cover:

Approximately 84% of the ecodistrict remains as natural cover, primarily forest. Limestone plain mixed (22%), deciduous (20%) and coniferous forest (13%) complexes are the dominant ecological systems. Sand plain forests account for another 15% of the remaining natural cover. Less than 2% of the remaining cover is wetlands. There are also 20,520 hectares of alvars mapped in the ecodistrict, in the broad sense. Of this, 3,573 hectares are considered to be true alvars.

Land Use:

There are 49,822 hectares of pasture and abandoned fields. Over 250 hectares are gravel pits and quarries, and 780 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands make up approximately 10% of Ecodistrict 6E-17 (36,392 ha). Over 1,300 hectares are provincial parks and conservation reserves, and another 900 hectares are federally protected areas. Fifty



hectares are provincially significant wetlands, and no provincially significant life science ANSIs have yet been designated in 6E-17. Twenty-two percent of all occurrences of species and vegetation community targets are in conservation lands, primarily within provincially protected areas.

Species Targets:

Seventy percent of the 37 targeted species in 6E-17 are plants. Several targets are globally rare, endemic and/or disjunct in the Great Lakes. Fifteen species are at risk, including the Endangered Pitcher's Thistle (*Cirsium pitcheri*), Loggerhead Shrike (*Lanius ludovicianus*), and the Threatened Hill's Thistle (*Cirsium hillii*) and Lakeside Daisy (*Hymenoxys herbacea*). There are also several occurrences of the globally rare and endemic Great Lakes Wheatgrass (*Elymus lanceolatus* ssp. *psammophilus*).

Vegetation Community Targets:

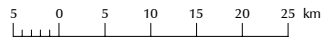
Eleven of the 29 significant vegetation communities identified within 6E-17 are globally rare, 12 are provincially rare, and another 15 are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

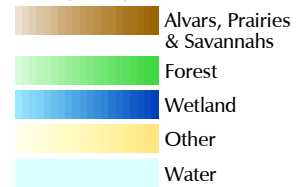
The Conservation Blueprint portfolio in Ecodistrict 6E-17 includes approximately 23% of all remaining natural cover, and nearly 65% of all occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

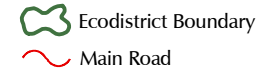
GORE BAY ECODISTRICT 6E-17



Ecological Systems



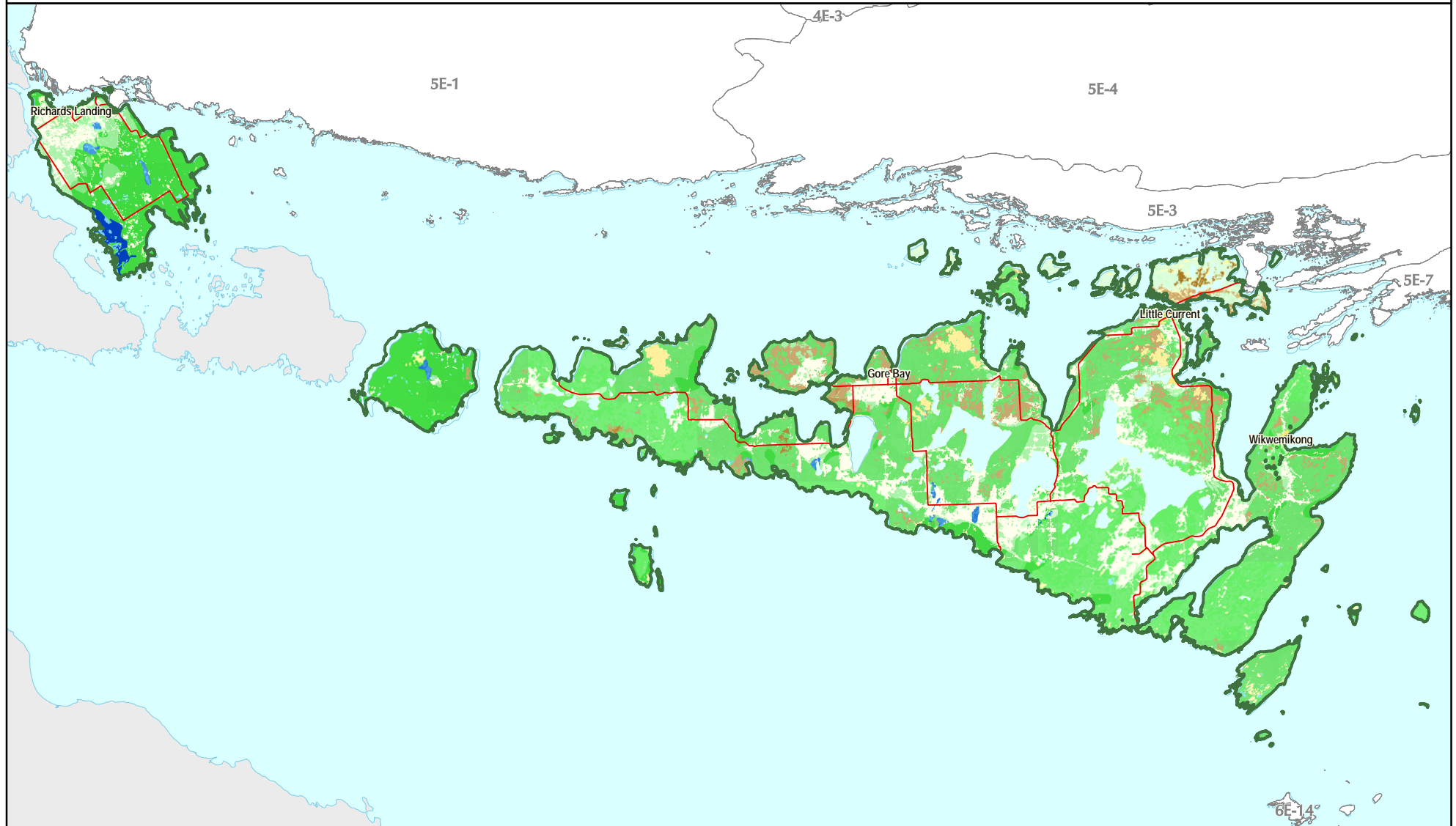
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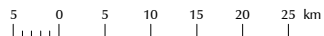
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Great Lakes Conservation Blueprint for Biodiversity

GORE BAY ECODISTRICT 6E-17



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

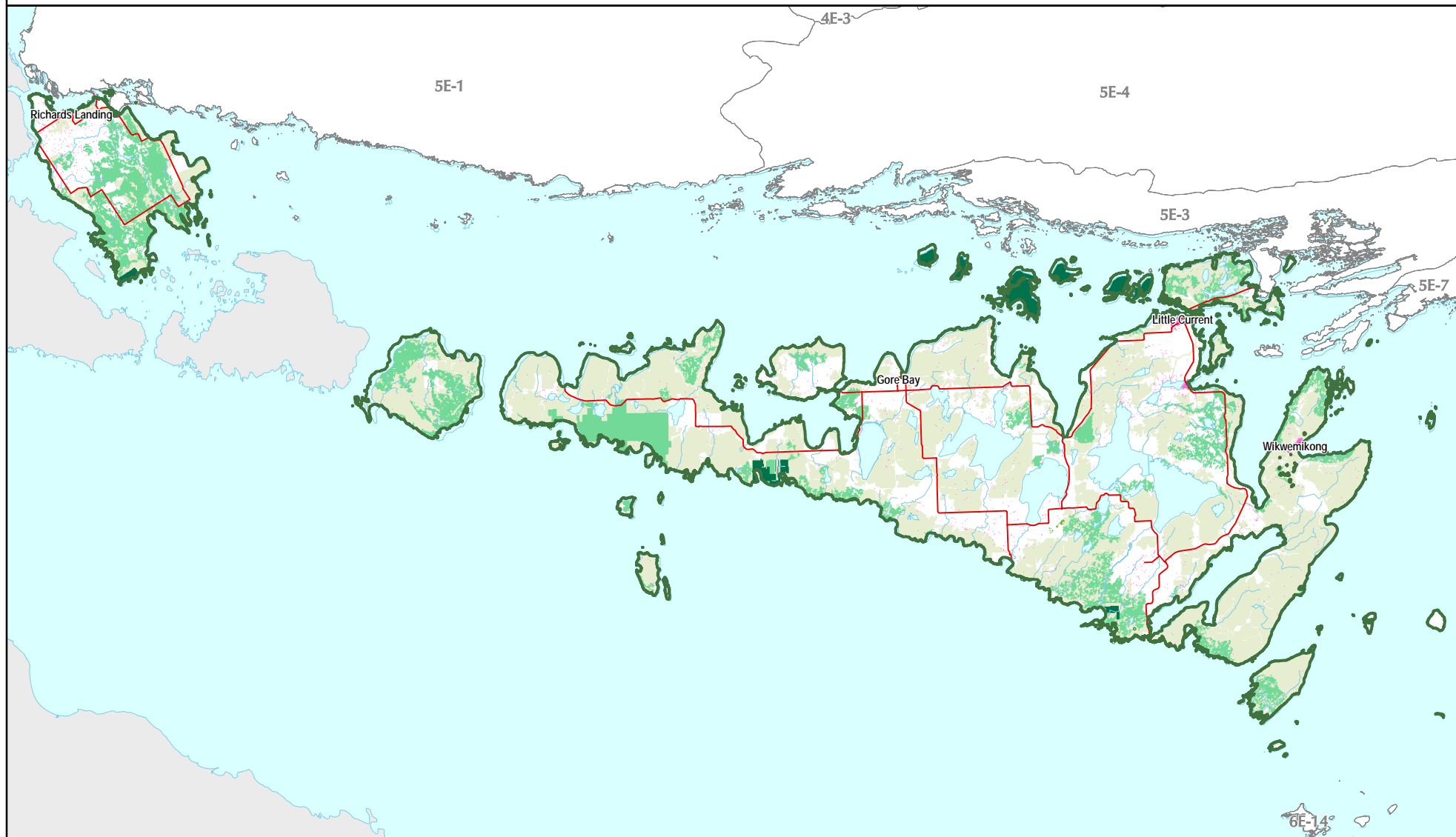
- Ecodistrict Boundary
- Main Road
- Urban Area
- Big Picture 2002 Areas Outside of the Conservation Blueprint



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation community and species targets in Ecodistrict 6E-17

Number of pops in 6E-17	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Agalinis gattereri</i>	Gatterer's Agalinis	G4	S2	END	END	SAR	0	0	0	0	0	1	33	secondary
10	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	0	0	0	30	9	90	3
17	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	6	8	47	3
5	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	20	0	0	20	3	60	3
1	<i>Botrychium hesperium</i>	Western Moonwort	G3	S1			GRank disjunct	0	0	0	0	0	1	100	4
4	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	25	0	0	25	3	75	3
3	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	0	0	0	0	3	100	4
23	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	0	4	0	0	13	5	22	4
21	<i>Cirsium pitcheri</i>	Pitcher's Thistle	G3	S2	END	END	GRank endemic	0	5	0	0	10	9	43	4
1	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S2S3			disjunct	0	0	0	0	0	1	100	3
7	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	43	4	57	4
1	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern	G3	S2S3			GRank	0	0	0	0	0	1	100	2
21	<i>Elymus lanceolatus</i> ssp. <i>psammophilus</i>	Great Lakes Wheatgrass	G5T3	S3			GRank endemic	0	0	0	0	5	10	48	4
4	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	0	0	0	3	75	3
6	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	0	0	0	0	4	67	3
17	<i>Hymenoxys herbacea</i>	Lakeside Daisy	G2	S2	THR	THR	GRank endemic	0	6	0	0	29	17	100	all viable
1	<i>Iris lacustris</i>	Dwarf Lake Iris	G3	S3	THR		GRank endemic	0	0	0	0	100	1	100	4
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Osmorhiza depauperata</i>	Blunt-fruited Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Pellaea atropurpurea</i>	Purple-stemmed Cliffbrake	G5	S3				0	0	0	0	100	1	100	secondary
2	<i>Piperia unalascensis</i>	Alaskan Rein-orchid	G5	S4			disjunct	0	100	0	0	100	2	100	3
4	<i>Poa alpina</i>	Alpine Bluegrass	G5	S4			disjunct	0	0	0	0	0	3	75	3
6	<i>Potamogeton hillii</i>	Hill's Pondweed	G3	S2	SC	THR	GRank SAR	0	0	0	0	17	4	67	4
1	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	100	0	0	100	1	100	3
9	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR endemic	0	0	0	0	0	4	44	4
Mosses															
1	<i>Hypnum recurvatum</i>	A Moss	G3G5	S1			disjunct	0	0	0	0	0	1	100	4
1	<i>Pseudoleskeella tectorum</i>	A Moss	G5	S2			disjunct?	0	0	0	0	0	1	100	3
Birds															
3	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	50	1	50	secondary
1	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
5	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	1	20	secondary
2	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	secondary
5	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	0	0	0	0	3	100	4

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Lepidoptera															
1	<i>Osarisma garita</i>	Garita Skipperling	G5	S1			disjunct	0	0	0	0	0	1	100	3
Communities															
1	Black Ash Mineral Deciduous Swamp Type		G4	S5			high quality	0	0	0	0	0	0	0	secondary
1	Bracken Fern Sand Barren Type		G?	S2			SRank	0	100	0	0	100	1	100	3
1	Bulrush Organic Shallow Marsh Type		G?	S5			high quality	0	0	0	0	100	1	100	secondary
1	Bur-reed Submerged - Floating-leaved Shallow Aquatic Type		G5Q	S5			high quality	0	0	0	0	0	0	0	secondary
14	Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	7	14	100	all viable
2	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	50	2	100	all viable
1	Dry - Fresh Aspen - Poplar Deciduous Forest Type		G5	S5			high quality	0	0	0	0	0	0	0	secondary
1	Dry - Fresh Aspen Mixed Forest Ecosite		G5	S5			high quality	0	0	0	0	100	1	100	secondary
1	Dry - Fresh White Birch Deciduous Forest Type		G4?	S5			high quality	0	0	0	0	100	1	100	secondary
2	Dry - Fresh White Cedar Coniferous Forest Type		G4	S5			high quality	0	100	0	0	100	2	100	secondary
1	Dry - Fresh White Pine - Oak Mixed Forest Type		G4G5	S5			high quality	0	100	0	0	100	1	100	secondary
1	Dry Jack Pine Coniferous Forest Type		G4G5	S5			high quality	0	0	0	0	0	0	0	secondary
8	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	0	50	0	0	63	7	88	3
2	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	0	0	0	0	2	100	3
2	Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type		G2?	S2			GRank	0	50	0	0	100	2	100	all viable
3	Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type		G1?	S1			GRank	0	0	0	0	33	3	100	all viable
21	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type		G?	S2			SRank	0	0	0	0	5	8	38	3
1	Low Sedge - Clubrush Graminoid Fen Type		G2G4Q	S4			GRank	0	100	0	0	100	1	100	all viable
1	Narrow-leaved Sedge Organic Shallow Marsh Type		G4?	S5			high quality	0	0	0	0	100	1	100	secondary
14	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type		G2G3?	S2S3			GRank	0	7	0	0	29	14	100	all viable
8	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type		G2?	S2			GRank	0	0	0	0	13	8	100	all viable
2	Shrubby Cinquefoil Coastal Meadow Marsh Type		G2?	S1			GRank	0	100	0	0	100	2	100	all viable
2	Shrubby Cinquefoil Limestone Beach Type		G3G4	S2			GRank	0	0	0	0	50	2	100	all viable
3	Slender Sedge Graminoid Fen Type		G4G5	S5			high quality	0	67	0	0	100	3	100	secondary
1	Tamarack - Black Spruce Coniferous Organic Swamp Type		G5Q	S5			high quality	0	100	0	0	100	1	100	secondary
1	White Cedar Conifer Swamp		G5	S5			high quality	0	0	0	0	0	0	0	secondary
2	White Cedar Coniferous Organic Swamp Type		G4	S5			high quality	0	100	0	0	100	2	100	secondary
1	White Cedar Treed Limestone Cliff Type		G2Q	S3			GRank	0	100	0	0	100	1	100	all viable
1	Willow Mineral Thicket Swamp Type		G5	S5			high quality	0	100	0	0	100	1	100	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Note: The map legend refers to areas identified in the "Big Picture 2002" project at <http://nhic.mnr.gov.on.ca/MNR/nhic/documents/projects.cfm>

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 6E-17

Ecological System	# of Patches in 6E-17	Total Area (ha) of System in 6E-17	% of Total Area of 6E-17	% of Natural Cover in 6E-17	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Forests	17,711	247,592.44	67.09	79.62	18	260.31	0.11	165	1,178.56	0.48	884	12,419.56	5.02	952	51,749.13	20.90
Alvars	1,547	20,519.50	5.56	6.60	-	-	-	7	69.19	0.34	99	582.06	2.84	121	6,256.69	30.49
Wetlands	819	4,587.50	1.24	1.48	10	70.00	1.53	12	12.88	0.28	74	175.94	3.84	77	2,396.44	52.24
All ecological systems	26,098	373,512.98	100.00	100.00	38	910.19	0.24	253	1,391.56	0.37	1,515	36,392.25	9.74	1,618	84,064.25	22.51

Ecological systems details for Ecodistrict 6E-17

Ecological System	# of Patches in 6E-17	Total Area (ha) of System in 6E-17	% of Total Area of 6E-17	% of Natural Cover in 6E-17	# Patches in Federal Lands	Total Area (ha) in Federal Lands	% of System in Federal Lands	# Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% of System in Parks & PAs	# Patches in all Conservation Lands	Total Area (ha) of all Conservation Lands	% of System in all Conservation Lands	# Patches in the Blueprint	Total Area (ha) in the Blueprint	% of System in the Blueprint
Target Natural Ecological Systems																
Forests																
Bare Rock Ridge & Shallow Till Coniferous Forest Complex	400	2,397.63	0.65	0.77							93	898.56	37.48	94	1,442.13	60.15
Bare Rock Ridge & Shallow Till Mixed Forest Complex	194	4,293.06	1.16	1.38							57	1,662.00	38.71	59	2,333.56	54.36
Bare Rock Ridge & Shallow Till Deciduous Forest Complex	359	1,439.69	0.39	0.46							43	258.00	17.92	45	424.06	29.46
Beach and Shorecliff Coniferous Forest Complex	48	119.31	0.03	0.04										2	27.69	23.21
Beach and Shorecliff Mixed Forest Complex	78	433.75	0.12	0.14										3	129.94	29.96
Beach and Shorecliff Deciduous Forest Complex	111	382.56	0.10	0.12										4	166.19	43.44
Clay Plain Coniferous Forest Complex	392	1,559.44	0.42	0.50										2	69.38	4.45
Clay Plain Mixed Forest Complex	571	3,400.19	0.92	1.09										4	334.06	9.82
Clay Plain Deciduous Forest Complex	972	7,168.50	1.94	2.31										4	899.13	12.54
Coniferous Forest Complex on Peat and Muck	51	289.69	0.08	0.09				9	30.94	10.68				10	108.94	37.61
Mixed Forest Complex on Peat and Muck	57	783.63	0.21	0.25				4	11.38	1.45	9	30.94	3.95	7	306.31	39.09
Deciduous Forest Complex on Peat and Muck	52	462.00	0.13	0.15							4	11.38	2.46	2	141.25	30.57
Kame Moraine Mixed Forest Complex	4	27.13	0.01	0.01												
Kame Moraine Deciduous Forest Complex	9	61.56	0.02	0.02										2	4.56	7.41
Limestone Plain Coniferous Forest Complex	4,164	41,308.00	11.19	13.28				42	345.25	0.84	245	3,060.69	7.41	254	8,012.88	19.40
Limestone Plain Mixed Forest Complex	2,931	68,427.00	18.54	22.01				31	344.69	0.50	153	4,549.38	6.65	156	10,761.00	15.73
Limestone Plain Deciduous Forest Complex	3,840	62,454.00	16.92	20.08				15	65.50	0.10	178	1,178.19	1.89	183	6,318.63	10.12
Sand Plain Coniferous Forest Complex	942	5,915.00	1.60	1.90	6	33.44	0.57	29	99.44	1.68	45	179.75	3.04	44	509.13	8.61
Sand Plain Mixed Forest Complex	847	17,441.44	4.73	5.61	5	21.94	0.13	24	265.75	1.52	39	370.13	2.12	42	4,344.38	24.91
Sand Plain Deciduous Forest Complex	946	22,395.25	6.07	7.20	7	204.94	0.92	11	15.63	0.07	18	220.56	0.98	21	12,953.56	57.84
Till Moraine Coniferous Forest Complex	34	90.25	0.02	0.03										2	10.38	11.50
Till Moraine Mixed Forest Complex	107	579.19	0.16	0.19										2	87.25	15.06
Till Moraine Deciduous Forest Complex	131	2,036.50	0.55	0.65										2	1,081.81	53.12
Till Plain Coniferous Forest Complex	138	534.88	0.14	0.17										3	122.50	22.90
Till Plain Mixed Forest Complex	150	795.81	0.22	0.26										3	171.63	21.57
Till Plain Deciduous Forest Complex	183	2,797.00	0.76	0.90										2	988.81	35.35
Alvar	1,473	19,196.94	5.20	6.17				7	69.19	0.36	83	496.56	2.59	96	5,257.38	27.39
Alvar Grassland	15	341.81	0.09	0.11							7	6.19	1.81	10	323.31	94.59
Alvar Pavement	27	360.56	0.10	0.12							9	79.31	22.00	13	263.50	73.08
Alvar Savannah	32	620.19	0.17	0.20										2	412.50	66.51

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Wetlands																
Bog Complex	736	1,908.44	0.52	0.61	3	11.75	0.62	12	12.88	0.67	47	63.50	3.33	47	94.19	4.94
Fen Complex	41	424.88	0.12	0.14	2	1.44	0.34				8	21.94	5.16	10	243.63	57.34
Marsh Complex	25	512.31	0.14	0.16	2	24.56	4.79				9	42.81	8.36	11	361.81	70.62
Swamp Complex	17	1,741.88	0.47	0.56	3	32.25	1.85				10	47.69	2.74	9	1,696.81	97.41
Non-Target Natural Ecological Systems																
Coniferous Forest Complex	36	215.19	0.06	0.07												
Mixed Forest Complex	37	197.88	0.05	0.06												
Deciduous Forest Complex	25	105.94	0.03	0.03												
Other Landcover																
Bedrock Outcrop	2,303	8,168.13	2.21	2.63	9	31.69	0.39	24	63.00	0.77	279	1,187.94	14.54	289	1,635.31	20.02
Cutovers	42	293.88	0.08													
Pasture and Abandoned Fields	1,572	49,822.13	13.50					2	4.19	0.01	18	89.44	0.18	18	89.44	0.18
Unclassified (cloud & shadow)	86	4,380.94	1.19													
Water	1,759	29,573.02	8.01	9.51	1	548.19	1.51	43	63.75	0.18	159	21,934.63	60.46	159	21,934.56	60.46
Unknown Landcover	1	314.88	0.09													
Anthropogenic Land Types																
Settlement and Developed Land	9	780.38	0.21													
NRVIS Pit or Quarry	151	254.25	0.07								2	2.69	1.06	2	2.69	1.06

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Thessalon

Ecodistrict 5E-1

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 398,820 hectares (985,505 acres)

Land Ownership: 44% private, 47% Crown, 9% First Nations lands

Planning Authority: 100% Algoma District

Physiography:

The majority of this ecodistrict is composed of undifferentiated igneous and metamorphic rock that is exposed at the surface or covered by a discontinuous, thin layer of drift. The lowland areas and the Great Lakes shoreline of this ecodistrict contain patches of clay, silt and sand associated with areas of thinly covered bedrock and ridges of esker and moraine materials.

Natural Cover:

Approximately 90% of the ecodistrict is composed of natural cover, primarily forest. Tolerant hardwood forests comprise nearly half of this natural cover, with tolerant hardwoods on bedrock covering 30% of the ecodistrict. Mixed red and white pine complexes account for another 7% of the natural cover. The ecodistrict also contains jack pine forests and stands of mixed spruce and pine. Four percent of the natural cover is wetland, two-thirds of which are open muskeg. Nearly 11% of the 5E-1 is water, largely small and medium-sized lakes.

Land Use:

Five percent of 5E-1 has been converted to developed agricultural lands (21,140 ha), mainly scattered along the southern boundary. Over 8,700 hectares are devoted to settlement and developed lands, including the city of Sault Ste. Marie.

Protection and Conservation:

Conservation lands make up approximately 11% of Ecodistrict 5E-1 (42,967 ha). Provincially protected areas account for nearly all of this land (41,845 ha), for example Matinenda Provincial Park. Conservation



Authority areas account for 1,123 hectares in the ecodistrict. Nine percent of all occurrences of species and vegetation community targets in 5E-1 are within conservation lands. One rare vegetation community is found in a provincial park, and one disjunct plant species is found in a Conservation Authority area.

Species:

Ten of the 13 targeted species occurring in 5E-1 are plants, seven of which occur as disjuncts in the Great Lakes region. Three faunal species are at risk, including the provincially Endangered Bald Eagle (*Haliaeetus leucocephalus*) and Wood Turtle (*Glyptemys insculpta*), and the Black Tern (*Chlidonias niger*) - a species of Special Concern.

Vegetation Community Targets:

Two significant vegetation communities have been identified within 5E-1. Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland is provincially rare, and Tamarack Coniferous Organic Swamp is considered to be a high-quality representative community that is important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-1 includes approximately 20% of the natural vegetated cover, and nearly two-thirds of all occurrences of species and vegetation community targets in the ecodistrict.

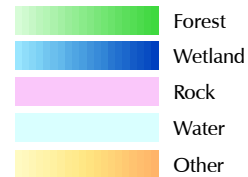
Great Lakes Conservation Blueprint for Biodiversity

THESSALON ECODISTRICT 5E-1

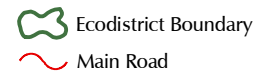
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Ecological Systems



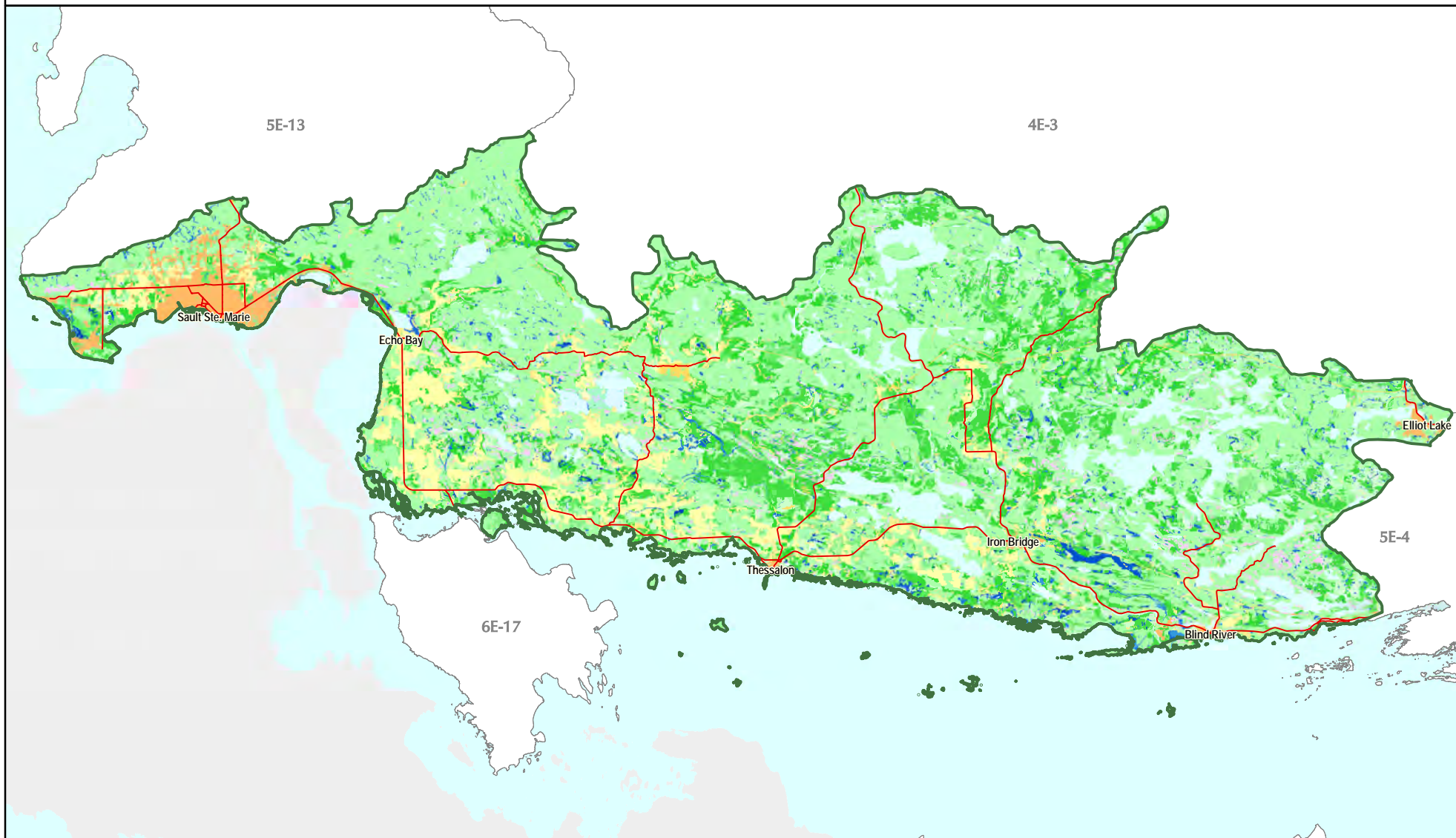
Other Information



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Projection: Lambert Conformal Conic (North American Datum 1983)



Great Lakes Conservation Blueprint for Biodiversity

THESSALON ECODISTRICT 5E-1

5 0 5 10 15 20 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

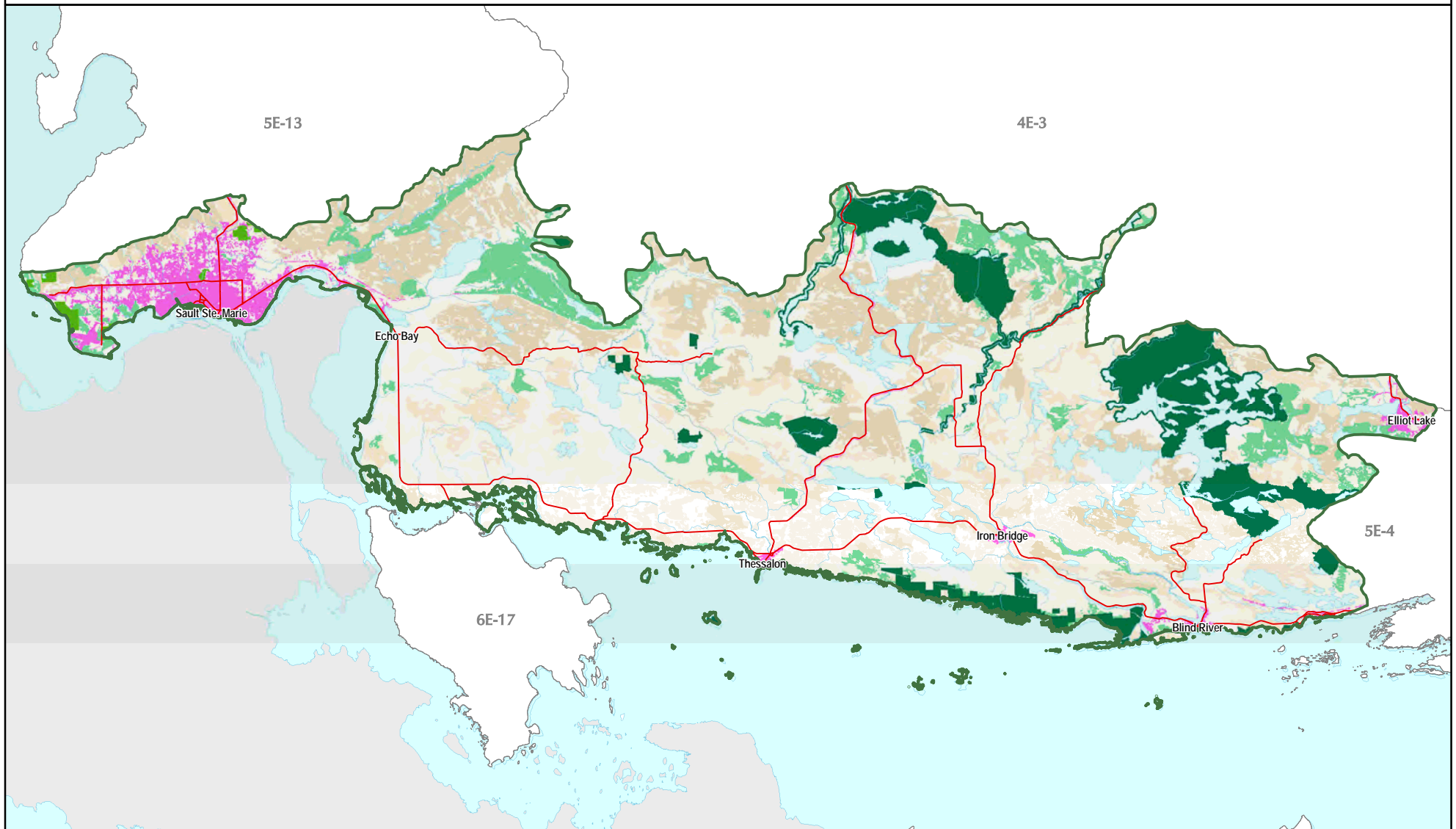
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation community and species targets in Ecodistrict 5E-1

Number of pops in 5E-1	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	0	2	100	3
1	<i>Botrychium acuminatum</i>	Moonwort	G1	S1			GRank endemic	0	0	0	0	0	1	100	all viable
1	<i>Botrychium hesperium</i>	Western Moonwort	G3	S1			GRank disjunct	0	0	0	0	0	1	100	4
1	<i>Botrychium pseudopinnatum</i>	Moonwort	G1	S1			GRank endemic	0	0	0	0	0	1	100	all viable
2	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	0	0	0	0	0	2	100	3
2	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	0	50	50	2	100	3
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	0	0	0	0	1	100	2
1	<i>Sagina nodosa</i>	Knotted Pearlwort	G5	S4S5			disjunct	0	0	0	0	0	1	100	3
1	<i>Tanacetum bipinnatum</i> ssp. <i>huronense</i>	St John Tansy	G5T4T5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Vaccinium ovalifolium</i>	Blue Bilberry	G5	S2			disjunct	0	0	0	0	0	1	100	3
Birds															
3	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
Communities															
1	Little Bluestem - Long-leaved Reed Grass - Great Lakes Wheat Grass Dune Grassland Type		G?	S2			SRank	0	100	0	0	100	1	100	3
1	Tamarack Coniferous Organic Swamp Type		G4	S5			high quality	0	0	0	0	0	0	0	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-1

Ecological System	# of Patches in 5E-1	% of Total Area (ha) in 5E-1	% of Total Natural Cover in 5E-1	Total Area (ha) in 5E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target forests	12318	67.91	75.41	270836.88	2473	28093.88	10.37	86	866.88	0.32	2559	28960.75	10.69	2614	56163.50	20.74
Target wetlands	1395	0.65	0.73	2611.94	121	233.56	8.94	35	25.63	0.98	156	259.19	9.92	163	920.31	35.23
All ecological systems	68899	100.00	100.00	398800.25	12168	41844.63	10.49	298	1122.63	0.28	12466	42967.25	10.77	12529	70849.06	17.77

Ecological systems details for Ecodistrict 5E-1

Ecological System	# of Patches in 5E-1	% of Total Area (ha) in 5E-1	% of Total Natural Cover in 5E-1	Total Area (ha) in 5E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
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Targeted Natural Ecological Systems
FORESTS

Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	962	4.00	4.44	15,941.25	166	1,654.38	10.38				166	1,654.38	10.38	158	2,708.94	16.99
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	24	0.09	0.10	357.25										3	184.63	51.68
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	16.31												
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	205	0.54	0.60	2,149.75	55	263.00	12.23				55	263.00	12.23	54	440.69	20.50
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	225	0.73	0.81	2,914.81	24	127.50	4.37	2	3.69	0.13	26	131.19	4.50	14	462.63	15.87
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	100	0.44	0.49	1,748.50										3	523.13	29.92
Aspen on organic deposits (peat, muck and marl)	109	0.26	0.29	1,047.19	30	205.19	19.59				30	205.19	19.59	29	226.69	21.65
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	298	0.77	0.86	3,080.94	32	224.75	7.29				32	224.75	7.29	32	461.81	14.99
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	164	0.51	0.57	2,051.94	49	322.38	15.71				49	322.38	15.71	53	737.50	35.94
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	22	0.03	0.03	100.25	6	18.94	18.89				6	18.94	18.89	7	26.44	26.37
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	12	0.01	0.01	33.63	3	2.19	6.51				3	2.19	6.51	3	2.19	6.51
White Birch on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	3	0.01	0.01	29.06												
White Birch on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	5	0.01	0.02	59.25				1	13.00	21.94	1	13.00	21.94	3	53.75	90.72
White Birch on organic deposits (peat, muck and marl)	4	0.01	0.01	32.38	3	23.25	71.81				3	23.25	71.81	3	23.25	71.81
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	21	0.02	0.02	61.25	14	23.50	38.37				14	23.50	38.37	14	23.50	38.37
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	810	2.83	3.14	11,290.31	171	1,574.81	13.95	2	0.94	0.01	173	1,575.75	13.96	177	2,401.88	21.27
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	33	0.07	0.08	277.69										3	59.88	21.56
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1	0.00	0.00	3.75												
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	169	0.56	0.62	2,235.44	33	268.44	12.01				33	268.44	12.01	33	374.38	16.75

Ecological System	# of Patches in 5E-1	% of Total Area (ha) in 5E-1	% of Total Natural Cover in 5E-1	Total Area (ha) in 5E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Targeted Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	175	0.54	0.60	2,140.25	31	268.06	12.52	1	10.13	0.47	32	278.19	13.00	25	369.31	17.26
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	47	0.14	0.16	560.06				6	6.06	1.08	6	6.06	1.08	9	71.31	12.73
Upland hardwood and mixed conifer on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	13	0.03	0.03	117.25										3	46.25	39.45
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	62	0.12	0.13	480.63	13	177.94	37.02				13	177.94	37.02	13	223.44	46.49
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	240	0.57	0.63	2,270.13	58	301.81	13.29				58	301.81	13.29	58	506.81	22.33
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	489	1.80	2.00	7,177.50	144	1,154.38	16.08	1	5.25	0.07	145	1,159.63	16.16	137	1,341.94	18.70
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	4	0.00	0.01	19.00												
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1	0.00	0.00	1.44												
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	70	0.19	0.21	759.25	52	164.44	21.66				52	164.44	21.66	53	261.00	34.38
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	53	0.17	0.19	692.56	1	8.38	1.21	1	8.13	1.17	2	16.50	2.38	5	87.31	12.61
Intolerant hardwoods on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	33	0.13	0.14	504.38				5	51.63	10.24	5	51.63	10.24	8	158.63	31.45
Intolerant hardwoods on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	15	0.04	0.05	166.31				4	38.31	23.04	4	38.31	23.04	3	107.19	64.45
Intolerant hardwoods on organic deposits (peat, muck and marl)	26	0.11	0.13	456.63	20	283.88	62.17				20	283.88	62.17	20	287.63	62.99
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	135	0.29	0.33	1,172.50	25	156.88	13.38				25	156.88	13.38	25	156.88	13.38
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	363	0.73	0.81	2,922.88	20	96.25	3.29	2	55.06	1.88	22	151.31	5.18	25	385.13	13.18
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.01	0.01	49.56												
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	79	0.25	0.28	995.69	11	42.31	4.25				11	42.31	4.25	12	97.13	9.75
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	113	0.29	0.32	1,144.31	23	172.19	15.05	5	32.00	2.80	28	204.19	17.84	29	318.00	27.79
Mixed Lowland Conifer on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	39	0.11	0.12	438.63				2	6.19	1.41	2	6.19	1.41	5	23.63	5.39
Mixed Lowland Conifer on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	10	0.04	0.05	174.13				1	4.31	2.48	1	4.31	2.48	4	108.94	62.56
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	51	0.10	0.11	381.00	19	182.38	47.87				19	182.38	47.87	19	194.94	51.16
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	80	0.13	0.14	500.75	14	85.13	17.00				14	85.13	17.00	14	86.06	17.19
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	52	0.16	0.18	642.38	9	11.38	1.77				9	11.38	1.77	11	200.88	31.27
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	4	0.01	0.01	46.63												

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Targeted Natural Ecological Systems																
FORESTS continued																
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	34	0.15	0.17	592.75	15	32.38	5.46				15	32.38	5.46	10	257.19	43.39
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	5	0.00	0.01	18.69												
Jack Pine on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	3	0.01	0.02	57.06				1	0.56	0.99	1	0.56	0.99	3	57.06	100.00
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	5	0.01	0.01	43.88	1	1.81	4.13				1	1.81	4.13	1	1.81	4.13
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	804	4.22	4.69	16,831.50	256	4,174.88	24.80	7	6.88	0.04	263	4,181.75	24.84	266	4,886.75	29.03
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	19	0.13	0.14	505.38										3	386.88	76.55
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	155	0.75	0.84	3,009.56	49	415.13	13.79	1	7.44	0.25	50	422.56	14.04	52	1,260.00	41.87
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	68	0.20	0.23	810.31	11	125.94	15.54	5	38.81	4.79	16	164.75	20.33	18	222.06	27.40
Mixed Red and White Pine on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	20	0.06	0.07	241.31										3	168.81	69.96
Mixed Red and White Pine on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	3	0.03	0.04	128.19				1	25.19	19.65	1	25.19	19.65	3	128.19	100.00
Mixed Red and White Pine on organic deposits (peat, muck and marl)	20	0.06	0.07	240.63	5	39.75	16.52				5	39.75	16.52	5	39.75	16.52
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	166	0.45	0.49	1,777.19	47	379.88	21.38				47	379.88	21.38	48	484.63	27.27
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	61	0.11	0.13	454.13	8	17.56	3.87				8	17.56	3.87	11	154.13	33.94
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	0.75												
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	16	0.02	0.03	91.00	2	5.69	6.25				2	5.69	6.25	3	50.69	55.70
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	13	0.08	0.09	312.75				2	97.00	31.02	2	97.00	31.02	4	230.31	73.64
Lowland Black Spruce on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	4	0.00	0.00	16.88												
Lowland Black Spruce on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	3	0.01	0.01	34.81				3	20.06	57.63	3	20.06	57.63	3	20.06	57.63
Lowland Black Spruce on organic deposits (peat, muck and marl)	5	0.02	0.03	91.94	3	23.44	25.49				3	23.44	25.49	4	87.56	95.24
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	23	0.02	0.02	82.31	3	6.31	7.67				3	6.31	7.67	6	8.75	10.63
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	755	1.44	1.60	5,758.94	90	469.00	8.14				90	469.00	8.14	93	540.13	9.38
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	24	0.06	0.07	245.69										3	42.19	17.17
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	9.25												
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	238	0.44	0.48	1,738.94	49	112.75	6.48	1	2.81	0.16	50	115.56	6.65	46	201.19	11.57

Henson, B.L. and K.E. Brodribb, 2005. Great Lakes Conservation Blueprint for Terrestrial Biodiversity. Volume 2: Ecodistrict Summaries. 344pp.



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Targeted Natural Ecological Systems																
FORESTS continued																
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	175	0.38	0.42	1,505.44	11	115.00	7.64	5	26.88	1.79	16	141.88	9.42	15	169.13	11.23
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	49	0.12	0.14	491.75										3	140.19	28.51
Mixed Spruce and Pine on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	15	0.02	0.03	98.88				3	14.00	14.16	3	14.00	14.16	4	22.25	22.50
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	48	0.12	0.14	490.38	13	203.69	41.54				13	203.69	41.54	14	216.75	44.20
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	227	0.35	0.39	1,391.94	30	264.38	18.99				30	264.38	18.99	30	264.38	18.99
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2023	27.35	30.37	109,069.19	483	9,797.81	8.98	7	191.69	0.18	490	9,989.50	9.16	494	18,454.13	16.92
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	72	0.63	0.70	2,531.19										3	1,772.06	70.01
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	17	0.13	0.15	523.31										3	407.44	77.86
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	490	3.51	3.89	13,978.75	141	1,156.00	8.27	7	43.00	0.31	148	1,199.00	8.58	141	3,119.63	22.32
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	410	2.55	2.83	10,150.81	68	677.94	6.68	9	118.94	1.17	77	796.88	7.85	82	1,589.88	15.66
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	132	1.37	1.52	5,466.56										5	1,533.56	28.05
Tolerant hardwoods on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	4	0.06	0.07	247.31				1	38.94	15.74	1	38.94	15.74	3	247.25	99.97
Tolerant hardwoods on organic deposits (peat, muck and marl)	177	0.85	0.94	3,370.94	27	421.06	12.49				27	421.06	12.49	26	859.75	25.50
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	697	5.31	5.90	21,181.88	135	1,839.81	8.69				135	1,839.81	8.69	139	4,395.38	20.75
WETLANDS																
Open Bog	184	0.03	0.04	129.94	3	4.63	3.56	3	0.31	0.24	6	4.94	3.80	7	6.38	4.91
Open Fen	48	0.07	0.08	274.13	17	54.50	19.88				17	54.50	19.88	18	158.81	57.93
Treed Bog	1098	0.40	0.45	1,603.38	101	174.44	10.88	32	25.31	1.58	133	199.75	12.46	135	208.56	13.01
Treed Fen	65	0.15	0.17	604.50										3	546.56	90.42
Non-Target Ecological Systems																
FORESTS																
Aspen on unknown bedrock	53	0.14	0.16	558.38	6	28.63	5.13				6	28.63	5.13	6	28.63	5.13
White Birch on unknown bedrock	15	0.02	0.02	66.31	4	14.69	22.15				4	14.69	22.15	4	14.69	22.15
Coniferous Forest on unknown bedrock	170	0.02	0.03	96.63	55	27.19	28.14				55	27.19	28.14	55	27.19	28.14
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	2	0.00	0.00	7.81	2	7.81	100.00				2	7.81	100.00	2	7.81	100.00
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2432	0.18	0.20	718.13	612	172.50	24.02	2	1.75	0.24	614	174.25	24.26	614	174.25	24.26
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	46	0.00	0.00	10.06												

Ecological System	# of Patches in 5E-1	% of Total Area (ha) in 5E-1	% of Total Natural Cover in 5E-1	Total Area (ha) in 5E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Ecological Systems																
FORESTS continued																
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	305	0.02	0.02	62.69	30	7.00	11.17	1	0.31	0.50	31	7.31	11.67	31	7.31	11.67
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	221	0.01	0.02	57.06	46	12.25	21.47				46	12.25	21.47	46	12.25	21.47
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	39	0.00	0.00	9.81												
Coniferous Forest on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	26	0.01	0.01	33.69												
Coniferous Forest on organic deposits (peat, muck and marl)	183	0.01	0.01	45.63	74	16.50	36.16				74	16.50	36.16	74	16.50	36.16
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	382	0.02	0.02	89.69	101	17.00	18.95				101	17.00	18.95	101	17.00	18.95
Deciduous Forest on unknown bedrock	958	0.09	0.10	357.19	174	36.50	10.22				174	36.50	10.22	174	36.50	10.22
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	6	0.00	0.00	9.19	5	9.06	98.64				5	9.06	98.64	5	9.06	98.64
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	10700	0.88	0.97	3,493.19	1631	292.50	8.37	31	11.69	0.33	1662	304.19	8.71	1662	304.19	8.71
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	341	0.04	0.04	144.38												
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	26	0.00	0.00	5.63												
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1138	0.10	0.11	388.00	174	40.63	10.47	2	0.69	0.18	176	41.31	10.65	176	41.31	10.65
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1424	0.24	0.27	953.50	105	36.56	3.83	15	2.56	0.27	120	39.13	4.10	120	39.13	4.10
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	584	0.11	0.12	445.94				4	1.50	0.34	4	1.50	0.34	4	1.50	0.34
Deciduous Forest on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	63	0.01	0.01	50.69				2	0.25	0.49	2	0.25	0.49	2	0.25	0.49
Deciduous Forest on organic deposits (peat, muck and marl)	550	0.04	0.04	151.31	196	25.31	16.73				196	25.31	16.73	194	27.00	17.84
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1909	0.17	0.19	685.56	251	41.31	6.03				251	41.31	6.03	252	41.50	6.05
Upland hardwood and mixed conifer on unknown bedrock	46	0.12	0.13	479.25	22	183.19	38.22				22	183.19	38.22	22	183.19	38.22
Intolerant hardwoods on unknown bedrock	21	0.03	0.03	102.13	4	0.50	0.49				4	0.50	0.49	4	0.50	0.49
Mixed Forest on unknown bedrock	478	0.04	0.04	147.94	113	53.75	36.33				113	53.75	36.33	113	53.75	36.33
Mixed forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	3	0.01	0.01	44.25	3	44.25	100.00				3	44.25	100.00	3	44.25	100.00
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5715	0.32	0.35	1,262.63	1483	272.00	21.54				1483	272.00	21.54	1483	272.00	21.54
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	137	0.01	0.01	25.44												
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2	0.00	0.00	0.38												
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	871	0.05	0.05	189.81	268	57.81	30.46				268	57.81	30.46	268	57.81	30.46
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	474	0.04	0.04	147.31	100	29.38	19.94	3	1.56	1.06	103	30.94	21.00	103	30.94	21.00

Ecological System	# of Patches in 5E-1	% of Total Area (ha) in 5E-1	% of Total Natural Cover in 5E-1	Total Area (ha) in 5E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Ecological Systems																
FORESTS continued																
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	94	0.01	0.02	54.38				2	0.88	1.61	2	0.88	1.61	2	0.88	1.61
Mixed forest on lacustrine deposits (gravel, sand, silt and clay, deposited on modern flood plains)	13	0.00	0.00	3.13				3	0.31	10.00	3	0.31	10.00	3	0.31	10.00
Mixed forest on organic deposits (peat, muck and marl)	229	0.01	0.01	30.06	46	4.75	15.80				46	4.75	15.80	46	4.75	15.80
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	968	0.05	0.05	185.31	190	28.25	15.24				190	28.25	15.24	190	28.25	15.24
Mixed Lowland Conifer on unknown bedrock	25	0.04	0.05	169.31	2	2.38	1.40				2	2.38	1.40	2	2.38	1.40
Jack Pine on unknown bedrock	3	0.01	0.01	46.25	1	3.00	6.49				1	3.00	6.49	1	3.00	6.49
Mixed Red and White Pine on unknown bedrock	88	0.22	0.24	860.50	36	135.38	15.73				36	135.38	15.73	36	135.38	15.73
Lowland Black Spruce on unknown bedrock	8	0.01	0.01	31.94	1	6.94	21.72				1	6.94	21.72	1	6.94	21.72
Mixed Spruce and Pine on unknown bedrock	85	0.15	0.16	581.69	16	51.00	8.77				16	51.00	8.77	16	51.00	8.77
Tolerant hardwoods on unknown bedrock	284	2.06	2.29	8,220.81	69	1,455.25	17.70				69	1,455.25	17.70	69	1,455.25	17.70
WETLANDS																
Open Muskeg	6627	2.07	2.30	8,271.56	1125	929.88	11.24	34	80.19	0.97	1159	1,010.06	12.21	1159	1,010.06	12.21
Treed Muskeg	665	0.39	0.44	1,572.81	158	236.94	15.06	8	67.13	4.27	166	304.06	19.33	166	304.06	19.33
OTHER LANDCOVER																
Barren & Scattered	1854	0.37		1,473.38	169	103.63	7.03				169	103.63	7.03	169	103.63	7.03
Brush and Alder	1508	1.50	1.67	5,985.50	232	515.50	8.61	3	1.50	0.03	235	517.00	8.64	235	517.00	8.64
Grass & Meadow	2867	2.07		8,266.25	43	18.75	0.23	1	8.13	0.10	44	26.88	0.33	44	26.88	0.33
Rock	6280	2.60	2.89	10,383.38	1341	1,264.69	12.18	20	19.50	0.19	1361	1,284.19	12.37	1362	1,299.25	12.51
Water	2886	9.65	10.71	38,482.88	666	7,328.13	19.04	27	8.75	0.02	693	7,336.88	19.07	694	7,337.88	19.07
Anthropogenic Land Types																
Developed Agricultural Land	444	5.30		21,140.19	2	0.19	0.00				2	0.19	0.00	2	0.19	0.00
Settlement and Developed Land	938	2.19		8,752.56	18	6.25	0.07	19	23.44	0.27	37	29.69	0.34	37	29.69	0.34

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

La Cloche

Ecodistrict 5E-3

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 89,270 hectares (220,592 acres)

Land Ownership: 18% private, 64% Crown, 18% First Nations lands

Planning Authority: 75% Sudbury District, 25% Manitoulin District

Physiography:

This ecodistrict is composed primarily of undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. There are pockets of till (predominantly sand matrix, and extremely stony and bouldery) and organic deposits along the southwestern boundary. Fluvial and glaciolacustrine deposits are found in the extreme western and northwestern portions of the ecodistrict.

Natural Cover:

Ninety-eight percent of the ecodistrict is composed of natural cover. Tolerant hardwoods on bedrock comprise 27% of this natural cover, followed by mixed red and white pine on bedrock with 15%. Other significant forest types include aspen on bedrock, upland hardwoods and mixed conifer on bedrock, and mixed spruce and pine on bedrock. Four percent of the natural cover is wetland, primarily open muskeg. There is also exposed bedrock (15%) scattered throughout Ecodistrict 5E-3.

Land Use:

Less than 600 hectares have been converted to developed agricultural lands. Approximately 217 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands make up approximately 61% of Ecodistrict 5E-3 (54,284 ha). Killarney Provincial Park and La Cloche Provincial Park



account for the majority of this land (54,217 ha). The remaining conservation land is the Spanish River Delta Marsh, a provincially significant wetland. Twenty percent of all occurrences of species and vegetation community targets in 5E-3 are in identified conservation lands, all of them provincially protected areas.

Species Targets:

Nine of the 11 targeted species occurring in 5E-3 are plants. There are four species at risk: the Endangered Gattinger's Agalinis (*Agalinis gattingeri*), the provincially Endangered Bald Eagle (*Haliaeetus leucocephalus*), the federally Threatened Hill's Thistle (*Cirsium hillii*) and the Houghton's Goldenrod (*Solidago houghtonii*), which is globally rare, endemic to the Great Lakes ecoregion and is designated as a species of special concern.

Vegetation Community Targets:

All of the six significant vegetation communities identified within 5E-3 are globally and provincially rare. These communities are alvar community types including several occurrences of Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-3 includes approximately 68% of the naturally vegetated cover, and nearly 83% of all occurrences of species and vegetation community targets.

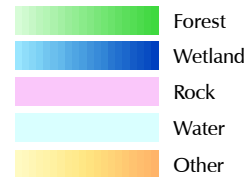
Great Lakes Conservation Blueprint for Biodiversity

LACLOCHE ECODISTRICT 5E-3

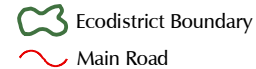
2 0 2 4 6 8 10 km



Ecological Systems



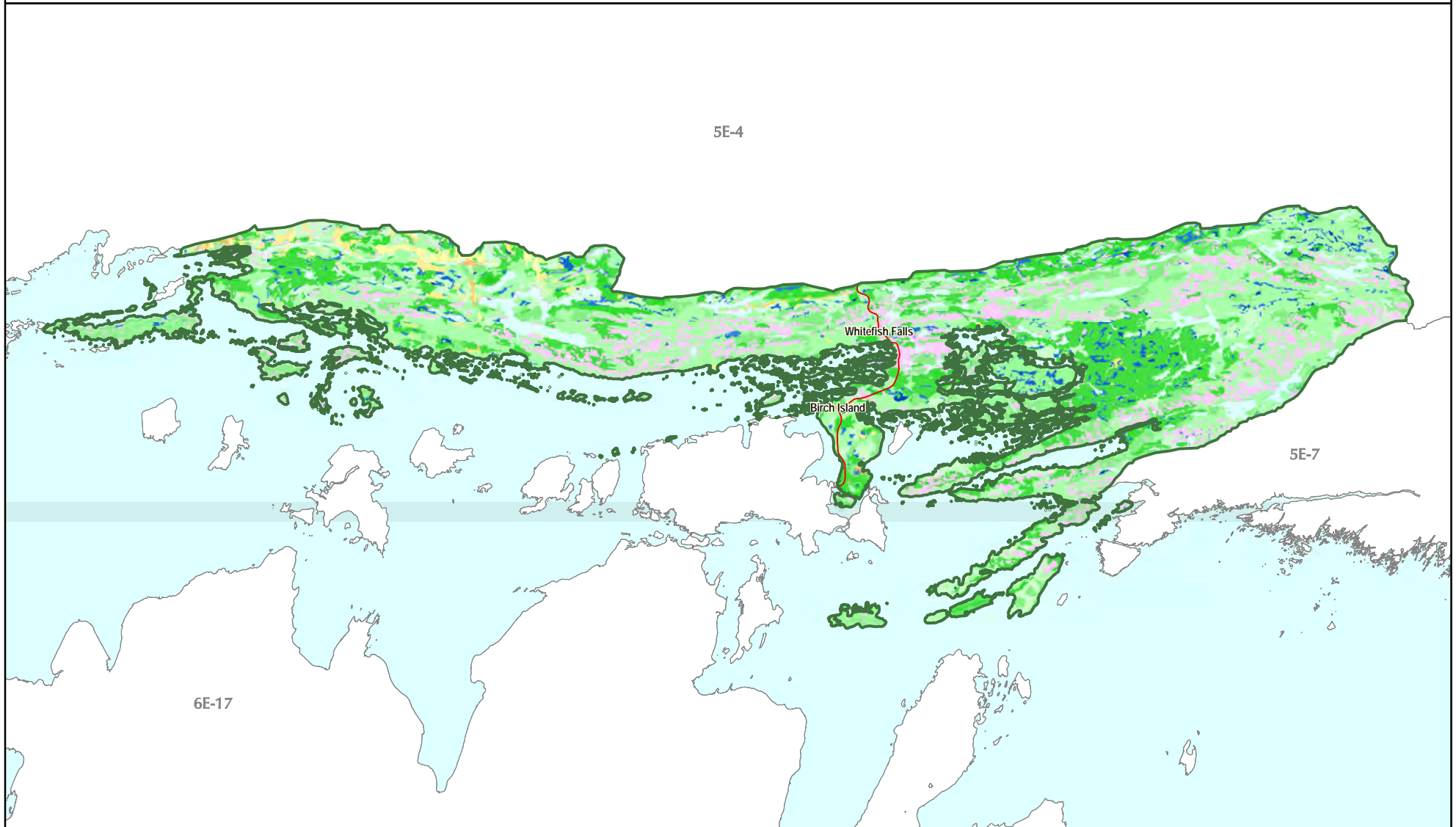
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

LACLOCHE ECODISTRICT 5E-3

2 0 2 4 6 8 10 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

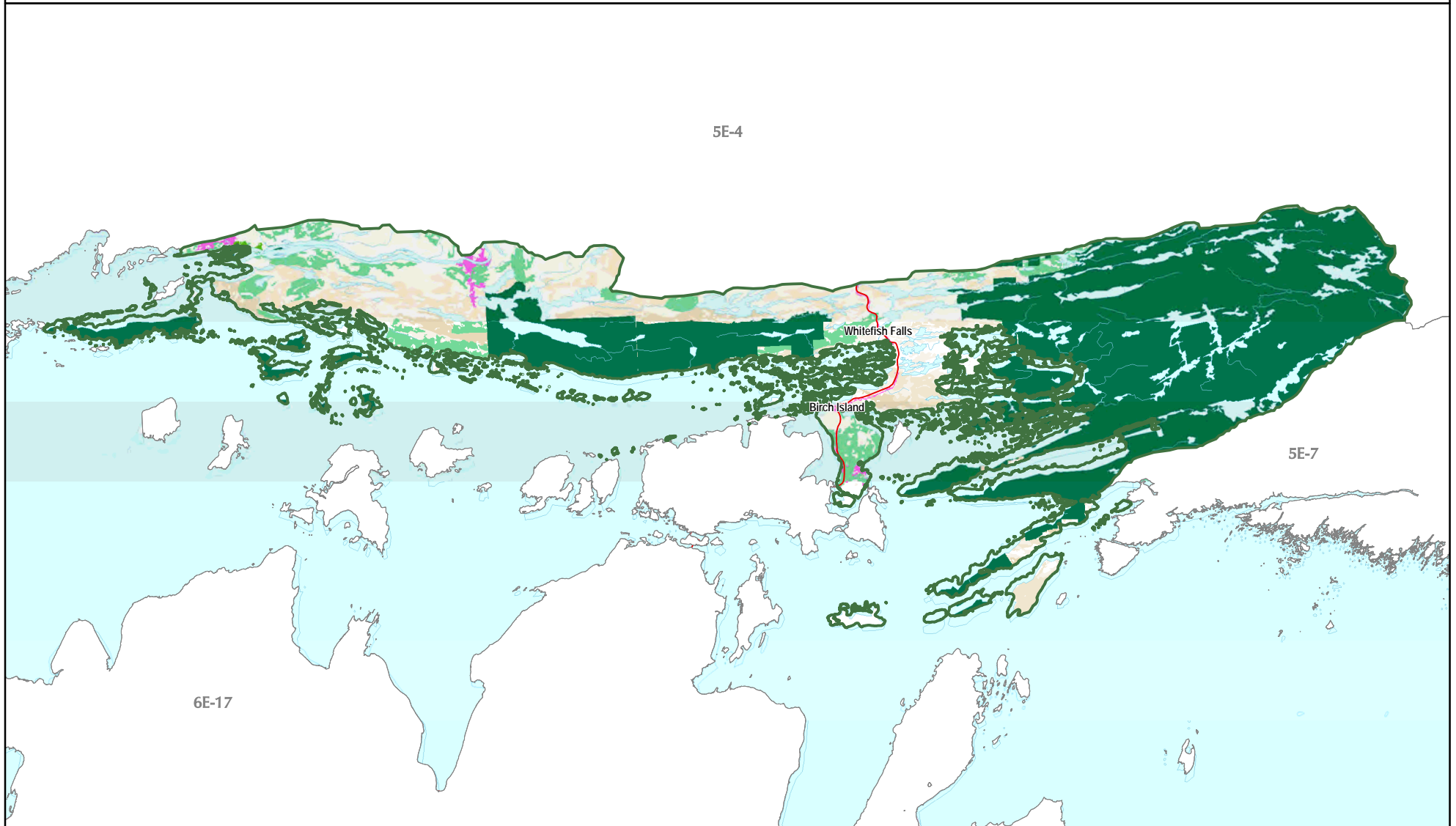
- Natural Heritage Values



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Documented extant vegetation community and species targets in Ecodistrict 5E-3

Number of pops in 5E-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
7	<i>Agalinis gattereri</i>	Gatterer's Agalinis	G4	S2	END	END	SAR	0	14	0	0	14	5	71	secondary
6	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	17	0	0	17	5	83	3
7	<i>Cirsium hillii</i>	Hill's Thistle	G3	S3	THR		GRank SAR	0	29	0	0	29	5	71	4
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	2	100	4
3	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	67	0	0	67	3	100	3
1	<i>Linum medium</i> var. <i>medium</i>	Stiff Yellow Flax	G5T3T4	S3			GRank endemic	0	0	0	0	0	1	100	4
1	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	100	0	0	100	1	100	3
1	<i>Orobancha fasciculata</i>	Broomrape	G4	S1			disjunct	0	0	0	0	0	1	100	3
10	<i>Solidago houghtonii</i>	Houghton's Goldenrod	G3	S2	SC		GRank SAR endemic	0	20	0	0	20	7	70	4
Birds															
2	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
Lepidoptera															
2	<i>Oarisma garita</i>	Garita Skipperling	G5	S1			disjunct	0	0	0	0	0	2	100	3
Communities															
3	Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	0	3	100	all viable
1	Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	0	1	100	all viable
1	Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type		G2?	S2			GRank	0	0	0	0	0	1	100	all viable
2	Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type		G1?	S1			GRank	0	0	0	0	0	2	100	all viable
6	Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type		G2G3?	S2S3			GRank	0	17	0	0	17	6	100	all viable
2	Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type		G2?	S2			GRank	0	50	0	0	50	2	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-3

Ecological System	# of Patches in 5E-3	% of Total Area (ha) in 5E-3	% of Total Natural Cover in 5E-3	Total Area (ha) in 5E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	1567	59.38	60.42	53005.31	679	31790.38	59.98	0	0.00	0.00	702	31811.63	60.02	758	36949.50	69.71
Target wetlands	464	0.82	0.83	728.25	369	564.50	77.51	0	0.00	0.00	369	564.50	77.51	369	564.50	77.51
All ecological systems	19540	100.00	100.00	89357.06	11219	54217.38	60.67	0.00	0.00	0.00	11279	54284.19	60.75	11344	59490.00	66.58

Ecological systems details for Ecodistrict 5E-3

Ecological System	# of Patches in 5E-3	% of Total Area (ha) in 5E-3	% of Total Natural Cover in 5E-3	Total Area (ha) in 5E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	9	0.23	0.24	208.63										3	88.50	42.42
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	128	3.87	3.93	3,450.31	63	1,289.63	37.38				65	1,298.00	37.62	59	1,718.50	49.81
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	22	0.15	0.16	138.31	2	0.13	0.09				2	0.13	0.09	3	56.81	41.08
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	9	0.08	0.08	67.13										4	50.63	75.42
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	40	0.23	0.24	208.44	1	0.06	0.03				3	1.88	0.90	5	9.31	4.47
Aspen on organic deposits (peat, muck and marl)	7	0.02	0.02	15.75	5	5.88	37.30				5	5.88	37.30	5	5.88	37.30
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4	0.02	0.02	14.50												
White Birch on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	3	0.00	0.00	3.44												
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8	0.08	0.09	75.50	4	69.44	91.97				4	69.44	91.97	5	75.25	99.67
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.01	0.01	6.50												
Upland hardwood and mixed conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	7	0.28	0.28	249.94										3	201.00	80.42
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	156	4.51	4.59	4,026.88	61	2,129.31	52.88				67	2,131.56	52.93	67	2,132.50	52.96
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	28	0.35	0.36	316.50	5	5.75	1.82				5	5.75	1.82	6	75.69	23.91
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	5	0.01	0.01	4.69												
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	39	0.74	0.75	660.25	7	17.63	2.67				11	18.56	2.81	18	400.50	60.66
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	9	0.07	0.07	65.25	1	0.94	1.44				1	0.94	1.44	3	39.38	60.34
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	3	0.11	0.11	99.94										3	99.94	100.00
Intolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	3.56												

Ecological System	# of Patches in 5E-3	% of Total Area (ha) in 5E-3	% of Total Natural Cover in 5E-3	Total Area (ha) in 5E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	32	1.22	1.24	1,091.56	27	862.94	79.06				27	862.94	79.06	27	869.25	79.63
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.02	0.02	17.00	1	6.56	38.60				1	6.56	38.60	1	6.56	38.60
Intolerant hardwoods on organic deposits (peat, muck and marl)	5	0.01	0.01	10.19	5	10.19	100.00				5	10.19	100.00	5	10.19	100.00
Mixed Lowland Conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	6	0.09	0.09	77.38										3	73.25	94.67
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	19	0.18	0.18	158.94	10	92.00	57.88				10	92.00	57.88	11	135.31	85.14
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	3	0.04	0.04	37.69												
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1	0.01	0.01	5.06												
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	7	0.12	0.12	104.88	2	1.81	1.73				2	1.81	1.73	5	93.31	88.97
Jack Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	3	0.00	0.00	0.75												
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	227	11.81	12.02	10,543.25	120	7,606.81	72.15				120	7,606.81	72.15	121	7,691.06	72.95
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	36	0.78	0.79	692.88										3	505.31	72.93
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	6	0.07	0.07	61.56										5	61.50	99.90
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	25	0.30	0.31	270.94	5	42.38	15.64				5	42.38	15.64	6	118.88	43.88
Mixed Red and White Pine on organic deposits (peat, muck and marl)	16	0.36	0.37	325.50	10	162.56	49.94				10	162.56	49.94	12	296.13	90.98
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	7	0.29	0.29	256.19										3	195.19	76.19
Mixed Spruce and Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	8	0.24	0.24	214.56										3	179.81	83.80
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	142	5.57	5.67	4,970.19	80	3,707.63	74.60				82	3,711.31	74.67	82	3,711.38	74.67
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	12	0.21	0.21	186.94										3	107.06	57.27
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	20	0.14	0.10	124.06	5	48.38	38.99				9	50.75	40.91	8	83.50	67.30
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1	0.10	0.14	88.19										1	88.19	100.00
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	10	0.24	0.25	215.88	6	43.00	19.92				6	43.00	19.92	8	181.38	84.02
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.00	0.00	3.69												
Tolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	11	0.37	0.38	332.63										3	247.00	74.26

Ecological System	# of Patches in 5E-3	% of Total Area (ha) in 5E-3	% of Total Natural Cover in 5E-3	Total Area (ha) in 5E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	341	23.56	23.97	21,029.81	228	15,264.50	72.59				231	15,266.31	72.59	226	15,805.56	75.16
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	20	0.50	0.51	445.25										3	222.44	49.96
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	6	0.16	0.17	145.50										3	137.88	94.76
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	72	1.30	1.32	1,162.00	15	197.75	17.02				15	197.75	17.02	14	545.19	46.92
Tolerant hardwoods on organic deposits (peat, muck and marl)	34	0.70	0.71	624.19	16	225.13	36.07				16	225.13	36.07	15	483.75	77.50
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	14	0.22	0.22	193.19										3	146.56	75.87
WETLANDS																
Open Bog	6	0.01	0.01	12.38												
Treed Bog	458	0.80	0.82	715.88	369	564.50	78.85				369	564.50	78.85	369	564.50	78.85
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	17	0.15	0.16	137.00	4	7.63	5.57				4	7.63	5.57	4	7.63	5.57
White Birch on unknown bedrock	2	0.01	0.01	12.50												
Coniferous Forest on unknown bedrock	378	0.64	0.65	571.06	188	383.56	67.17				188	383.56	67.17	188	383.56	67.17
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	27	0.02	0.02	19.25	1	0.75	3.90				1	0.75	3.90	1	0.75	3.90
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1998	2.15	2.19	1,921.25	1156	1,387.31	72.21				1156	1,387.31	72.21	1156	1,387.31	72.21
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	96	0.04	0.04	31.75	5	4.38	13.78				5	4.38	13.78	5	4.38	13.78
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	12	0.00	0.00	3.88												
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	188	0.06	0.06	49.25	31	9.75	19.80				32	9.81	19.92	32	9.81	19.92
Coniferous Forest on organic deposits (peat, muck and marl)	44	0.02	0.02	14.25	6	1.69	11.84				6	1.69	11.84	6	1.69	11.84
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	37	0.01	0.01	11.31												
Deciduous Forest on unknown bedrock	203	0.21	0.22	188.88	77	71.19	37.69				78	71.31	37.76	78	71.31	37.76
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	42	0.12	0.12	103.25												
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3183	2.35	2.39	2,093.44	2236	1,539.94	73.56				2236	1,539.94	73.56	2236	1,539.94	73.56
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	82	0.04	0.04	33.75	5	9.13	27.04				5	9.13	27.04	5	9.13	27.04
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	29	0.01	0.01	11.00												
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	221	0.14	0.14	120.94	13	7.13	5.89				16	7.75	6.41	16	7.75	6.41

Ecological System	# of Patches in 5E-3	% of Total Area (ha) in 5E-3	% of Total Natural Cover in 5E-3	Total Area (ha) in 5E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Deciduous Forest on organic deposits (peat, muck and marl)	95	0.04	0.05	39.56	31	15.38	38.86				31	15.38	38.86	31	15.38	38.86
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	13	0.01	0.01	9.44												
Upland hardwood and mixed conifer on unknown bedrock	57	0.39	0.40	350.69	30	145.69	41.54				33	145.94	41.61	33	145.94	41.61
Intolerant hardwoods on unknown bedrock	6	0.10	0.10	87.00	3	78.00	89.66				3	78.00	89.66	3	78.00	89.66
Mixed Forest on unknown bedrock	169	0.28	0.29	253.38	89	128.25	50.62				89	128.25	50.62	90	128.38	50.67
Mixed forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	55	0.21	0.21	185.31												
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2405	2.66	2.71	2,373.25	1775	1,972.69	83.12				1775	1,972.69	83.12	1776	1,972.75	83.12
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	50	0.01	0.01	10.75												
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	10	0.00	0.00	2.13												
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	95	0.04	0.04	33.75	25	7.19	21.30				25	7.19	21.30	25	7.19	21.30
Mixed forest on organic deposits (peat, muck and marl)	37	0.01	0.01	5.63	8	2.44	43.33				8	2.44	43.33	8	2.44	43.33
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	24	0.01	0.01	6.38												
Mixed Lowland Conifer on unknown bedrock	6	0.08	0.08	68.69										1	58.75	85.53
Jack Pine on unknown bedrock	5	0.04	0.04	37.19												
Mixed Red and White Pine on unknown bedrock	93	0.60	0.61	533.25	50	210.44	39.46				50	210.44	39.46	50	210.44	39.46
Mixed Spruce and Pine on unknown bedrock	48	0.22	0.23	199.31	17	49.75	24.96				17	49.75	24.96	17	49.75	24.96
Tolerant hardwoods on unknown bedrock	113	0.73	0.74	651.31	48	243.69	37.41				51	245.25	37.65	51	245.25	37.65
WETLANDS																
Open Muskeg	772	2.22	2.26	1,983.00	501	1,021.31	51.50				501	1,021.31	51.50	501	1,021.31	51.50
Treed Muskeg	114	0.47	0.48	422.25	90	298.19	70.62				90	298.19	70.62	90	298.19	70.62
OTHER LANDCOVER																
Barren & Scattered	160	0.11		100.69	11	0.75	0.74				11	0.75	0.74	11	0.75	0.74
Brush and Alder	165	0.84	0.86	752.00	69	115.88	15.41				75	152.88	20.33	75	152.88	20.33
Grass & Meadow	115	0.58		513.38	10	13.19	2.57				10	13.19	2.57	10	13.19	2.57
Rock	2877	15.06	15.33	13,445.81	1709	9,397.81	69.89				1722	9,402.63	69.93	1723	9,402.63	69.93
Water	3325	8.32	8.47	7,428.25	1982	4,738.81	63.79				1986	4,739.50	63.80	1991	4,748.50	63.92
Anthropogenic Land Types																
Developed Agricultural Land	37	0.66		590.94							3	0.44	0.07	3	0.44	0.07
Settlement and Developed Land	104	0.24		217.44	1	0.63	0.29				1	0.63	0.29	1	0.63	0.29

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Sudbury

Ecodistrict 5E-4

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 731,332 hectares (1,807,160 acres)

Land Ownership: 32% private, 64% Crown, 4% First Nations lands

Planning Authority: 55% Sudbury District, 30% City of Greater Sudbury, 15% Algoma District

Physiography:

The ecodistrict is largely composed of undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. Areas along the northern boundary consist of glaciofluvial and glaciolacustrine materials, with pockets of organic and till deposits. The northeastern boundary follows the glaciofluvial deposits, bedrock outcrops and the Sudbury Formation to define the boundary between 5E-4 and 5E-6.

Natural Cover:

Approximately 95% of the ecodistrict is composed of natural cover, primarily forest. The western portion of 5E-4 is dominated by tolerant hardwoods (15% of the forest cover), and large pockets of upland hardwoods and mixed conifers (13% of the forest cover). Mixed red and white pine complexes and mixed spruce and pine complexes compose 10% and 6% of the forest cover respectively, and are primarily in the eastern portion of 5E-4. Aspen dominates the western side of the city of Sudbury. Seven percent of the natural cover is wetland, primarily open muskeg. Rock outcrops cover another 8% of 5E-4.

Land Use:

Nearly 13,000 hectares of 5E-4 have been converted to developed agricultural lands and approximately 10,000 hectares consist of settlement and other associated developed lands, including the city of Sudbury.



Protection and Conservation:

Conservation lands make up approximately 4% of Ecodistrict 5E-4 (32,628 ha). Provincially protected areas account for the majority of this land (30,971 ha). Conservation Authority areas account for the remaining conservation lands (1657 ha). One-quarter of all occurrences of species and vegetation community targets are in conservation lands, all within provincially protected areas.

Species and Vegetation Community Targets:

There are six targeted species in 5E-4. These include three reptiles designated as species at risk, and the globally rare Extra-striped Snaketail (*Ophiogomphus anomalus*). The globally rare Sand Reed Grass (*Calamovilfa longifolia* var. *magna*) also occurs in 5E-4 and is considered endemic to the Great Lakes ecoregion. There are no documented rare vegetation communities in Ecodistrict 5E-4.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-4 includes approximately 10% of all naturally vegetated cover, and two-thirds of all occurrences of species and vegetation community targets.

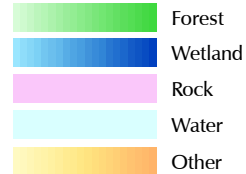
Great Lakes Conservation Blueprint for Biodiversity

SUDBURY ECODISTRICT 5E-4

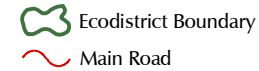
5 0 5 10 15 20 25 km



Ecological Systems



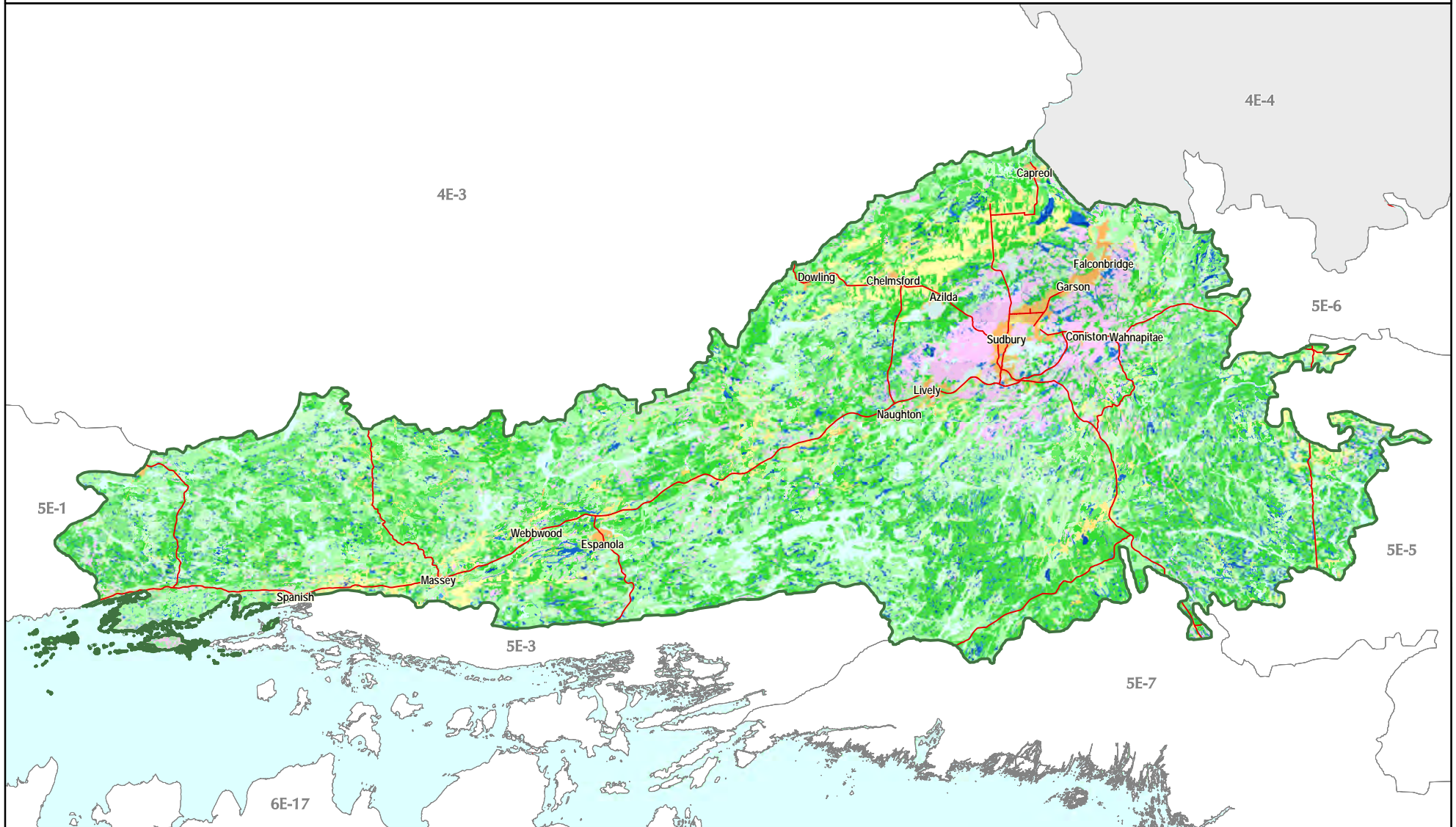
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

SUDBURY ECODISTRICT 5E-4

5 0 5 10 15 20 25 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

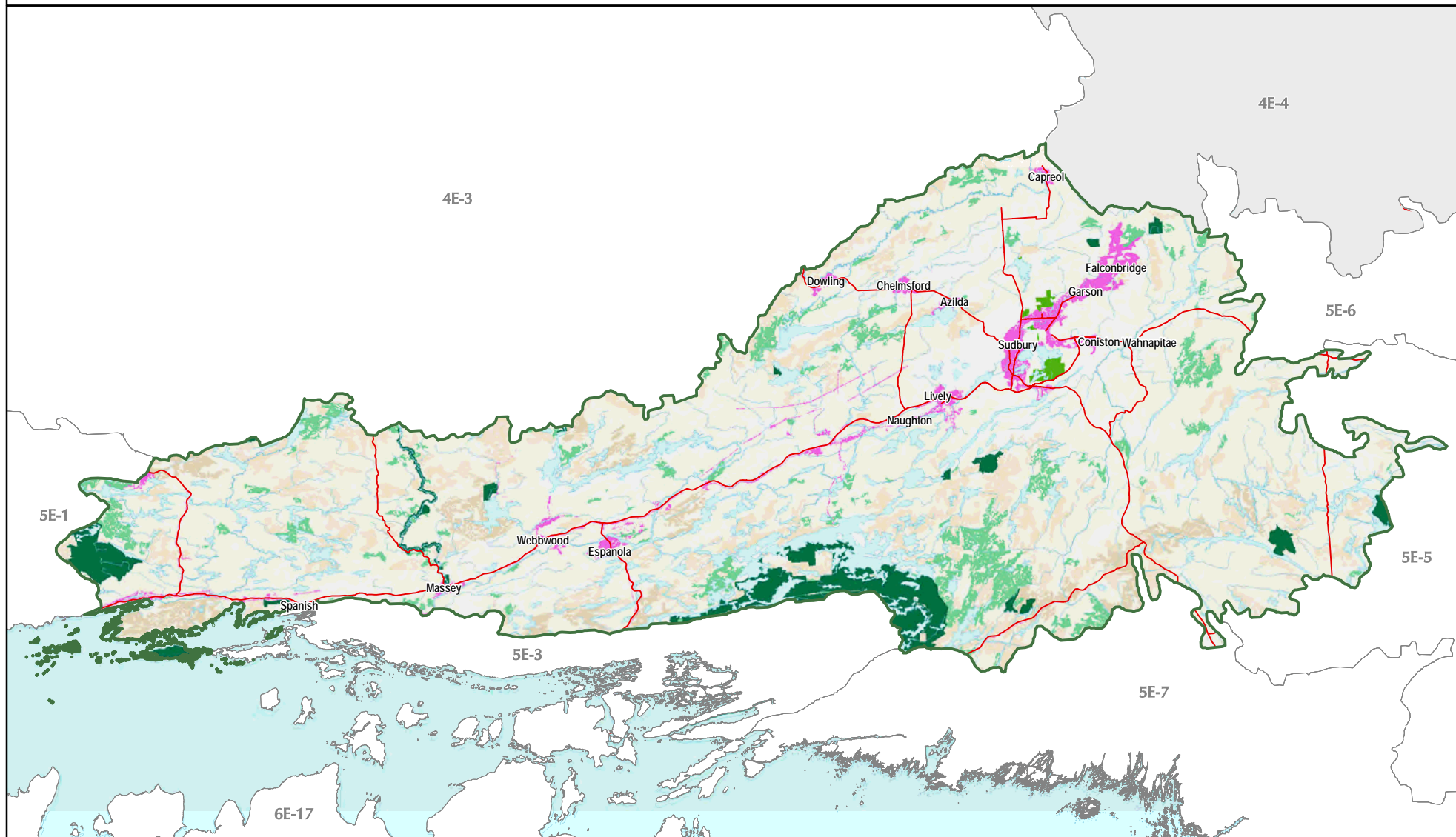
- Natural Heritage Values



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Documented extant species targets in Ecodistrict 5E-4

Number of pops in 5E-4	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	0	0	0	0	1	100	4
1	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	0	0	0	0	0	1	100	3
Reptiles															
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
1	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	0	0	0	0	0	1	100	4
2	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	50	0	0	50	2	100	4
Odonata															
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	100	0	0	100	1	100	4

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-4

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	22393	66.06	69.72	483151.56	1294	18957.25	3.92	66	701.56	0.15	1360	19658.81	4.07	1546	52443.25	10.85
Target wetlands	3840	1.04	1.10	7618.63	312	461.56	6.06	0	0.00	0.00	312	461.56	6.06	318	794.75	10.43
All ecological systems	160884	100.00	100.00	731182.88	8327	30971.38	4.24	485	1656.88	0.23	8812	32628.25	4.46	9012	65861.44	9.01

Ecological systems details for Ecodistrict 5E-4

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2674	8.45	8.91	61,778.88	125	2,453.75	3.97	18	227.69	0.37	143	2,681.44	4.34	135	3,932.50	6.37
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	132	0.12	0.13	909.63	2	9.44	1.04				2	9.44	1.04	5	278.13	30.58
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	40	0.05	0.06	393.31										3	119.69	30.43
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	356	0.88	0.92	6,407.69	12	88.25	1.38	6	75.19	1.17	18	163.44	2.55	23	761.13	11.88
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	290	0.65	0.69	4,785.50	3	0.94	0.02				3	0.94	0.02	6	375.19	7.84
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	386	0.85	0.89	6,193.25				3	40.19	0.65	3	40.19		6	329.88	5.33
Aspen on organic deposits (peat, muck and marl)	231	0.29	0.31	2,136.44	6	27.88	1.30				6	27.88	1.30	8	97.81	4.58
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	102	0.18	0.19	1,334.56	2	5.81	0.44				2	5.81	0.44	5	222.31	16.66
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	874	2.44	2.58	17,871.38	41	164.19	0.92	16	203.69	1.14	57	367.88	2.06	60	1,152.44	6.45
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	11	0.01	0.01	65.44	1	1.00	1.53				1	1.00	1.53	3	27.56	42.12
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	36	0.07	0.07	517.13										5	117.88	22.79
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	161	0.31	0.33	2,273.50	6	53.69	2.36	5	12.94	0.57	11	66.63	2.93	16	161.31	7.10
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	44	0.05	0.06	387.81	3	16.50	4.25				3	16.50	4.25	6	94.94	24.48
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	78	0.08	0.09	619.31				1	10.19	1.64	1	10.19	1.64	4	114.81	18.54
White Birch on organic deposits (peat, muck and marl)	52	0.05	0.06	381.56	8	32.13	8.42				8	32.13	8.42	9	126.13	33.05
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	63	0.13	0.14	946.31										3	194.50	20.55
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2833	9.53	10.06	69,687.94	150	2,204.19	3.16				150	2,204.19	3.16	157	5,573.56	8.00
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	126	0.22	0.23	1,591.94	11	32.06	2.01				11	32.06	2.01	14	353.75	22.22

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	32	0.08	0.08	566.31										3	325.75	57.52
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	244	0.48	0.51	3,501.31	7	31.75	0.91				7	31.75	0.91	10	228.19	6.52
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	260	0.43	0.45	3,112.81	8	36.94	1.19				8	36.94	1.19	22	344.38	11.06
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	205	0.46	0.48	3,359.25										3	540.75	16.10
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	270	0.41	0.43	3,006.81	10	183.63	6.11				10	183.63	6.11	11	334.00	11.11
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	160	0.30	0.32	2,213.81										3	394.81	17.83
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1686	6.21	6.56	45,427.75	79	1,175.13	2.59	13	94.00	0.21	92	1,269.13	2.79	86	1,654.06	3.64
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	39	0.06	0.06	437.56	6	5.19	1.19				6	5.19	1.19	8	209.94	47.98
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	23	0.03	0.03	202.88										4	130.69	64.42
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	210	0.39	0.41	2,857.63	12	26.38	0.92	1	0.38	0.01	13	26.75	0.94	13	314.69	11.01
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	104	0.20	0.21	1,434.81	2	7.75	0.54				2	7.75	0.54	4	250.75	17.48
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	110	0.20	0.22	1,496.38										3	144.50	9.66
Intolerant hardwoods on organic deposits (peat, muck and marl)	142	0.20	0.21	1,450.50	6	43.44	2.99				6	43.44	2.99	9	261.81	18.05
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	120	0.22	0.23	1,611.94										3	421.25	26.13
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	391	0.34	0.36	2,508.25	27	133.81	5.33				27	133.81	5.33	28	164.13	6.54
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	15	0.01	0.01	77.38	2	3.81	4.93				2	3.81	4.93	3	25.75	33.28
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2	0.00	0.00	10.06												
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	69	0.10	0.10	722.13	10	83.94	11.62				10	83.94	11.62	11	174.94	24.23
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	37	0.04	0.04	299.13										3	65.31	21.83
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	20	0.02	0.02	170.31										3	36.25	21.28
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	54	0.05	0.05	344.25	8	22.75	6.61				8	22.75	6.61	10	69.88	20.30
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	25	0.03	0.03	211.50										3	53.31	25.21
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	329	0.86	0.91	6,278.44	9	46.75	0.74				9	46.75	0.74	12	923.81	14.71
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	33	0.04	0.04	261.06	8	3.38	1.29				8	3.38	1.29	4	85.06	32.58

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	11	0.01	0.01	58.63										3	15.44	26.33
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	94	0.26	0.27	1,872.69	14	40.06	2.14				14	40.06	2.14	17	354.06	18.91
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	44	0.10	0.10	704.75										3	168.50	23.91
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	14	0.02	0.02	151.00										3	81.00	53.64
Jack Pine on organic deposits (peat, muck and marl)	44	0.05	0.06	402.06										3	69.13	17.19
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	20	0.03	0.04	254.50										3	180.75	71.02
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1622	8.49	8.96	62,061.13	188	4,137.38	6.67				188	4,137.38	6.67	184	13,011.00	20.96
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	50	0.11	0.11	769.44	8	24.88	3.23				8	24.88	3.23	9	139.44	18.12
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	23	0.03	0.03	214.50										3	130.25	60.72
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	158	0.19	0.20	1,386.00	7	53.56	3.86				7	53.56	3.86	10	108.50	7.83
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	93	0.11	0.12	811.31	2	6.06	0.75				2	6.06	0.75	5	165.38	20.38
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	68	0.07	0.07	495.69				1	0.75	0.15	1	0.75	0.15	5	32.13	6.48
Mixed Red and White Pine on organic deposits (peat, muck and marl)	150	0.24	0.25	1,728.38	18	51.94	3.00				18	51.94	3.00	17	324.25	18.76
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	137	0.33	0.35	2,423.69										3	761.94	31.44
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	219	0.22	0.23	1,623.81	10	75.75	4.66				10	75.75	4.66	12	139.69	8.60
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	18	0.01	0.01	39.19	6	8.44	21.53				6	8.44	21.53	6	8.44	21.53
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	5	0.01	0.01	51.00										3	47.50	93.14
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	42	0.03	0.03	218.19	3	5.44	2.49				3	5.44	2.49	6	11.38	5.21
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	8	0.01	0.01	46.63												
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	7	0.00	0.00	19.81												
Lowland Black Spruce on organic deposits (peat, muck and marl)	54	0.05	0.05	347.06										3	114.81	33.08
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	30	0.03	0.03	193.50										4	77.81	40.21
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1948	4.79	5.05	35,027.38	109	1,666.81	4.76				109	1,666.81	4.76	113	5,066.25	14.46
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	101	0.14	0.15	1,017.06	17	58.56	5.76				17	58.56	5.76	18	155.31	15.27

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	13	0.02	0.02	125.00										4	47.00	37.60
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	202	0.27	0.29	2,007.63	15	49.13	2.45				15	49.13	2.45	15	196.00	9.76
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	188	0.18	0.19	1,294.25	1	0.25	0.02				1	0.25	0.02	4	105.38	8.14
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	155	0.22	0.24	1,640.25										3	219.19	13.36
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	172	0.20	0.21	1,428.44	12	54.38	3.81				12	54.38	3.81	14	155.19	10.86
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	101	0.15	0.15	1,062.19										3	186.19	17.53
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2320	11.91	12.57	87,131.94	255	5,261.50	6.04	2	36.56	0.04	257	5,298.06	6.08	256	6,180.69	7.09
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	130	0.21	0.22	1,551.06	18	62.06	4.00				18	62.06	4.00	19	510.44	32.91
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	14	0.05	0.05	333.31										2	32.19	9.66
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	310	0.65	0.68	4,734.50	18	196.13	4.14				18	196.13	4.14	25	759.69	16.05
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	232	0.35	0.37	2,596.06	6	21.13	0.81				6	21.13	0.81	9	259.19	9.98
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	144	0.21	0.22	1,501.88										3	146.31	9.74
Tolerant hardwoods on organic deposits (peat, muck and marl)	226	0.33	0.35	2,414.31	23	289.38	11.99				23	289.38	11.99	24	496.81	20.58
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	157	0.49	0.52	3,569.56										5	798.56	22.37
WETLANDS																
Open Bog	218	0.06	0.07	466.38	8	16.25	3.48				8	16.25	3.48	9	17.44	3.74
Open Fen	11	0.01	0.01	69.00										3	59.00	85.51
Treed Bog	3605	0.97	1.02	7,059.00	304	445.31	6.31				304	445.31	6.31	306	718.31	10.18
Treed Fen	6	0.00	0.00	24.25												
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	121	0.14	0.15	1,041.69	31	108.38	10.40				31	108.38	10.40	31	108.38	10.40
White Birch on unknown bedrock	24	0.03	0.03	193.31	4	17.25	8.92				4	17.25	8.92	4	17.25	8.92
Coniferous Forest on unknown bedrock	219	0.02	0.02	133.00	21	25.06	18.84				21	25.06	18.84	21	25.06	18.84
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	14266	0.69	0.73	5,029.19	514	202.44	4.03	15	6.06	0.12	529	208.50	4.15	529	208.50	4.15
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	423	0.02	0.02	119.69	56	14.44	12.06				56	14.44	12.06	56	14.44	12.06
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	42	0.00	0.00	9.31												

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Non-Target Natural Ecological Systems																
FORESTS continued																
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	605	0.03	0.03	217.44	39	13.81	6.35				39	13.81	6.35	39	13.81	6.35
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	602	0.02	0.02	172.56	11	5.13	2.97				11	5.13	2.97	11	5.13	2.97
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	270	0.01	0.01	76.94												
Coniferous Forest on organic deposits (peat, muck and marl)	441	0.02	0.02	140.00	22	7.44	5.31				22	7.44	5.31	22	7.44	5.31
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	509	0.03	0.03	205.50												
Deciduous Forest on unknown bedrock	636	0.09	0.10	672.13	156	222.56	33.11				156	222.56	33.11	156	222.56	33.11
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	33310	1.96	2.07	14,322.75	1268	1,089.38	7.61	156	48.44	0.34	1424	1,137.81	7.94	1424	1,137.81	7.94
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	788	0.04	0.04	297.81	61	31.75	10.66				61	31.75	10.66	61	31.75	10.66
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	132	0.01	0.01	41.75												
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1680	0.13	0.14	955.81	23	8.31	0.87	26	12.69	1.33	49	21.00	2.20	49	21.00	2.20
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1565	0.10	0.11	736.19	6	1.75	0.24				6	1.75	0.24	7	1.81	0.25
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2218	0.14	0.15	1,034.94				14	8.56	0.83	14	8.56	0.83	15	9.25	0.89
Deciduous Forest on organic deposits (peat, muck and marl)	827	0.04	0.04	304.69	34	16.63	5.46				34	16.63	5.46	34	16.63	5.46
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	725	0.05	0.05	371.38	2	0.13	0.03				2	0.13	0.03	2	0.13	0.03
Upland hardwood and mixed conifer on unknown bedrock	79	0.17	0.18	1,262.06	14	166.13	13.16				14	166.13	13.16	14	166.13	13.16
Intolerant hardwoods on unknown bedrock	75	0.11	0.12	835.69	8	76.19	9.12				8	76.19	9.12	8	76.19	9.12
Mixed Forest on unknown bedrock	686	0.08	0.08	578.25	176	110.63	19.13				176	110.63	19.13	176	110.63	19.13
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	15501	0.83	0.87	6,053.81	1081	781.88	12.92				1081	781.88	12.92	1082	781.88	12.92
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	373	0.01	0.01	99.63	25	9.19	9.22				25	9.19	9.22	25	9.19	9.22
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	39	0.00	0.00	7.88												
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	740	0.03	0.04	246.94	49	14.44	5.85				49	14.44	5.85	49	14.44	5.85
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	532	0.03	0.03	195.88	13	4.19	2.14				13	4.19	2.14	13	4.19	2.14
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	288	0.01	0.01	94.88												
Mixed forest on organic deposits (peat, muck and marl)	490	0.02	0.02	171.81	46	12.56	7.31				46	12.56	7.31	46	12.56	7.31
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	583	0.04	0.04	287.13	1	0.25	0.09				1	0.25	0.09	1	0.25	0.09
Mixed Lowland Conifer on unknown bedrock	4	0.00	0.00	34.19	2	31.31	91.59				2	31.31	91.59	2	31.31	91.59

Ecological System	# of Patches in 5E-4	% of Total Area (ha) in 5E-4	% of Total Natural Cover in 5E-4	Total Area (ha) in 5E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CAs	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Jack Pine on unknown bedrock	8	0.00	0.00	20.13	1	10.13	50.31				1	10.13	50.31	1	10.13	50.31
Mixed Red and White Pine on unknown bedrock	109	0.17	0.18	1,229.56	25	344.50	28.02				25	344.50	28.02	25	344.50	28.02
Lowland Black Spruce on unknown bedrock	1	0.00	0.00	8.63												
Mixed Spruce and Pine on unknown bedrock	85	0.10	0.11	757.06	19	143.81	19.00				19	143.81	19.00	19	143.81	19.00
Tolerant hardwoods on unknown bedrock	174	0.51	0.54	3,749.13	42	1,302.06	34.73				42	1,302.06	34.73	42	1,302.06	34.73
WETLANDS																
Open Muskeg	16334	4.53	4.78	33,102.94	811	1,083.00	3.27	34	200.81	0.61	845	1,283.81	3.88	847	1,283.94	3.88
Treed Muskeg	1825	0.99	1.04	7,221.50	187	504.69	6.99				187	504.69	6.99	187	504.69	6.99
OTHER LANDCOVER																
Barren & Scattered	5570	0.30		2,225.38	97	35.50	1.60	17	1.06	0.05	114	36.56	1.64	114	36.56	1.64
Brush and Alder	3908	2.20	2.32	16,105.13	123	290.50	1.80	7	40.25	0.25	130	330.75	2.05	130	330.75	2.05
Grass & Meadow	2696	1.80		13,163.06	15	6.06	0.05				15	6.06	0.05	15	6.06	0.05
Rock	16049	7.91	8.34	57,819.19	743	1,965.31	3.40	126	495.06	0.86	869	2,460.38	4.26	869	2,460.38	4.26
Unclassified (Cloud & Shadow)	104	0.01	5.82	85.56	9	2.75	3.21				9	2.75	3.21	9	2.75	3.21
Water	6665	6.32	6.67	46,256.31	980	2,871.88	6.21	13	135.94	0.29	993	3,007.81	6.50	996	3,122.50	6.75
Anthropogenic Land Types																
Developed Agricultural Land	610	1.77		12,950.88												
Settlement and Developed Land	1720	1.34		9,774.06	6	21.19	0.22	11	6.44	0.07	17	27.63	0.28	17	27.63	0.28

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

North Bay

Ecodistrict 5E-5

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 511,764 hectares (1,264,597 acres)

Land Ownership: 39% private, 67% Crown, 4% First Nations lands

Planning Authority: 48% Nipissing District, 42% Parry Sound District, 10% Sudbury District

Physiography:

This ecodistrict is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. The northern boundary follows the transition between glaciolacustrine deposits and Lake Nipissing in 5E-5 and the moderately broken terrain of bedrock and glaciofluvial deposits of 5E-6. The southeastern portion contains large areas of glaciofluvial and till deposits. There are also pockets of organic materials around Lake Nipissing. Twenty percent of the ecodistrict is water, primarily Lake Nipissing, and portions of the French River and Mattawa River.

Natural Cover:

Approximately 92% of the ecodistrict remain as natural cover, primarily as forests. Tolerant hardwoods on bedrock represent 24% of the vegetated cover; this ecological system is largely concentrated in the southern portion of the ecodistrict. Mixed red and white pine comprise 10% of the forested cover, predominantly in the west. Upland hardwoods and mixed conifers, mixed spruce and pine forests, and aspen forests are also scattered throughout the ecodistrict each representing about 8% of the forested area.

Land Use:

Four percent of 5E-5 has been converted to developed agricultural lands (20,864 ha) primarily near the northwestern shores of Lake Nipissing and to the west of Sturgeon Falls. Over 2,500 hectares are devoted to settlement and other associated developed lands including North Bay and Sturgeon Falls.



Protection and Conservation:

Conservation lands make up approximately 7% of Ecodistrict 5E-5 (35,554 ha). Provincially protected areas account for the majority of this land (33,366 ha) including French River Provincial Park and Cache Bay Wetlands Conservation Reserve. The remainder of the conservation lands are primarily provincially significant wetlands, including Cache Bay Wetland. One-quarter of all occurrences of species and vegetation community targets are within conservation lands.

Species Targets:

Half of the eight targeted species occurring in 5E-5 are birds. Seven species are designated as species at risk, including the Endangered Butternut (*Juglans cinerea*) and Loggerhead Shrike (*Lanius ludovicianus*), as well as the Threatened Eastern Hog-nosed Snake (*Heterodon platirhinos*).

Vegetation Community Targets:

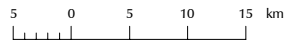
Atlantic Coastal Plain Shallow Marsh is the only rare vegetation community documented in 5E-5. This community is globally and provincially rare.

Conservation Blueprint:

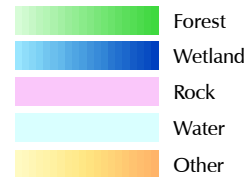
The Conservation Blueprint portfolio in Ecodistrict 5E-5 includes approximately 14% of all natural vegetated cover, and over half of the occurrences of species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

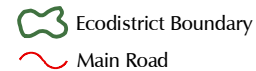
NORTH BAY ECODISTRICT 5E-5



Ecological Systems



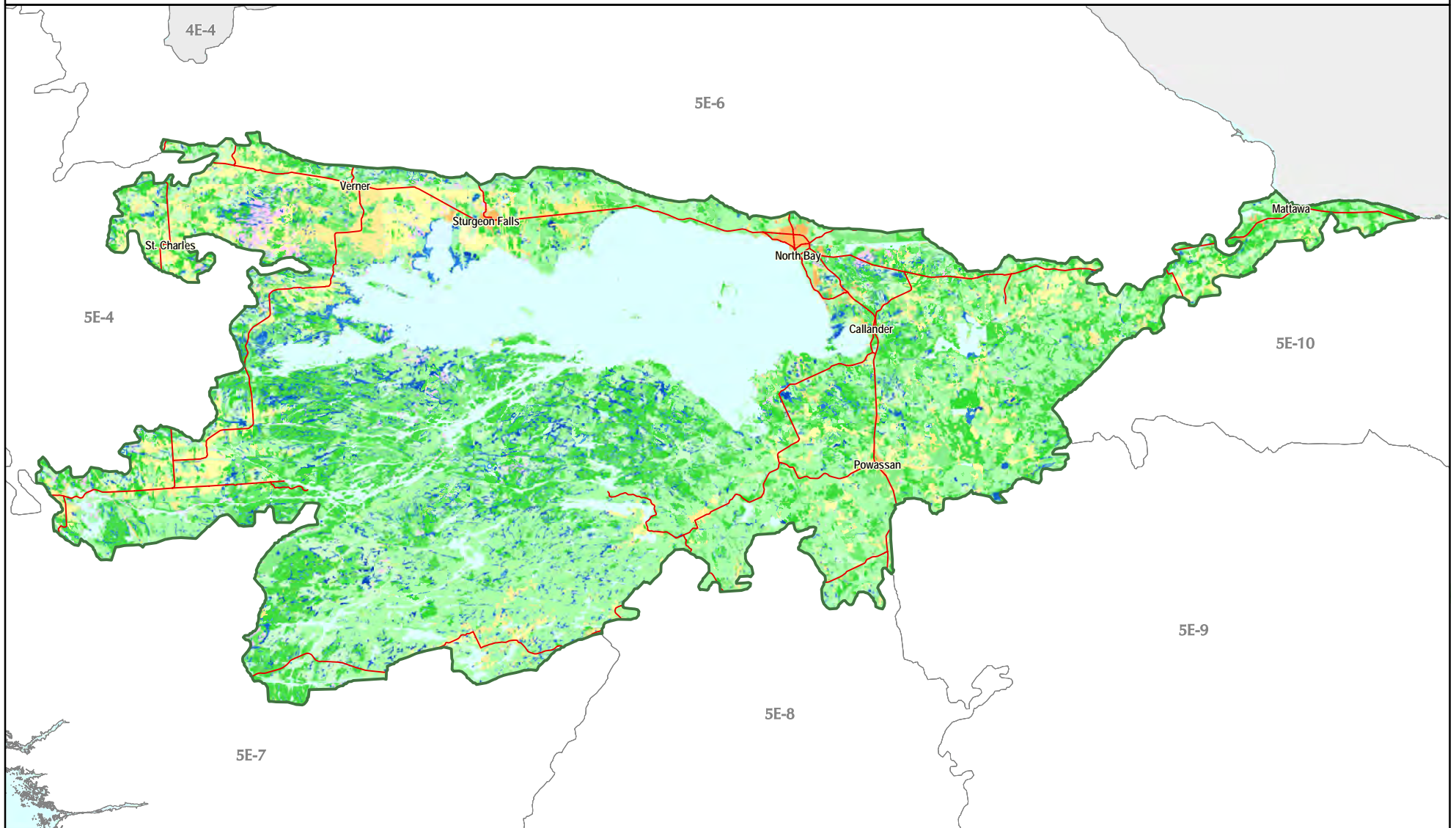
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

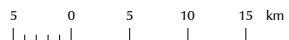
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

NORTH BAY ECODISTRICT 5E-5



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

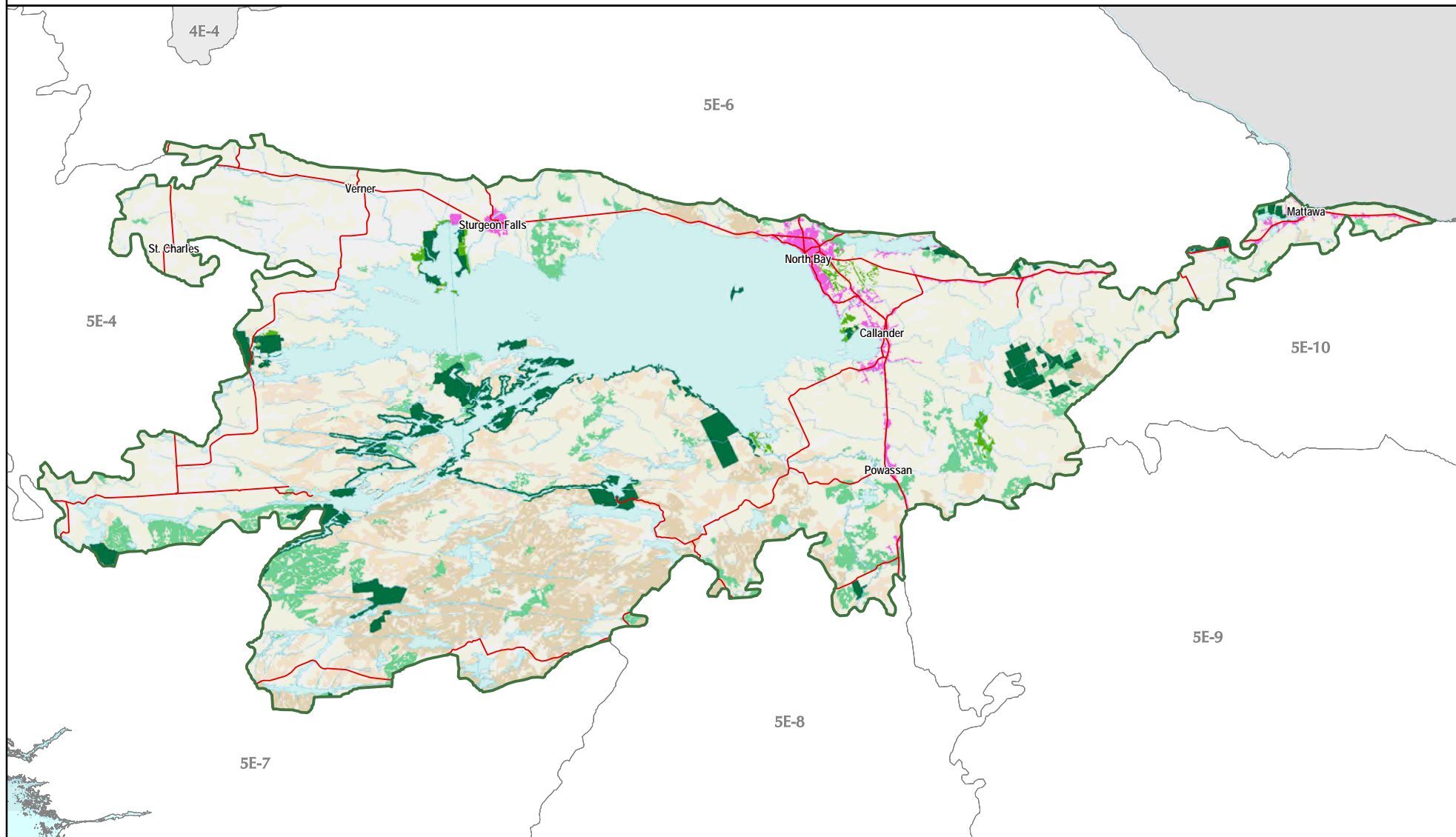
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation community and species targets in Ecodistrict 5E-5

Number of pops in 5E-5	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	100	0	0	100	1	100	2
Mosses															
1	<i>Trichodon cylindricus</i>	A Moss	G4G5	S1			disjunct	0	0	0	0	0	1	100	3
Birds															
1	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0		0	secondary
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	100	1	100	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	100	1	100	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
1	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
2	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Communities															
2	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	0	0	0	0	2	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-5

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	20284	58.77	63.89	300743.38	2279	15583.25	5.18	2905	16659.75	5.54	3055	41728.56	13.88
Target wetlands	5506	2.06	2.24	10566.69	364	705.44	6.68	417	861.69	8.15	423	988.81	9.36
All ecological systems	124948	100.00	100.00	511903.94	12851	33365.75	6.52	14676	35553.88	6.95	14834	60884.19	11.89

Ecological systems details for Ecodistrict 5E-5

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems													
FORESTS													
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1981	4.48	4.87	22,916.00	205	994.06	4.34	352	1,100.69	4.80	344	1,917.13	8.37
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	32	0.05	0.05	254.94				4	55.94	21.94	8	69.19	27.14
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	109	0.15	0.17	781.13	12	55.44	7.10	12	55.44	7.10	14	139.00	17.79
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	176	0.25	0.27	1,263.38	12	27.63	2.19	12	27.63	2.19	13	104.31	8.26
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	245	0.37	0.41	1,912.56				16	66.63	3.48	22	216.75	11.33
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	403	0.78	0.85	3,995.06	7	8.06		15	52.50	1.31	22	385.56	9.65
Aspen on organic deposits (peat, muck and marl)	89	0.13	0.14	679.44	4	19.00	2.80	4	19.00	2.80	7	30.44	4.48
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	38	0.11	0.12	564.25	1	33.19	5.88	1	33.19	5.88	3	383.44	67.96
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	308	0.55	0.59	2,794.06	14	76.13	2.72	18	93.19	3.34	20	243.63	8.72
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	3	0.00	0.00	19.13									
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	25	0.01	0.02	72.19	3	8.88	12.29	3	8.88	12.29	3	13.69	18.96
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	23	0.02	0.02	99.81			0.00				3	7.75	7.76
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	43	0.06	0.06	294.69			0.00	5	7.56	2.57	8	78.50	26.64
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	26	0.05	0.05	240.81							3	96.00	39.87
White Birch on organic deposits (peat, muck and marl)	13	0.01	0.01	34.88	2	0.44	1.25	6	3.44	9.86	6	3.44	9.86
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.01	0.01	36.88									
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4	0.01	0.01	56.63							4	56.63	100.00
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2196	6.15	6.68	31,448.31	193	1,531.13	4.87	261	1,570.13	4.99	267	2,648.38	8.42
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	11	0.02	0.02	80.69				4	7.63	9.45	7	49.69	61.58

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems													
FORESTS continued													
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	81	0.13	0.14	640.31	4	28.19	4.40	4	28.19	4.40	4	74.13	11.58
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	111	0.19	0.20	952.69	13	46.50	4.88	13	46.50	4.88	11	249.94	26.23
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	268	0.51	0.55	2,611.94				1	0.81	0.03	5	215.06	8.23
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	406	0.98	1.07	5,013.38	1	0.06	0.00	1	0.06	0.00	15	262.19	5.23
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	147	0.22	0.24	1,123.25	24	126.19	11.23	26	126.31	11.25	28	417.31	37.15
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	37	0.10	0.11	525.81	4	7.25	1.38	4	7.25	1.38	6	150.75	28.67
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	24	0.07	0.07	345.06	4	15.44	4.47	4	15.44	4.47	7	286.69	83.08
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1199	2.56	2.78	13,092.75	138	561.88	4.29	194	606.63	4.63	192	1,061.63	8.11
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.02	0.02	81.63				1	0.25	0.31	4	45.81	56.13
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	43	0.08	0.08	397.13	6	17.38	4.38	6	17.38	4.38	11	87.81	22.11
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	85	0.10	0.11	513.25	12	14.25	2.78	12	14.25	2.78	17	47.56	9.27
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	168	0.29	0.32	1,489.81	2	3.25	0.22	3	3.31	0.22	6	243.94	16.37
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	85	0.21	0.23	1,073.13							3	201.13	18.74
Intolerant hardwoods on organic deposits (peat, muck and marl)	79	0.08	0.09	401.75	13	97.75	24.33	16	98.00	24.39	18	103.00	25.64
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	37	0.07	0.07	345.19							3	135.81	39.34
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	7	0.00	0.00	7.38									
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	296	0.27	0.30	1,392.75	7	13.50	0.97	14	23.56	1.69	15	118.00	8.47
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	12.69									
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	14	0.02	0.02	88.88							3	41.13	46.27
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	31	0.02	0.02	116.19							7	40.50	34.86
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	31	0.08	0.09	432.00							3	196.81	45.56
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	50	0.16	0.18	844.00							3	302.25	35.81
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	15	0.02	0.02	92.56	1	1.50	1.62	1	1.50	1.62	4	8.00	8.64
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	7	0.01	0.01	35.06									

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems													
FORESTS continued													
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	211	0.78	0.85	4,003.13	95	713.50	17.82	95	713.50	17.82	78	1,058.69	26.45
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	0.63				3	0.44	70.00	3	0.44	70.00
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2	0.00	0.00	2.25									
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	8	0.01	0.01	31.06									
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	44	0.07	0.08	366.19	3	3.50	0.96	3	3.50	0.96	3	3.50	0.96
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	18	0.03	0.03	145.88							3	118.50	81.23
Jack Pine on organic deposits (peat, muck and marl)	18	0.03	0.03	145.88	2	12.56	8.61	2	12.56	8.61	5	74.94	51.37
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2079	7.26	7.90	37,170.38	586	3,512.88	9.45	631	3,548.44	9.55	631	7,478.50	20.12
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	14	0.01	0.02	72.56				5	0.44	0.60	8	34.94	48.15
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	79	0.16	0.17	820.44	3	0.94	0.11	3	0.94	0.11	6	205.75	25.08
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	91	0.17	0.19	884.06	9	47.25	5.34	9	47.25	5.34	13	199.94	22.62
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	159	0.40	0.44	2,056.25	1	0.31	0.02	18	13.56	0.66	14	1,149.56	55.91
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	291	0.50	0.54	2,536.25	1	8.19	0.32	1	8.19	0.32	9	163.75	6.46
Mixed Red and White Pine on organic deposits (peat, muck and marl)	115	0.17	0.18	859.69	7	14.63	1.70	7	14.63	1.70	6	289.44	33.67
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	29	0.10	0.11	510.81	7	75.38	14.76	7	75.38	14.76	7	289.69	56.71
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	126	0.13	0.14	682.44	9	13.38	1.96	11	13.63	2.00	13	88.06	12.90
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	3.25									
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	7	0.01	0.01	32.56	2	2.69	8.25	2	2.69	8.25	2	2.69	8.25
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	7	0.01	0.01	60.56							3	43.31	71.52
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	30	0.03	0.04	177.38							3	50.13	28.26
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	21	0.03	0.04	168.13							3	96.81	57.58
Lowland Black Spruce on organic deposits (peat, muck and marl)	7	0.01	0.01	32.81									
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	5	0.01	0.01	35.06									
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2250	4.86	5.28	24,873.06	316	2,166.25	8.71	403	2,235.75	8.99	376	3,825.63	15.38

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems													
FORESTS continued													
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	18	0.01	0.01	54.31				2	5.56	10.24	5	17.81	32.80
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	110	0.18	0.19	903.50	19	65.50	7.25	19	65.50	7.25	22	109.94	12.17
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	185	0.34	0.37	1,728.25	7	26.50	1.53	7	26.50	1.53	10	78.31	4.53
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	267	0.60	0.66	3,093.31	1	12.88	0.42	11	19.31	0.62	14	1,200.81	38.82
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	457	0.98	1.07	5,040.25	6	59.50		6	59.50	1.18	16	575.81	11.42
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	138	0.22	0.23	1,104.63	26	80.75	7.31	50	103.00	9.32	52	329.00	29.78
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	67	0.10	0.11	512.44	6	25.63	5.00	6	25.63	5.00	7	139.44	27.21
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2729	16.15	17.56	82,634.94	335	3,943.63	4.77	427	4,115.00	4.98	435	5,775.25	6.99
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	29	0.08	0.09	415.63				1	8.50	2.05	7	101.94	24.53
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	159	0.55	0.60	2,821.19	31	265.00	9.39	31	265.00	9.39	33	715.13	25.35
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	221	1.02	1.11	5,232.00	23	215.38	4.12	23	215.38	4.12	32	1,409.94	26.95
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	482	1.32	1.44	6,764.31	8	99.38	1.47	22	122.63	1.81	31	1,133.25	16.75
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	556	2.17	2.36	11,111.69	29	111.38	1.00	28	311.63	2.80	35	2,552.00	22.97
Tolerant hardwoods on organic deposits (peat, muck and marl)	175	0.53	0.58	2,732.13	54	399.94	14.64	48	515.19	18.86	38	1,133.19	41.48
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	119	0.34	0.37	1,750.75	11	19.31	1.10	11	19.31	1.10	13	549.56	31.39
WETLANDS													
Conifer Swamp	184	0.02	0.02	102.56				4	1.31	1.28	7	4.00	3.90
Open Bog	224	0.15	0.16	752.50	46	172.00	22.86	40	185.88	24.70	41	217.06	28.85
Open Fen	5	0.01	0.01	36.75									
Treed Bog	4765	1.72	1.87	8,801.50	312	489.19	5.56	367	630.25	7.16	367	632.75	7.19
Treed Fen	328	0.17	0.19	873.38	6	44.25	5.07	6	44.25	5.07	8	135.00	15.46
Non-Target Natural Ecological Systems													
FORESTS													
Aspen on unknown bedrock	76	0.06	0.06	299.25	59	81.94	27.38	54	83.19	27.80	54	83.19	27.80
White Birch on unknown bedrock	6	0.01	0.01	51.44	5	1.56	3.04	7	17.88	34.75	7	17.88	34.75
Coniferous Forest on unknown bedrock	908	0.07	0.07	346.13	513	159.94	46.21	526	164.13	47.42	526	164.13	47.42
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8143	0.49	0.54	2,525.06	1653	495.88	19.64	1701	532.56	21.09	1701	532.56	21.09

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems													
FORESTS continued													
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.00	0.00	0.63									
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	31	0.00	0.00	4.63	1	0.06	1.35	1	0.06	1.35	1	0.06	1.35
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	36	0.00	0.00	10.31	10	4.00	38.79	10	4.00	38.79	10	4.00	38.79
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	279	0.02	0.02	91.44	21	5.44	5.95	23	5.63	6.15	23	5.63	6.15
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	602	0.03	0.03	164.13	12	8.13	4.95	18	9.19	5.60	18	9.19	5.60
Coniferous Forest on organic deposits (peat, muck and marl)	451	0.02	0.03	123.25	68	16.13	13.08	73	17.13	13.89	73	17.13	13.89
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	10	0.00	0.00	0.75	3	0.25	33.33	3	0.25	33.33	3	0.25	33.33
Deciduous Forest on unknown bedrock	772	0.07	0.08	357.63	150	68.13	19.05	178	72.75	20.34	178	72.75	20.34
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	14574	0.94	1.02	4,822.00	836	281.75	5.84	1047	342.56	7.10	1047	342.63	7.11
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	39	0.00	0.00	5.69									
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	51	0.00	0.00	12.31	6	1.19	9.64	6	1.19	9.64	6	1.19	9.64
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	156	0.02	0.02	102.13	14	29.94	29.31	14	29.94	29.31	14	29.94	29.31
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	963	0.06	0.06	297.81	66	8.06	2.71	78	8.88	2.98	78	8.88	2.98
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2134	0.26	0.29	1,349.44	36	5.69	0.42	67	11.38	0.84	67	11.38	0.84
Deciduous Forest on organic deposits (peat, muck and marl)	715	0.04	0.04	184.50	130	14.69	7.96	141	15.81	8.57	141	15.81	8.57
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	104	0.01	0.01	27.94									
Upland hardwood and mixed conifer on unknown bedrock	91	0.13	0.14	650.88	31	61.75	9.49	34	61.94	9.52	34	61.94	9.52
Intolerant hardwoods on unknown bedrock	52	0.06	0.06	281.75	21	20.38	7.23	35	41.50	14.73	35	41.50	14.73
Midtolerant Hardwoods on unknown bedrock	1	0.00	0.00	19.75									
Mixed Forest on unknown bedrock	1652	0.14	0.15	694.06	562	177.50	25.57	568	178.31	25.69	568	178.31	25.69
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	21180	0.94	1.02	4,797.44	1969	687.63	14.33	2007	695.13	14.49	2007	695.13	14.49
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	27	0.00	0.00	2.88									
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	40	0.00	0.00	12.31	3	1.19	9.64	3	1.19	9.64	3	1.19	9.64
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	199	0.01	0.01	40.31	29	8.13	20.16	29	8.13	20.16	29	8.13	20.16
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1054	0.04	0.04	203.63	30	2.44	1.20	35	3.00	1.47	35	3.00	1.47
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1060	0.03	0.04	179.00	38	3.69	2.06	48	4.63	2.58	48	4.63	2.58
Mixed forest on organic deposits (peat, muck and marl)	663	0.03	0.03	128.75	72	8.25	6.41	83	9.50	7.38	83	9.50	7.38

Ecological System	# of Patches in 5E-5	% of Total Area (ha) in 5E-5	% of Total Natural Cover in 5E-5	Total Area (ha) in 5E-5	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems													
FORESTS continued													
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	69	0.00	0.00	19.94									
Mixed Lowland Conifer on unknown bedrock	8	0.01	0.01	43.13	1	1.81	4.20	1	1.81	4.20	1	1.81	4.20
Jack Pine on unknown bedrock	21	0.03	0.03	146.19	15	127.88	87.47	15	127.88	87.47	15	127.88	87.47
Mixed Red and White Pine on unknown bedrock	272	0.47	0.51	2,415.88	304	717.44	29.70	304	719.38	29.78	304	719.38	29.78
Lowland Black Spruce on unknown bedrock	10	0.00	0.00	5.50	8	2.81	51.14	8	3.44	62.50	8	3.44	62.50
Mixed Spruce and Pine on unknown bedrock	120	0.14	0.16	733.00	105	238.00	32.47	122	247.44	33.76	122	247.44	33.76
Tolerant hardwoods on unknown bedrock	335	0.36	0.39	1,839.31	102	132.25	7.19	109	208.94	11.36	109	208.88	11.36
WETLANDS													
Open Muskeg	24348	3.34	3.64	17,118.19	1968	1,287.00	7.52	2376	1,658.69	9.69	2376	1,658.63	9.69
Treed Muskeg	1265	0.47	0.51	2,421.25	76	189.56	7.83	81	197.38	8.15	81	197.38	8.15
OTHER LANDCOVER													
Barren & Scattered	2072	0.07		345.81	113	13.38	3.87	117	13.63	3.94	117	13.63	3.94
Brush and Alder	2766	1.47	1.60	7,530.25	99	153.75	2.04	159	288.31	3.83	160	288.38	3.83
Grass & Meadow	3862	3.40		17,405.25	33	16.88	0.10	56	28.38	0.16	56	28.38	0.16
Rock	2555	1.26	1.37	6,436.94	466	490.44	7.62	511	514.13	7.99	511	514.13	7.99
Unclassified (Cloud & Shadow)	43	0.01		48.88				15	12.19	24.94	15	12.19	24.94
Water	3934	20.10	21.86	102,889.31	570	11,531.13	11.21	624	11,653.75	11.33	625	11,788.13	11.46
Anthropogenic Land Types													
Developed Agricultural Land	956	4.08		20,863.69	2	19.44	0.09	38	29.13	0.14	38	29.13	0.14
Settlement and Developed Land	443	0.50		2,544.19	8	1.63	0.06	29	8.19	0.32	29	8.19	0.32

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Tomiko

Ecodistrict 5E-6

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 518,194 hectares (1,280,484 acres)

Land Ownership: 15% private, 85% Crown

Planning Authority: 92% Nipissing District, 8% Sudbury District

Physiography:

This ecodistrict is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at surface or covered by a discontinuous, thin layer of drift. Large components of glaciofluvial deposits of gravel and sand are scattered throughout the ecodistrict, most of which include contiguous weakly broken sand plains and sand uplands. There are gently to moderately rolling uplands of shallowly covered rock-knobs and sand-filled depressions. The southern boundary follows the transition of glaciolacustrine deposits and Lake Nipissing.

Natural Cover:

The majority of the ecodistrict remains as forest cover. Tolerant hardwoods comprise nearly one-third of the forested area, primarily in the southern and eastern portions of the ecodistrict. Three-quarters of the tolerant hardwoods occur on bedrock and the most of the remainder occur on glaciofluvial deposits. The western and northern portions of the ecodistrict are largely composed of upland hardwoods and mixed conifers. There are also mixed spruce and pine complexes scattered throughout Ecodistrict 5E-6.

Land Use:

Approximately 3,000 hectares of 5E-6 have been converted to developed agricultural lands, and 740 hectares are devoted to settlement and other associated developed lands, including portions of the city of North Bay.



Protection and Conservation:

Conservation lands make up approximately 8% of Ecodistrict 5E-6 (43,478 ha). Provincially protected areas account for the majority of this land (43,271 ha) including Jocko Rivers Provincial Park and Mattawa River Provincial Park. Two provincially significant wetlands cover approximately 330 hectares in 5E-6 (Upper Chippewa Watershed Complex and the Rice Bay Marsh).

Species and Vegetation Community Targets:

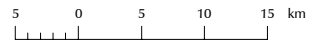
Provincially rare species in 5E-6 include plants, a reptile and several insects. Nearly half of these species occur in conservation lands. However, these species were not target species in the Conservation Blueprint and therefore did not contribute to the analysis. There are no documented rare vegetation communities in the ecodistrict.

Conservation Blueprint:

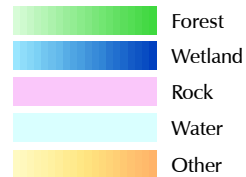
The Conservation Blueprint portfolio in Ecodistrict 5E-6 includes approximately 15% of all natural vegetated cover. There were no target species or vegetation communities within the ecodistrict to include in the portfolio.

Great Lakes Conservation Blueprint for Biodiversity

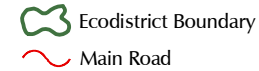
TOMIKO ECODISTRICT 5E-6



Ecological Systems



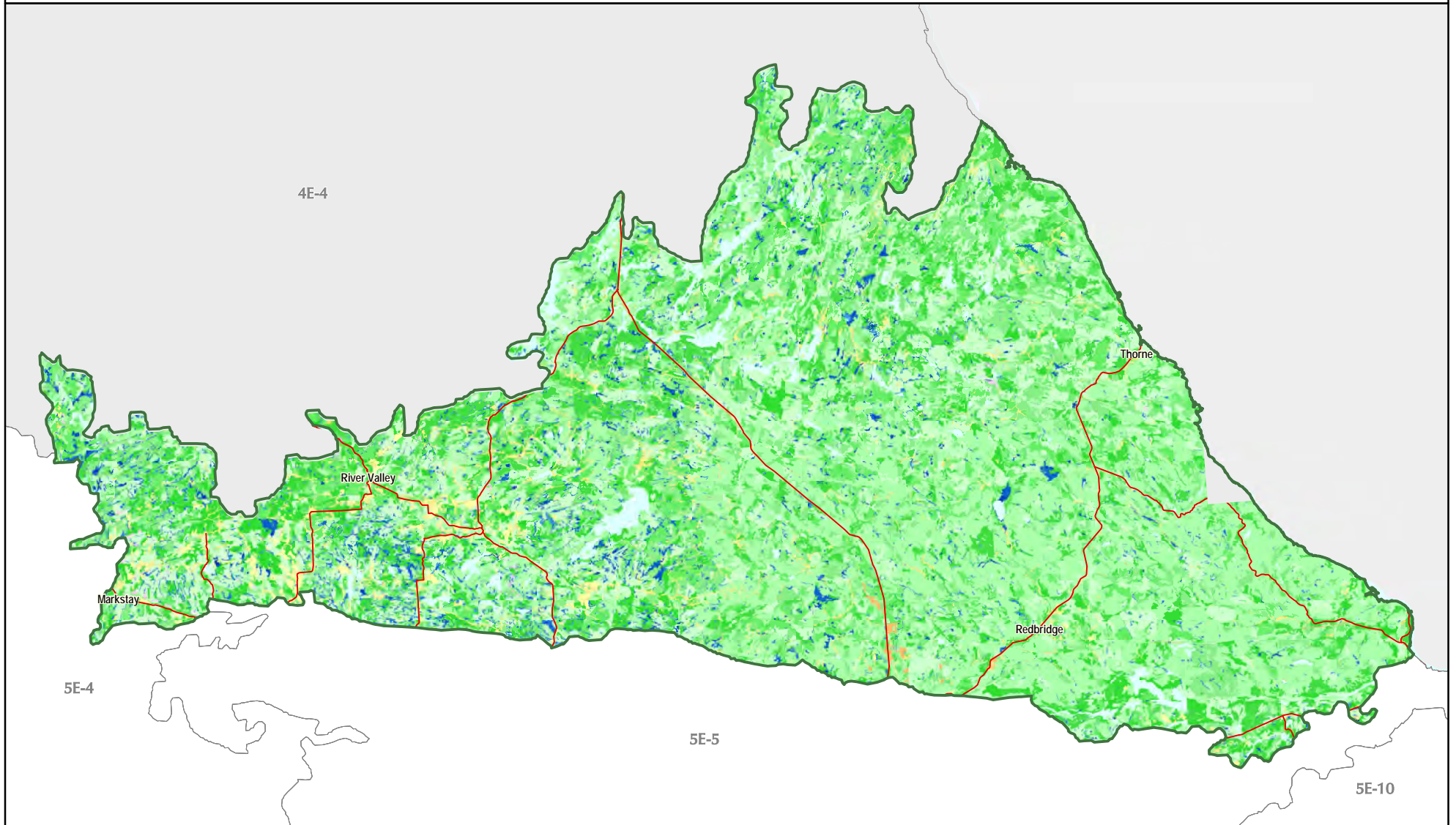
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

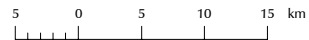
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

TOMIKO ECODISTRICT 5E-6



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

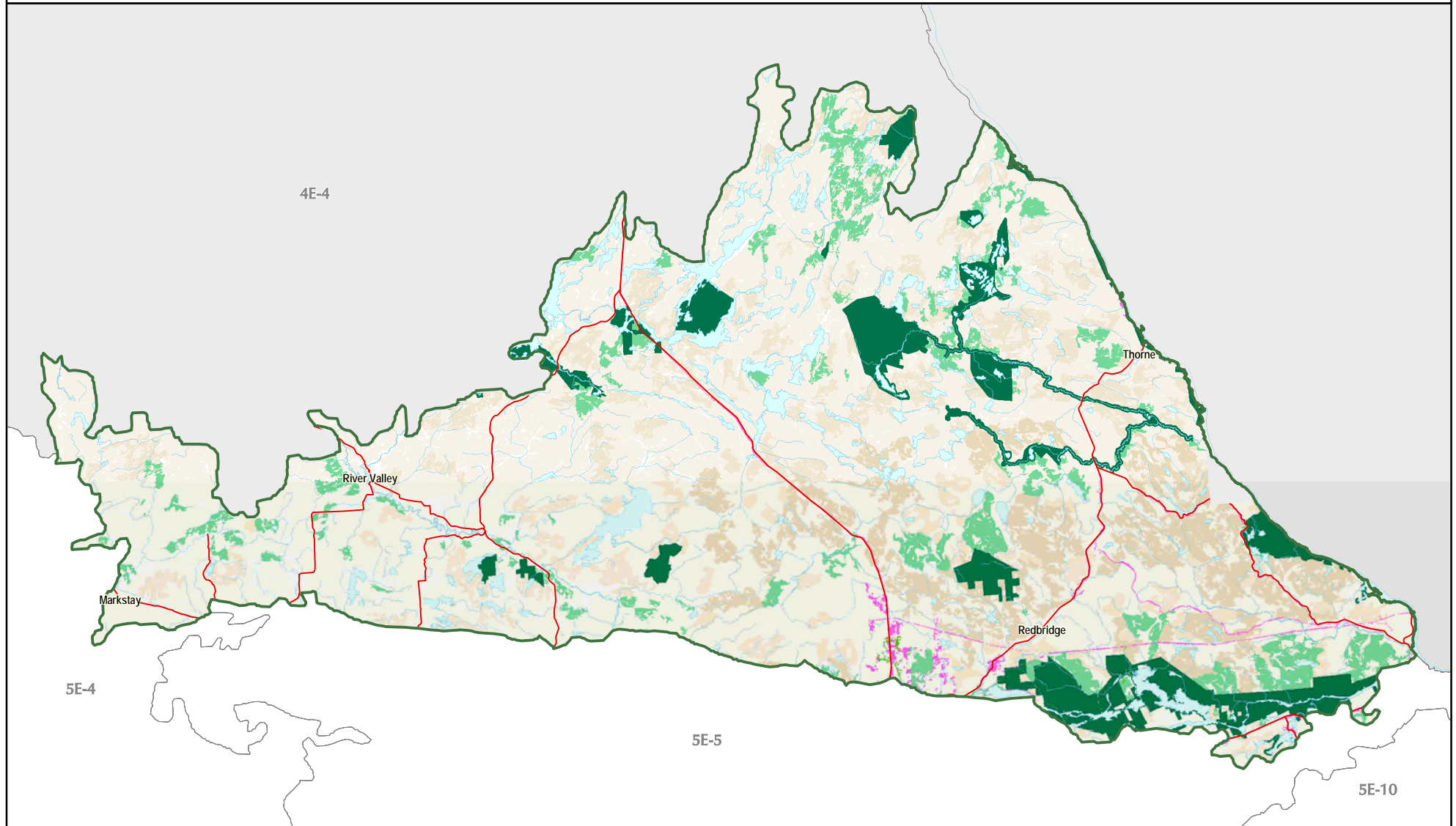
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Ecological systems summary for Ecodistrict 5E-6

Ecological System	# of Patches in 5E-6	% of Total Area (ha) in 5E-6	% of Total Natural Cover in 5E-6	Total Area (ha) in 5E-6	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	31938	86.12	87.42	446258.25	5009	36626.88	8.21	0	0.00	0.00	5249	36753.38	8.24	5206	68092.13	15.26
Target wetlands	2945	1.12	1.14	5818.75	211	415.88	7.15	0	0.00	0.00	212	415.94	7.15	215	726.00	12.48
All ecological systems	116847	100.00	100.00	518174.75	12488	43271.25	8.35	0	0.00	0.00	12955	43478.31	8.39	12910	75126.44	14.50

Ecological systems details for Ecodistrict 5E-6

Ecological System	# of Patches in 5E-6	% of Total Area (ha) in 5E-6	% of Total Natural Cover in 5E-6	Total Area (ha) in 5E-6	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1718	4.30	4.37	22,294.19	368	2,347.56	10.53				382	2,351.13	10.55	342	3,195.38	14.33
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	73	0.09	0.09	456.50	5	29.94	6.56				5	29.94	6.56	6	114.75	25.14
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	77	0.27	0.27	1,392.56	14	79.75	5.73				14	79.75	5.73	17	718.69	51.61
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	615	1.12	1.13	5,780.13	144	589.56	10.20				144	589.56	10.20	140	763.88	13.22
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	117	0.38	0.38	1,957.31										4	532.81	27.22
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	80	0.14	0.14	733.94										4	182.19	24.82
Aspen on organic deposits (peat, muck and marl)	164	0.17	0.17	878.19	25	92.69	10.55				25	92.69	10.55	27	224.56	25.57
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	81	0.15	0.15	781.00	17	109.44	14.01				17	109.44	14.01	18	316.38	40.51
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1078	2.42	2.46	12,555.25	152	965.13	7.69				152	965.13	7.69	155	1,873.50	14.92
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	4	0.01	0.01	65.94	3	35.38	53.65				3	35.38	53.65	4	65.94	100.00
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	39	0.08	0.08	398.06	29	118.69	29.82				29	118.69	29.82	26	266.13	66.86
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	446	0.73	0.74	3,765.19	84	385.31	10.23				89	387.94	10.30	90	558.06	14.82
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	9	0.01	0.01	28.88												
White Birch on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	2	0.00	0.00	9.88												
White Birch on organic deposits (peat, muck and marl)	90	0.09	0.10	488.19	26	153.25	31.39				26	153.25	31.39	26	153.25	31.39
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	92	0.15	0.15	777.81	15	110.00	14.14				15	110.00	14.14	16	242.06	31.12
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3072	10.17	10.32	52,694.44	472	3,201.38	6.08				484	3,209.88	6.09	475	6,043.88	11.47
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	64	0.13	0.13	669.25	9	18.56	2.77				9	18.56	2.77	11	260.88	38.98
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	87	0.24	0.24	1,229.13	20	111.69	9.09				20	111.69	9.09	16	578.50	47.07
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1109	2.31	2.34	11,964.50	159	1,011.06	8.45				163	1,015.44	8.49	164	1,430.06	11.95
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	156	0.46	0.47	2,409.56										3	512.19	21.26

Ecological System	# of Patches in SE-6	% of Total Area (ha) in SE-6	% of Total Natural Cover in SE-6	Total Area (ha) in SE-6	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	84	0.16	0.17	845.06										3	112.75	13.34
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	316	0.50	0.51	2,599.88	58	492.81	18.96				58	492.81	18.96	58	492.81	18.96
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	177	0.38	0.38	1,949.19	27	298.81	15.33				27	298.81	15.33	25	932.81	47.86
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1177	3.36	3.41	17,386.38	210	1,346.94	7.75				220	1,351.13	7.77	214	2,366.31	13.61
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	30	0.07	0.07	362.38	6	16.88	4.66				6	16.88	4.66	5	123.81	34.17
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	45	0.05	0.05	279.50	10	26.75	9.57				10	26.75	9.57	11	137.44	49.17
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	420	0.61	0.62	3,183.63	107	279.25	8.77				110	279.75	8.79	108	362.69	11.39
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	52	0.12	0.12	623.69										3	224.81	36.05
Intolerant hardwoods on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	33	0.05	0.05	252.31										3	99.31	39.36
Intolerant hardwoods on organic deposits (peat, muck and marl)	89	0.13	0.13	668.13	21	88.31	13.22				21	88.31	13.22	23	193.56	28.97
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	76	0.12	0.12	630.44	17	60.06	9.53				17	60.06	9.53	18	124.13	19.69
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1111	1.84	1.86	9,509.88	123	946.00	9.95				131	954.13	10.03	132	1,389.88	14.62
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.03	0.03	178.00	7	40.44	22.72				7	40.44	22.72	6	138.13	77.60
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	51	0.03	0.03	162.69	6	15.69	9.64				6	15.69	9.64	8	19.38	11.91
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	431	0.73	0.74	3,779.75	46	296.19	7.84				53	301.56	7.98	56	639.63	16.92
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	19	0.02	0.02	109.63										3	42.13	38.43
Mixed Lowland Conifer on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	8	0.01	0.01	68.38										3	26.75	39.12
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	158	0.25	0.26	1,314.31	48	424.00	32.26				48	424.00	32.26	49	426.19	32.43
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	58	0.07	0.08	384.31	5	21.94	5.71				5	21.94	5.71	7	95.19	24.77
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	305	0.81	0.82	4,206.69	18	214.13	5.09				18	214.13	5.09	17	1,058.69	25.17
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	18	0.02	0.02	85.13	6	3.31	3.89				6	3.31	3.89	7	49.88	58.59
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	134	0.23	0.23	1,195.88	19	90.94	7.60				19	90.94	7.60	21	177.13	14.81
Jack Pine on organic deposits (peat, muck and marl)	18	0.01	0.01	53.00	2	8.06	15.21				2	8.06	15.21	3	9.63	18.16
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	45	0.05	0.06	281.44	13	32.63	11.59				13	32.63	11.59	13	40.00	14.21
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1461	4.38	4.45	22,692.88	335	3,138.31	13.83				342	3,141.31	13.84	309	4,438.88	19.56
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	9	0.00	0.00	21.50	1	4.38	20.35				1	4.38	20.35	1	4.38	20.35
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	44	0.05	0.05	243.13	16	49.75	20.46				16	49.75	20.46	16	49.75	20.46
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	701	1.27	1.29	6,578.13	88	890.38	13.54				104	897.44	13.64	98	1,287.19	19.57

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Target Natural Ecological Systems																
FORESTS continued																
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	37	0.03	0.03	152.31										3	28.94	19.00
Mixed Red and White Pine on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	20	0.02	0.02	79.88										3	45.25	56.65
Mixed Red and White Pine on organic deposits (peat, muck and marl)	132	0.17	0.17	856.56	34	251.94	29.41				34	251.94	29.41	36	350.13	40.88
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	118	0.34	0.35	1,768.63	19	191.06	10.80				19	191.06	10.80	19	664.25	37.56
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1386	2.51	2.55	13,028.75	116	686.88	5.27				122	695.19	5.34	124	1,279.50	9.82
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	5	0.01	0.01	59.00	1	12.00	20.34				1	12.00	20.34	3	42.75	72.46
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	45	0.06	0.06	330.19	14	101.13	30.63				14	101.13	30.63	16	103.13	31.23
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	607	0.97	0.99	5,029.88	48	382.25	7.60				58	391.69	7.79	58	442.06	8.79
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	15	0.01	0.01	71.94										4	24.75	34.40
Lowland Black Spruce on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	5	0.00	0.00	20.00												
Lowland Black Spruce on organic deposits (peat, muck and marl)	195	0.24	0.24	1,240.13	33	174.81	14.10				33	174.81	14.10	34	256.56	20.69
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	108	0.13	0.13	651.38	14	107.44	16.49				14	107.44	16.49	15	163.31	25.07
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4081	10.65	10.82	55,213.25	577	3,268.06	5.92				579	3,268.94	5.92	580	6,914.19	12.52
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	36	0.03	0.03	139.56	9	9.06	6.49				9	9.06	6.49	10	13.06	9.36
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	156	0.20	0.20	1,039.19	24	54.44	5.24				24	54.44	5.24	25	186.44	17.94
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1657	3.24	3.28	16,764.81	209	781.69	4.66				258	807.31	4.82	260	1,499.13	8.94
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	153	0.31	0.31	1,589.63										4	238.25	14.99
Mixed Spruce and Pine on glaciolacustrine deposits (sand and clay, minor sand, basin and quiet water deposits)	80	0.10	0.10	502.75										3	36.00	7.16
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	414	0.72	0.73	3,719.69	70	853.00	22.93				70	853.00	22.93	70	853.00	22.93
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	275	0.43	0.43	2,219.94	40	222.19	10.01				40	222.19	10.01	41	627.69	28.28
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3411	19.76	20.06	102,419.38	651	8,553.44	8.35				673	8,566.06	8.36	650	13,715.81	13.39
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	67	0.11	0.11	566.69	7	124.19	21.91				7	124.19	21.91	8	197.94	34.93
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	155	0.53	0.54	2,750.25	45	593.88	21.59				45	593.88	21.59	36	1,470.19	53.46
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1814	4.83	4.90	25,013.00	269	1,366.50	5.46				334	1,388.81	5.55	332	2,323.88	9.29
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	96	0.16	0.16	812.00										3	147.56	18.17
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	43	0.04	0.04	207.88										3	49.50	23.81
Tolerant hardwoods on organic deposits (peat, muck and marl)	359	0.68	0.69	3,527.75	62	566.63	16.06				62	566.63	16.06	63	566.69	16.06
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	215	1.06	1.08	5,508.75	36	181.00	3.29				36	181.00	3.29	39	2,755.94	50.03
WETLANDS																
Open Bog	186	0.07	0.07	379.38	8	44.38	11.70				8	44.38	11.70	8	44.81	11.81

Ecological System	# of Patches in SE-6	% of Total Area (ha) in SE-6	% of Total Natural Cover in SE-6	Total Area (ha) in SE-6	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
WETLANDS continued																
Open Fen	12	0.01	0.01	50.31	7	9.00	17.89				7	9.00	17.89	8	41.63	82.73
Treed Bog	2716	1.04	1.05	5,371.44	171	347.44	6.47				172	347.50	6.47	174	624.50	11.63
Treed Fen	31	0.00	0.00	17.63	25	15.06	85.46				25	15.06	85.46	25	15.06	85.46
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	28	0.03	0.03	141.19	39	84.81	60.07				39	84.81	60.07	39	84.81	60.07
White Birch on unknown bedrock	20	0.03	0.03	134.88	9	62.19	46.11				9	62.19	46.11	9	62.19	46.11
Coniferous Forest on unknown bedrock	166	0.01	0.01	50.19	34	9.00	17.93				34	9.00	17.93	34	9.00	17.93
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	9900	0.39	0.39	1,998.31	721	177.94	8.90				740	180.50	9.03	740	180.50	9.03
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	45	0.00	0.00	7.44	2	0.13	1.68				2	0.13	1.68	2	0.13	1.68
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	149	0.01	0.01	28.00	44	12.00	42.86				44	12.00	42.86	44	12.00	42.86
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2050	0.07	0.08	388.56	188	53.44	13.75				210	55.44	14.27	210	55.38	14.25
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	220	0.01	0.01	43.63												
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	62	0.00	0.00	15.56												
Coniferous Forest on organic deposits (peat, muck and marl)	693	0.02	0.02	101.38	113	12.38	12.21				113	12.38	12.21	113	12.38	12.21
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	235	0.01	0.01	47.06	30	10.50	22.31				30	10.50	22.31	30	10.50	22.31
Deciduous Forest on unknown bedrock	63	0.01	0.01	43.00	20	5.63	13.08				20	5.63	13.08	20	5.63	13.08
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8947	0.46	0.47	2,393.50	552	122.38	5.11				563	124.06	5.18	563	124.06	5.18
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	288	0.02	0.02	88.75	5	0.56	0.63				5	0.56	0.63	5	0.56	0.63
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	301	0.01	0.01	71.38	45	16.00	22.42				45	16.00	22.42	45	16.00	22.42
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1400	0.09	0.09	451.75	81	20.75	4.59				97	22.00	4.87	97	22.00	4.87
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	691	0.04	0.04	206.94												
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	347	0.03	0.03	130.00												
Deciduous Forest on organic deposits (peat, muck and marl)	300	0.01	0.01	62.44	51	4.94	7.91				51	4.94	7.91	51	4.94	7.91
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	302	0.01	0.01	57.44	45	14.00	24.37				45	14.00	24.37	45	14.00	24.37
Upland hardwood and mixed conifer on unknown bedrock	61	0.09	0.10	485.06	19	88.50	18.25				19	88.50	18.25	19	88.50	18.25
Intolerant hardwoods on unknown bedrock	19	0.02	0.02	121.75	2	0.25	0.21				2	0.25	0.21	2	0.25	0.21
Mixed Forest on unknown bedrock	319	0.03	0.03	139.69	67	32.31	23.13				68	32.69	23.40	68	32.69	23.40
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	17765	0.65	0.66	3,383.44	1456	329.25	9.73				1471	332.50	9.83	1471	332.56	9.83
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	270	0.01	0.01	76.06	19	3.00	3.94				19	3.00	3.94	19	3.00	3.94
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	320	0.01	0.01	62.13	71	18.06	29.07				71	18.06	29.07	71	18.06	29.07
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3628	0.14	0.15	750.25	434	113.75	15.16				461	117.88	15.71	461	117.88	15.71

Ecological System	# of Patches in SE-6	% of Total Area (ha) in SE-6	% of Total Natural Cover in SE-6	Total Area (ha) in SE-6	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	661	0.02	0.02	122.44												
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	335	0.01	0.01	72.00												
Mixed forest on organic deposits (peat, muck and marl)	1069	0.02	0.02	124.63	250	30.00	24.07				250	30.00	24.07	250	30.00	24.07
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	538	0.02	0.02	100.94	64	24.13	23.90				64	24.13	23.90	64	24.13	23.90
Mixed Lowland Conifer on unknown bedrock	3	0.00	0.00	7.25	2	0.88	12.07				2	0.88	12.07	2	0.88	12.07
Jack Pine on unknown bedrock	13	0.01	0.01	44.88	1	0.06	0.14				1	0.06	0.14	1	0.06	0.14
Mixed Red and White Pine on unknown bedrock	50	0.03	0.03	176.38	34	96.75	54.85				34	97.81	55.46	34	97.69	55.39
Lowland Black Spruce on unknown bedrock	9	0.02	0.02	83.06	5	17.06	20.54				5	17.06	20.54	5	17.06	20.54
Mixed Spruce and Pine on unknown bedrock	50	0.03	0.03	154.25	31	52.25	33.87				31	52.25	33.87	31	52.19	33.83
Tolerant hardwoods on unknown bedrock	82	0.09	0.09	451.88	76	181.94	40.26				76	184.06	40.73	75	184.00	40.72
WETLANDS																
Open Muskeg	14486	2.10	2.13	10,856.19	1218	625.63	5.76				1269	664.25	6.12	1269	664.25	6.12
Treed Muskeg	2652	0.95	0.96	4,909.88	224	377.56	7.69				224	377.56	7.69	224	377.56	7.69
OTHER LANDCOVER																
Barren & Scattered	2335	0.10		496.44	54	11.88	2.39				55	11.94	2.40	55	11.94	2.40
Brush and Alder	5222	2.26	2.30	11,724.88	456	816.56	6.96				469	830.69	7.08	469	830.69	7.08
Grass & Meadow	1162	0.66		3,417.31	27	15.88	0.46				28	17.19	0.50	28	17.19	0.50
Rock	763	0.24	0.24	1,238.13	67	163.56	13.21				67	163.56	13.21	67	163.56	13.21
Unclassified (Cloud & Shadow)	91	0.01		47.25	17	11.63	24.60				17	11.63	24.60	17	11.63	24.60
Water	3238	3.25	3.30	16,835.31	668	2,599.06	15.44				683	2,602.19	15.46	679	2,601.75	15.45
Anthropogenic Land Types																
Developed Agricultural Land	281	0.58		3,010.69	1	0.06	0.00				8	1.19	0.04	8	1.19	0.04
Settlement and Developed Land	335	0.14		744.25	26	11.88	1.60				53	15.56	2.09	53	15.56	2.09

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Parry Sound

Ecodistrict 5E-7

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 625,967 hectares (1,546,799 acres)

Land Ownership: 10% private, 82% Crown, 8% First Nations lands, 0.2% National Park

Planning Authority: 70% Parry Sound District, 15% Muskoka District, 10% Sudbury District, 5% Simcoe County

Physiography:

This ecodistrict is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at surface or covered by a discontinuous, thin layer of drift. The bedrock plain is generally sparsely covered by silt and sand, with occasional strands of deep sand. Ridges-and-trough topography of gneissic rock barrens on the ridge tops and wetlands in the troughs characterize the ecodistrict. The bedrock is strongly acidic except for rare localized seams of marble with very thin overburn close to Georgian Bay.

Natural Cover:

Approximately 98% of the ecodistrict remains as natural cover, primarily forest. Nearly half of the forested areas of 5E-7 are equally represented by upland hardwood and mixed conifers complexes, mixed red and white pine complexes, and tolerant hardwoods. Seven percent of the remaining natural cover is wetland, half of which is open muskeg. There are nearly 80,000 hectares of rock outcrops in 5E-7, particularly close to the shores of Georgian Bay where the vegetation is generally sparse and dominated by stunted White Pine and Red Oak.

Land Use:

Over 3,000 hectares of 5E-7 have been converted to developed agricultural lands and less than 1,000 hectares are devoted to settlement and other associated developed lands including the town of Parry Sound.

Protection and Conservation:

Conservation lands make up approximately 28% of Ecodistrict 5E-7 (173,422 ha). Provincially protected areas account for the majority of these lands (165,370 ha). Over 6,000 hectares are designated as provincially significant



life science ANSIs, of which 2 hectares coincide with conservation reserves. Approximately 988 hectares are recognized as provincially significant wetlands. Half of all the occurrences of species and vegetation community targets in 5E-7 are within conservation lands, primarily provincially protected areas.

Species Targets:

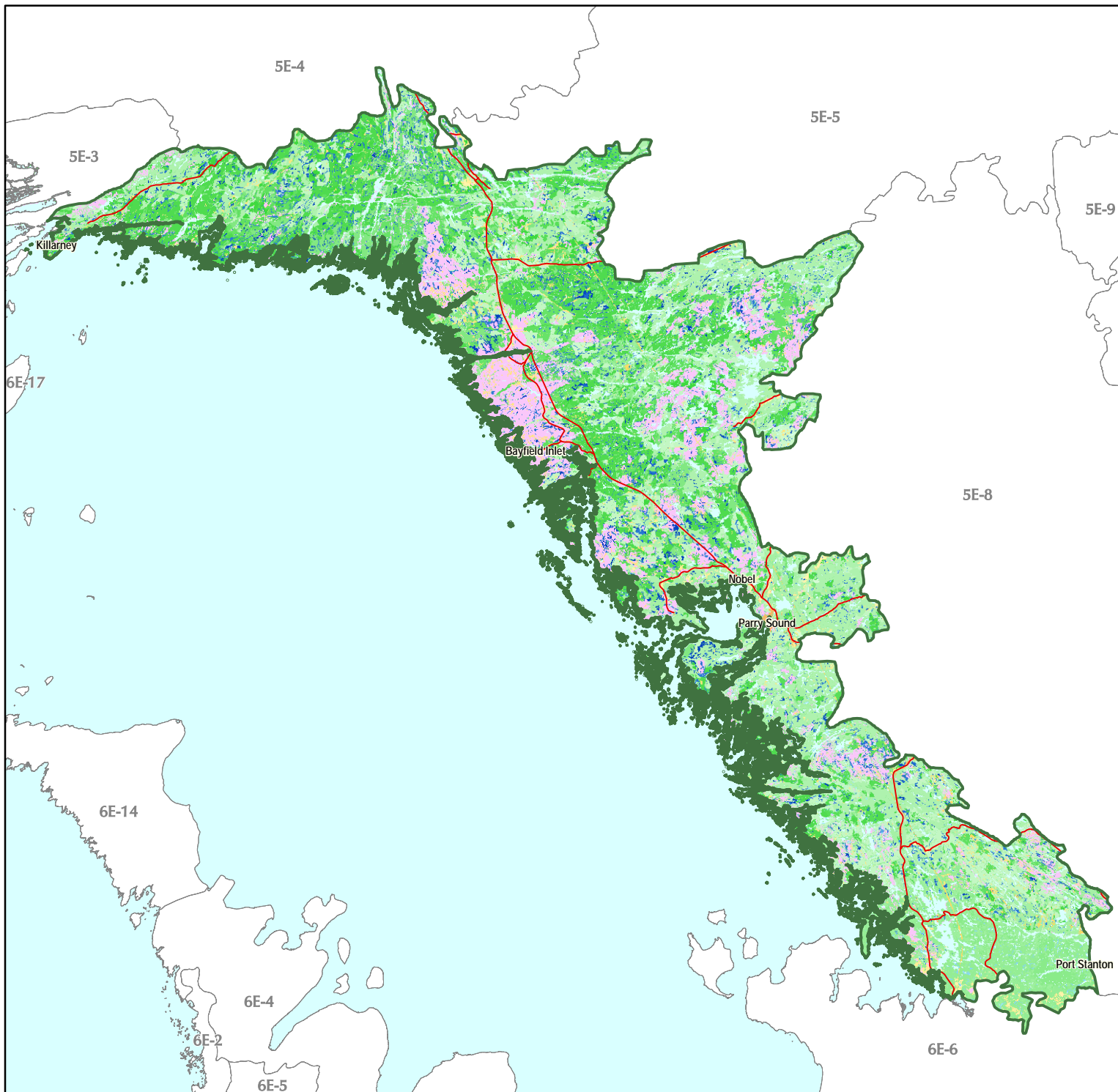
Two-thirds of the 47 target species in 5E-7 are vascular plants, many of which occur in the Great Lakes as disjuncts. Seventeen species are designated as species at risk, including the Endangered Engelmann's Quillwort (*Isoetes engelmannii*) and Threatened Massasauga (*Sistrurus catenatus*). There are also a large number of populations of the Five-lined Skink (*Eumeces fasciatus*), a species of Special Concern.

Vegetation Community Targets:

Seventeen of the 47 significant vegetation communities in 5E-7 are globally rare, 26 are provincially rare, and another 17 are considered to be high-quality representative vegetation communities that are important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-7 includes approximately 30% of all natural vegetated cover, and two-thirds of the occurrences of species and vegetation community targets.

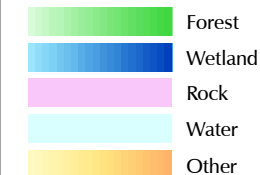


Great Lakes Conservation Blueprint for Biodiversity

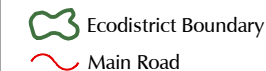
PARRY SOUND ECODISTRICT 5E-7



Ecological Systems



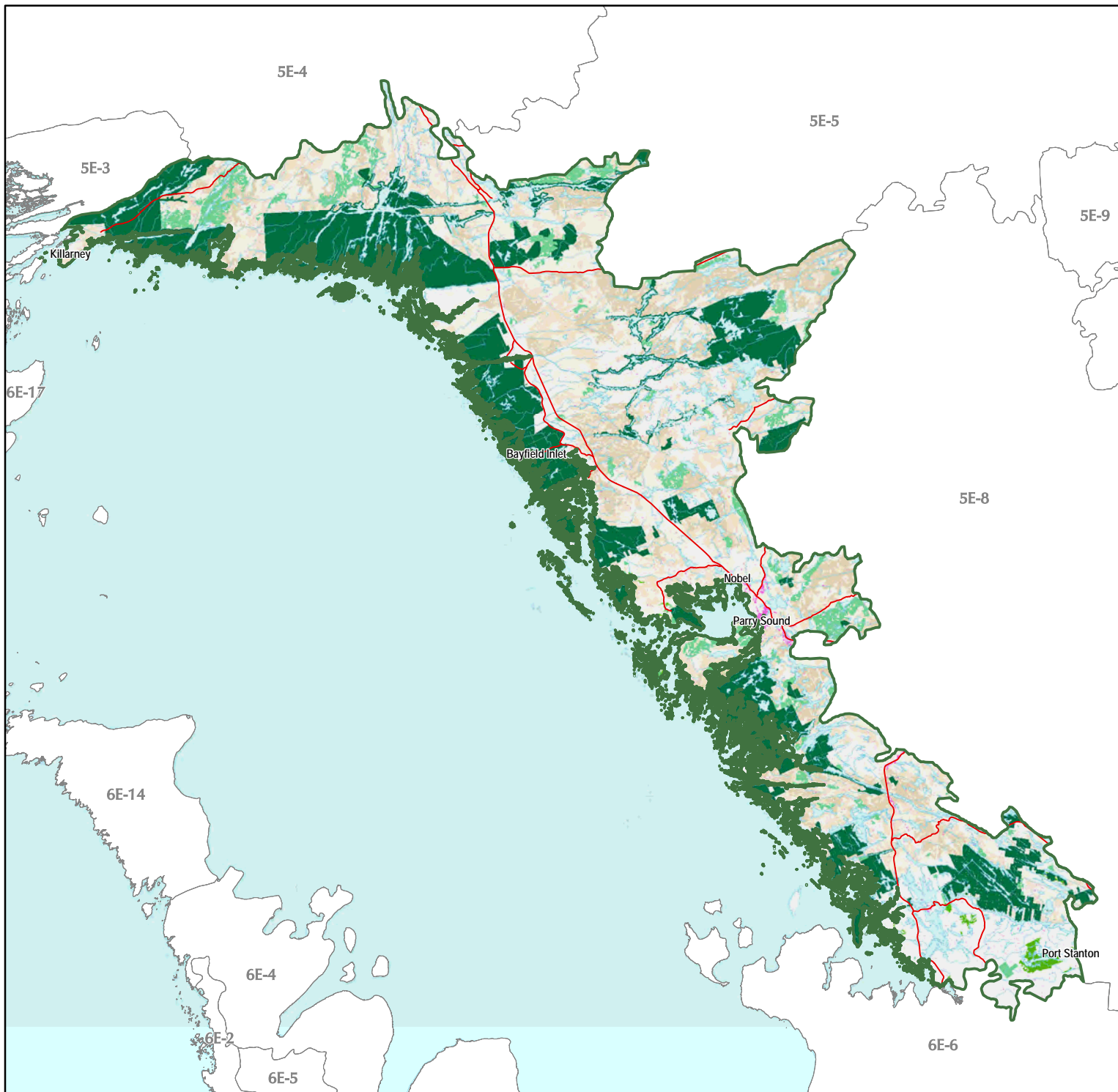
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

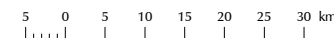
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint Project

PARRY SOUND ECODISTRICT 5E-7



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 5E-7

Number of pops in 5E-7	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Ammophila brevilingulata</i>	American Beachgrass	G5	S3			disjunct	0	50	0	0	50	2	100	3
1	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	0	0	0	0	1	100	3
3	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	33	0	33	0	33	3	100	3
1	<i>Aristida basiramea</i>	Forked Three-awned Grass	G5	S1	END	END	SAR	100	0	100	0	100	1	100	secondary
4	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	G5T5	S1	THR	THR	SAR disjunct	0	50	0	0	50	3	75	3
1	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3G4	S2			GRank	0	100	0	0	100	1	100	4
1	<i>Cakile edentula</i>	American Sea-rocket	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Carex schweinitzii</i>	Schweinitz's Sedge	G3	S3			GRank	0	0	0	0	0	1	100	2
5	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	0	40	0	0	60	5	100	3
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	50	0	0	50	2	100	4
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	100	0	0	100	1	100	3
11	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	18	9	18	0	27	7	64	3
4	<i>Gratiola aurea</i>	Golden Hedge-hyssop	G5	S4?			disjunct	0	50	25	0	75	3	75	3
1	<i>Isoetes engelmannii</i>	Engelmann's Quillwort	G4	S1	END	END	SAR disjunct	0	0	100	0	100	1	100	3
2	<i>Isoetes tuckermanii</i>	Tuckerman's Quillwort	G4?	S1			disjunct	0	0	0	0	0	2	100	3
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	50	0	50	0	50	2	100	2
3	<i>Juncus militaris</i>	Bayonet Rush	G4	S3S4			disjunct	0	67	0	0	67	3	100	3
10	<i>Linum medium</i> var. <i>medium</i>	Stiff Yellow Flax	G5T3T4	S3			GRank endemic	50	0	40	0	50	7	70	4
1	<i>Linum striatum</i>	Ridged Yellow Flax	G5	S1			disjunct	0	0	100	0	100	1	100	3
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	0	0	0	100	1	100	2
3	<i>Melica smithii</i>	Smith Melic Grass	G5	S4?			disjunct	0	33	0	0	33	3	100	3
10	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	60	10	0	70	7	70	3
9	<i>Panicum spretum</i>	Panic Grass	G5	S2			disjunct	0	22	11	0	33	4	44	3
21	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	33	33	33	0	76	16	76	3
15	<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed	G4?	S3S4			disjunct	0	27	20	0	47	9	60	3
3	<i>Potamogeton confervoides</i>	Algae-like Pondweed	G4	S2			disjunct	0	100	0	0	100	3	100	3
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	0	0	0	0	1	100	2
20	<i>Rhexia virginica</i>	Virginia Meadow-beauty	G5	S3S4			disjunct	0	30	15	0	45	11	55	3
1	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	100	0	0	100	1	100	3
2	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	50	0	50	0	50	2	100	3
4	<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	G4G5	S3			disjunct	0	25	25	0	50	3	75	3
18	<i>Xyris difformis</i>	Carolina Yellow-eyed-grass	G5	S3?			disjunct	11	39	17	0	61	12	67	3
Mosses & Liverworts															
1	<i>Dichelyma uncinatum</i>	A Moss	G3G5	S1			disjunct	0	0	0	0	0	1	100	4
1	<i>Diplophyllum taxifolium</i>	A Liverwort	G5	S1S2			disjunct	0	0	0	0	0	1	100	3
Birds															
6	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	17	17	17	0	33	2	33	secondary
2	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	50	0	50	1	50	secondary
2	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	100	0	100	0	100	2	100	secondary
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	100	0	0	100	1	100	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	100	0	0	100	1	100	secondary

Number of pops in SE-7	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Birds continued															
1	<i>Rallus elegans</i>	King Rail	G4G5	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Wilsonia citrina</i>	Hooded Warbler	G5	S3B,SZN	THR	THR	SAR	100	0	100	0	100	1	100	secondary
Reptiles															
17	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	6	0	0	12	2	12	secondary
11	<i>Elaphe gloydi</i>	Eastern Foxsnake	G3	S3	THR	THR	GRank SAR	9	18	9	0	27	6	55	4
60	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	5	27	5	0	37	26	43	secondary
26	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	4	12	4	0	15	5	19	secondary
30	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	3	50	7	0	60	19	63	4
Communities															
1	Acidic Granite Open Cliff Type		G?	S3S4			SRank	0	100	0	0	100	1	100	3
1	Acidic Open Granite Talus Type		G4G5	S3S4			SRank	0	100	0	0	100	1	100	3
1	Atlantic Coastal Plain Forb Bedrock Meadow Marsh Type		G?	S2?			SRank	0	100	0	0	100	1	100	3
28	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	29	7	0	36	28	100	all viable
2	Black Spruce Treed Bog Type		G5	S5			high quality	0	100	0	0	100	2	100	secondary
1	Blueberry Granite Shrubland Barren Type		G?	S5			high quality	0	100	0	0	100	1	100	secondary
4	Buttonbush - Sweet Gale Mineral Thicket Swamp Type		G?	S2S3?			SRank	0	100	0	0	100	4	100	3
2	Buttonbush Mineral Thicket Swamp Type		G4	S3			SRank	0	100	0	0	100	2	100	3
5	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	0	80	0	0	80	4	80	3
7	Common Juniper Acidic Shrub Rock Barren Type		G?	S2			SRank	0	29	0	0	29	4	57	3
4	Cottongrass - Beak-rush/Yellow-eyed Grass Open Fen		G3G4?	S3S4?			GRank	0	75	0	0	75	4	100	all viable
1	Dry - Fresh Hemlock - Oak Mixed Forest		G?	S3-S3S4?			SRank	0	100	0	0	100	1	100	3
1	Dry - Fresh Oak - Red Maple Deciduous Forest Type		G?	S5			high quality	0	100	0	0	100	1	100	secondary
4	Dry - Fresh Sugar Maple - Basswood Deciduous Forest Type		G?	S5			high quality	0	75	0	0	75	3	75	secondary
2	Dry - Fresh Sugar Maple - Ironwood Deciduous Forest Type		G?	S5			high quality	0	50	0	0	50	2	100	secondary
1	Dry - Fresh White Pine Coniferous Forest Type		G3G4	S4S5			GRank	0	0	0	0	0	1	100	all viable
1	Dry Black Oak-Pine Tallgrass Savannah Type		G?	S1			SRank	0	0	0	0	0	1	100	3
2	Dry Granite Barren Type		G?	S5			high quality	0	100	0	0	100	2	100	secondary
1	Dry Red Pine - White Pine Coniferous Forest Type		G3G4	S4			GRank	0	0	0	0	0	1	100	all viable
3	Few-seeded Sedge Graminoid Bog Type		G3G4	S5			GRank	0	33	0	0	33	3	100	all viable
1	Fresh Sugar Maple Deciduous Forest Type		G5?	S5			high quality	0	100	0	0	100	1	100	secondary
2	Graminoid Coastal Meadow Marsh Type		G2?	S2			GRank	50	0	50	0	50	2	100	all viable
3	Graminoid Open Poor Fen Type		G3G4	S5			GRank	0	100	0	0	100	3	100	all viable
1	Juniper Dune Shrubland Type		G?	S2			SRank	0	0	0	0	0	1	100	3
2	Leafherleaf - Chain fern / St. John's-wort Shrub Fen		G3G4	S3			GRank	0	100	0	0	100	2	100	all viable
5	Leatherleaf - Forb Shrub Fen Type		G5	S5			high quality	0	60	0	0	60	3	60	secondary
2	Leafherleaf Shrub Bog Type		G5	S5			high quality	0	50	0	0	50	2	100	secondary
1	Moist - Fresh Hemlock - Sugar Maple Mixed Forest Type		G4G5	S4S5			high quality	0	0	0	0	0	0	0	secondary
1	Moist - Fresh Sugar Maple - Yellow Birch Deciduous Forest Type		G5?	S5			high quality	0	0	0	0	0	0	0	secondary
8	Mountain Holly Organic Thicket Swamp Type		G?	S3S4			SRank	0	88	0	0	88	7	88	3
5	Mountain Holly Shrub Fen Type		G3G4	S3S4			GRank	0	80	0	0	80	5	100	all viable
6	Oak - Red Maple - Pine Treed Granite Barren Type		G?	S4S5			high quality	0	33	17	0	50	3	50	secondary
1	Oak Acidic Treed Rock Barren		G?	S3-S3S4			SRank	0	100	0	0	100	1	100	3
2	Pondweed Submerged - Floating-leaved Shallow Aquatic Type		G5Q	S5			high quality	0	0	0	0	50	2	100	secondary

Number of pops in SE-7	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued														
4	<i>Ixobrychus exilis</i> Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	Red Cedar Treed Limestone Barren Type	G?	S1			SRank	0	0	0	0	0	1	100	3
2	Red Maple - Hemlock Mixed Organic Swamp Type	G3	S3S4			GRank	0	100	0	0	100	2	100	all viable
1	Sand Cherry Dune Shrubland Type	G2Q	S2			GRank	0	0	0	0	0	1	100	all viable
1	Shrubby Cinquefoil Coastal Meadow Marsh Type	G2?	S1			GRank	0	0	0	0	0	1	100	all viable
1	Tamarack - Black Spruce Coniferous Organic Swamp Type	G5Q	S5			high quality	0	100	0	0	100	1	100	secondary
1	Tamarack Treed Fen Type	G4?	S5			high quality	0	0	100	0	100	1	100	secondary
1	Twig-rush Graminoid Fen Type	G3Q	S3?			GRank	0	100	0	0	100	1	100	all viable
14	Virginia Chain Fern Open Bog Type	G3G4	S3			GRank	0	71	7	0	79	14	100	all viable
1	Water Lily - Bullhead Lily Floating-leaved Shallow Aquatic Type	G5	S5			high quality	0	100	0	0	100	1	100	secondary
1	White Pine - White Birch Mineral Mixed Swamp Type	G3G4	S3			GRank	0	0	0	0	0	1	100	all viable
2	White Pine Coniferous Mineral Swamp Type	G3G4	S2			GRank	0	100	0	0	100	2	100	all viable
2	Wild-rice Mineral Shallow Marsh Type	G?	S5			high quality	0	0	0	0	50	1	50	secondary
5	Winterberry Organic Thicket Swamp Type	G3G4Q	S3S4			GRank	0	40	0	0	40	5	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-7

Ecological System	# of Patches in 5E-7	% of Total Area (ha) in 5E-7	% of Total Natural Cover in 5E-7	Total Area (ha) in 5E-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conserv ation Lands	Total Area (ha) in all Conservati on Lands	% System in all Conserv ation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target forests	12273	56.06	56.93	350961.88	5562	82665.19	23.55	0	0.00	0.00	0	0.00	0.00	5787	82902.88	23.62	5528	109523.00	31.21
Target wetlands	10675	1.74	1.77	10916.38	2213	1856.00	17.00	9	8.38	0.08	98	122.38	1.12	2386	2072.44	18.98	2313	2046.19	18.74
All ecological systems	237198	100.00	100.00	625773.44	72511	165369.94	26.43	415	1309.25	0.21	1130	6438.75	1.03	75245	173422.44	27.71	74341	197883.69	31.62

Ecological system details for Ecodistrict 5E-7

Ecological System	# of Patches in 5E-7	% of Total Area (ha) in 5E-7	% of Total Natural Cover in 5E-7	Total Area (ha) in 5E-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conserv ation Lands	Total Area (ha) in all Conservati on Lands	% System in all Conserv ation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																			
FORESTS																			
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	524	1.59	1.62	9,959.06	179	2,222.94	22.32							179	2,222.94	22.32	147	2,668.13	26.79
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1	0.00	0.00	0.63															
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	7	0.01	0.01	45.81	4	14.25	31.11							4	14.25	31.11	4	14.25	31.11
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	19	0.04	0.04	251.31	12	84.50	33.62							12	84.50	33.62	12	178.94	71.20
Aspen on organic deposits (peat, muck and marl)	23	0.04	0.04	225.69	10	96.81	42.90							10	96.81	42.90	11	179.25	79.42
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.01	0.01	50.75													2	50.75	100.00
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	186	0.64	0.65	4,010.25	88	1,676.00	41.79							88	1,676.00	41.79	76	1,895.94	47.28
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	3.81	3	3.38	88.52							3	3.38	88.52	3	3.38	88.52
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	13	0.03	0.03	193.50													3	185.38	95.80
White Birch on organic deposits (peat, muck and marl)	15	0.01	0.01	33.06															
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	33	0.07	0.07	427.88	11	173.19	40.48							11	173.19	40.48	11	244.06	57.04
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2	0.00	0.00	30.25															
Yellow Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2	0.01	0.01	57.44	1	5.75	10.01							1	5.75	10.01	2	57.44	100.00
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2900	11.99	12.18	75,055.50	1579	18,805.06	25.05							1620	18,907.19	25.19	1502	19,536.38	26.03
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	21	0.04	0.04	232.63	2	11.63	5.00							2	11.63	5.00	4	95.69	41.13
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	7	0.01	0.01	49.63															

Ecological System	# of Patches in 5E-7	% of Total Area (ha) in 5E-7	% of Total Natural Cover in 5E-7	Total Area (ha) in 5E-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																			
FORESTS continued																			
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	8	0.03	0.03	169.19	9	56.63	33.47							9	56.63	33.47	6	157.38	93.02
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	81	0.20	0.20	1,250.38	12	81.19	6.49							53	102.94	8.23	19	498.94	39.90
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	154	0.24	0.24	1,490.00	47	476.94	32.01							56	484.75	32.53	60	660.69	44.34
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	13	0.04	0.04	276.44	3	3.94	1.42							3	3.94	1.42	6	241.63	87.41
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	140	0.51	0.52	3,191.69	75	526.63	16.50							75	526.63	16.50	42	966.56	30.28
Hemlock on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	6	0.03	0.03	162.06													3	158.19	97.61
Hemlock on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	4	0.03	0.04	216.69	1	90.31	41.68							1	90.31	41.68	3	215.56	99.48
Hemlock on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.00	0.00	13.50															
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	801	3.37	3.42	21,090.31	401	5,579.19	26.45							430	5,590.81	26.51	433	6,225.06	29.52
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	4	0.01	0.01	64.63	3	0.50	0.77							3	0.50	0.77	3	64.44	99.71
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.00	0.00	21.94	4	8.75	39.89							4	8.75	39.89	4	8.75	39.89
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	23	0.05	0.05	297.94	2	0.31	0.10							2	0.31	0.10	5	148.38	49.80
Intolerant hardwoods on organic deposits (peat, muck and marl)	48	0.09	0.10	593.44	8	47.69	8.04							8	47.69	8.04	11	245.38	41.35
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	145	0.51	0.52	3,185.06	80	419.06	13.16							80	419.06	13.16	82	683.44	21.46
Midtolerant Hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	23.50													1	1.25	5.32
Midtolerant Hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	7	0.01	0.01	53.56													3	51.06	95.33
Midtolerant Hardwoods on organic deposits (peat, muck and marl)	1	0.00	0.00	3.94															
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	226	0.29	0.30	1,820.25	70	444.38	24.41							74	446.25	24.52	77	520.00	28.57
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	7	0.00	0.00	23.06															
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1	0.00	0.00	10.88															
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	6	0.01	0.01	46.13	6	33.31	72.22							6	33.31	72.22	6	33.31	72.22
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	4	0.00	0.00	24.38	1	1.25	5.13							1	1.25	5.13	1	1.25	5.13

Ecological System	# of Patches in SE-7	% of Total Area (ha) in SE-7	% of Total Natural Cover in SE-7	Total Area (ha) in SE-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																			
FORESTS continued																			
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	11	0.01	0.01	36.94	5	11.88	32.15							5	11.88	32.15	5	11.88	32.15
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1	0.00	0.00	19.44	1	19.44	100.00							1	19.44	100.00	1	19.44	100.00
Oak and Oak/Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	759	2.46	2.50	15,414.88	535	5,351.38	34.72							569	5,402.25	35.05	562	6,552.50	42.51
Oak and Oak/Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	19	0.01	0.01	60.38	1	0.06	0.10							1	0.06	0.10	3	6.19	10.25
Oak and Oak/Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	21	0.01	0.01	82.88													3	34.50	41.63
Oak and Oak/Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	16	0.02	0.02	102.00	4	76.63	75.12							4	76.63	75.12	4	76.63	75.12
Oak and Oak/Pine on organic deposits (peat, muck and marl)	34	0.04	0.04	239.13	33	94.44	39.49							53	97.94	40.96	32	109.06	45.61
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	371	2.48	2.52	15,545.50	166	6,395.63	41.14							170	6,396.38	41.15	163	7,184.31	46.21
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	8	0.00	0.01	31.06										1	0.06	0.20	1	0.06	0.20
Jack Pine on organic deposits (peat, muck and marl)	33	0.04	0.04	256.31	1	0.81	0.32							1	0.81	0.32	3	69.06	26.94
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2357	13.01	13.21	81,440.81	1089	17,787.13	21.84							1105	17,802.25	21.86	1089	27,495.25	33.76
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	9	0.01	0.01	74.00													3	40.25	54.39
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	13	0.03	0.03	165.00													3	138.38	83.86
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	6	0.01	0.01	54.88	1	23.44	42.71							1	23.44	42.71	3	54.56	99.43
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	59	0.10	0.10	623.88	19	293.19	46.99							23	294.56	47.21	24	383.00	61.39
Mixed Red and White Pine on organic deposits (peat, muck and marl)	140	0.29	0.29	1,799.19	10	60.31	3.35							14	60.75	3.38	17	551.56	30.66
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	16	0.02	0.02	130.25	8	73.69	56.57							8	73.69	56.57	9	114.31	87.76
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	29	0.03	0.03	200.56	9	29.25	14.58							9	40.00	19.94	11	54.81	27.33
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1	0.00	0.00	0.19													1	0.19	100.00
Lowland Black Spruce on organic deposits (peat, muck and marl)	3	0.00	0.00	8.13	1	0.06	0.77							4	6.56	80.77	4	6.56	80.77
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	857	3.77	3.83	23,599.69	360	9,710.00	41.14							360	9,710.00	41.14	350	10,793.31	45.73
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	6	0.01	0.01	88.56	5	8.31	9.39							5	8.31	9.39	3	79.00	89.20
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	6	0.00	0.00	19.38															

Ecological System	# of Patches in 5E-7	% of Total Area (ha) in 5E-7	% of Total Natural Cover in 5E-7	Total Area (ha) in 5E-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																			
FORESTS continued																			
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	12	0.01	0.01	42.25	5	31.19	73.82							5	31.19	73.82	5	31.19	73.82
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	19	0.03	0.03	205.00	6	102.25	49.88							6	102.25	49.88	6	152.31	74.30
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	42	0.06	0.06	376.31													3	168.44	44.76
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	8	0.02	0.02	153.50	8	34.06	22.19							8	34.06	22.19	7	147.25	95.93
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1662	12.59	12.78	78,811.31	582	10,713.31	13.59							592	10,714.69	13.60	593	15,115.25	19.18
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	90	0.25	0.25	1,562.38	5	23.75	1.52							5	23.75	1.52	4	379.81	24.31
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	19	0.06	0.06	386.94													3	282.06	72.90
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	32	0.25	0.25	1,551.00	43	121.88	7.86							43	121.88	7.86	16	1,386.94	89.42
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	90	0.21	0.21	1,322.50	28	336.31	25.43							33	338.06	25.56	36	729.56	55.17
Tolerant hardwoods on organic deposits (peat, muck and marl)	45	0.14	0.14	862.19	14	207.00	24.01							14	207.00	24.01	13	459.38	53.28
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	35	0.17	0.17	1,039.38	12	296.25	28.50							12	296.25	28.50	6	905.19	87.09
WETLANDS																			
Conifer Swamp	2708	0.27	0.27	1,684.56	616	337.25	20.02	2	1.25	0.07	1	0.88	0.05	620	342.19	20.31	621	344.38	20.44
Deciduous Swamp	1058	0.22	0.22	1,382.00	213	119.69	8.66	7	7.13	0.52	97	121.50	8.79	370	323.06	23.38	293	225.50	16.32
Marsh	1	0.00	0.00	0.69															
Open Bog	168	0.06	0.06	352.63	19	25.19	7.14							19	25.19	7.14	21	64.00	18.15
Treed Bog	6713	1.19	1.21	7,450.00	1365	1,373.88	18.44							1377	1,382.00	18.55	1378	1,412.31	18.96
Treed Fen	27	0.01	0.01	46.50															
Non-Target Natural Ecological Systems																			
FORESTS																			
Aspen on unknown bedrock	17	0.03	0.03	166.38	11	140.31	84.34							11	140.31	84.34	11	140.38	84.37
White Birch on unknown bedrock	6	0.01	0.01	42.50	6	38.56	90.74							6	38.56	90.74	6	38.56	90.74
Coniferous Forest on unknown bedrock	3194	0.21	0.21	1,315.00	1259	258.50	19.66	27	36.63	2.79	23	43.88	3.34	1296	306.44	23.30	1291	295.94	22.50
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	0.13															
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	48482	3.19	3.23	19,940.19	15491	4,637.50	23.26	24	74.25	0.37	169	2,352.56	11.80	15760	7,043.31	35.32	15630	6,470.81	32.45
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	77	0.00	0.00	15.81	1	0.06	0.40							1	0.06	0.40	1	0.06	0.40

Ecological System	# of Patches in SE-7	% of Total Area (ha) in SE-7	% of Total Natural Cover in SE-7	Total Area (ha) in SE-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Natural Ecological Systems																			
FORESTS continued																			
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	70	0.00	0.00	19.63															
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	146	0.01	0.02	92.50	66	13.56	14.66	13	27.13	29.32	13	27.13	29.32	79	40.69	43.99	79	40.69	43.99
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	506	0.03	0.03	157.75	34	3.75	2.38							49	5.44	3.45	49	5.44	3.45
Coniferous Forest on organic deposits (peat, muck and marl)	1549	0.12	0.13	772.63	466	131.19	16.98				9	91.94	11.90	489	224.69	29.08	480	132.75	17.18
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	51	0.00	0.00	22.81	11	1.44	6.30							11	1.44	6.30	11	1.44	6.30
Deciduous Forest on unknown bedrock	1144	0.24	0.24	1,471.25	181	73.13	4.97	44	197.13	13.40	52	194.06	13.19	298	315.94	21.47	283	306.75	20.85
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	13	0.01	0.01	56.13															
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	25067	3.50	3.55	21,895.31	6036	1,919.50	8.77	34	131.19	0.60	161	765.25	3.50	6409	3,067.38	14.01	6295	2,466.06	11.26
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	287	0.02	0.02	96.31	1	0.06	0.06							1	0.06	0.06	1	0.06	0.06
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	79	0.00	0.00	28.50															
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	147	0.11	0.11	696.44	18	1.56	0.22	10	293.06	42.08	13	297.94	42.78	46	311.44	44.72	45	308.81	44.34
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	483	0.13	0.14	832.44	117	24.56	2.95							119	26.38	3.17	119	26.38	3.17
Deciduous Forest on organic deposits (peat, muck and marl)	387	0.07	0.07	429.94	126	18.00	4.19				7	88.44	20.57	135	107.75	25.06	128	19.31	4.49
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	150	0.02	0.02	115.44	27	23.44	20.30				2	2.00	1.73	29	25.44	22.04	29	23.63	20.47
Deciduous Forest on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	7	0.00	0.00	10.50															
Upland hardwood and mixed conifer on unknown bedrock	367	0.39	0.40	2,450.75	185	823.31	33.59							197	833.81	34.02	197	833.81	34.02
Hemlock on unknown bedrock	11	0.02	0.02	120.50															
Intolerant hardwoods on unknown bedrock	39	0.03	0.03	186.69	20	147.00	78.74							20	147.00	78.74	20	147.00	78.74
Mitotolerant Hardwoods on unknown bedrock	58	0.08	0.08	487.00	20	81.75	16.79							20	81.75	16.79	20	81.75	16.79
Mixed Forest on unknown bedrock	1864	0.25	0.25	1,551.13	475	135.94	8.76	24	141.94	9.15	26	149.63	9.65	515	292.69	18.87	508	280.13	18.06
Mixed Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	6	0.00	0.00	9.56															
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	43110	3.82	3.88	23,925.31	9530	3,984.31	16.65	31	157.13	0.66	200	1,527.38	6.38	9892	5,630.44	23.53	9752	4,642.63	19.40
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	317	0.02	0.02	98.81	7	0.69	0.70							7	0.69	0.70	7	0.69	0.70
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	84	0.00	0.00	18.25															

Ecological System	# of Patches in 5E-7	% of Total Area (ha) in 5E-7	% of Total Natural Cover in 5E-7	Total Area (ha) in 5E-7	# of Patches Parks & PAs	Total Area (ha) Parks & PAs	% System Parks & PAs	# of patches in Federal Lands	Total Area (ha) in Federal Lands	% System in Federal Lands	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Natural Ecological Systems																			
FORESTS continued																			
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	317	0.04	0.04	229.38	93	12.19	5.31	12	87.88	38.31	12	87.88	38.31	105	100.06	43.62	105	100.06	43.62
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	666	0.05	0.05	305.44	139	24.13	7.90							152	29.94	9.80	152	29.94	9.80
Mixed forest on organic deposits (peat, muck and marl)	890	0.08	0.08	474.81	181	39.00	8.21				9	17.75	3.74	192	57.31	12.07	183	39.56	8.33
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	209	0.01	0.01	79.94	23	12.69	15.87				3	0.44	0.55	26	13.13	16.42	23	12.69	15.87
Mixed Lowland Conifer on unknown bedrock	3	0.00	0.00	6.25															
Oak and Oak/Pine on unknown bedrock	205	0.18	0.18	1,135.69	91	483.31	42.56							98	497.19	43.78	98	497.19	43.78
Jack Pine on unknown bedrock	39	0.03	0.03	169.06	23	134.00	79.26							23	134.00	79.26	23	134.00	79.26
Mixed Red and White Pine on unknown bedrock	627	0.71	0.72	4,465.38	405	2,743.13	61.43							405	2,743.13	61.43	405	2,743.13	61.43
Mixed Spruce and Pine on unknown bedrock	125	0.11	0.11	682.75	96	610.50	89.42							96	610.50	89.42	96	610.50	89.42
Tolerant hardwoods on unknown bedrock	232	0.23	0.23	1,412.63	40	255.00	18.05							40	255.00	18.05	41	301.31	21.33
WETLANDS																			
Open Muskeg	20223	3.45	3.50	21,583.19	5747	6,087.44	28.20				7	4.44	0.02	5846	6,203.31	28.74	5846	6,203.19	28.74
Treed Muskeg	2367	1.24	1.26	7,777.88	613	2,267.06	29.15							611	2,275.13	29.25	611	2,275.13	29.25
OTHER LANDCOVER																			
Barren & Scattered	1474	0.29		1,791.63	314	334.31	18.66				10	15.50	0.87	329	350.56	19.57	321	335.31	18.72
Brush and Alder	6946	1.98	2.01	12,393.00	2094	3,935.75	31.76							2124	3,964.25	31.99	2126	3,973.81	32.06
Grass & Meadow	1071	0.49		3,083.00	16	29.88	0.97				3	1.38	0.04	31	37.00	1.20	30	35.81	1.16
Rock	19933	12.70	12.90	79,526.94	10653	37,417.38	47.05	1	0.06	0.00	2	2.88	0.00	10827	37,493.25	47.15	10827	37,621.88	47.31
Unclassified (Cloud & Shadow)	74	0.02		126.50	21	31.50	24.90	10	77.19	61.02				32	108.88	86.07	32	108.63	85.87
Water	29850	7.56	7.68	47,324.13	10066	13,961.44	29.50	176	77.31	0.16	303	629.00	1.33	10673	14,844.56	31.37	10547	14,942.50	31.57
Anthropogenic Land Types																			
Developed Agricultural Land	530	0.54		3,353.19	6	2.75	0.08				8	16.94	0.51	35	77.94	2.32	35	76.50	2.28
Settlement and Developed Land	750	0.15		948.88	27	9.19	0.97							37	10.31	1.09	37	10.31	1.09

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Huntsville

Ecodistrict 5E-8

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 847,130 hectares (2,093,304 acres)

Land Ownership: 60% private, 40% Crown

Planning Authority: 47% Parry Sound District, 41% Muskoka District, 6% Kawartha Lakes, 5% Haliburton County, 1% Simcoe County

Physiography:

This ecodistrict is composed primarily of undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. In general, the ecodistrict contains gently sloping plains of bedrock ridges with broad pockets of silty clay and sand. There are considerable areas of glaciolacustrine deposits along the ecodistrict's northern portion of the Highway 11 corridor and another strand of such deposits between the towns of McKellar and Rosseau. Considerable glaciofluvial deposits occur along the eastern side of the Highway 11 corridor in the southern portion of the ecodistrict. Scattered pockets of till and organic material are also present.

Natural Cover:

Approximately 94% of the ecodistrict remains as natural cover, primarily forest. Nearly 40% of the natural cover is tolerant hardwood, with the majority of this being on bedrock. There is also strong representation of tolerant hardwoods on glaciofluvial, glaciolacustrine and till deposits. Another 15% of the forest cover is composed of upland hardwoods and mixed conifers. Six percent of the natural cover is wetland; one-third of the wetlands are open muskeg and the remaining are mostly conifer swamps and treed bogs. There are considerable rock outcrops predominantly in the southern portion, and 10% of 5E-8 is covered by water.

Land Use:

Over 21,500 hectares of 5E-8 have been converted to developed agricultural lands and over 6,500 hectares are devoted to settlement and other associated developed lands, including the communities of Gravenhurst and Huntsville.



Protection and Conservation:

Conservation lands make up approximately 8% of Ecodistrict 5E-8 (70,915 ha). Provincially protected areas account for the majority of this land (67,441 ha). Nearly 5,500 hectares are designated as provincially significant wetlands. Approximately 1,057 hectares are provincially significant life science ANSIs, of which 555 hectares coincide with provincial parks. One-quarter of the occurrences of species and vegetation community targets in 5E-8 are within conservation lands, primarily provincially protected areas.

Species Targets:

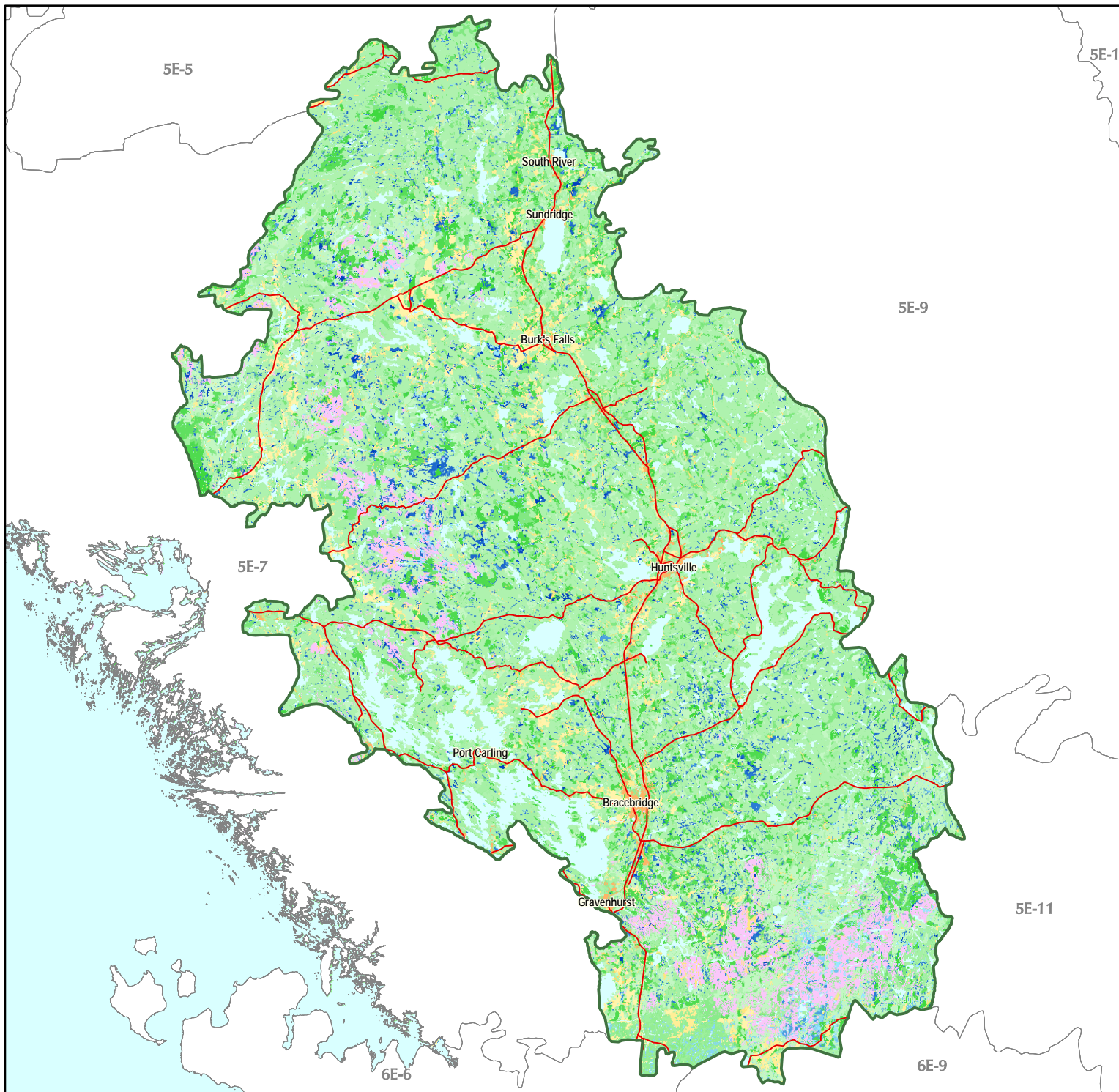
Three-quarters of the 28 targeted species occurring in 5E-8 are plants, most of which occur in the Great Lakes as disjuncts. Eight species are considered to be at risk, including the Endangered Butternut (*Juglans cinerea*), the Threatened Eastern Hog-nosed Snake (*Heterodon platirhinos*) and the Five-lined Skink (*Eumeces fasciatus*) - a species of Special Concern.

Vegetation Community Targets:

One of the 10 significant vegetation communities identified within 5E-8 is globally rare, six are provincially rare, and another four are considered high quality representative communities important to conservation.

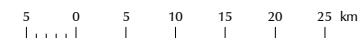
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-8 includes approximately 11% of all natural vegetated cover, and over half of the occurrences of species and vegetation community targets.

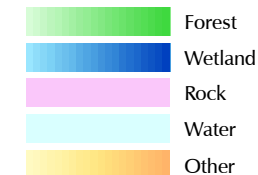


Great Lakes Conservation Blueprint for Biodiversity

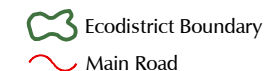
HUNTSVILLE ECODISTRICT 5E-8



Ecological Systems



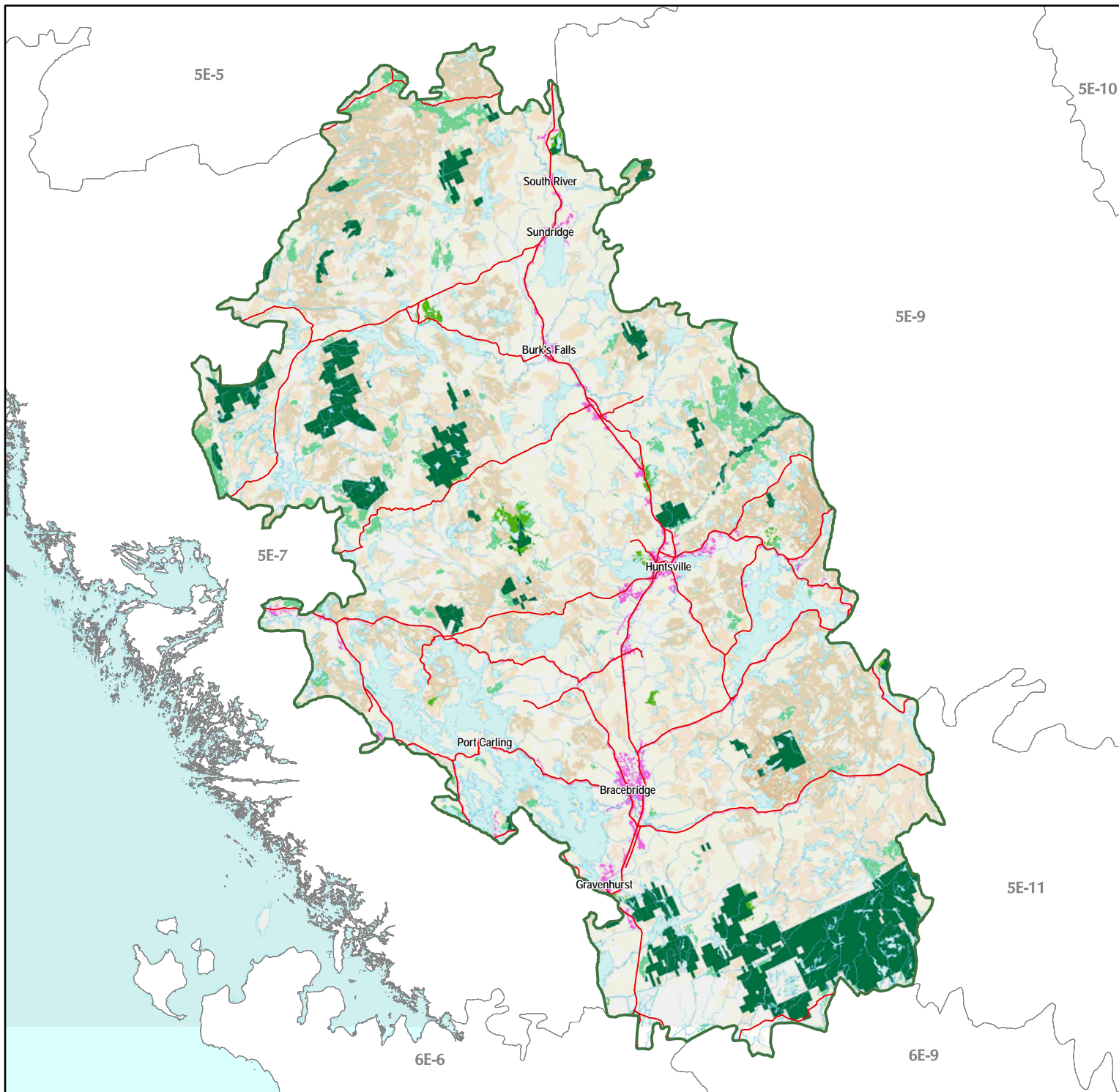
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

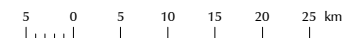
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint Project

HUNTSVILLE ECODISTRICT 5E-8



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 5E-8

Number of pops in 5E-8	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CA's	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Bartonia paniculata</i> ssp. <i>paniculata</i>	Branched Bartonia	G5T5	S1	THR	THR	SAR disjunct	0	33	33	0	33	3	100	3
1	<i>Botrychium rugulosum</i>	Rugulose Grapefern	G3G4	S2			GRank	0	0	0	0	0	1	100	4
1	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	0	0	0	0	100	1	100	3
1	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	0	100	0	0	100	1	100	3
2	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	100	50	0	100	2	100	3
1	<i>Gratiola aurea</i>	Golden Hedge-hyssop	G5	S4?			disjunct	0	0	0	0	0	1	100	3
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	50	0	0	100	2	100	2
6	<i>Juncus militaris</i>	Bayonet Rush	G4	S3S4			disjunct	0	67	0	0	83	6	100	3
2	<i>Linum striatum</i>	Ridged Yellow Flax	G5	S1			disjunct	0	0	0	0	0	2	100	3
1	<i>Melica smithii</i>	Smith Melic Grass	G5	S4?			disjunct	0	0	0	0	0	1	100	3
5	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	40	0	0	40	3	60	3
5	<i>Panicum spretum</i>	Panic Grass	G5	S2			disjunct	0	40	0	0	40	5	100	3
1	<i>Phegopteris hexagonoptera</i>	Broad Beech Fern	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	0	0	0	0	1	100	2
4	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	0	50	25	0	75	3	75	3
5	<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed	G4?	S3S4			disjunct	0	20	20	0	20	5	100	3
5	<i>Potamogeton confervoides</i>	Algae-like Pondweed	G4	S2			disjunct	0	40	40	0	40	3	60	3
9	<i>Rhexia virginica</i>	Virginia Meadow-beauty	G5	S3S4			disjunct	0	22	0	0	22	6	67	3
1	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	100	0	0	100	1	100	3
3	<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	G4G5	S3			disjunct	0	67	67	0	67	3	100	3
1	<i>Vaccinium ovalifolium</i>	Blue Bilberry	G5	S2			disjunct	0	0	0	0	0	1	100	3
6	<i>Xyris difformis</i>	Carolina Yellow-eyed-grass	G5	S3?			disjunct	0	33	17	0	33	5	83	3
Mosses															
1	<i>Tortula norvegica</i>	A Moss	G5	S1				0	0	0	0	0	0	0	secondary
Birds															
48	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
3	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	33	0	0	33	1	33	secondary
28	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	43	0	0	46	13	46	secondary
13	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	0	0	0	0	0	0	secondary
4	<i>Sistrurus catenatus</i>	Massasauga	G3G4	S3	THR	THR	GRank SAR	0	25	0	0	25	4	100	4
Communities															
1	Acid Treed Talus Ecosite		G4G5Q	S3S4			SRank	0	0	0	0	0	1	100	3
19	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	26	16	0	26	19	100	all viable
1	Buttonbush Organic Thicket Swamp Type		G4	S3			SRank	0	0	0	0	0	1	100	3
1	Dry - Fresh Hemlock - Oak Mixed Forest		G?	S3-S3S4?			SRank	0	0	0	0	0	1	100	3

Number of extant pops in 5E-8	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities continued															
1	Dry - Fresh Oak - Red Maple Deciduous Forest Type		G?	S5			high quality	0	0	0	0	0	1	100	secondary
1	Jack Pine Treed Granite Barren Type		G5	S5			high quality	0	0	0	0	0	0	0	secondary
1	Oak - Red Maple - Pine Treed Granite Barren Type		G?	S4S5			high quality	0	0	0	0	0	0	0	secondary
1	Red Cedar Treed Granite Barren Type		G?	S1			SRank	0	0	0	0	0	1	100	3
1	Silver / Red Maple Mineral Deciduous Swamp Type		G4?	S5			high quality	0	0	0	0	0	0	0	secondary
1	Water Star-grass Submerged Shallow Aquatic Type		G5Q	S3S4			SRank	0	0	0	0	0	1	100	3

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-8

Ecological System	#of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	#of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	34490	66.04	70.00	559435.00	3828	33810.75	6.04	78	681.56	0.12	4869	35731.81	6.39	4897	59624.31	10.66
Target wetlands	18388	2.92	3.09	24726.06	2524	4477.38	18.11	61	54.69	0.22	2872	4836.81	19.56	2870	5058.94	20.46
All ecological systems	317880	100.00	100.00	847128.00	32692	67440.69	7.96	318	1057.00	0.12	36123	70915.13	8.37	36155	95630.75	11.29

Ecological systems details for Ecodistrict 5E-8

Ecological System	#of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	#of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	8	0.00	0.00	21.63	1	0.31	1.45				1	0.31	1.45	1	0.31	1.45
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	670	0.69	0.73	5,870.69	84	668.25	11.38				91	670.69	11.42	97	1,555.63	26.50
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	43	0.02	0.02	149.50	6	9.00	6.02				6	9.00	6.02	8	11.31	7.57
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	114	0.08	0.09	718.31	5	79.19	11.02				6	82.75	11.52	7	135.88	18.92
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	49	0.04	0.05	369.69	1	6.13	1.66				10	7.31	1.98	12	27.06	7.32
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	157	0.09	0.10	799.81							12	16.50	2.06	17	79.88	9.99
Aspen on organic deposits (peat, muck and marl)	72	0.04	0.04	318.44	11	70.56	22.16				11	71.06	22.32	12	72.44	22.75
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	45	0.02	0.03	209.38	1	0.25	0.12				1	0.25	0.12	3	7.56	3.61
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	159	0.26	0.27	2,178.25	37	972.81	44.66				37	972.81	44.66	23	1,050.50	48.23
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	13	0.00	0.00	31.44												
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	20	0.01	0.01	83.38	5	30.69	36.81				5	30.69	36.81	8	45.88	55.02
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1	0.00	0.00	6.13												
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	26	0.02	0.02	163.50										3	10.88	6.65
White Birch on organic deposits (peat, muck and marl)	6	0.00	0.00	30.38												
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	31	0.01	0.01	91.81	1	2.19	2.38				1	2.19	2.38	4	22.25	24.23
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	131	0.16	0.17	1,364.88	26	128.06	9.38				26	128.06	9.38	28	271.81	19.91
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	9.19												

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Yellow Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	44	0.04	0.04	309.94	1	3.06	0.99				1	3.06	0.99	6	167.75	54.12
Yellow Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.00	0.00	13.94												
Yellow Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	25	0.01	0.01	98.75	3	0.19	0.19				3	0.19	0.19	3	15.63	15.82
Yellow Birch on organic deposits (peat, muck and marl)	3	0.00	0.00	28.44												
Yellow Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	42	0.02	0.02	178.50										3	59.75	33.47
Upland hardwood and mixed conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	47	0.05	0.05	387.75	7	67.25	17.34				7	67.25	17.34	7	147.56	38.06
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5306	10.86	11.51	91,984.94	1163	10,443.50	11.35	3	23.00	0.03	1290	10,497.63	11.41	1278	10,878.00	11.83
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	225	0.17	0.18	1,448.75	9	35.69	2.46				21	37.56	2.59	26	117.69	8.12
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1004	0.89	0.94	7,550.31	92	389.69	5.16				183	411.25	5.45	164	658.00	8.71
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	364	0.34	0.36	2,867.56	87	345.06	12.03				110	349.63	12.19	96	692.56	24.15
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	965	1.03	1.10	8,766.13	11	132.25	1.51				22	137.00	1.56	28	735.63	8.39
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	435	0.47	0.50	3,980.44	88	595.00	14.95	1	0.25	0.01	139	617.00	15.50	112	1,048.50	26.34
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	538	0.47	0.50	3,997.50	72	140.75	3.52				72	140.75	3.52	75	245.13	6.13
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	5	0.01	0.01	62.44	8	32.94	52.75				8	32.94	52.75	5	62.44	100.00
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	532	0.72	0.76	6,084.75	22	340.50	5.60				22	340.50	5.60	25	541.19	8.89
Hemlock on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	8	0.01	0.01	101.19	3	1.19	1.17				3	1.19	1.17	3	88.94	87.89
Hemlock on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	84	0.05	0.06	453.56	1	1.19	0.26				3	1.31	0.29	5	30.19	6.66
Hemlock on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	24	0.01	0.01	103.13							1	3.19	3.09	4	45.94	44.55
Hemlock on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	39	0.05	0.06	446.44										3	233.50	52.30
Hemlock on organic deposits (peat, muck and marl)	31	0.03	0.03	230.44										3	13.00	5.64
Hemlock on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	70	0.07	0.08	599.69										3	160.38	26.74
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	409	0.83	0.87	6,992.31	153	1,551.81	22.19				153	1,551.81	22.19	157	2,805.69	40.13

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	29	0.01	0.02	125.31	2	2.75	2.19				2	2.75	2.19	3	31.81	25.39
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	64	0.04	0.04	358.94	15	77.88	21.70				15	77.88	21.70	15	77.88	21.70
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	11	0.01	0.01	75.19										3	39.44	52.45
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	83	0.08	0.09	718.44										4	100.31	13.96
Intolerant hardwoods on organic deposits (peat, muck and marl)	23	0.03	0.03	234.38	8	24.81	10.59				8	24.81	10.59	8	118.00	50.35
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	37	0.02	0.02	172.56	10	23.19	13.44				10	23.19	13.44	12	25.00	14.49
Intolerant hardwoods on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	1	0.00	0.00	4.25	1	2.19	51.47				1	2.19	51.47	1	2.19	51.47
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	253	0.43	0.46	3,664.81	110	1,030.69	28.12	3	5.13	0.14	122	1,039.50	28.36	120	1,478.00	40.33
Midtolerant Hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.01	0.01	66.38										3	66.38	100.00
Midtolerant Hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	19	0.01	0.01	82.00	3	0.31	0.38				3	0.31	0.38	3	6.19	7.55
Midtolerant Hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	25	0.01	0.01	84.13	13	13.63	16.20				13	13.63	16.20	13	22.94	27.27
Midtolerant Hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	22	0.03	0.04	287.50										3	168.94	58.76
Midtolerant Hardwoods on organic deposits (peat, muck and marl)	7	0.01	0.01	75.44				1	0.06	0.08	10	2.88	3.81	3	66.69	88.40
Midtolerant Hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	11	0.01	0.01	64.94										3	41.75	64.29
Mixed Lowland Conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	18	0.02	0.02	178.38										3	34.50	19.34
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1079	1.03	1.09	8,699.13	126	1,102.19	12.67	7	187.00	2.15	146	1,413.19	16.25	145	1,511.06	17.37
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	58	0.03	0.03	277.25	6	9.94	3.58				11	17.44	6.29	12	91.13	32.87
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	143	0.09	0.10	779.31	3	0.75	0.10				27	129.19	16.58	27	155.44	19.95
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	75	0.08	0.09	696.56	5	47.25	6.78	4	90.38	12.97	16	235.75	33.84	16	274.38	39.39
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	288	0.25	0.27	2,154.63	6	71.00	3.30				8	201.56	9.35	9	291.50	13.53
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	149	0.08	0.08	647.13	22	97.19	15.02				27	123.88	19.14	29	178.69	27.61
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	125	0.09	0.10	774.06	1	0.44	0.06				1	0.44	0.06	4	50.69	6.55

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Lowland Conifer on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	1	0.00	0.00	0.06												
Oak and Oak/Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	18.56												
Oak and Oak/Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1070	1.82	1.93	15,401.94	264	3,418.94	22.20	4	38.81	0.25	332	3,431.75	22.28	329	3,483.31	22.62
Oak and Oak/Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	32	0.05	0.05	421.94	1	0.06	0.01				1	0.06	0.01	4	252.38	59.81
Oak and Oak/Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	136	0.17	0.18	1,403.88	4	7.56	0.54				17	10.38	0.74	16	166.50	11.86
Oak and Oak/Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	24	0.03	0.03	218.56	1	6.75	3.09							3	21.81	9.98
Oak and Oak/Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	46	0.10	0.11	877.13	12	110.38	12.58				1	6.75	0.77	3	298.56	34.04
Oak and Oak/Pine on organic deposits (peat, muck and marl)	18	0.02	0.02	195.81	13	9.06	4.63				12	110.38	56.37	9	121.88	62.24
Oak and Oak/Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	57	0.07	0.08	617.88							13	9.06	1.47	16	238.75	38.64
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	19	0.02	0.02	141.75	4	8.50	6.00				6	8.75	6.17	6	34.38	24.25
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	31	0.01	0.01	59.94							5	0.94	1.56	3	25.94	43.27
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.00	0.00	4.44												
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	5	0.00	0.00	37.06												
Jack Pine on organic deposits (peat, muck and marl)	7	0.00	0.00	17.38												
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	8	0.00	0.00	34.75												
Mixed Red and White Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	6	0.00	0.00	26.19												
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1700	2.00	2.12	16,948.00	209	1,604.88	9.47	2	111.00	0.65	212	1,656.94	9.78	220	2,014.94	11.89
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	29	0.02	0.02	139.69	1	2.19	1.57				1	2.19	1.57	3	19.81	14.18
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	434	0.27	0.29	2,317.75	3	21.75	0.94				12	25.38	1.09	13	160.94	6.94
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	71	0.04	0.04	355.94	3	4.88	1.37				5	5.06	1.42	5	101.75	28.59
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	227	0.18	0.19	1,511.44	3	5.38	0.36				3	5.38	0.36	6	306.88	20.30
Mixed Red and White Pine on organic deposits (peat, muck and marl)	107	0.09	0.09	756.25	10	16.25	2.15				19	26.31	3.48	17	75.56	9.99
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	129	0.06	0.07	528.88	6	15.88	3.00				6	15.88	3.00	8	82.13	15.53

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	207	0.15	0.16	1,283.88	16	88.56	6.90	1	0.06	0.00	21	192.38	14.98	22	316.25	24.63
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	15	0.01	0.01	82.19							2	18.56	22.59	4	26.06	31.71
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	46	0.04	0.04	310.81	11	46.69	15.02				11	46.69	15.02	7	100.63	32.37
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	10	0.00	0.00	32.81							4	13.75	41.90	4	13.75	41.90
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	77	0.05	0.06	455.88	3	16.94	3.72				11	80.63	17.69	6	101.56	22.28
Lowland Black Spruce on organic deposits (peat, muck and marl)	28	0.02	0.02	149.25	9	18.44	12.35				12	59.56	39.91	10	72.44	48.53
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	36	0.02	0.02	148.63	6	36.94	24.85				6	36.94	24.85	8	49.25	33.14
Mixed Spruce and Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	4	0.00	0.00	11.94												
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3017	2.94	3.11	24,868.56	155	1,158.06	4.66	1	6.75	0.03	209	1,234.31	4.96	212	2,053.81	8.26
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	178	0.10	0.11	873.44	4	13.56	1.55				13	25.69	2.94	15	33.00	3.78
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	641	0.40	0.42	3,378.06	21	45.19	1.34				83	122.50	3.63	86	229.00	6.78
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	249	0.17	0.18	1,465.38	12	18.94	1.29	3	44.38	3.03	15	181.38	12.38	16	322.81	22.03
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	883	0.73	0.78	6,209.81	6	11.25	0.18				18	26.06	0.42	23	147.75	2.38
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	234	0.13	0.13	1,066.00	4	27.19	2.55				17	40.63	3.81	18	51.81	4.86
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	578	0.37	0.39	3,127.88	27	90.06	2.88				27	90.06	2.88	24	184.00	5.88
Mixed Spruce and Pine on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	3	0.00	0.00	2.75												
Tolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	30	0.02	0.02	155.06	2	1.06	0.69				2	1.06	0.69	4	55.13	35.55
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5533	26.16	27.72	221,579.19	583	7,097.44	3.20	42	165.88	0.07	763	7,342.31	3.31	775	12,765.25	5.76
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	298	0.59	0.62	4,989.31	12	60.69	1.22				12	60.69	1.22	18	696.69	13.96
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1125	2.61	2.77	22,130.25	59	426.13	1.93				89	433.06	1.96	87	3,374.75	15.25
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	414	0.70	0.74	5,920.19	5	10.94	0.18	6	8.88	0.15	30	28.63	0.48	34	747.81	12.63
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1283	2.81	2.98	23,806.44	34	230.88	0.97				47	236.25	0.99	51	1,630.13	6.85

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on organic deposits (peat, muck and marl)	411	0.76	0.80	6,428.00	39	159.75	2.49				110	185.13	2.88	87	675.00	10.50
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	752	2.31	2.45	19,581.94	57	467.94	2.39				57	467.94	2.39	57	1,700.25	8.68
Tolerant hardwoods on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	5	0.00	0.00	18.25												
WETLANDS																
Conifer Swamp	8304	1.06	1.12	8,979.00	1157	1,816.13	20.23	48	40.50	0.45	1420	1,945.69	21.67	1420	1,945.94	21.67
Deciduous Swamp	1886	0.30	0.32	2,520.81	408	547.81	21.73				445	596.38	23.66	445	709.06	28.13
Marsh	97	0.04	0.05	379.44	34	217.50	57.32				34	217.50	57.32	32	256.38	67.57
Mixed Swamp	634	0.05	0.06	439.75	182	163.75	37.24				182	163.75	37.24	182	163.75	37.24
Open Bog	652	0.20	0.22	1,718.38	168	486.38	28.30				171	492.63	28.67	172	559.06	32.53
Open Fen	22	0.02	0.02	159.06	24	93.31	58.66				24	93.31	58.66	24	93.31	58.66
Treed Bog	6793	1.24	1.32	10,529.63	551	1,152.50	10.95	13	14.19	0.13	596	1,327.56	12.61	595	1,331.44	12.64
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	11	0.00	0.00	9.19	1	0.06	0.68				1	0.06	0.68	1	0.06	0.68
White Birch on unknown bedrock	3	0.00	0.00	13.38												
Coniferous Forest on unknown bedrock	420	0.03	0.03	265.88												
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	69	0.00	0.00	29.50	6	0.75	2.54				6	0.75	2.54	6	0.75	2.54
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	21040	0.76	0.80	6,428.25	4021	1,179.81	18.35	15	6.63	0.10	4202	1,212.88	18.87	4204	1,214.81	18.90
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	429	0.02	0.02	170.56	18	2.06	1.21				25	2.56	1.50	25	2.56	1.50
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2281	0.08	0.08	648.44	70	14.19	2.19				139	23.25	3.59	139	23.25	3.59
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	887	0.04	0.05	377.13	131	34.56	9.16	11	0.75	0.20	188	41.44	10.99	188	41.44	10.99
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2379	0.06	0.07	544.44	14	1.06	0.20				36	2.94	0.54	37	3.00	0.55
Coniferous Forest on organic deposits (peat, muck and marl)	1038	0.04	0.04	327.63	180	53.81	16.43				221	58.13	17.74	221	58.13	17.74
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1677	0.05	0.05	435.50	163	41.69	9.57				163	41.69	9.57	163	41.69	9.57
Deciduous Forest on unknown bedrock	1380	0.09	0.09	739.94	4	0.44	0.06				4	0.44	0.06	4	0.44	0.06
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	109	0.01	0.01	103.06	9	15.69	15.22				9	15.69	15.22	9	15.69	15.22
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	38850	1.57	1.67	13,326.06	7272	2,215.19	16.62	10	3.06	0.02	7394	2,240.25	16.81	7397	2,242.06	16.82

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	793	0.05	0.05	399.25	1	0.06	0.02				1	0.06	0.02	1	0.06	0.02
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2995	0.12	0.13	999.94	46	5.69	0.57				56	7.00	0.70	56	7.00	0.70
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1479	0.11	0.12	940.25	187	54.88	5.84				208	83.94	8.93	208	83.94	8.93
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	3787	0.13	0.14	1,088.63	10	1.38	0.13				17	2.50	0.23	17	2.50	0.23
Deciduous Forest on organic deposits (peat, muck and marl)	935	0.07	0.07	581.00	175	71.25	12.26				195	78.44	13.50	195	78.44	13.50
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2311	0.09	0.10	779.56	52	11.00	1.41				52	11.00	1.41	52	11.00	1.41
Deciduous Forest on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	17	0.00	0.00	1.50	9	0.81	54.17				9	0.81	54.17	9	0.81	54.17
Upland hardwood and mixed conifer on unknown bedrock	97	0.05	0.05	411.69	6	9.81	2.38				6	9.81	2.38	6	9.81	2.38
Hemlock on unknown bedrock	62	0.03	0.03	262.69												
Intolerant hardwoods on unknown bedrock	6	0.00	0.00	14.25												
Midtolerant Hardwoods on unknown bedrock	8	0.00	0.00	30.31												
Mixed Forest on unknown bedrock	2047	0.13	0.14	1,121.81												
Mixed Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	96	0.01	0.01	82.94	13	1.38	1.66				13	1.38	1.66	13	1.38	1.66
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	66936	1.88	1.99	15,923.56	4027	673.00	4.23	83	28.44	0.18	4236	714.75	4.49	4240	737.13	4.63
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1680	0.06	0.07	539.88	11	0.69	0.13				12	0.75	0.14	12	0.75	0.14
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	7996	0.26	0.27	2,177.50	422	70.75	3.25				561	87.06	4.00	561	87.06	4.00
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2119	0.09	0.10	800.88	42	8.19	1.02	3	0.50	0.06	86	27.69	3.46	86	27.69	3.46
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	8617	0.20	0.21	1,652.25	64	6.00	0.36				98	8.94	0.54	98	8.94	0.54
Mixed forest on organic deposits (peat, muck and marl)	2438	0.06	0.07	542.56	157	21.56	3.97				197	34.31	6.32	197	34.31	6.32
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4692	0.13	0.13	1,077.19	124	18.88	1.75				124	18.88	1.75	127	19.38	1.80
Mixed forest on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	4	0.00	0.00	0.25	3	0.19	75.00				3	0.19	75.00	3	0.19	75.00
Mixed Lowland Conifer on unknown bedrock	17	0.00	0.00	34.25												
Oak and Oak/Pine on unknown bedrock	120	0.06	0.07	549.75												
Mixed Red and White Pine on unknown bedrock	93	0.04	0.04	351.50												
Mixed Spruce and Pine on unknown bedrock	31	0.01	0.01	102.44	2	0.56	0.55				2	0.56	0.55	2	0.56	0.55

Ecological System	# of Patches in 5E-8	% of Total Area (ha) in 5E-8	% of Total Natural Cover in 5E-8	Total Area (ha) in 5E-8	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on unknown bedrock	609	0.45	0.47	3,780.69	3	4.63	0.12				3	4.63	0.12	3	4.63	0.12
WETLANDS																
Open Muskeg	24911	2.22	2.35	18,810.13	2515	1,682.56	8.94	17	16.25	0.09	2718	1,875.63	9.97	2720	1,877.19	9.98
Treed Muskeg	3572	0.73	0.77	6,149.56	435	529.63	8.61	17	9.00	0.15	493	603.50	9.81	493	603.50	9.81
OTHER LANDCOVER																
Barren & Scattered	10195	0.22		1,864.13	57	5.06	0.27				78	6.94	0.37	78	6.94	0.37
Brush and Alder	6974	1.49	1.58	12,615.88	1007	1,623.94	12.87	3	13.13	0.10	1161	1,937.00	15.35	1161	1,937.00	15.35
Grass & Meadow	7231	2.08		17,606.00	65	161.69	0.92	3	11.69	0.07	111	180.94	1.03	111	180.94	1.03
Rock	5706	4.15	4.40	35,170.56	2255	17,763.13	50.51				2375	17,788.94	50.58	2376	17,810.75	50.64
Unclassified (Cloud & Shadow)	236	0.02		181.75												
Water	20386	10.00	10.59	84,676.56	2748	2,861.31	3.38	17	231.31	0.27	3096	3,157.50	3.73	3086	3,708.44	4.38
Anthropogenic Land Types																
Developed Agricultural Land	2070	2.55		21,595.19	5	3.69	0.02				54	58.81	0.27	54	58.81	0.27
Settlement and Developed Land	3163	0.78		6,631.75	10	1.56	0.02				29	4.50	0.07	29	4.50	0.07

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Algonquin Park

Ecodistrict 5E-9

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 876,361 hectares (2,165,534 acres)

Land Ownership: 5 % private, 95% Crown

Planning Authority: 55% Nipissing District, 31% Haliburton County, 8% Hastings County, 5% Parry Sound District, 1% Muskoka District

Physiography:

This ecodistrict contains the Algonquin Dome and exhibits a rolling topography with rich layers of gravelly till and moderately rolling rock ridges. The bedrock is described as undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. There are also glaciofluvial deposits of sand and gravel in deep depressions, particularly in the northern portions of the ecodistrict. Rock-cored drumlins occur locally, as well as small pockets of organic materials. The west side of the Algonquin Dome exhibits a prominent rise in elevation with richer sandy loam soils.

Natural Cover:

Ninety percent of the ecodistrict remains as natural cover, primarily forest. Tolerant hardwoods comprise over half of the forest cover. Upland hardwoods with mixed conifers represent 12% of the remaining natural cover and are intermixed with the tolerant hardwoods. Hemlock stands are also scattered through the uplands comprising another 4% of the forested area. Five percent of the natural cover is wetland, primarily open muskeg. Ten percent of the ecodistrict is water, often in the form of cold, deep bedrock lakes with steep rocky shorelines.

Land Use:

Nearly 1,746 hectares of 5E-9 have been converted to developed agricultural lands, and over 600 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands make up approximately 51% of Ecodistrict 5E-9 (449,799 ha), and this is largely because of the overlap with the western half of Algonquin Provincial Park. Some smaller provincial parks and conservation reserves contribute to the 447,573 hectares of provincially protected areas. There are also approximately 1,994 hectares of provincially significant wetlands (Baptiste-Elephant Lakes Wetland Complex). Another 1,910 hectares are provincially significant life science ANSIs, of which 1,155 hectares coincide with provincial parks and 5,81 hectares coincide with conservation reserves. Thirty-seven percent of all occurrences of species and vegetation community targets in 5E-9 are within conservation lands, largely within Algonquin Provincial Park.

Species Targets:

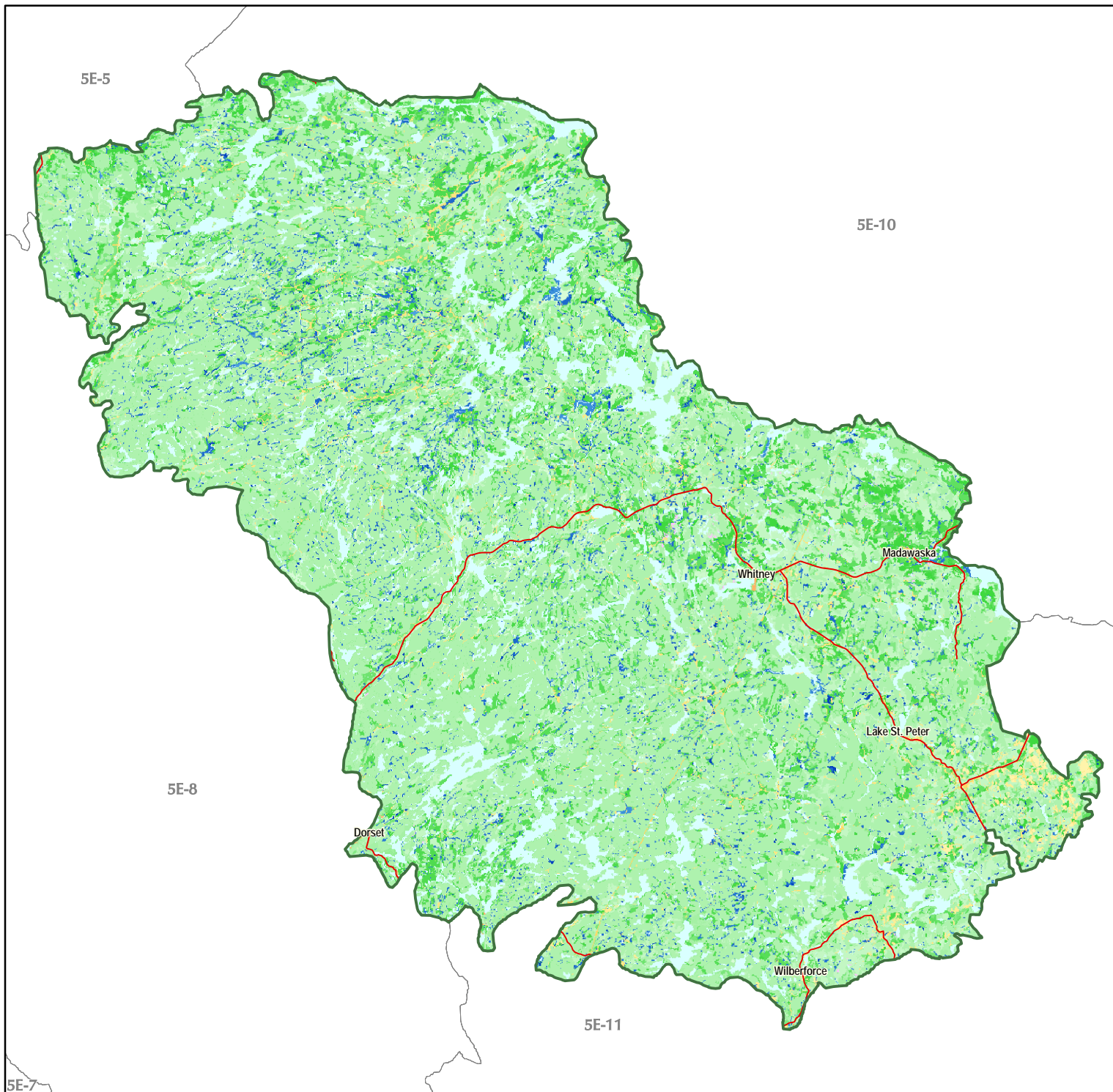
Two-thirds of the 11 targeted species occurring in 5E-9 are plants, all of which occur in the Great Lakes as disjuncts. Three species are at risk including the Eastern Hog-nosed Snake (*Heterodon platirhinos*), Red-shouldered Hawk (*Buteo lineatus*) and Wood Turtle (*Glyptemys insculpta*).

Vegetation Community Targets:

Atlantic Coastal Plain Shallow Marsh, a globally and provincially rare vegetation community occurs in Ecodistrict 5E-9.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-9 includes approximately 53% of all natural vegetated cover, and over 70% of all occurrences of species and vegetation community targets.

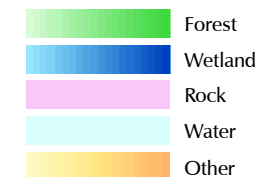


Great Lakes Conservation Blueprint for Biodiversity

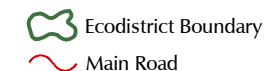
ALGONQUIN PARK ECODISTRICT 5E-9



Ecological Systems



Other Information



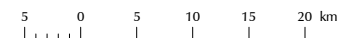
Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint Project

ALGONQUIN PARK ECODISTRICT 5E-9



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

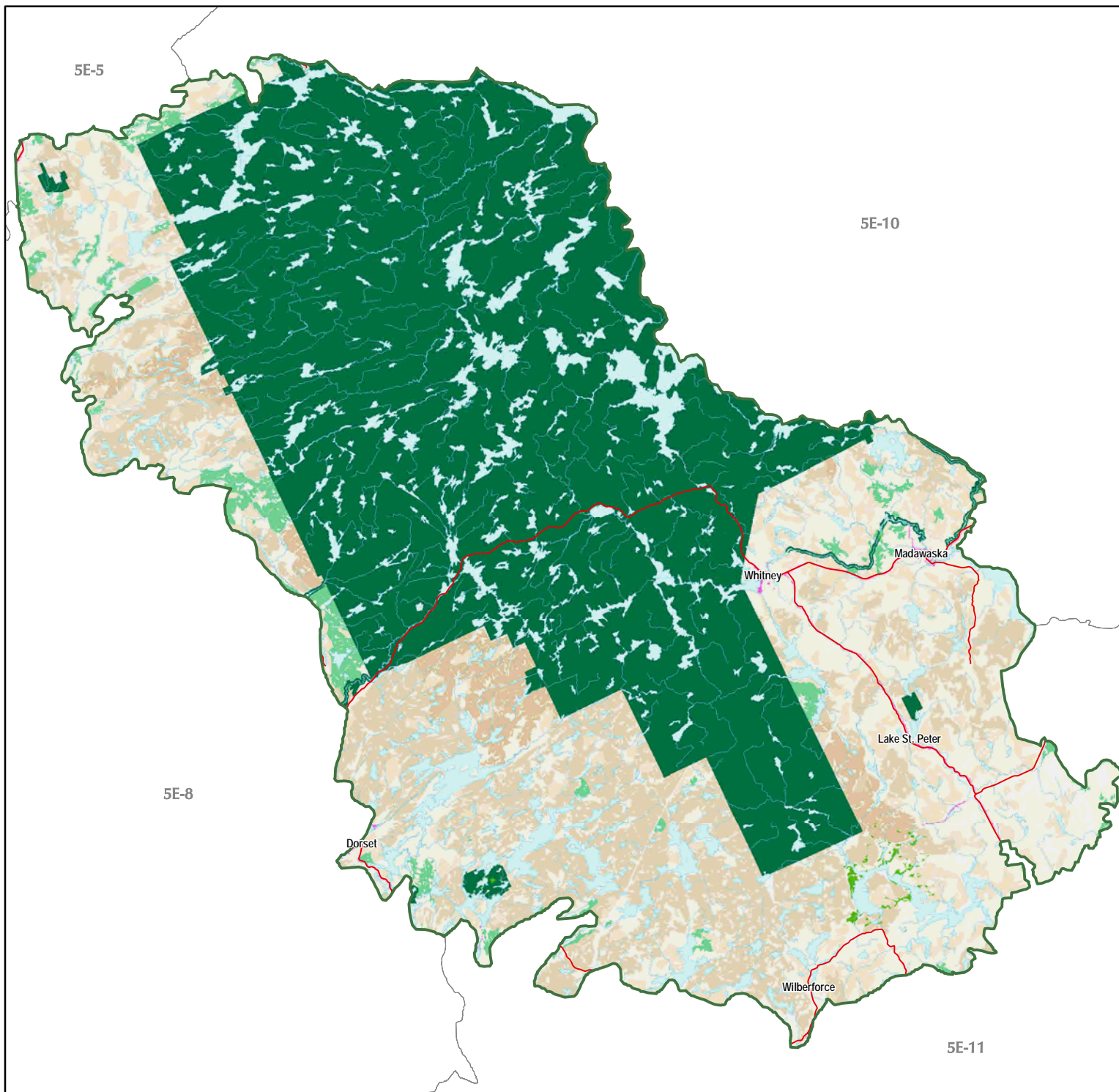
- Natural Heritage Values



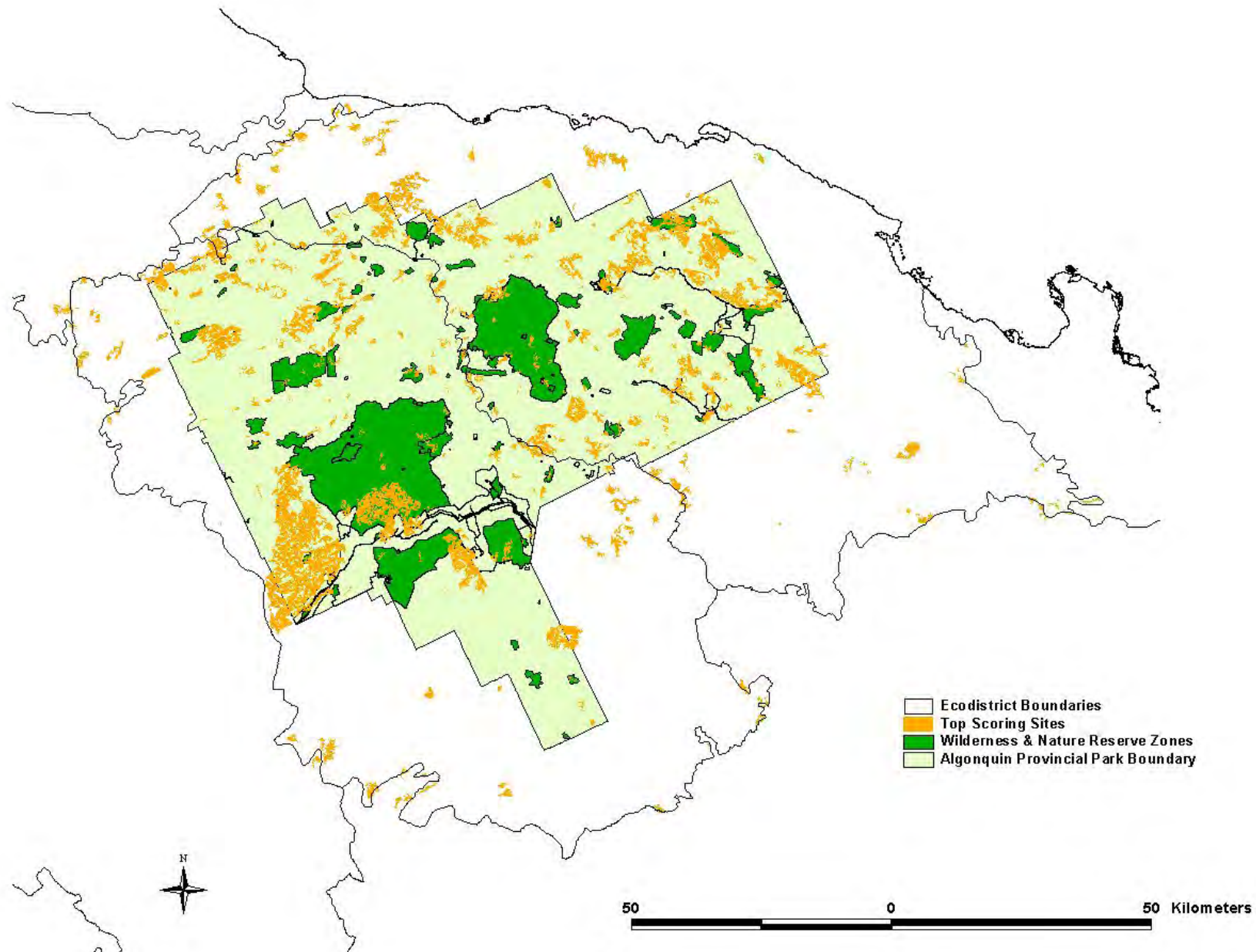
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Top Scoring Ecological Systems:



Documented extant vegetation community and species targets in Ecodistrict 5E-9

Number of pops in 5E-9	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Astragalus alpinus</i>	Alpine Milkvetch	G5	S5			disjunct	0	100	0	0	100	1	100	3
2	<i>Juncus militaris</i>	Bayonet Rush	G4	S3S4			disjunct	0	100	0	0	100	2	100	3
3	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	33	0	0	33	3	100	3
2	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	0	0	0	0	0	2	100	3
6	<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed	G4?	S3S4			disjunct	0	50	0	0	50	4	67	3
1	<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	G4G5	S3			disjunct	0	100	0	0	100	1	100	3
1	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	0	0	0	0	1	100	3
Birds															
7	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
3	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	100	67	0	100	3	100	secondary
3	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	0	67	0	0	67	2	67	secondary
Odonata															
1	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	0	0	0	0	1	100	2
Communities															
5	Atlantic Coastal Plain Shallow Marsh Type		G2?	S3			GRank	0	0	0	0	0	5	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-9

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	31,976	79.77	88.96	699,090.31	18,476	352,928.75	50.48	302	1,569.31	0.22	18,883	353,641.88	50.59	18,910	370,305.75	52.97
Target wetlands	6,236	1.29	1.44	11,311.88	3,656	7,748.56	68.50	11	3.94	0.03	3,724	7,848.50	69.38	3,726	7,849.50	69.39
All ecological systems	205,801	100.00	100.00	876,359.50	100,191	447,572.69	51.07	945	1,910.13	0.22	101,567	449,799.06	51.33	101,602	466,635.13	53.25

Ecological systems details for Ecodistrict 5E-9

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	579.00	0.92	1.03	8,056.56	248.00	3,032.81	37.64	30.00	219.38	2.72	248.00	3,041.00	37.75	249.00	3,529.44	43.81
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	101.00	0.12	0.14	1,081.63	56.00	718.31	66.41				56.00	718.31	66.41	57.00	753.25	69.64
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	211.00	0.21	0.23	1,827.81	97.00	820.50	44.89	3.00	2.88	0.16	97.00	822.38	44.99	97.00	822.38	44.99
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	7.00	0.01	0.01	51.06										3.00	46.56	91.19
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6.00	0.01	0.01	73.31										3.00	70.88	96.68
Aspen on organic deposits (peat, muck and marl)	21.00	0.03	0.03	223.75	5.00	32.19	14.39				5.00	32.19	14.39	6.00	83.75	37.43
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	225.00	0.24	0.27	2,144.56	73.00	701.13	32.69	6.00	13.94	0.65	72.00	714.19	33.30	73.00	843.88	39.35
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	486.00	0.67	0.75	5,913.25	306.00	4,065.56	68.75	4.00	69.13	1.17	305.00	4,066.31	68.77	306.00	4,195.88	70.96
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	114.00	0.10	0.11	869.13	83.00	668.44	76.91				83.00	668.44	76.91	83.00	668.44	76.91
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	116.00	0.08	0.09	727.63	70.00	547.94	75.30				70.00	547.94	75.30	70.00	547.94	75.30
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6.00	0.00	0.00	6.50			-									
White Birch on organic deposits (peat, muck and marl)	8.00	0.00	0.00	37.31	4.00	10.94	29.31				4.00	10.94	29.31	6.00	17.38	46.57
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	214.00	0.29	0.32	2,547.56	128.00	1,082.63	42.50				128.00	1,082.63	42.50	130.00	1,359.56	53.37
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	978.00	1.19	1.32	10,402.00	783.00	8,685.88	83.50				783.00	8,685.88	83.50	783.00	8,706.50	83.70
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	225.00	0.20	0.22	1,734.13	186.00	1,455.19	83.91				186.00	1,455.19	83.91	186.00	1,455.19	83.91
Yellow Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	328.00	0.28	0.32	2,478.19	267.00	2,175.69	87.79				267.00	2,175.69	87.79	274.00	2,197.00	88.65
Yellow Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2.00	0.00	0.00	26.44	2.00	3.31	12.53				2.00	3.31	12.53	2.00	3.31	12.53
Yellow Birch on organic deposits (peat, muck and marl)	9.00	0.01	0.01	53.38	8.00	31.63	59.25				8.00	31.63	59.25	8.00	31.63	59.25

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Yellow Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	271.00	0.34	0.38	2,971.88	232.00	2,557.69	86.06				232.00	2,557.69	86.06	232.00	2,557.69	86.06
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3,021.00	6.08	6.78	53,254.31	1345.00	20,404.00	38.31	51.00	173.75	0.33	1,417.00	20,484.69	38.47	1,418.00	20,504.75	38.50
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	603.00	0.79	0.88	6,885.56	375.00	4,385.81	63.70				375.00	4,385.81	63.70	376.00	4,850.56	70.45
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1,108.00	1.58	1.76	13,811.81	425.00	4,070.31	29.47				515.00	4,110.44	29.76	514.00	4,436.88	32.12
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	13.00	0.01	0.01	63.81										3.00	23.25	36.43
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	38.00	0.04	0.04	325.88	1.00	68.13	20.91				1.00	68.13	20.91	4.00	158.75	48.71
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	51.00	0.04	0.05	387.56	13.00	125.19	32.30				13.00	125.19	32.30	14.00	189.38	48.86
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1,347.00	2.39	2.66	20,912.50	515.00	5,361.50	25.64	5.00	84.44	0.40	503.00	5,374.13	25.70	495.00	5,942.38	28.42
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1,603.00	2.16	2.41	18,949.50	1234.00	13,494.56	71.21	28.00	187.19	0.99	1,221.00	13,516.13	71.33	1,221.00	13,516.13	71.33
Hemlock on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	231.00	0.19	0.21	1,682.44	206.00	1,576.13	93.68				206.00	1,576.13	93.68	206.00	1,576.13	93.68
Hemlock on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	210.00	0.16	0.18	1,442.94	170.00	1,107.13	76.73				170.00	1,107.13	76.73	170.00	1,107.38	76.74
Hemlock on organic deposits (peat, muck and marl)	35.00	0.02	0.02	161.38	21.00	115.63	71.65				21.00	115.63	71.65	21.00	115.63	71.65
Hemlock on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	467.00	0.61	0.68	5,377.50	408.00	4,964.38	92.32	2.00	0.13	0.00	408.00	4,964.38	92.32	408.00	4,964.38	92.32
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	658.00	1.47	1.64	12,883.44	354.00	5,022.81	38.99	35.00	204.06	1.58	342.00	5,056.13	39.25	344.00	5,303.19	41.16
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	108.00	0.13	0.14	1,116.31	62.00	749.50	67.14				62.00	749.50	67.14	62.00	749.50	67.14
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	240.00	0.28	0.31	2,460.38	103.00	819.50	33.31	2.00	3.44	0.14	106.00	820.38	33.34	110.00	926.63	37.66
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	6.00	0.00	0.00	17.31												
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	5.00	0.00	0.00	38.50										2.00	27.94	72.56
Intolerant hardwoods on organic deposits (peat, muck and marl)	26.00	0.02	0.02	173.50	4.00	31.25	18.01				4.00	31.25	18.01	6.00	58.75	33.86
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	254.00	0.39	0.43	3,375.81	110.00	806.25	23.88	7.00	44.81	1.33	113.00	811.88	24.05	115.00	1,063.50	31.50
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	57.00	0.14	0.15	1,208.50	5.00	135.63	11.22				5.00	135.63	11.22	7.00	298.31	24.68
Midtolerant Hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1.00	0.00	0.00	9.13												

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Midtolerant Hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3.00	0.01	0.01	62.81										3.00	62.81	100.00
Midtolerant Hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2.00	0.00	0.00	4.38												
Midtolerant Hardwoods on organic deposits (peat, muck and marl)	2.00	0.00	0.00	2.56										1.00	0.81	31.71
Midtolerant Hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	14.00	0.01	0.01	79.94	4.00	26.38	32.99				4.00	26.38	32.99	4.00	26.38	32.99
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1,027.00	0.72	0.81	6,331.25	484.00	2,913.63	46.02				510.00	3,016.69	47.65	511.00	3,043.38	48.07
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	244.00	0.16	0.18	1,396.56	193.00	1,046.25	74.92				193.00	1,046.25	74.92	195.00	1,106.81	79.25
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	338.00	0.24	0.27	2,142.56	182.00	1,122.94	52.41				201.00	1,228.63	57.34	208.00	1,296.19	60.50
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	4.00	0.00	0.00	9.25												
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	11.00	0.01	0.01	56.63										3.00	6.94	12.25
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	27.00	0.03	0.04	283.88	8.00	45.38	15.98				8.00	45.38	15.98	9.00	106.69	37.58
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	369.00	0.26	0.30	2,322.31	203.00	1,203.56	51.83				204.00	1,216.44	52.38	204.00	1,216.44	52.38
Oak and Oak/Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	183.00	0.47	0.53	4,147.44	39.00	434.88	10.49	9.00	62.81	1.51	38.00	440.44	10.62	44.00	1,182.88	28.52
Oak and Oak/Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	17.00	0.02	0.02	172.69	10.00	30.81	17.84				10.00	30.81	17.84	11.00	133.81	77.49
Oak and Oak/Pine on organic deposits (peat, muck and marl)	7.00	0.01	0.01	65.25										3.00	49.00	75.10
Oak and Oak/Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	10.00	0.01	0.01	88.56	3.00	47.56	53.71				3.00	47.56	53.71	4.00	48.50	54.76
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	12.00	0.02	0.02	170.56	12.00	36.69	21.51	4.00	15.81	9.27	9.00	39.25	23.01	6.00	116.63	68.38
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2.00	0.01	0.01	70.88	2.00	70.88	100.00				2.00	70.88	100.00	2.00	70.88	100.00
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	15.00	0.02	0.02	189.19	20.00	70.56	37.30	1.00	4.69	2.48	20.00	71.06	37.56	9.00	152.94	80.84
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	9.00	0.01	0.01	54.63	1.00	5.75	10.53				1.00	5.75	10.53	3.00	18.25	33.41
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	590.00	0.90	1.00	7,873.50	376.00	3,603.00	45.76	43.00	204.94	2.60	353.00	3,616.25	45.93	340.00	4,384.38	55.69
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	133.00	0.18	0.20	1,562.69	89.00	1,153.13	73.79				89.00	1,153.13	73.79	89.00	1,153.13	73.79
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	307.00	0.40	0.44	3,476.13	161.00	1,619.50	46.59				173.00	1,621.94	46.66	173.00	1,622.00	46.66

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1.00	0.00	0.00	12.00												
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	4.00	0.00	0.00	7.31												
Mixed Red and White Pine on organic deposits (peat, muck and marl)	16.00	0.01	0.01	117.88	7.00	24.56	20.84				7.00	24.56	20.84	9.00	34.94	29.64
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	244.00	0.23	0.26	2,056.31	109.00	882.63	42.92	5.00	20.38	0.99	109.00	882.63	42.92	109.00	882.63	42.92
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	426.00	0.26	0.29	2,309.94	299.00	1,643.50	71.15				302.00	1,666.13	72.13	302.00	1,683.63	72.89
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	178.00	0.11	0.12	921.94	153.00	793.56	86.08				153.00	793.56	86.08	153.00	793.56	86.08
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	202.00	0.13	0.15	1,178.00	163.00	937.56	79.59				163.00	937.56	79.59	163.00	937.56	79.59
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6.00	0.00	0.00	13.94												
Lowland Black Spruce on organic deposits (peat, muck and marl)	19.00	0.01	0.01	101.63	12.00	92.19	90.71				12.00	92.19	90.71	12.00	92.19	90.71
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	148.00	0.10	0.11	852.25	99.00	562.50	66.00				99.00	562.50	66.00	99.00	562.50	66.00
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2,935.00	2.50	2.79	21,927.50	1941.00	14,332.69	65.36	1.00	10.50	0.05	1,958.00	14,372.63	65.55	1,959.00	14,377.38	65.57
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	764.00	0.54	0.60	4,728.63	604.00	3,760.69	79.53				604.00	3,760.69	79.53	606.00	3,814.19	80.66
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	986.00	0.95	1.06	8,325.25	663.00	5,675.31	68.17				681.00	5,681.69	68.25	681.00	5,681.75	68.25
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	4.00	0.00	0.00	22.19												
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	24.00	0.01	0.01	104.00	1.00	0.06	0.06				1.00	0.06	0.06	4.00	48.25	46.39
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	65.00	0.04	0.04	345.06	27.00	180.31	52.26				27.00	180.31	52.26	27.00	180.31	52.26
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1,090.00	1.05	1.17	9,207.38	606.00	4,692.94	50.97	2.00	1.00	0.01	609.00	4,693.25	50.97	610.00	5,016.31	54.48
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3,599.00	33.31	37.14	291,890.81	1953.00	140,759.13	48.22	64.00	246.06	0.08	2,080.00	140,871.69	48.26	2,050.00	147,600.06	50.57
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	777.00	3.07	3.42	26,867.25	540.00	18,049.38	67.18				540.00	18,049.38	67.18	546.00	19,380.44	72.13
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1,400.00	3.24	3.61	28,386.88	710.00	15,110.31	53.23				779.00	15,173.13	53.45	779.00	15,173.13	53.45
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	15.00	0.04	0.04	340.69										3.00	249.44	73.22
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	41.00	0.09	0.10	790.56	5.00	41.88	5.30				5.00	41.88	5.30	9.00	321.06	40.61

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on organic deposits (peat, muck and marl)	156.00	0.31	0.35	2,733.75	63.00	727.75	26.62				63.00	727.75	26.62	65.00	1,299.13	47.52
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1,561.00	9.07	10.12	79,521.44	835.00	41,403.44	52.07				845.00	41,407.31	52.07	838.00	42,674.50	53.66
WETLANDS																
Conifer Swamp	4.00	0.00	0.00	2.31												
Deciduous Swamp	21.00	0.00	0.00	10.69												
Open Bog	120.00	0.07	0.07	587.63	61.00	401.81	68.38				61.00	401.81	68.38	61.00	401.81	68.38
Open Fen	78.00	0.09	0.10	793.31	74.00	689.75	86.95				74.00	689.75	86.95	74.00	689.75	86.95
Treed Bog	6,013.00	1.13	1.26	9,917.94	3521.00	6,657.00	67.12	11.00	3.94	0.04	3,589.00	6,756.94	68.13	3,591.00	6,757.94	68.14
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	45.00	0.02	0.02	159.06	15.00	56.88	35.76				15.00	56.88	35.76	15.00	56.88	35.76
White Birch on unknown bedrock	41.00	0.03	0.03	253.81	22.00	123.50	48.66				22.00	123.50	48.66	22.00	123.50	48.66
Yellow Birch on unknown bedrock	41.00	0.01	0.02	119.50	41.00	119.50	100.00				41.00	119.50	100.00	41.00	119.50	100.00
Coniferous Forest on unknown bedrock	274.00	0.01	0.02	122.63	171.00	52.94	43.17				191.00	60.38	49.24	191.00	60.38	49.24
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	9,513.00	0.17	0.19	1,499.63	5599.00	669.81	44.67	20.00	4.31	0.29	5,630.00	673.63	44.92	5,630.00	673.63	44.92
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2,108.00	0.03	0.03	233.50	1616.00	174.13	74.57				1,616.00	174.13	74.57	1,616.00	174.13	74.57
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3,466.00	0.06	0.07	534.19	2066.00	230.38	43.13				2,099.00	235.63	44.11	2,099.00	235.63	44.11
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	18.00	0.00	0.00	12.88												
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	65.00	0.00	0.00	11.50												
Coniferous Forest on organic deposits (peat, muck and marl)	182.00	0.00	0.00	23.38	96.00	11.00	47.06				96.00	11.00	47.06	96.00	11.00	47.06
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2,833.00	0.05	0.05	395.63	1352.00	156.25	39.49	15.00	2.69	0.68	1,353.00	156.31	39.51	1,353.00	156.31	39.51
Deciduous Forest on unknown bedrock	475.00	0.03	0.04	287.94	136.00	17.31	6.01				165.00	25.88	8.99	165.00	25.88	8.99
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	18,940.00	0.43	0.48	3,743.44	5491.00	685.56	18.31	33.00	13.63	0.36	5,556.00	698.06	18.65	5,558.00	700.31	18.71
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1,330.00	0.02	0.02	155.44	576.00	57.13	36.75				576.00	57.13	36.75	576.00	57.13	36.75
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1,562.00	0.04	0.05	384.13	384.00	50.25	13.08				416.00	57.31	14.92	416.00	57.31	14.92
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	19.00	0.00	0.00	5.88												

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	23.00	0.00	0.00	2.94	1.00	0.06	2.13				1.00	0.06	2.13	1.00	0.06	2.13
Deciduous Forest on organic deposits (peat, muck and marl)	114.00	0.00	0.00	11.88	19.00	1.19	10.00				19.00	1.19	10.00	19.00	1.19	10.00
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4,265.00	0.09	0.11	827.06	1090.00	157.44	19.04	2.00	0.13	0.02	1,096.00	160.06	19.35	1,096.00	160.06	19.35
Upland hardwood and mixed conifer on unknown bedrock	177.00	0.10	0.12	908.94	79.00	437.56	48.14				96.00	446.06	49.08	96.00	446.06	49.08
Hemlock on unknown bedrock	164.00	0.08	0.09	738.56	127.00	628.81	85.14				127.00	628.81	85.14	127.00	628.81	85.14
Intolerant hardwoods on unknown bedrock	35.00	0.02	0.02	185.38	9.00	50.88	27.44				9.00	50.88	27.44	9.00	50.88	27.44
Midtolerant Hardwoods on unknown bedrock	9.00	0.01	0.01	46.00	3.00	22.88	49.73				3.00	22.88	49.73	3.00	22.88	49.73
Mixed Forest on unknown bedrock	1,506.00	0.07	0.08	606.94	806.00	130.31	21.47				853.00	145.63	23.99	853.00	145.63	23.99
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	47,868.00	0.95	1.06	8,312.94	21265.00	2,787.63	33.53	335.00	99.06	1.19	21,387.00	2,809.31	33.79	21,387.00	2,809.31	33.79
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	4,629.00	0.06	0.07	558.75	2911.00	351.25	62.86				2,911.00	351.25	62.86	2,911.00	351.25	62.86
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	7,399.00	0.17	0.19	1,524.94	3238.00	481.06	31.55	2.00	0.13	0.01	3,318.00	496.44	32.55	3,318.00	496.44	32.55
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	28.00	0.00	0.00	21.06												
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	185.00	0.00	0.00	24.75	6.00	0.44	1.77				6.00	0.44	1.77	6.00	0.44	1.77
Mixed forest on organic deposits (peat, muck and marl)	543.00	0.01	0.01	70.69	170.00	19.56	27.67				170.00	19.56	27.67	170.00	19.56	27.67
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	10,682.00	0.20	0.22	1,724.19	4726.00	594.63	34.49	35.00	15.88	0.92	4,734.00	597.81	34.67	4,734.00	597.81	34.67
Mixed Lowland Conifer on unknown bedrock	7.00	0.00	0.00	22.44	6.00	22.13	98.61				7.00	22.44	100.00	7.00	22.44	100.00
Oak and Oak/Pine on unknown bedrock	13.00	0.01	0.01	57.81	2.00	10.75	18.59				2.00	10.75	18.59	2.00	10.75	18.59
Mixed Red and White Pine on unknown bedrock	48.00	0.02	0.02	196.00	25.00	109.44	55.84				26.00	117.88	60.14	26.00	117.88	60.14
Lowland Black Spruce on unknown bedrock	2.00	0.00	0.00	3.75	2.00	3.75	100.00				2.00	3.75	100.00	2.00	3.75	100.00
Mixed Spruce and Pine on unknown bedrock	92.00	0.04	0.04	325.38	61.00	214.13	65.81				67.00	214.63	65.96	67.00	214.63	65.96
Tolerant hardwoods on unknown bedrock	492.00	0.28	0.31	2,463.88	232.00	1,406.00	57.06				264.00	1,428.75	57.99	264.00	1,428.75	57.99
Non-Target Natural Ecological Systems																
WETLANDS																
Open Muskeg	21,427.00	2.50	2.78	21,873.56	13448.00	13,123.75	60.00	64.00	25.31	0.12	13,594.00	13,272.50	60.68	13,594.00	13,272.50	60.68
Treed Muskeg	2,479.00	0.54	0.60	4,717.75	1342.00	2,625.50	55.65				1,383.00	2,678.81	56.78	1,383.00	2,678.81	56.78

Ecological System	# of Patches in 5E-9	% of Total Area (ha) in 5E-9	% of Total Natural Cover in 5E-9	Total Area (ha) in 5E-9	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
OTHER LANDCOVER																
Barren & Scattered	3,126.00	0.14		1,247.75	618.00	160.56	12.87				622.00	160.94	12.90	622.00	160.94	12.90
Brush and Alder	6,266.00	1.82	2.03	15,926.31	3834.00	10,716.63	67.29	16.00	14.44	0.09	3,858.00	10,759.94	67.56	3,858.00	10,759.94	67.56
Grass & Meadow	929.00	0.35		3,106.56	28.00	7.31	0.24				38.00	13.06	0.42	39.00	49.44	1.59
Rock	390.00	0.09	0.10	763.00	136.00	325.19	42.62	1.00	2.31	0.30	136.00	325.19	42.62	136.00	325.19	42.62
Water	12,913.00	10.20	11.37	89,388.06	6221.00	50,092.25	56.04	109.00	159.00	0.18	6,366.00	51,110.69	57.18	6,369.00	51,243.25	57.33
Anthropogenic Land Types																
Developed Agricultural Land	172.00	0.20		1,745.75												
Settlement and Developed Land	694.00	0.07		611.81	89.00	9.69	1.58				89.00	9.69	1.58	89.00	9.69	1.58

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Brent

Ecodistrict 5E-10

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 796,300 hectares (1,967,700 acres)

Land Ownership: 20% private, 80% Crown, 0.1% First Nations lands

Planning Authority: 54% Nipissing District, 45% Renfrew County, 1% Hastings County

Physiography:

This ecodistrict is warmer and drier than 5E-9 due to a rain-shadow effect from the adjacent Algonquin Dome. The elevation drops considerably towards the Ottawa River valley and the topography is more flat with some extensive sandy outwash plains. Large components of intermixed till and glaciofluvial deposits dominate the lower two-thirds of 5E-10. Underlying bedrock and rock outcrops still prevail, particularly in the northern portion. Valley depressions exhibit deeper sand deposits. Calcareous substrates are rare, and are generally confined to seepage areas in cliff faces in rifts. Small glaciomarine deposits are represented along the ecodistrict's southern sections of the Ottawa River.

Natural Cover:

The majority of the ecodistrict remains as natural cover, primarily forest. Upland hardwoods and mixed conifers cover nearly one-quarter of the ecodistrict. Mixed Red Pine and White Pine forests cover 18% of the ecodistrict, and tolerant hardwood complexes cover an additional 12%. Another 5% of the remaining cover is wetland, largely open muskeg.

Land Use:

Over 15,000 hectares of Ecodistrict 5E-10 have been converted to developed agricultural lands and over 4,000 hectares are devoted to settlement and other associated developed lands, including the communities of Pembroke and Petawawa.



Protection and Conservation:

Conservation lands make up approximately 42% of Ecodistrict 5E-10 (335,080 ha). The eastern side of Algonquin Provincial Park represents the majority of this area. There are 6,643 hectares of provincially significant life science ANSIs, of which 293 hectares coincide with provincial parks and 280 hectares coincide with conservation reserves. Another 3,302 hectares have been identified as provincially significant wetlands. Eighty-three percent of all occurrences of species and vegetation community targets in 5E-10 are within identified conservation lands, primarily within Algonquin Provincial Park.

Species and Vegetation Community Targets:

Three-quarters of the 40 targeted species occurring in 5E-10 are plants. Three species have been designated as species at risk, including the federally and provincially Endangered American Ginseng (*Panax quinquefolius*), the provincially Endangered Wood Turtle (*Glyptemys insculpta*), and the Red-shouldered Hawk (*Buteo lineatus*) designated as a species of Special Concern. There are no documented rare vegetation communities in this ecodistrict.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-10 includes approximately 46% of all natural cover, and all of the occurrences of species targets.

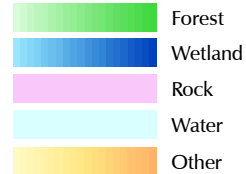
Great Lakes Conservation Blueprint for Biodiversity

BRENT ECODISTRICT 5E-10

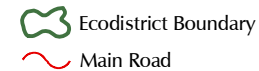
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Ecological Systems



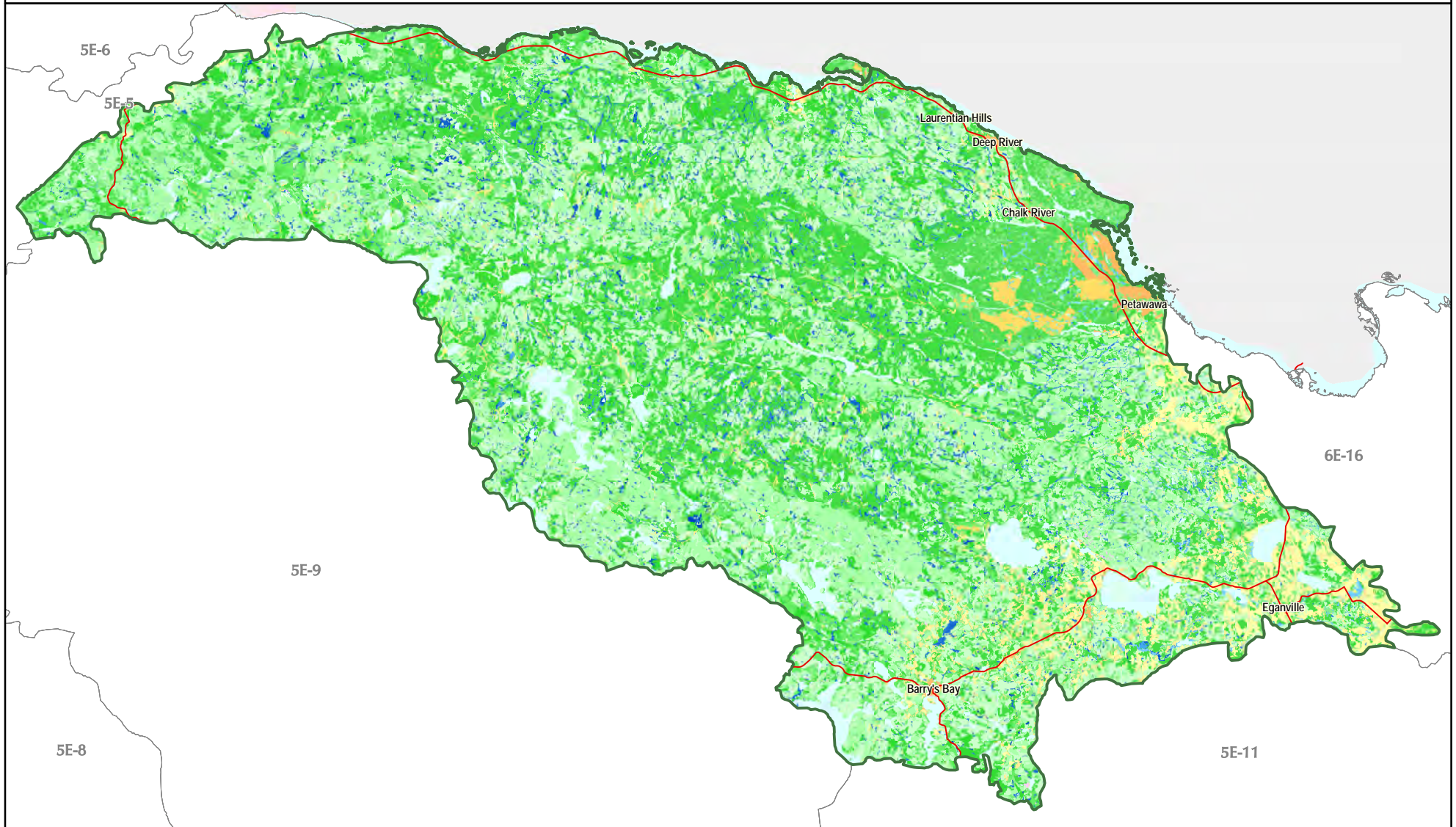
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

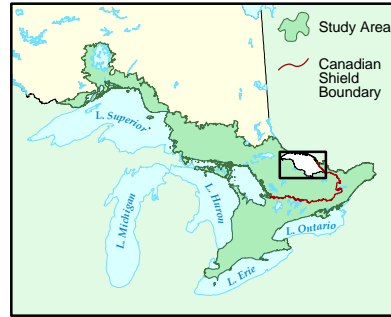
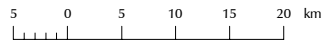
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BRENT ECODISTRICT 5E-10



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

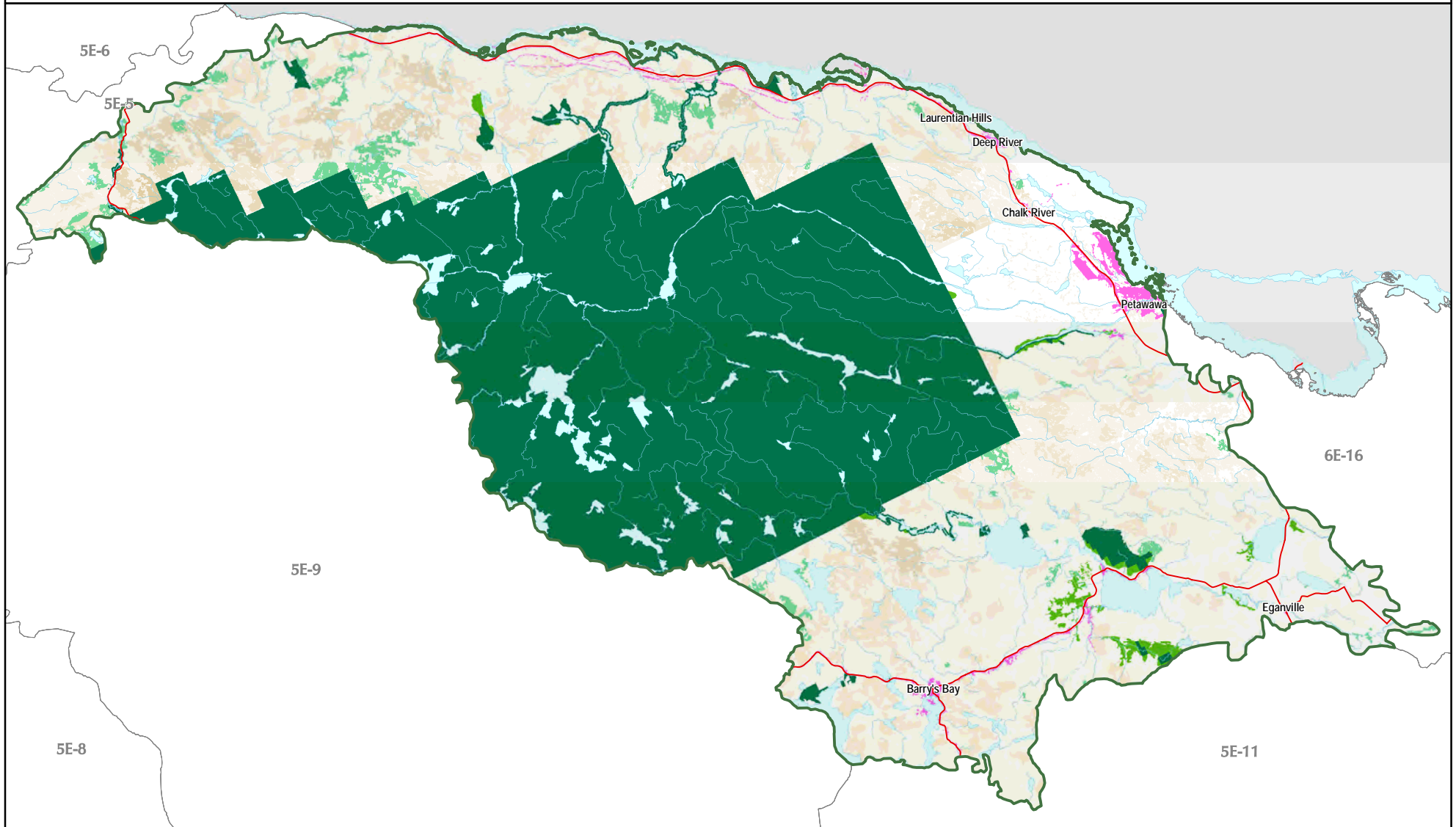
- Natural Heritage Values



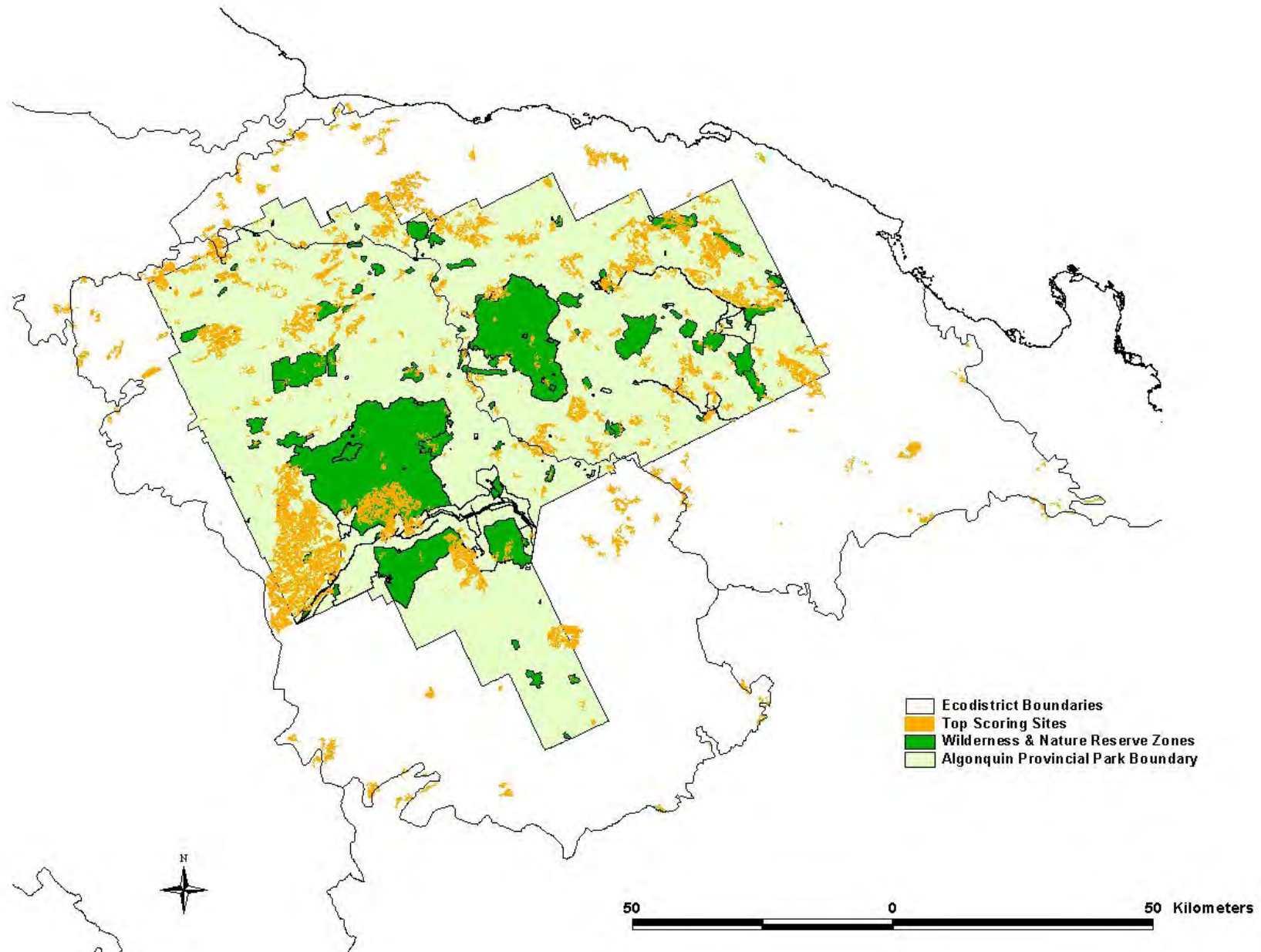
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Top Scoring Ecological Systems:



Documented extant vegetation community and species targets in Ecodistrict 5E-10

Number of pops in 5E-10	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	100	0	0	100	1	100	3
1	<i>Astragalus alpinus</i>	Alpine Milkvetch	G5	S5			disjunct	0	100	0	0	100	1	100	3
1	<i>Calamagrostis purpurascens</i>	Purple Reed Grass	G5?	S1			disjunct	0	100	0	0	100	1	100	3
2	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3G4	S3			GRank	0	100	0	0	100	2	100	4
2	<i>Draba glabella</i>	Rock Whitlow-grass	G4G5	S4S5			disjunct	0	100	0	0	100	2	100	3
1	<i>Juncus subtilis</i>	Creeping Rush	G3	S3			GRank	0	100	0	0	100	1	100	2
1	<i>Listera auriculata</i>	Auricled Twayblade	G3G4	S3			GRank	0	0	0	0	0	1	100	2
2	<i>Nymphoides cordata</i>	Floating-heart	G5	S4?			disjunct	0	100	0	0	100	2	100	3
1	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	0	0	0	0	1	100	2
1	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	100	0	0	100	1	100	2
5	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	100	0	0	100	5	100	3
1	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	100	0	0	100	1	100	3
Birds															
1	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	0	0	0	0	1	100	secondary
Reptiles															
13	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	77	0	0	77	13	100	secondary
Odonata															
3	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3G4	S2			GRank	0	67	0	0	67	3	100	4
3	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	100	0	0	100	3	100	2

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-10

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target forests	39383	75.48	79.76	601042.63	15683	275323.69	45.81	688	4933.81	0.82	16337	278439.00	46.33	16389	290520.31	48.34
Target wetlands	7698	1.39	1.47	11079.19	2041	3008.81	27.16	225	457.63	4.13	2422	3536.50	31.92	2427	3543.75	31.99
All ecological systems	196272	100.00	100.00	795879.03	74268	330427.56	41.52	2818	6643.31	0.83	76761	335080.19	42.10	76793	347166.56	43.62

Ecological systems details for Ecodistrict 5E-10

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	14	0.01	0.01	74.63										4	56.19	75.29
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1971	3.34	3.53	26,619.13	498	6,917.88	25.99	22	182.25	0.68	512	6,970.94	26.19	518	8,156.00	30.64
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	15	0.01	0.01	68.25										3	25.63	37.55
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	347	0.46	0.48	3,624.00	152	1,342.44	37.04	4	20.13	0.56	152	1,342.63	37.05	154	1,347.00	37.17
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	781	0.98	1.03	7,770.44	304	4,002.63	51.51	2	5.25	0.07	310	4,019.44	51.73	310	4,019.44	51.73
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	37	0.02	0.02	182.25	2	4.94	2.71	1	5.06	2.78	15	41.63	22.84	17	71.88	39.44
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	38	0.04	0.04	300.13										4	90.94	30.30
Aspen on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	58	0.02	0.02	188.31										3	64.88	34.45
Aspen on organic deposits (peat, muck and marl)	77	0.08	0.08	602.00	10	93.63	15.55				10	93.63	15.55	10	93.63	15.55
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	741	1.21	1.28	9,660.75	332	5,073.31	52.51	2	0.69	0.01	336	5,079.00	52.57	337	5,321.81	55.09
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	335	0.51	0.54	4,080.25	132	1,893.00	46.39	1	10.75	0.26	132	1,894.31	46.43	134	2,219.13	54.39
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	35	0.03	0.03	222.38	9	84.88	38.17				9	84.88	38.17	10	87.81	39.49
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	105	0.16	0.17	1,286.00	78	1,097.88	85.37				78	1,097.88	85.37	78	1,097.88	85.37
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1	0.00	0.00	0.19				1	0.19	100.00	1	0.19	100.00	1	0.19	100.00
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2	0.00	0.00	1.69										2	1.69	100.00
White Birch on organic deposits (peat, muck and marl)	22	0.01	0.01	109.50	5	29.56	27.00				5	29.56	27.00	7	53.44	48.80
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	144	0.23	0.25	1,858.13	85	1,272.13	68.46				85	1,272.13	68.46	87	1,294.06	69.64

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	115	0.15	0.16	1,173.56	103	1,015.06	86.49				103	1,015.06	86.49	103	1,015.06	86.49
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	7	0.00	0.01	39.81	7	39.81	100.00				7	39.81	100.00	7	39.81	100.00
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	31	0.03	0.03	247.63	31	247.63	100.00				31	247.63	100.00	31	247.63	100.00
Yellow Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1	0.00	0.00	5.06							1	3.69	72.84	1	3.69	72.84
Yellow Birch on organic deposits (peat, muck and marl)	3	0.00	0.00	13.69	3	13.69	100.00				3	13.69	100.00	3	13.69	100.00
Yellow Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	129	0.18	0.19	1,408.44	122	1,259.63	89.43				122	1,259.63	89.43	122	1,259.63	89.43
Upland hardwood and mixed conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	12	0.01	0.01	72.63										4	32.63	44.92
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4029	11.48	12.13	91,397.56	1515	30,423.31	33.29	118	747.44	0.82	1607	30,698.06	33.59	1608	31,560.06	34.53
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	17	0.01	0.02	116.69	3	31.38	26.89	2	30.06	25.76	3	31.38	26.89	4	50.13	42.96
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	840	1.10	1.17	8,787.44	277	2,816.44	32.05	50	122.19	1.39	315	2,896.75	32.96	315	2,896.75	32.96
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2019	3.29	3.48	26,191.44	839	12,577.13	48.02	15	120.44	0.46	867	12,648.13	48.29	868	12,742.19	48.65
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	134	0.11	0.12	896.75	7	5.50	0.61	19	80.06	8.93	83	172.50	19.24	84	229.69	25.61
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	50	0.05	0.06	427.88										3	297.81	69.60
Upland hardwood and mixed conifer on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	88	0.06	0.06	484.44										3	96.38	19.89
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	193	0.26	0.27	2,044.00	71	703.75	34.43				71	703.75	34.43	72	874.44	42.78
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2433	5.06	5.35	40,289.50	988	20,136.06	49.98	50	88.94	0.22	1039	20,221.81	50.19	1040	20,231.44	50.22
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	213	0.31	0.33	2,484.31	155	1,856.63	74.73				155	1,856.63	74.73	155	1,856.63	74.73
Hemlock on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	29	0.02	0.03	190.19	29	184.44	96.98	4	0.25	0.13	29	184.69	97.11	29	184.69	97.11
Hemlock on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	49	0.05	0.06	431.25	46	402.13	93.25				46	402.13	93.25	46	402.13	93.25
Hemlock on organic deposits (peat, muck and marl)	8	0.01	0.01	98.88	8	98.88	100.00				8	98.88	100.00	8	98.88	100.00
Hemlock on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	218	0.42	0.44	3,348.75	149	2,410.63	71.99				149	2,410.63	71.99	149	2,410.63	71.99
Intolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	6	0.00	0.00	24.25												

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1324	2.67	2.82	21,262.25	549	8,236.44	38.74	11	98.00	0.46	544	8,239.69	38.75	520	8,617.06	40.53
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	5	0.00	0.00	10.94												
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	224	0.23	0.25	1,863.13	102	720.19	38.65	4	9.50	0.51	111	730.13	39.19	113	797.00	42.78
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	567	0.71	0.75	5,646.63	323	3,405.00	60.30				324	3,405.06	60.30	326	3,462.50	61.32
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	5	0.01	0.01	53.25							7	7.00	13.15	3	52.94	99.41
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	15	0.01	0.01	106.00										3	36.75	34.67
Intolerant hardwoods on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	6	0.00	0.00	17.31												
Intolerant hardwoods on organic deposits (peat, muck and marl)	53	0.07	0.07	528.13	15	195.50	37.02				15	195.50	37.02	16	269.50	51.03
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	559	0.87	0.92	6,951.56	330	4,725.88	67.98	2	3.19	0.05	329	4,725.94	67.98	328	4,994.38	71.85
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	119	0.21	0.22	1,665.88	31	602.50	36.17	2	21.25	1.28	32	604.81	36.31	30	606.00	36.38
Midtolerant Hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	5	0.01	0.01	70.19	3	9.75	13.89				3	9.75	13.89	4	50.63	72.13
Midtolerant Hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	38	0.04	0.04	313.94	9	98.56	31.40				9	98.56	31.40	9	98.56	31.40
Midtolerant Hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	50	0.05	0.06	434.94	10	105.38	24.23				10	105.38	24.23	11	165.75	38.11
Mixed Lowland Conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	7	0.01	0.01	57.44										3	40.13	69.86
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	923	0.78	0.82	6,211.31	237	1,400.13	22.54	28	156.06	2.51	258	1,566.06	25.21	259	1,566.13	25.21
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	198	0.13	0.14	1,040.94	29	164.69	15.82	20	100.06	9.61	49	244.31	23.47	50	271.25	26.06
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	426	0.34	0.36	2,746.44	231	1,548.56	56.38				235	1,573.44	57.29	236	1,606.88	58.51
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	66	0.09	0.09	710.38	7	92.75	13.06	15	227.75	32.06	43	457.63	64.42	44	527.81	74.30
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6	0.00	0.00	13.19												
Mixed Lowland Conifer on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	21	0.01	0.01	60.56										3	24.13	39.83
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	49	0.05	0.05	364.63	18	186.38	51.11				18	186.38	51.11	18	186.38	51.11
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	568	0.43	0.46	3,452.69	262	1,524.56	44.16	7	113.31	3.28	274	1,655.63	47.95	274	1,655.63	47.95

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Oak and Oak/Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	2	0.00	0.00	3.63												
Oak and Oak/Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1171	3.76	3.97	29,947.31	408	12,032.44	40.18	33	1,208.06	4.03	387	12,294.31	41.05	384	12,907.38	43.10
Oak and Oak/Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	101	0.13	0.13	1,008.00	25	390.38	38.73				25	390.38	38.73	26	468.94	46.52
Oak and Oak/Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	314	0.43	0.46	3,437.19	139	1,470.88	42.79	18	141.13	4.11	132	1,507.63	43.86	132	1,507.75	43.87
Oak and Oak/Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	3	0.00	0.00	13.00												
Oak and Oak/Pine on organic deposits (peat, muck and marl)	20	0.02	0.02	122.44	11	47.63	38.90				11	47.63	38.90	12	92.00	75.14
Oak and Oak/Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	504	0.82	0.87	6,535.25	158	2,586.31	39.57	5	30.75	0.47	158	2,603.25	39.83	160	2,822.13	43.18
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	123	0.14	0.15	1,111.56	54	347.00	31.22	8	30.19	2.72	54	358.13	32.22	54	358.13	32.22
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	3.44	1	3.31	96.36	1	3.44	100.00	1	3.44	100.00	1	3.44	100.00
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	77	0.06	0.06	439.94	23	102.88	23.38	10	66.81	15.19	23	102.88	23.38	24	194.56	44.23
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	123	0.19	0.20	1,491.88	47	1,033.69	69.29	1	1.81	0.12	47	1,033.81	69.30	47	1,033.81	69.30
Jack Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	1	0.00	0.00	5.31												
Jack Pine on organic deposits (peat, muck and marl)	7	0.00	0.00	29.13	3	24.38	83.69				3	24.38	83.69	3	24.38	83.69
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	29	0.02	0.02	167.25	14	112.19	67.08				14	112.19	67.08	14	112.19	67.08
Mixed Red and White Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	27	0.04	0.04	284.00						0.00				3	137.38	48.37
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3051	8.49	8.97	67,607.13	1155	29,525.88	43.67	43	302.50	0.45	1172	29,653.94	43.86	1176	30,036.25	44.43
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	6	0.00	0.00	32.19										1	5.44	16.89
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	656	0.90	0.95	7,179.50	257	3,142.94	43.78	45	442.94	6.17	262	3,395.19	47.29	263	3,395.69	47.30
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1565	3.61	3.82	28,777.38	810	21,493.06	74.69	7	33.63	0.12	824	21,498.75	74.71	825	21,506.38	74.73
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	54	0.04	0.05	353.50				7	13.81	3.91	27	21.19	5.99	30	74.56	21.09
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	23	0.00	0.01	39.31												
Mixed Red and White Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	47	0.04	0.04	284.56										3	95.38	33.52
Mixed Red and White Pine on organic deposits (peat, muck and marl)	187	0.20	0.21	1,589.81	73	622.19	39.14				73	622.19	39.14	73	622.19	39.14

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1604	3.60	3.80	28,658.44	891	19,846.25	69.25	12	45.81	0.16	902	19,870.56	69.34	902	19,870.56	69.34
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	222	0.21	0.22	1,652.88	114	617.88	37.38	1	3.56	0.22	116	623.88	37.74	117	798.31	48.30
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	40	0.02	0.02	166.94	21	64.50	38.64	1	7.19	4.31	22	71.69	42.94	22	71.69	42.94
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	110	0.11	0.12	897.38	92	750.63	83.65				92	750.63	83.65	92	750.63	83.65
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.00	0.00	24.25				1	2.19	9.02	1	2.19	9.02	1	2.19	9.02
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1	0.00	0.00	0.63												
Lowland Black Spruce on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	1	0.00	0.00	4.81												
Lowland Black Spruce on organic deposits (peat, muck and marl)	26	0.02	0.02	180.38	19	143.06	79.31				19	143.06	79.31	19	143.06	79.31
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	133	0.07	0.07	526.88	113	439.63	83.44				113	439.63	83.44	113	439.63	83.44
Mixed Spruce and Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	12	0.01	0.01	77.63										3	20.56	26.49
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2023	2.38	2.51	18,913.75	523	4,460.25	23.58	36	59.81	0.32	552	4,488.31	23.73	553	5,385.31	28.47
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	25	0.00	0.00	8.69	14	7.81	89.93	11	7.50	86.33	14	7.81	89.93	14	7.81	89.93
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	324	0.30	0.32	2,388.13	74	538.44	22.55	14	67.81	2.84	79	567.56	23.77	79	567.56	23.77
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	800	1.00	1.05	7,935.00	375	5,175.69	65.23	1	8.00	0.10	381	5,194.25	65.46	380	5,194.19	65.46
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	102	0.06	0.06	485.81	6	6.38	1.31	10	40.38	8.31	58	98.75	20.33	54	127.13	26.17
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	23	0.02	0.02	161.50										4	33.56	20.78
Mixed Spruce and Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	48	0.03	0.03	225.38										4	53.88	23.90
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	92	0.06	0.07	495.50	27	146.31	29.53				27	146.31	29.53	27	146.31	29.53
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1076	1.01	1.07	8,065.06	359	3,053.94	37.87	4	27.38	0.34	372	3,088.13	38.29	375	3,539.88	43.89
Tolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	4	0.00	0.00	2.06												
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2029	6.37	6.74	50,760.13	780	22,280.13	43.89	16	91.50	0.18	797	22,397.38	44.12	775	25,224.56	49.69
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	16	0.02	0.03	192.56	1	4.81	2.50	1	4.81	2.50	1	4.81	2.50	6	172.00	89.32

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	220	0.25	0.27	2,015.38	69	726.50	36.05	5	24.69	1.22	73	789.13	39.16	69	964.75	47.87
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	549	0.63	0.67	5,046.00	337	2,919.63	57.86	1	0.13	0.00	343	2,968.19	58.82	344	3,145.75	62.34
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	52	0.05	0.06	437.31	8	46.38	10.60	7	77.75	17.78	36	306.81	70.16	36	306.81	70.16
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	52	0.04	0.04	335.06										4	94.06	28.07
Tolerant hardwoods on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	13	0.00	0.00	24.69										1	7.31	29.62
Tolerant hardwoods on organic deposits (peat, muck and marl)	109	0.17	0.18	1,326.31	34	481.69	36.32				34	481.69	36.32	34	481.69	36.32
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1002	3.66	3.87	29,167.63	532	21,628.13	74.15	9	47.44	0.16	547	21,692.75	74.37	546	21,998.31	75.42
WETLANDS																
Conifer Swamp	496	0.08	0.08	617.38	18	8.44	1.37	39	18.00	2.92	71	27.19	4.40	73	29.06	4.71
Deciduous Swamp	1138	0.13	0.14	1,039.63	12	8.94	0.86	17	48.06	4.62	123	145.75	14.02	124	148.00	14.24
Marsh	1697	0.37	0.39	2,946.69	30	45.88	1.56	44	167.00	5.67	136	269.69	9.15	136	269.69	9.15
Mixed Swamp	214	0.04	0.04	279.38	1	0.50	0.18	10	7.19	2.57	20	8.13	2.91	22	10.19	3.65
Open Bog	145	0.05	0.05	372.06	38	161.06	43.29	9	65.00	17.47	45	206.06	55.38	45	206.06	55.38
Open Fen	137	0.02	0.02	149.88	6	43.63	29.11				18	47.56	31.73	18	47.56	31.73
Treed Bog	3826	0.70	0.74	5,603.25	1924	2,711.63	48.39	63	83.75	1.49	1966	2,763.06	49.31	1966	2,764.13	49.33
Treed Fen	45	0.01	0.01	70.94	12	28.75	40.53	43	68.63	96.74	43	69.06	97.36	43	69.06	97.36
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	27	0.01	0.01	84.06	16	67.63	80.45				16	67.63	80.45	16	67.63	80.45
White Birch on unknown bedrock	26	0.01	0.01	78.31	8	58.38	74.54				8	58.38	74.54	8	58.38	74.54
Yellow Birch on unknown bedrock	2	0.00	0.00	5.06	2	5.06	100.00				2	5.06	100.00	2	5.06	100.00
Coniferous Forest on unknown bedrock	129	0.04	0.05	352.19	35	15.44	4.38				38	15.81	4.49	38	15.81	4.49
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	20	0.00	0.00	4.75												
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8672	0.38	0.40	3,045.56	3452	802.56	26.35	76	19.00	0.62	3494	819.75	26.92	3494	819.69	26.91
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	137	0.03	0.03	231.44												
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1178	0.04	0.05	355.38	339	71.31	20.07	45	10.50	2.95	362	73.94	20.81	362	73.94	20.81
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	4513	0.41	0.43	3,265.81	2470	537.38	16.45	13	53.56	1.64	2489	592.94	18.16	2489	592.94	18.16

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	193	0.01	0.01	63.69				6	0.56	0.88	55	5.13	8.05	55	5.13	8.05
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6	0.00	0.00	0.56												
Coniferous Forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	69	0.00	0.00	8.25												
Coniferous Forest on organic deposits (peat, muck and marl)	316	0.02	0.02	155.69	184	35.00	22.48				184	35.00	22.48	184	35.00	22.48
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2831	0.17	0.18	1,345.00	1470	275.69	20.50	9	2.38	0.18	1481	278.19	20.68	1481	278.19	20.68
Deciduous Forest on unknown bedrock	159	0.02	0.02	147.97	11	1.69	1.14				11	1.69	1.14	11	1.69	1.14
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	58	0.00	0.00	8.13												
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	7154	0.33	0.35	2,659.19	2304	502.13	18.88	166	38.38	1.44	2346	511.31	19.23	2346	511.31	19.23
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	98	0.04	0.04	301.13	2	0.13	0.04	2	0.13	0.04	2	0.13	0.04	2	0.13	0.04
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	605	0.03	0.03	221.31	101	22.00	9.94	5	1.75	0.79	104	23.63	10.67	104	23.63	10.67
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1715	0.15	0.16	1,209.81	297	62.00	5.12	14	5.44	0.45	297	63.19	5.22	297	63.19	5.22
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	112	0.00	0.00	31.19	7	0.56	1.80	8	2.88	9.22	17	3.50	11.22	17	3.50	11.22
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	14	0.00	0.00	6.63												
Deciduous Forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	78	0.00	0.00	15.31												
Deciduous Forest on organic deposits (peat, muck and marl)	171	0.01	0.01	42.63	18	4.44	10.41				18	4.44	10.41	18	4.44	10.41
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2829	0.17	0.18	1,319.75	805	168.31	12.75	2	0.38	0.03	807	168.69	12.78	807	168.69	12.78
Upland hardwood and mixed conifer on unknown bedrock	187	0.09	0.09	713.44	70	329.06	46.12	2	0.88	0.12	73	331.50	46.47	72	331.38	46.45
Hemlock on unknown bedrock	28	0.02	0.03	191.00	22	173.25	90.71				22	173.25	90.71	22	173.25	90.71
Intolerant hardwoods on unknown bedrock	77	0.02	0.02	149.25	43	72.25	48.41				43	72.25	48.41	43	71.88	48.16
Midtolerant Hardwoods on unknown bedrock	4	0.00	0.00	7.56	3	0.56	7.44				3	0.56	7.44	3	0.56	7.44
Mixed Forest on unknown bedrock	655	0.15	0.15	1,165.34	310	63.56	5.45				318	64.19	5.51	315	64.00	5.49
Mixed Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	100	0.00	0.00	18.13												
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	33307	2.22	2.35	17,672.00	12707	3,431.75	19.42	458	183.44	1.04	12862	3,536.00	20.01	12862	3,536.00	20.01
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	122	0.14	0.15	1,100.88	3	0.56	0.05	2	0.13	0.01	3	0.56	0.05	3	0.56	0.05

Ecological System	# of Patches in 5E-10	% of Total Area (ha) in 5E-10	% of Total Natural Cover in 5E-10	Total Area (ha) in 5E-10	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% of System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	4033	0.16	0.17	1,250.88	1309	349.19	27.92	214	56.88	4.55	1368	360.63	28.83	1368	360.63	28.83
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	10966	1.15	1.21	9,128.75	5537	1,538.75	16.86	35	52.50	0.58	5564	1,575.63	17.26	5562	1,575.50	17.26
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	570	0.02	0.02	138.13	2	0.13	0.09	21	2.69	1.95	112	13.88	10.05	112	13.88	10.05
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	5	0.00	0.00	1.31												
Mixed forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	349	0.01	0.01	61.00												
Mixed forest on organic deposits (peat, muck and marl)	726	0.05	0.05	382.44	297	92.38	24.15				297	92.38	24.15	297	92.38	24.15
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	14020	1.05	1.11	8,349.06	6720	1,448.13	17.34	36	67.56	0.81	6759	1,496.56	17.92	6759	1,496.56	17.92
Mixed Lowland Conifer on unknown bedrock	6	0.00	0.00	12.63	3	7.38	58.42				4	9.50	75.25	4	9.50	75.25
Oak and Oak/Pine on unknown bedrock	11	0.00	0.00	19.50	2	9.00	46.15				2	9.00	46.15	2	9.00	46.15
Jack Pine on unknown bedrock	2	0.00	0.00	4.81	2	3.81	79.22				2	3.81	79.22	2	3.81	79.22
Mixed Red and White Pine on unknown bedrock	80	0.05	0.06	434.94	53	278.94	64.13				53	278.94	64.13	52	278.75	64.09
Lowland Black Spruce on unknown bedrock	3	0.00	0.00	2.44	3	2.44	100.00				3	2.44	100.00	3	2.44	100.00
Mixed Spruce and Pine on unknown bedrock	27	0.01	0.01	70.00	6	15.31	21.88	3	0.19	0.27	12	24.00	34.29	12	24.00	34.29
Tolerant hardwoods on unknown bedrock	72	0.04	0.04	306.38	28	118.38	38.64	1	0.69	0.22	39	128.25	41.86	37	128.00	41.78
WETLANDS																
Open Muskeg	22508	3.04	3.21	24,186.56	9549	13,061.81	54.00	344	191.44	0.79	9690	13,152.19	54.38	9690	13,152.19	54.38
Treed Muskeg	2254	0.49	0.52	3,934.75	626	1,614.19	41.02	14	28.63	0.73	639	1,639.75	41.67	639	1,639.75	41.67
OTHER LANDCOVER																
Barren & Scattered	5904	0.79		6,316.30	808	98.69	1.56	56	29.00	0.46	866	129.44	2.05	866	129.44	2.05
Brush and Alder	5120	1.63	1.72	12,956.13	2395	8,060.19	62.21	78	79.88	0.62	2595	8,278.19	63.89	2595	8,278.19	63.89
Grass & Meadow	4775	2.04		16,266.38	44	19.25	0.12	83	43.13	0.27	241	131.63	0.81	241	131.63	0.81
Rock	721	0.10	0.11	829.34	176	219.63	26.48	52	100.94	12.17	167	234.75	28.31	167	234.75	28.31
Unclassified (Cloud & Shadow)	11	0.01		43.49												
Water	8184	5.46	5.77	43,444.13	4254	18,429.50	42.42	103	265.88	0.61	4328	18,577.25	42.76	4312	18,576.38	42.76
Anthropogenic Land Types																
Developed Agricultural Land	2184	1.92		15,300.63	7	8.88	0.06	56	13.06	0.09	145	38.06	0.25	145	38.06	0.25
Settlement and Developed Land	1068	0.55		4,340.91	44	18.44	0.42	1	0.06	0.00	61	21.75	0.50	61	21.75	0.50

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Bancroft

Ecodistrict 5E-11

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 1,631,205 hectares (4,030,795 acres)

Land Ownership: 43% private, 57% Crown

Planning Authority: 22% Hastings County, 17% Frontenac County, 16% Renfrew County, 12% Peterborough County, 11% Lanark County, 10% Lennox and Addington County, 9% Haliburton County, 2% Leeds and Grenville County, 1% Kawartha Lakes

Physiography:

This ecodistrict is predominantly underlain by undifferentiated igneous and metamorphic rock, which exposed at the surface or covered by a discontinuous, thin layer of drift. Moderately rolling areas of shallowly covered rock ridges with sand flats are also present. In general, glaciofluvial and till deposits are scattered throughout, particularly along the northern boundary. Smaller organic deposits are found in the central portion of the ecodistrict.

Natural Cover:

Approximately 93% of the ecodistrict remains as natural cover, primarily forest. Tolerant hardwoods represent approximately 20% of the natural cover. Another 22% is comprised of upland hardwoods and mixed conifers. Over 9% of the natural cover is dominated by oak and oak-pine assemblages, with another 7% represented by mixed red and white pine. Nine percent of the remaining cover is wetland, largely deciduous swamps and open muskeg.

Land Use:

Nearly 50,000 hectares of 5E-11 have been converted to developed agricultural lands, and nearly 2,000 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands make up nearly 8% of Ecodistrict 5E-11 (125,052 ha). Provincially protected areas account for nearly two-thirds of this land



(81,159 ha), including Bon Echo Provincial Park and Kawartha Highlands Signature Site Provincial Park. Over 36,000 hectares are provincially significant life science ANSIs, of which 909 hectares coincide with provincial parks and 5,240 hectares coincide with conservation reserves. Over 16,000 hectares have been designated as provincially significant wetlands. Twenty-one percent of the occurrences of species and vegetation community targets in 5E-11 are within conservation lands, primarily within provincially protected areas.

Species Targets:

Nearly two-thirds of the 33 targeted species occurring in 5E-11 are plants. Nineteen species have been designated as species at risk, including the Endangered American Ginseng (*Panax quinquefolius*) as well as the Five-lined Skink (*Eumeces fasciatus*) which is designated as Special Concern. Over half of the vascular plant targets in 5E-11 occur as disjuncts in the Great Lakes ecoregion.

Vegetation Community Targets:

Two of the three significant vegetation communities in Ecodistrict 5E-11 are globally rare, and all three are provincially rare. These include Dry Tallgrass Prairie and Atlantic Coastal Plain Shallow Marsh.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-11 includes approximately 10% of all remaining natural cover, and over 30% of the occurrences of species and vegetation community targets.

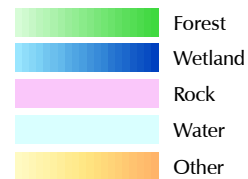
Great Lakes Conservation Blueprint for Biodiversity

BANCROFT ECODISTRICT 5E-11

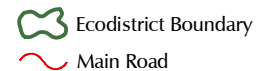
5 0 5 10 15 20 25 km



Ecological Systems



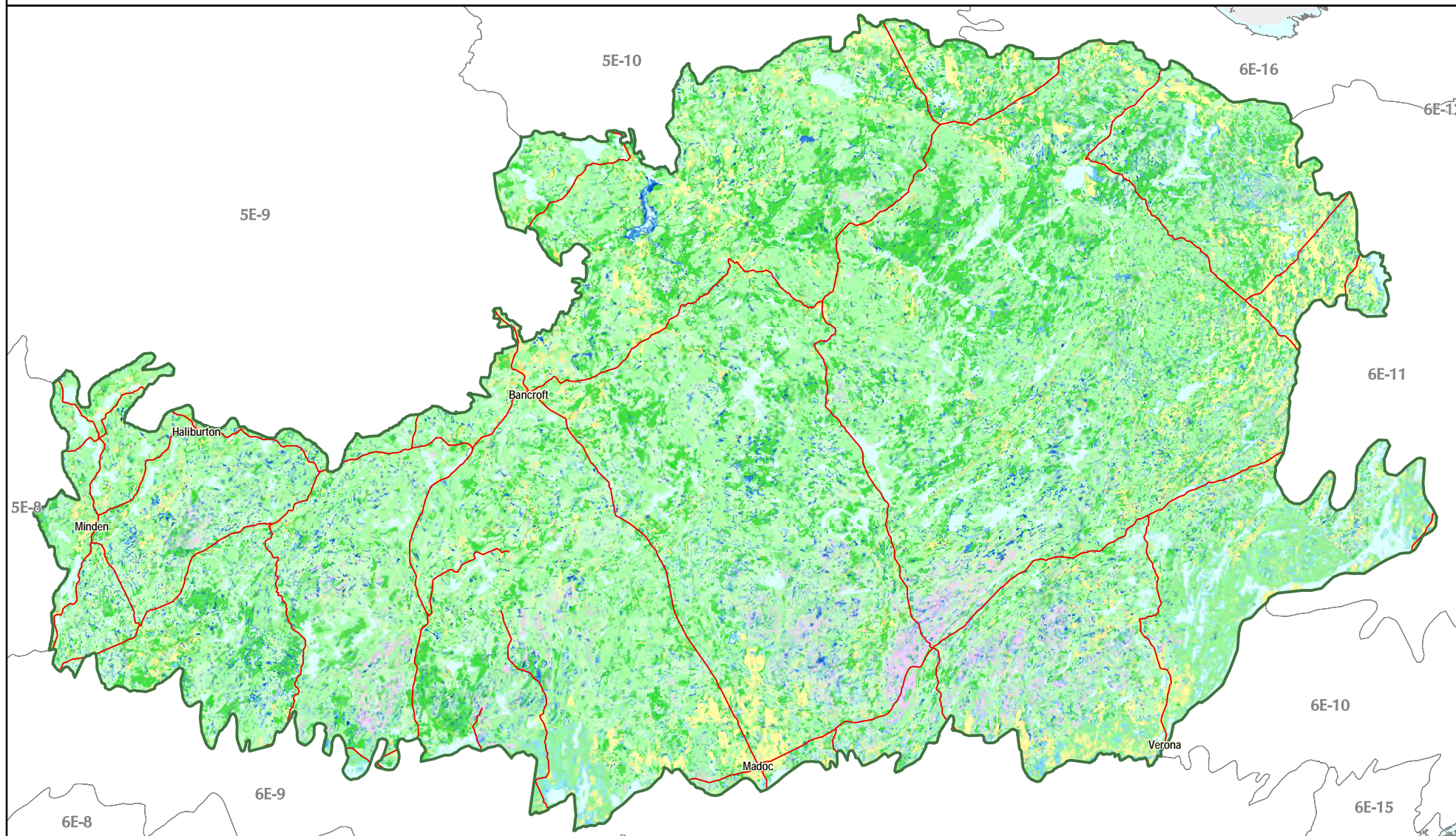
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

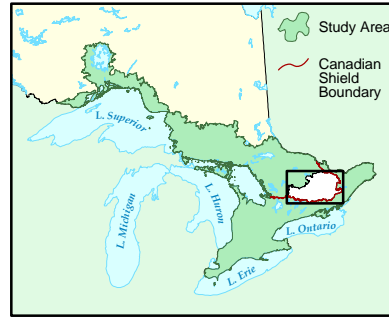
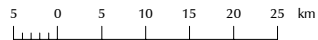
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BANCROFT ECODISTRICT 5E-11



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

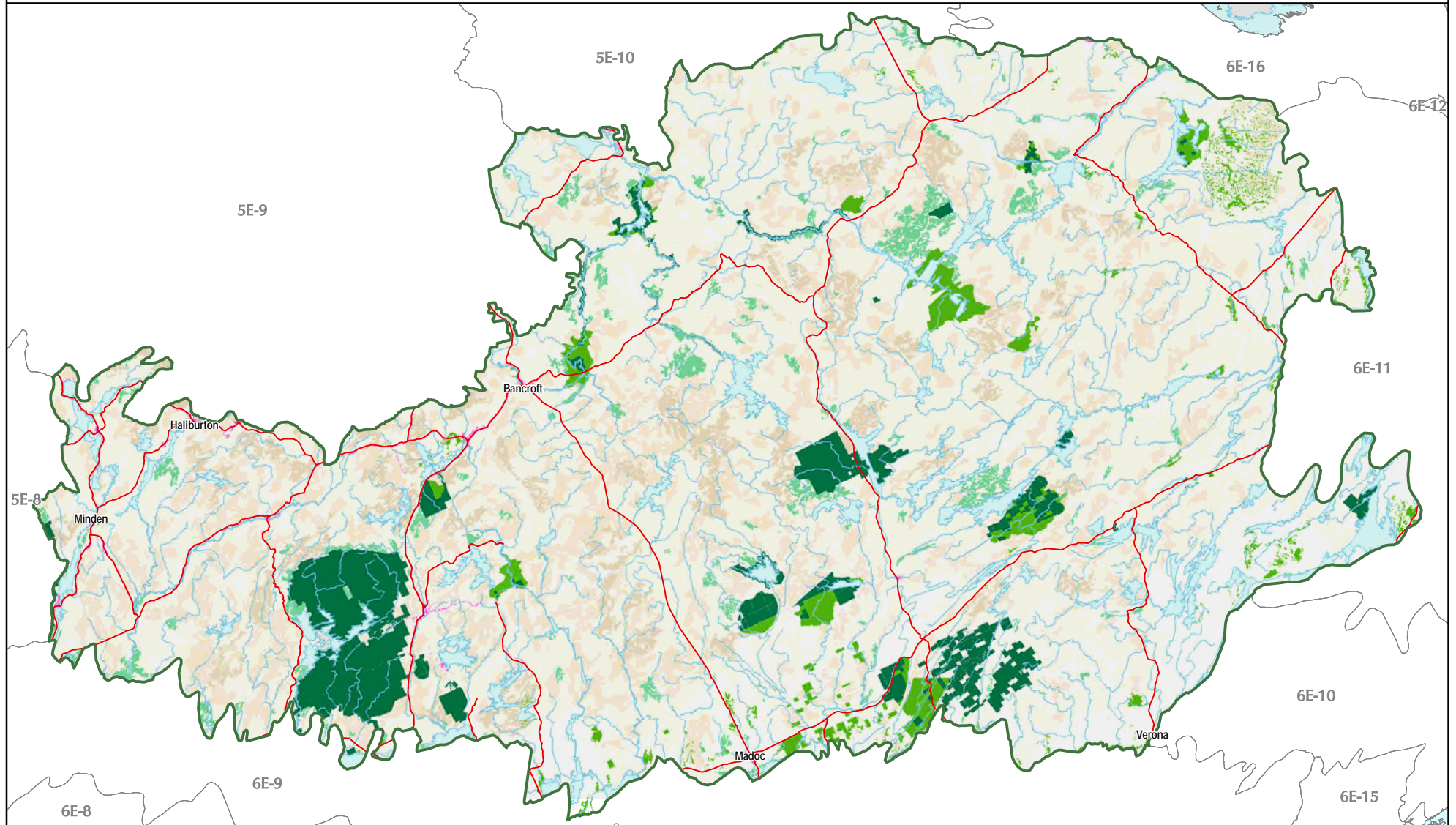
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Documented extant vegetation community and species targets in Ecodistrict 5E-11

Number of pops in 5E-11	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	0	33	0	33	3	100	3
1	<i>Chenopodium foggii</i>	Fogg's Goosefoot	G3Q	S2			GRank	0	0	0	0	0	1	100	4
7	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	14	0	14	4	57	4
1	<i>Isoetes engelmannii</i>	Engelmann's Quillwort	G4	S1	END	END	SAR disjunct	0	0	0	0	0	1	100	3
2	<i>Juglans cinerea</i>	Butternut	G3G4	S3?	END	END	GRank SAR declining	0	0	0	0	0	2	100	2
7	<i>Juncus militaris</i>	Bayonet Rush	G4	S3S4			disjunct	0	71	0	0	71	6	86	3
1	<i>Leucophysalis grandiflora</i>	Large-flowered Ground-cherry	G3?	S3?			GRank	0	0	0	0	0	1	100	4
6	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	17	17	0	17	2	33	2
1	<i>Opuntia fragilis</i>	Little Prickly Pear Cactus	G4G5	S3			disjunct	0	0	100	0	100	1	100	3
21	<i>Panax quinquefolius</i>	American Ginseng	G3G4	S2	END	END	GRank SAR	0	19	5	0	24	5	24	2
1	<i>Poa languida</i>	Drooping Bluegrass	G3G4Q	S3			GRank	0	100	0	0	100	1	100	2
6	<i>Polygonum careyi</i>	Carey's Smartweed	G4	S3S4			disjunct	0	67	17	0	67	4	67	3
5	<i>Quercus ilicifolia</i>	Scrub Oak	G5	S1			disjunct	0	60	0	0	60	3	60	3
2	<i>Rhexia virginica</i>	Virginia Meadow-beauty	G5	S3S4			disjunct	0	100	0	0	100	2	100	3
3	<i>Rotala ramosior</i>	Toothcup	G5	S1	END	END	SAR	0	33	0	0	33	1	33	secondary
2	<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	G4G5	S3			disjunct	0	50	0	0	50	2	100	3
2	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	0	0	0	0	2	100	3
2	<i>Woodsia obtusa</i>	Blunt-lobed Woodsia	G5	S1	END	END-R	SAR	0	0	50	0	50	1	50	secondary
1	<i>Xyris difformis</i>	Carolina Yellow-eyed-grass	G5	S3?			disjunct	0	100	0	0	100	1	100	3
Mosses & Liverworts															
1	<i>Bryum calophyllum</i>	A Moss	G5?	S2			disjunct?	0	0	0	0	0	1	100	3
1	<i>Frullania selwyniana</i>	A Liverwort	G2G3	S1S2			GRank	0	0	0	0	0	1	100	3
Birds															
59	<i>Buteo lineatus</i>	Red-shouldered Hawk	G5	S4B,SZN	SC	SC	SAR	0	2	5	0	7	6	10	secondary
6	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	33	2	33	secondary
3	<i>Dendroica cerulea</i>	Cerulean Warbler	G4	S3B,SZN	SC	SC	SAR	0	33	0	0	33	1	33	secondary
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	33	0	33	1	33	secondary
4	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	secondary
1	<i>Lanius ludovicianus</i>	Loggerhead Shrike	G4	S2B,SZN	END	END-R	SAR	0	0	0	0	0	0	0	secondary
1	<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
1	<i>Seiurus motacilla</i>	Louisiana Waterthrush	G5	S3B,SZN	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
3	<i>Clemmys guttata</i>	Spotted Turtle	G5	S3	END	SC	SAR	0	0	0	0	0	0	0	secondary
3	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	0	0	0	0	0	0	secondary
8	<i>Elaphe obsoleta</i>	Eastern Ratsnake	G5	S3	THR	THR	SAR	0	13	13	0	25	2	25	secondary
48	<i>Eumeces fasciatus</i>	Common Five-lined Skink	G5	S3	SC	SC	SAR	0	19	4	0	21	10	21	secondary
18	<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake	G5	S3	THR	THR	SAR	6	11	0	0	11	2	11	secondary
Mammals															
1	<i>Glaucomys volans</i>	Southern Flying Squirrel	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Odonata															
4	<i>Williamsonia fletcheri</i>	Ebony Boghaunter	G3G4	S2			GRank	0	25	25	0	50	3	75	2

Number of pops in 5E-11	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities														
1	Atlantic Coastal Plain Shallow Marsh Type	G2?	S3			GRank	0	0	0	0	0	1	100	all viable
1	Dry Black Oak-Pine Tallgrass Savannah Type	G?	S1			SRank	0	0	0	0	0	1	100	3
1	Dry Tallgrass Prairie Type	G3G4	S1			GRank	0	0	0	0	0	1	100	all viable

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-11

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	100727	67.67	72.46	1103829.00	86	1186.06	6882	51718.19	4.69	3005	22586.00	2.05	716	2561.63	17258	75702.38	6.86	17294	108880.63	9.86
Target wetlands	82109	4.88	5.23	79607.00	138	79.31	5574	4891.88	6.15	2796	3722.56	4.68	650	496.19	12440	12688.19	15.94	12413	12834.00	16.12
All ecological systems	687970	100.00	100.00	1631196.50	809	1534.56	48272	81159.25	4.98	18865	36020.81	2.21	3122	3655.38	86394	125051.94	7.67	86415	158747.44	9.73

Ecological systems details for Ecodistrict 5E-11

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS																				
Aspen on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	29	0.02	0.02	360.63														6	310.25	86.03
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2939	1.16	1.24	18,884.75			153	630.13	3.34	50	242.13	1.28	61	65.81	308	901.56	4.77	312	1,658.25	8.78
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	38	0.01	0.01	111.81						1	0.25	0.22			6	3.44	3.07	8	13.50	12.07
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	579	0.24	0.26	3,891.50			34	56.88	1.46	7	11.94	0.31	2	4.31	47	73.06	1.88	49	283.38	7.28
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	15	0.00	0.00	53.69														3	13.44	25.03
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	5	0.00	0.00	9.31																
Aspen on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	6	0.00	0.00	48.75																
Aspen on organic deposits (peat, muck and marl)	217	0.06	0.07	1,007.94			10	22.88	2.27	4	6.56	0.65	2	12.31	16	64.75	6.42	19	133.94	13.29
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	290	0.09	0.10	1,527.75			16	20.56	1.35	5	6.31	0.41			23	27.56	1.80	22	303.38	19.86
Aspen on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	34	0.00	0.01	77.19									1	4.56	1	4.56	5.91	4	12.38	16.03
Aspen on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	9	0.00	0.00	11.69																
White Birch on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	3	0.00	0.00	8.94																
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	464	0.17	0.18	2,772.31			38	362.88	13.09	8	65.00	2.34			44	397.69	14.34	45	526.06	18.98
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	9.44						1	2.00	21.19			1	2.00	21.19	1	2.00	21.19
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	69	0.03	0.03	430.19			1	0.06	0.01	7	2.94	0.68			7	2.94	0.68	10	89.31	20.76
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	3	0.00	0.00	4.75																

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
White Birch on organic deposits (peat, muck and marl)	44	0.01	0.01	116.63			3	3.25	2.79	2	3.69	3.16			5	6.94	5.95	7	31.63	27.12
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	42	0.02	0.02	346.19														3	122.38	35.35
White Birch on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	4	0.00	0.00	22.63																
White Birch on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	1	0.00	0.00	2.31																
Yellow Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	47	0.01	0.02	244.31														3	53.69	21.97
Yellow Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	13.50																
Yellow Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	5	0.00	0.00	4.13																
Yellow Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	5	0.00	0.00	7.44																
Yellow Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.00	0.00	9.75																
Yellow Birch on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	3	0.00	0.00	7.38																
Upland hardwood and mixed conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	130	0.07	0.08	1,199.94											42	13.69	1.14	30	302.06	25.17
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	21242	16.50	17.67	269,228.69	20	123.06	1915	14,878.00	5.53	666	5,460.94	2.03	208	969.13	4280	20,503.19	7.62	4235	22,551.06	8.38
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	474	0.14	0.14	2,207.56			2	0.13	0.01	5	6.81	0.31			30	28.88	1.31	33	342.50	15.51
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2529	1.64	1.76	26,828.69			256	748.50	2.79	140	859.50	3.20	8	8.81	412	1,544.31	5.76	389	2,555.50	9.53
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	283	0.16	0.17	2,592.94						3	7.19	0.28	2	5.06	7	15.94	0.61	11	431.19	16.63
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	9	0.00	0.00	64.88														3	25.31	39.02
Upland hardwood and mixed conifer on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	101	0.03	0.04	569.69														3	102.69	18.03
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	1641	0.79	0.85	12,959.75			202	1,035.13	7.99	112	463.88	3.58	7	13.38	378	1,466.94	11.32	371	2,251.56	17.37

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2114	1.19	1.27	19,357.81			57	436.13	2.25	30	77.94	0.40	2	5.44	201	536.00	2.77	196	1,478.31	7.64
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	273	0.07	0.08	1,222.38			3	1.38	0.11	1	12.00	0.98	28	39.75	81	72.13	5.90	83	191.81	15.69
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	224	0.03	0.04	562.81	2	0.19				1	4.81	0.86			3	6.25	1.11	5	36.88	6.55
Hemlock on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	9	0.00	0.00	24.56																
Hemlock on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	944	0.61	0.66	9,989.75			87	1,675.38	16.77	34	271.50	2.72	11	26.13	139	1,829.44	18.31	130	2,336.50	23.39
Hemlock on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	37	0.00	0.00	72.38														3	15.25	21.07
Hemlock on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	48	0.02	0.02	296.00						1	0.06	0.02			1	0.06	0.02	4	86.69	29.29
Hemlock on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	13	0.01	0.01	126.13									1	3.25	1	3.25	2.58	3	101.44	80.43
Hemlock on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1	0.00	0.00	1.56																
Hemlock on organic deposits (peat, muck and marl)	59	0.02	0.02	362.88			7	32.94	9.08						8	33.00	9.09	8	33.06	9.11
Hemlock on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	49	0.02	0.03	398.94			3	5.00	1.25						8	5.31	1.33	11	173.31	43.44
Hemlock on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	46	0.01	0.01	212.25											2	0.13	0.06	3	64.56	30.42
Hemlock on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	2	0.00	0.00	4.88																
Intolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	2	0.00	0.00	7.00																
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1273	0.77	0.83	12,604.50			72	585.44	4.64	30	357.50	2.84	5	11.19	117	902.25	7.16	121	1,354.00	10.74
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	19	0.01	0.01	128.44			1	5.81	4.53	1	0.06	0.05			2	5.88	4.57	5	79.25	61.70
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	385	0.19	0.20	3,084.94			25	66.75	2.16	15	57.38	1.86			38	112.94	3.66	50	240.25	7.79
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	7	0.00	0.00	6.31						2	0.69	10.89			2	1.19	18.81	2	1.19	18.81

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	3	0.00	0.00	16.44																
Intolerant hardwoods on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	2	0.00	0.00	8.00																
Intolerant hardwoods on organic deposits (peat, muck and marl)	85	0.03	0.04	539.38			15	57.69	10.70	1	45.38	8.41			16	103.06	19.11	17	134.50	24.94
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	124	0.03	0.04	564.25			5	7.31	1.30	1	1.25	0.22			6	8.56	1.52	4	106.63	18.90
Intolerant hardwoods on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	5	0.00	0.00	26.88																
Intolerant hardwoods on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	5	0.00	0.00	8.31																
Midtolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	11	0.01	0.01	110.69											6	1.75	1.58	7	83.06	75.04
Midtolerant Hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2673	1.52	1.62	24,723.25			207	1,433.56	5.80	63	307.06	1.24	5	14.25	384	1,735.13	7.02	388	2,054.94	8.31
Midtolerant Hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	51	0.01	0.02	235.56						1	5.19	2.20			1	5.19	2.20	4	73.19	31.07
Midtolerant Hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	173	0.06	0.06	951.13			8	41.06	4.32	12	19.94	2.10			22	45.81	4.82	19	179.38	18.86
Midtolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	6	0.00	0.00	28.00											1	15.94	56.92	1	15.94	56.92
Midtolerant hardwoods on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	18	0.00	0.00	18.25																
Midtolerant Hardwoods on organic deposits (peat, muck and marl)	67	0.02	0.02	323.13			24	36.31	11.24	9	11.50	3.56			30	46.88	14.51	31	90.06	27.87
Midtolerant Hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	124	0.06	0.06	971.50						4	0.56	0.06			8	2.00	0.21	11	191.19	19.68
Midtolerant hardwoods on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	23	0.01	0.01	188.13			2	1.69	0.90	1	35.88	19.07	2	27.13	5	38.94	20.70	5	66.00	35.08
Midtolerant hardwoods on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	8	0.00	0.00	33.13	1	0.88				1	5.06	15.28			1	5.13	15.47	1	5.13	15.47
Mixed Lowland Conifer on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	76	0.02	0.02	353.56			1	9.63	2.72				1	0.06	9	19.75	5.59	11	49.25	13.93

Ecological System	# of Patches in SE-11	% of Total Area (ha) in SE-11	% of Total Natural Cover in SE-11	Total Area (ha) in SE-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8778	2.97	3.19	48,521.94	1	7.31	155	613.31	1.26	201	866.69	1.79	31	57.44	610	1,857.31	3.83	612	2,055.44	4.24
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	202	0.05	0.05	818.13									1	0.31	16	55.69	6.81	19	172.81	21.12
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1246	0.61	0.66	10,027.44			98	359.19	3.58	47	693.38	6.91			157	1,074.56	10.72	160	1,504.94	15.01
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	119	0.07	0.07	1,074.38						6	17.50	1.63			6	17.88	1.66	8	205.06	19.09
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	16	0.01	0.01	162.44														3	115.13	70.87
Mixed Lowland Conifer on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	70	0.02	0.02	259.19											1	8.44	3.26	6	56.25	21.70
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	646	0.29	0.31	4,655.00			41	238.19	5.12	33	237.13	5.09			178	682.06	14.65	179	1,108.00	23.80
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1261	0.40	0.43	6,503.06			33	52.63	0.81	19	76.50	1.18			171	323.06	4.97	170	407.38	6.26
Mixed Lowland Conifer on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	313	0.08	0.08	1,235.38									11	13.56	70	118.75	9.61	73	188.81	15.28
Mixed Lowland Conifer on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	199	0.04	0.04	624.88	1	0.06				1	9.56	1.53			26	40.06	6.41	25	110.88	17.74
Oak and Oak/Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	59	0.05	0.05	752.19			13	301.00	40.02						28	302.00	40.15	28	466.56	62.03
Oak and Oak/Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	7883	8.01	8.58	130,666.44	9	134.00	1695	16,657.25	12.75	611	5,087.44	3.89	40	214.25	3439	20,746.44	15.88	3436	23,724.75	18.16
Oak and Oak/Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	113	0.04	0.04	619.13			11	45.00	7.27	3	4.06	0.66			14	49.06	7.92	11	220.44	35.60
Oak and Oak/Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	341	0.16	0.17	2,606.19			7	57.31	2.20	12	32.63	1.25	1	0.44	19	89.94	3.45	21	283.06	10.86
Oak and Oak/Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	20	0.01	0.01	93.13											2	1.31	1.41	5	31.94	34.30
Oak and Oak/Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	20	0.01	0.01	113.31											3	1.19	1.05	6	74.63	65.86
Oak and Oak/Pine on organic deposits (peat, muck and marl)	310	0.12	0.13	2,009.00			43	170.94	8.51	25	92.00	4.58	7	16.38	68	268.75	13.38	70	543.50	27.05
Oak and Oak/Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	233	0.15	0.16	2,499.63			9	10.13	0.41	7	40.88	1.64			16	50.75	2.03	18	584.63	23.39

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Oak and Oak/Pine on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	77	0.02	0.02	305.13			6	47.19	15.46	2	18.56	6.08	4	23.81	12	73.75	24.17	11	79.06	25.91
Oak and Oak/Pine on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	3	0.00	0.00	24.69																
Jack Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	0.69									1	0.69	1	0.69	100.00	1	0.69	100.00
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	67	0.01	0.01	189.81			1	45.00	23.71	1	46.19	24.33			1	46.19	24.33	3	50.94	26.84
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	3	0.00	0.00	6.25																
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	14	0.00	0.00	43.56						1	1.25	2.87			1	1.25	2.87	1	1.25	2.87
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2	0.00	0.00	2.81																
Jack Pine on organic deposits (peat, muck and marl)	6	0.00	0.00	32.88																
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	6	0.00	0.00	6.63																
Jack Pine on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	1	0.00	0.00	1.31									1	1.31	1	1.31	100.00	1	1.31	100.00
Jack Pine on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	1	0.00	0.00	1.31																
Mixed Red and White Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	59	0.02	0.02	361.94			5	37.00	10.22						6	37.06	10.24	8	62.13	17.16
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	7937	5.66	6.06	92,309.94	33	764.63	488	4,047.38	4.38	199	2,938.81	3.18	127	471.31	2253	7,403.88	8.02	2226	13,425.94	14.54
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	146	0.04	0.04	582.75											7	2.25	0.39	10	50.94	8.74
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1089	0.60	0.65	9,852.44			118	445.75	4.52	27	152.50	1.55	7	27.19	146	556.06	5.64	146	1,198.38	12.16
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	123	0.06	0.07	1,016.50									5	3.56	5	3.56	0.35	8	170.94	16.82
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2	0.00	0.00	9.44																
Mixed Red and White Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	58	0.02	0.02	295.31														4	143.25	48.51

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Mixed Red and White Pine on organic deposits (peat, muck and marl)	337	0.19	0.20	3,073.50			27	228.63	7.44	17	30.63	1.00	2	8.69	91	266.56	8.67	91	484.44	15.76
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	774	0.35	0.38	5,762.06			13	52.19	0.91	6	36.75	0.64			25	77.81	1.35	25	893.06	15.50
Mixed Red and White Pine on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	55	0.02	0.02	279.13									18	44.63	25	45.94	16.46	27	91.94	32.94
Mixed Red and White Pine on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	60	0.01	0.01	133.88											2	0.13	0.09	5	29.19	21.80
Lowland Black Spruce on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	1.19			1	1.19	100.00						1	1.19	100.00	1	1.19	100.00
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	90	0.02	0.02	340.63			7	11.19	3.28	4	6.25	1.83			11	15.50	4.55	13	46.94	13.78
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1	0.00	0.00	4.25																
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	30	0.01	0.01	179.31			1	0.06	0.03	2	17.63	9.83			3	17.69	9.86	4	84.75	47.26
Lowland Black Spruce on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	1	0.00	0.00	6.69																
Lowland Black Spruce on organic deposits (peat, muck and marl)	22	0.00	0.00	57.88			1	2.63	4.54	6	14.00	24.19			7	16.63	28.73	8	17.19	29.70
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	12	0.00	0.00	61.50														3	36.94	60.06
Mixed Spruce and Pine on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	25	0.01	0.01	114.56														3	38.88	33.93
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5000	1.93	2.07	31,532.94	16	147.44	111	508.63	1.61	83	305.63	0.97	8	46.50	438	841.63	2.67	439	1,259.81	4.00
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	121	0.02	0.02	335.19									1	4.88	3	5.06	1.51	6	28.50	8.50
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	738	0.28	0.30	4,603.88			15	14.63	0.32	24	73.06	1.59	4	8.31	57	102.19	2.22	60	310.19	6.74
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	126	0.04	0.04	660.56						3	1.00	0.15			3	10.25	1.55	6	32.56	4.93
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2	0.00	0.00	32.38																

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
FORESTS continued																				
Mixed Spruce and Pine on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	74	0.03	0.03	449.88											6	3.00	0.67	11	114.94	25.55
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	340	0.11	0.12	1,800.50			14	118.69	6.59	2	15.81	0.88			107	164.25	9.12	106	289.25	16.06
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	946	0.34	0.36	5,551.88			6	19.50	0.35	6	22.25	0.40			65	49.56	0.89	68	270.19	4.87
Mixed Spruce and Pine on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	59	0.01	0.01	157.31														3	18.69	11.88
Mixed Spruce and Pine on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	57	0.01	0.01	117.88											3	3.63	3.08	5	8.50	7.21
Tolerant hardwoods on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	104	0.04	0.05	723.44											23	20.00	2.76	9	189.69	26.22
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	14752	15.68	16.79	255,800.44	2	7.25	634	4,820.88	1.88	306	2,550.56	1.00	73	314.50	1786	7,807.31	3.05	1787	10,115.38	3.95
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	418	0.15	0.16	2,485.69			3	0.31	0.01	1	34.75	1.40	1	3.81	16	45.88	1.85	18	325.25	13.08
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1653	0.97	1.04	15,835.25			105	377.00	2.38	75	543.69	3.43	2	5.19	158	807.00	5.10	156	1,310.06	8.27
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	221	0.14	0.15	2,357.25						2	2.56	0.11	7	24.63	28	37.56	1.59	31	608.94	25.83
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	16	0.01	0.01	185.88														3	126.00	67.79
Tolerant hardwoods on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	54	0.02	0.02	258.75														3	41.19	15.92
Tolerant hardwoods on organic deposits (peat, muck and marl)	911	0.45	0.48	7,317.38			34	199.63	2.73	33	162.50	2.22	1	5.13	167	591.81	8.09	170	1,078.38	14.74
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1484	1.13	1.21	18,369.06			36	79.81	0.43	16	96.31	0.52			146	263.19	1.43	149	1,888.25	10.28
Tolerant hardwoods on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	422	0.18	0.20	2,971.94			4	1.56	0.05	4	1.06	0.04	17	54.56	115	88.19	2.97	107	560.56	18.86
Tolerant hardwoods on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	170	0.05	0.05	782.75	1	1.25				1	3.63	0.46			16	13.81	1.76	18	183.63	23.46
WETLANDS																				
Conifer Swamp	16432	0.74	0.80	12,121.81	63	27.06	797	608.38	5.02	366	235.31	1.94	156	64.25	1877	1,285.44	10.60	1878	1,285.50	10.60
Deciduous Swamp	42211	2.50	2.68	40,765.56	47	38.25	3262	2,344.88	5.75	1562	1,279.81	3.14	456	410.13	6880	6,112.88	15.00	6858	6,193.75	15.19

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																				
WETLANDS continued																				
Marsh	6679	0.53	0.57	8,677.94	1	0.31	188	250.25	2.88	245	671.88	7.74	3	2.88	1313	2,310.31	26.62	1314	2,339.19	26.96
Mixed Swamp	2796	0.14	0.15	2,263.81	1	1.56	161	157.94	6.98	126	170.69	7.54	10	6.69	555	508.19	22.45	555	508.13	22.45
Open Bog	347	0.04	0.04	615.44			25	41.44	6.73	9	11.44	1.86			37	54.19	8.80	30	89.63	14.56
Open Fen	2164	0.20	0.21	3,182.31			272	619.88	19.48	120	717.38	22.54	12	4.38	691	1,224.31	38.47	691	1,224.31	38.47
Treed Bog	11412	0.71	0.77	11,658.88	26	12.13	810	618.50	5.30	300	328.81	2.82	13	7.88	1019	872.31	7.48	1019	872.31	7.48
Treed Fen	68	0.02	0.02	321.25			59	250.63	78.02	68	307.25	95.64			68	320.56	99.79	68	321.19	99.98
Non-Target Natural Ecological Systems																				
FORESTS																				
Aspen on unknown bedrock	21	0.00	0.00	57.69					0.00											
White Birch on unknown bedrock	15	0.00	0.00	26.44			2	10.19	38.53						2	10.19	38.53	2	10.19	38.53
Coniferous Forest on unknown bedrock	466	0.02	0.03	393.00			41	23.31	5.93	12	4.56	1.16			68	29.50	7.51	68	29.50	7.51
Coniferous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	184	0.01	0.01	122.56			22	8.75	7.14				2	0.19	42	14.00	11.42	42	14.00	11.42
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	41078	0.71	0.76	11,549.88	96	9.88	5463	1,335.25	11.56	1804	388.63	3.36	128	20.38	7521	1,737.50	15.04	7522	1,738.25	15.05
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	322	0.00	0.00	69.75			2	0.31	0.45				2	0.25	5	0.69	0.99	5	0.69	0.99
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	4167	0.07	0.07	1,085.75			149	18.75	1.73	99	12.69	1.17	15	1.69	275	34.44	3.17	275	34.44	3.17
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	476	0.02	0.02	360.19						1	0.06	0.02	3	0.44	11	4.56	1.27	11	4.56	1.27
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	53	0.00	0.00	32.81																
Coniferous Forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	148	0.00	0.00	17.50																
Coniferous Forest on organic deposits (peat, muck and marl)	2471	0.04	0.04	629.25			251	55.06	8.75	188	36.38	5.78	11	1.69	398	82.56	13.12	398	82.56	13.12
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2114	0.03	0.03	464.50			34	12.50	2.69	19	1.69	0.36			77	16.25	3.50	77	16.25	3.50
Coniferous Forest on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	500	0.01	0.01	185.19			3	0.38	0.20				23	6.75	77	12.50	6.75	77	12.50	6.75
Coniferous Forest on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	106	0.00	0.00	20.69											2	0.19	0.91	2	0.19	0.91
Coniferous Forest (Plantation)	103	0.00	0.00	51.88																
Deciduous Forest on unknown bedrock	924	0.07	0.08	1,142.88			48	20.94	1.83	2	0.13	0.01			76	25.88	2.26	76	25.88	2.26
Deciduous Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	658	0.05	0.05	805.06			69	5.81	0.72				4	0.25	118	25.63	3.18	118	25.63	3.18

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																				
FORESTS continued																				
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	62970	2.16	2.32	35,271.94	17	3.00	3868	1,040.63	2.95	1042	355.00	1.01	166	24.13	6434	1,941.63	5.50	6434	1,941.69	5.50
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	722	0.01	0.01	143.88			21	2.13	1.48	10	1.06	0.74			35	3.63	2.52	35	3.63	2.52
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2631	0.07	0.08	1,207.56			26	2.31	0.19	45	7.63	0.63	6	1.13	133	20.31	1.68	133	20.31	1.68
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	660	0.05	0.06	877.19									7	1.06	33	26.94	3.07	33	26.94	3.07
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	84	0.01	0.01	204.81						14	12.13	5.92			14	12.19	5.95	14	12.19	5.95
Deciduous Forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	209	0.00	0.00	39.25																
Deciduous Forest on organic deposits (peat, muck and marl)	1427	0.05	0.06	880.19			79	18.31	2.08	88	19.06	2.17	1	0.06	206	44.88	5.10	206	44.88	5.10
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4307	0.09	0.09	1,412.38			20	4.06	0.29	15	3.44	0.24			67	9.50	0.67	67	9.50	0.67
Deciduous Forest on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	1009	0.03	0.03	433.88			3	1.81	0.42	12	1.00	0.23	23	2.13	82	12.56	2.90	82	12.56	2.90
Deciduous Forest on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	417	0.01	0.01	129.00						2	0.13	0.10			5	0.31	0.24	5	0.31	0.24
Upland hardwood and mixed conifer on unknown bedrock	335	0.06	0.06	983.00			33	66.38	6.75	11	63.19	6.43			60	133.13	13.54	60	133.13	13.54
Hemlock on unknown bedrock	71	0.01	0.02	232.69			19	33.88	14.56						22	36.63	15.74	22	36.63	15.74
Intolerant hardwoods on unknown bedrock	25	0.01	0.01	84.69			2	8.44	9.96	5	8.06	9.52			11	17.63	20.81	11	17.63	20.81
Midtolerant Hardwoods on unknown bedrock	23	0.00	0.01	73.25			6	15.69	21.42						7	15.75	21.50	7	15.75	21.50
Mixed Forest on unknown bedrock	1596	0.08	0.09	1,335.38			160	115.38	8.64	31	3.13	0.23			202	119.44	8.94	202	119.44	8.94
Mixed Forest on bedrock with undifferentiated carbonate and clastic sedimentary rock, exposed at surface or covered by a discontinuous, thin layer of drift	771	0.03	0.03	448.38			73	10.38	2.31						106	26.31	5.87	106	26.31	5.87
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	134762	2.78	2.98	45,394.56	194	30.25	8106	2,543.69	5.60	2926	820.06	1.81	448	102.13	12186	3,526.63	7.77	12187	3,527.13	7.77
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1297	0.02	0.02	258.25			12	1.81	0.70						15	2.06	0.80	15	2.06	0.80
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	11091	0.18	0.20	2,974.06			635	115.31	3.88	325	50.69	1.70	5	0.63	973	171.63	5.77	973	171.63	5.77
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1366	0.04	0.04	596.31									1	1.50	16	7.31		16	7.31	1.23
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	82	0.00	0.00	55.00						6	3.19	5.80			6	3.19	5.80	6	3.19	5.80

Ecological System	# of Patches in 5E-11	% of Total Area (ha) in 5E-11	% of Total Natural Cover in 5E-11	Total Area (ha) in 5E-11	# of Patches in Federal Lands	Total Area (ha) in Federal Lands	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																				
FORESTS continued																				
Mixed forest on glaciomarine and marine deposits (sand, gravelly sand and gravel, nearshore and beach deposits or silt and clay, basin and quiet water deposits)	384	0.00	0.01	78.00																
Mixed forest on organic deposits (peat, muck and marl)	4857	0.09	0.09	1,438.44			449	122.81	8.54	230	51.81	3.60	4	0.31	670	177.75	12.36	672	178.94	12.44
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	8610	0.13	0.14	2,138.00			131	50.75	2.37	50	8.81	0.41	1	0.06	234	63.63	2.98	234	63.63	2.98
Mixed forest on till with undifferentiated, predominantly sand matrix, extremely stony, bouldery and high in total matrix carbonate, often associated with stratified sediments	945	0.02	0.02	252.31			19	3.00	1.19	12	1.00	0.40	27	5.00	85	13.44	5.33	85	13.44	5.33
Mixed forest on till with undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content	454	0.01	0.01	118.06						3	0.19	0.16			11	0.75	0.64	12	26.13	22.13
Mixed Lowland Conifer on unknown bedrock	30	0.01	0.01	88.31			2	3.75	4.25	4	9.50	10.76			7	9.75	11.04	7	9.75	11.04
Oak and Oak/Pine on unknown bedrock	166	0.04	0.05	698.25			37	90.31	12.93	7	14.81	2.12			44	105.13	15.06	44	105.13	15.06
Mixed Red and White Pine on unknown bedrock	201	0.05	0.06	874.94			11	9.63	1.10	18	170.50	19.49			43	179.88	20.56	43	179.88	20.56
Mixed Spruce and Pine on unknown bedrock	32	0.00	0.00	67.25			2	0.13	0.19	1	7.75	11.52			3	7.88	11.71	3	7.88	11.71
Tolerant hardwoods on unknown bedrock	309	0.06	0.06	981.19			23	91.31	9.31	3	0.94	0.10			43	96.63	9.85	43	96.63	9.85
WETLANDS																				
Open Muskeg	68949	2.73	2.93	44,586.00	178	103.31	5474	3,126.50	7.01	2114	1,291.38	2.90	241	122.75	9355	4,943.19	11.09	9357	4,943.50	11.09
Treed Muskeg	9900	0.57	0.61	9,273.56	59	46.06	763	775.13	8.36	269	319.69	3.45	38	20.13	1149	1,131.75	12.20	1149	1,131.75	12.20
OTHER LANDCOVER																				
Barren & Scattered	20134	0.30		4,916.50			314	29.44	0.60	359	40.69	0.83	102	7.06	767	75.94	1.54	767	75.94	1.54
Brush and Alder	19326	1.18	1.26	19,186.44	21	48.50	1225	1,281.06	6.68	567	524.63	2.73	148	56.44	2393	2,041.63	10.64	2393	2,041.69	10.64
Grass & Meadow	23985	3.29		53,728.31			86	57.44	0.11	181	152.31	0.28	59	31.50	651	324.19	0.60	652	344.94	0.64
Rock	26340	2.15	2.30	35,017.00	12	7.56	5109	7,678.50	21.93	1649	2,218.94	6.34	165	127.81	6590	9,255.94	26.43	6591	9,256.00	26.43
Unclassified (Cloud & Shadow)	73	0.00		30.94																
Water	30144	7.08	7.58	115,525.69	6	20.38	2993	5,750.44	4.98	882	3,096.81	2.68	90	45.00	4967	9,915.00	8.58	4970	10,237.38	8.86
Anthropogenic Land Types																				
Developed Agricultural Land	9403	2.87		46,886.81	2	0.25	23	6.63	0.01	58	10.63	0.02	36	17.13	361	187.31	0.40	361	187.31	0.40
Settlement and Developed Land	1231	0.11		1,823.88			8	0.94	0.05						38	6.13	0.34	38	6.13	0.34

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Batchawana

Ecodistrict 5E-13

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 421,496 hectares (1,041,540 acres)

Land Ownership: 41% private, 58.5% Crown, 0.5% First Nations lands

Planning Authority: 98% Algoma District, 2% Sudbury District

Physiography:

This ecodistrict can be described as gently sloping uplands and frequent moderate and broad valleys of sands and silts. It is also known as Hills's site district 4E-2. Ecodistrict 5E-13 is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. Glaciolacustrine deposits dominate the Lake Superior shoreline and the river mouth of the Goulais River. Glaciofluvial and fluvial deposits are represented in the river valleys, particularly the Goulais and Batchawana Rivers. Minor organic deposits are scattered throughout the ecodistrict. The Montreal River generally defines the northern boundary. The southern boundary generally follows the transition between the bedrock of 5E-13 and the glaciolacustrine and fluvial deposits of 5E-1.

Natural Cover:

Approximately 99% of the ecodistrict remains as natural cover, primarily forest. Two-thirds of this cover is tolerant hardwood, of which approximately 75% are on bedrock. In the northeastern portion of the ecoregion Black Spruce and pine assemblages combine with mixed Red Pine and White Pine complexes and lowland Black Spruce. The river mouths of the Goulais River and Batchawana River are dominated by mixed lowland conifers and bogs. Nearly 4% of the remaining natural cover is wetland, primarily open muskeg.

Land Use:

Less than 300 hectares of 5E-13 have been converted to developed agricultural lands and fewer than 1,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands make up approximately 5% of Ecodistrict 5E-13 (20,993 ha). Provincially protected areas account for the majority of these lands (20,076 ha). The remaining conservation land is composed of 917 hectares of Conservation Authority areas. Eleven percent of all occurrences of species and vegetation community targets in 5E-13 are within conservation lands, all of them in provincially protected areas.

Species Targets:

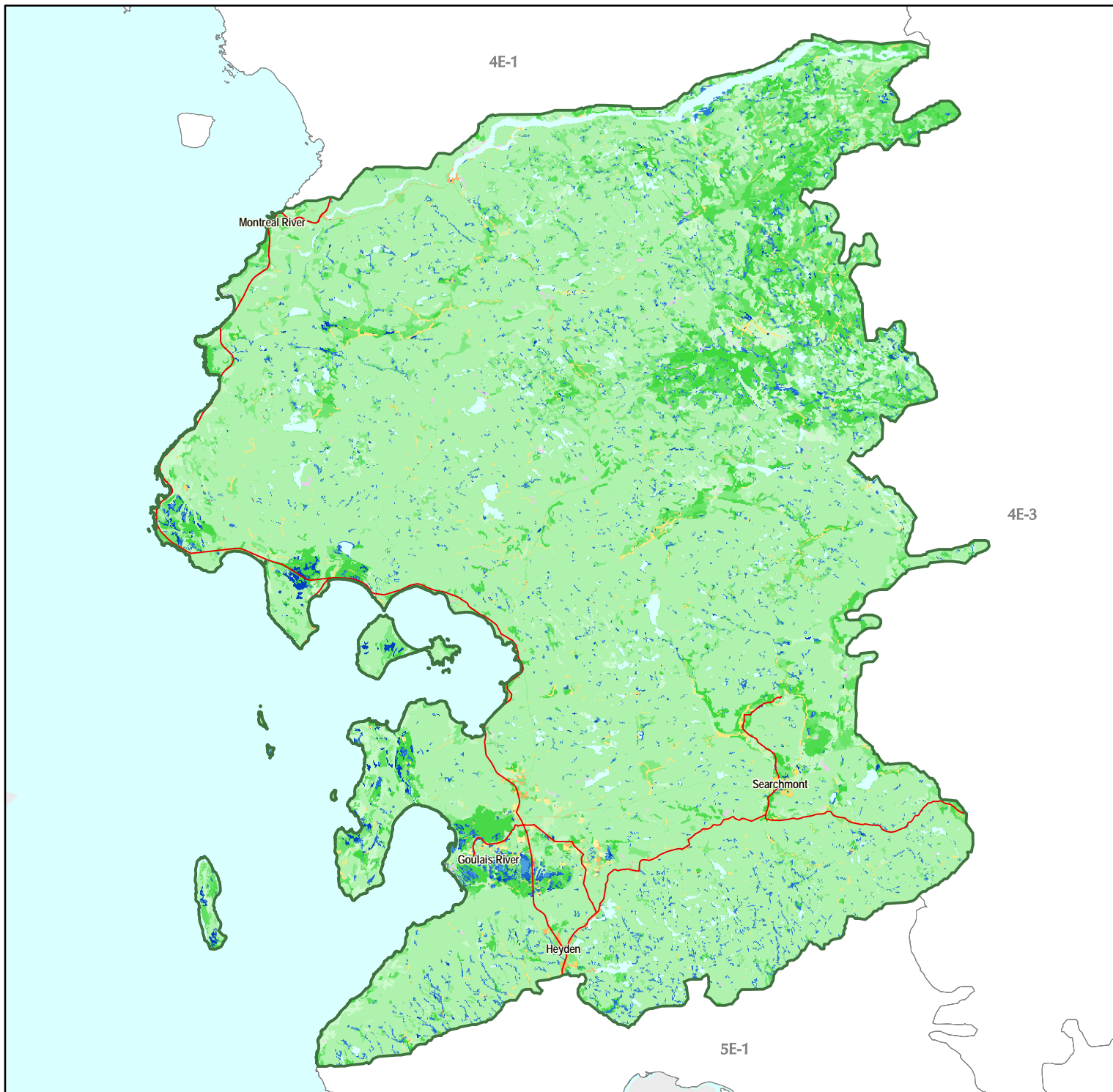
Fourteen of the 17 targeted species occurring in 5E-13 are plants, of which 11 occur as disjuncts in the Great Lakes ecoregion. Sand Reed Grass (*Calamovilfa longifolia* var. *magna*) is globally rare and endemic to the Great Lakes region. The three faunal target species are all species at risk.

Vegetation Community Targets:

Two of the four communities identified within 5E-13 are globally rare, two are provincially rare, and one is considered to be a high-quality representative vegetation community that is important to conservation.

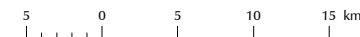
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 5E-13 includes approximately 16% of all naturally vegetated cover, and over three-quarters of all occurrences of species and vegetation community targets.

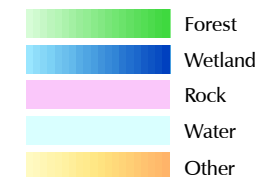


Great Lakes Conservation Blueprint for Biodiversity

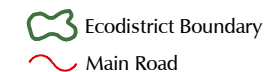
BATCHAWANA ECODISTRICT 5E-13



Ecological Systems



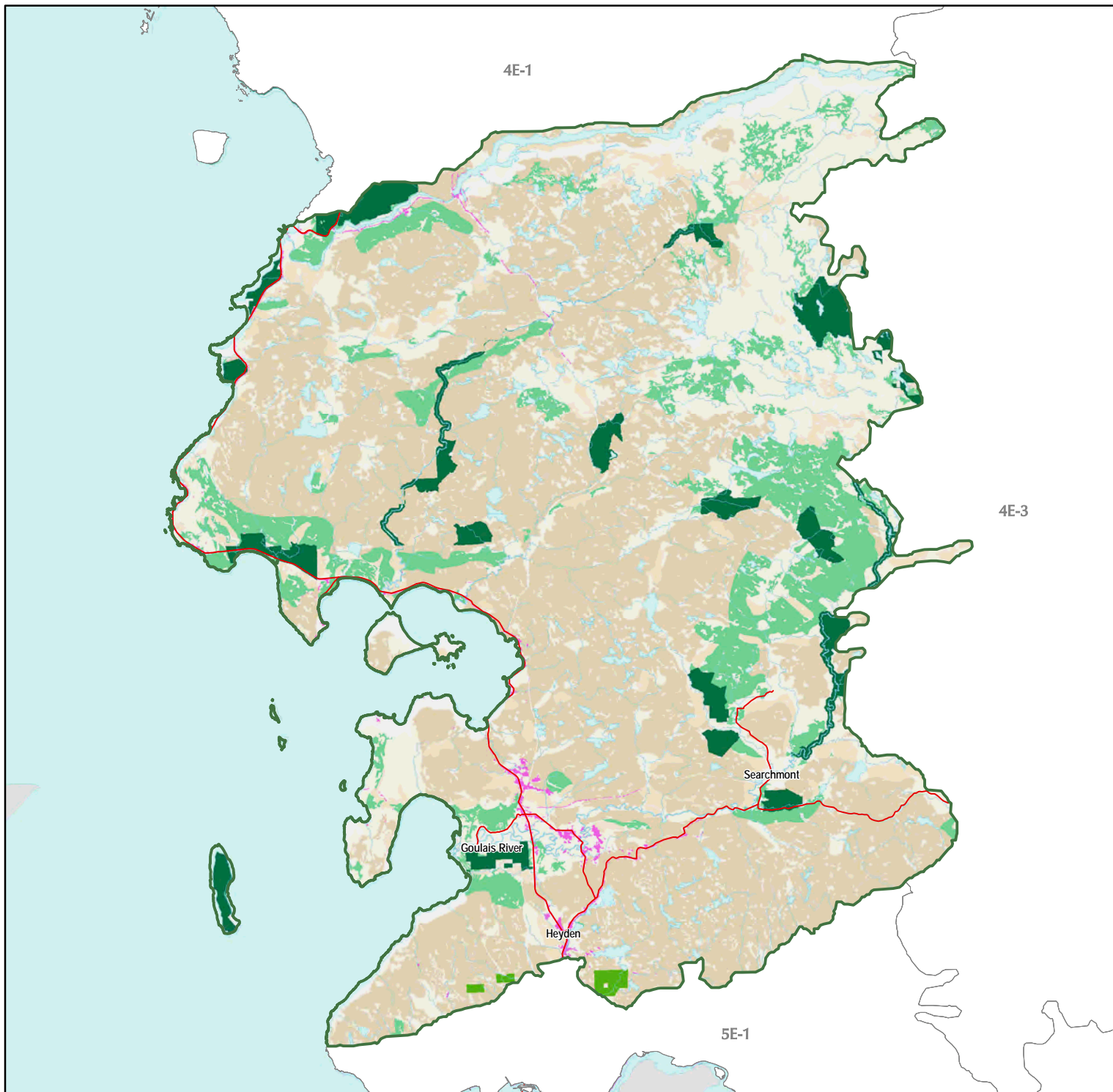
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

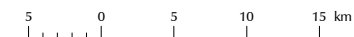
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint Project

BATCHAWANA ECODISTRICT 5E-13



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 5E-13

Number of pops in 5E-13	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	0	3	100	3
1	<i>Calamovilfa longifolia</i> var. <i>magna</i>	Sand Reed Grass	G5T3T5	S3			GRank endemic	0	0	0	0	0	1	100	4
1	<i>Carex wiegandii</i>	Wiegand's Sedge	G3	S1			GRank	0	0	0	0	0	1	100	2
2	<i>Elymus glaucus</i>	Blue Wild-rye	G5	S1			disjunct	0	0	0	0	0	2	100	3
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	0	0	0	1	100	3
1	<i>Galium kamtschaticum</i>	Boreal Bedstraw	G5	S2			disjunct	0	0	0	0	0	1	100	3
1	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Huperzia appalachiana</i>	Appalachian Fir-clubmoss	G4G5	S3?			disjunct	0	0	0	0	0	1	100	3
1	<i>Melica smithii</i>	Smith Melic Grass	G4	S4?			disjunct	0	0	0	0	0	1	100	3
1	<i>Polystichum lonchitis</i>	Northern Holly-fern	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Prunus pumila</i> var. <i>pumila</i>	Sand Cherry	G5T4	S4?			declining	0	0	0	0	0	1	100	2
1	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Tanacetum bipinnatum</i> ssp. <i>Huronense</i>	St John Tansy	G5T4T5	S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Vaccinium ovalifolium</i>	Blue Bilberry	G5	S2			disjunct	0	0	0	0	0	1	100	3
Birds															
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	1	100	secondary
6	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
3	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	33	0	0	33	1	33	secondary
Communities															
3	American Dune Grass-Beach Pea-Sand Cherry Dune Grassland Type		G3G5	S2			GRank	0	33	0	0	33	3	100	all viable
1	Black Spruce Coniferous Organic Swamp Type		G5	S5			high quality	0	0	0	0	0	1	100	secondary
1	Common Reed Grass Organic Shallow Marsh Type		G3G4	S4			GRank	0	0	0	0	0	1	100	all viable
3	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	0	0	0	0	3	100	3

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 5E-13

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservat-ion Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	7066	86.37	86.85	364025.38	1091	16136.56	4.43	47	774.56	0.21	1138	16911.13	4.65	1203	59119.31	16.24
Target wetlands	2727	0.66	0.66	2764.94	230	433.00	15.66	22	12.50	0.45	252	445.50	16.11	253	481.44	17.41
All ecological systems	51146	100.00	100.00	421492.00	3755	20075.75	4.76	163	917.19	0.22	3918	20992.94	4.98	3996	63304.13	15.02

Ecological systems details for Ecodistrict 5E-13

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservat-ion Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	176	1.25	1.25	5,255.94	13	211.81	4.03	1	0.19	0.00	14	212.00	4.03	17	1,558.38	29.65
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	18	0.07	0.07	275.50	6	29.31	10.64				6	29.31	10.64	4	162.69	59.05
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	48	0.11	0.11	474.81	10	90.94	19.15				10	90.94	19.15	10	220.63	46.47
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	41	0.10	0.10	410.00	7	87.00	21.22	1	0.69	0.17	8	87.69	21.39	10	107.31	26.17
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	10	0.04	0.04	180.13	6	2.69	1.49				6	2.69	1.49	7	113.63	63.08
Aspen on organic deposits (peat, muck and marl)	5	0.01	0.01	26.88												
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	319	1.16	1.16	4,868.50	36	213.56	4.39				36	213.56	4.39	37	1,152.19	23.67
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	28	0.07	0.07	276.81	8	72.38	26.15				8	72.38	26.15	9	124.19	44.86
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	54	0.22	0.22	923.00	8	75.69	8.20				8	75.69	8.20	10	185.00	20.04
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	7	0.04	0.04	155.88										3	127.19	81.60
White Birch on organic deposits (peat, muck and marl)	20	0.05	0.05	224.31	4	18.69	8.33				4	18.69	8.33	6	152.31	67.90
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	476	2.16	2.17	9,101.81	69	516.13	5.67				69	516.13	5.67	67	543.44	5.97
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	57	0.10	0.10	411.13	10	21.31	5.18				10	21.31	5.18	10	161.19	39.21
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	170	0.52	0.52	2,171.38	60	530.94	24.45				60	530.94	24.45	55	657.56	30.28
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	113	0.47	0.47	1,987.56	20	130.94	6.59				20	130.94	6.59	23	322.06	16.20
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	17	0.06	0.06	259.88										3	113.81	43.80
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	18	0.04	0.04	183.38	1	12.75	6.95				1	12.75	6.95	3	118.44	64.59
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	192	1.29	1.30	5,441.69	31	263.50	4.84				31	263.50	4.84	33	887.44	16.31
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	4	0.01	0.01	38.31												
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	36	0.15	0.15	621.38	12	121.25	19.51				12	121.25	19.51	12	201.44	32.42
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	49	0.20	0.20	822.81	19	126.69	15.40				19	126.69	15.40	17	129.50	15.74
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6	0.03	0.03	132.69										3	61.25	46.16

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservat-ion Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Intolerant hardwoods on organic deposits (peat, muck and marl)	7	0.04	0.04	158.38										3	141.88	89.58
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	340	1.31	1.32	5,518.38	41	196.13	3.55	5	38.25	0.69	46	234.38	4.25	48	708.25	12.83
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	18	0.03	0.03	130.44	1	0.56	0.43				1	0.56	0.43	4	45.50	34.88
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	2	0.01	0.01	61.69										2	61.69	100.00
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	133	0.42	0.42	1,757.94	33	430.38	24.48				33	430.38	24.48	34	609.38	34.66
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	88	0.69	0.69	2,887.63	36	449.31	15.56	3	12.00	0.42	39	461.31	15.98	32	1,667.13	57.73
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	14	0.04	0.04	162.69										3	38.75	23.82
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	26	0.04	0.04	148.81										3	35.63	23.94
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	107	0.42	0.42	1,777.38	6	59.75	3.36				6	59.75	3.36	22	425.06	23.92
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	34	0.11	0.11	442.94	11	16.38	3.70				11	16.38	3.70	11	166.25	37.53
Jack Pine on organic deposits (peat, muck and marl)	9	0.02	0.02	74.63										3	51.19	68.59
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	272	1.32	1.33	5,561.88	49	773.38	13.90	1	21.81	0.39	50	795.19	14.30	48	1,414.19	25.43
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	16	0.06	0.06	262.38										3	113.44	43.23
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	80	0.28	0.29	1,198.31	22	245.06	20.45				22	245.06	20.45	20	572.06	47.74
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	22	0.02	0.02	99.00	1	25.88	26.14	3	12.06	12.18	4	37.94	38.32	6	65.63	66.29
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	5	0.00	0.00	9.44												
Mixed Red and White Pine on organic deposits (peat, muck and marl)	2	0.00	0.00	13.63												
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	191	0.94	0.95	3,970.56	12	131.56	3.31				12	131.56	3.31	14	1,835.25	46.22
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	5	0.02	0.02	82.56										3	82.00	99.32
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	110	0.28	0.28	1,177.63	21	199.63	16.95				21	199.63	16.95	21	553.75	47.02
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	46	0.13	0.13	555.06	16	129.13	23.26	1	6.19	1.11	17	135.31	24.38	18	216.63	39.03
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	7	0.01	0.01	56.69										3	34.50	60.86
Lowland Black Spruce on organic deposits (peat, muck and marl)	23	0.06	0.06	265.94										3	139.56	52.48
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1171	5.02	5.05	21,166.75	120	647.19	3.06	9	20.88	0.10	129	668.06	3.16	132	1,932.69	9.13
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	48	0.09	0.09	367.69	4	5.63	1.53				4	5.63	1.53	7	43.75	11.90
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	12	0.04	0.04	177.06										3	160.31	90.54

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservat-ion Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	258	0.72	0.72	3,027.69	53	447.50	14.78				53	447.50	14.78	51	541.38	17.88
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	139	0.41	0.41	1,717.75	26	190.81	11.11				26	190.81	11.11	25	420.00	24.45
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	20	0.06	0.06	259.00										3	151.69	58.57
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	74	0.15	0.15	649.19										3	167.31	25.77
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1	0.00	0.00	0.25												
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1102	50.96	51.24	214,775.00	206	7,015.94	3.27	19	619.75	0.29	225	7,635.69	3.56	213	23,311.13	10.85
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	104	1.37	1.37	5,762.44	6	76.81	1.33				6	76.81	1.33	10	1,563.06	27.13
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	16	0.12	0.12	510.44										3	455.88	89.31
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	342	6.10	6.14	25,719.75	64	1,410.44	5.48				64	1,410.44	5.48	64	6,305.44	24.52
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	194	5.12	5.15	21,579.44	34	882.13	4.09	4	42.75	0.20	38	924.88	4.29	30	5,777.63	26.77
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	59	0.62	0.62	2,610.81	3	274.38	10.51				3	274.38	10.51	6	942.31	36.09
Tolerant hardwoods on organic deposits (peat, muck and marl)	102	1.11	1.12	4,696.63	3	0.44	0.01				3	0.44	0.01	8	881.69	18.77
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	3	0.09	0.09	387.81	3	2.63	0.68				3	2.63	0.68	2	387.75	99.98
WETLANDS																
Open Bog	492	0.09	0.09	397.56	31	119.31	30.01	3	0.31	0.08	34	119.63	30.09	34	137.31	34.54
Open Fen	15	0.01	0.01	43.81												
Treed Bog	2220	0.55	0.55	2,323.56	199	313.69	13.50	19	12.19	0.52	218	325.88	14.02	219	344.13	14.81
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	27	0.05	0.05	214.63												
White Birch on unknown bedrock	46	0.12	0.12	485.63	6	22.81	4.70				6	22.81	4.70	8	44.88	9.24
Coniferous Forest on unknown bedrock	207	0.02	0.02	66.44	38	16.00	24.08				38	16.00	24.08	39	16.06	24.18
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3456	0.26	0.26	1,109.38	195	64.94	5.85	3	1.63	0.15	198	66.56	6.00	201	66.75	6.02
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	58	0.00	0.00	16.38	4	0.94	5.73				4	0.94	5.73	4	0.94	5.73
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	33	0.00	0.00	6.25												
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	463	0.04	0.04	180.44	73	38.88	21.54				73	38.88	21.54	73	38.88	21.54

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservat-ion Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	371	0.02	0.02	87.00	34	5.81	6.68	1	0.06	0.07	35	5.88	6.75	35	5.88	6.75
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	12	0.00	0.00	1.63												
Coniferous Forest on organic deposits (peat, muck and marl)	97	0.00	0.00	17.56	1	0.06	0.36				1	0.06	0.36	1	0.06	0.36
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4	0.00	0.00	1.13												
Deciduous Forest on unknown bedrock	241	0.05	0.05	223.31	17	35.00	15.67				17	35.00	15.67	17	35.00	15.67
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8735	1.16	1.17	4,903.31	369	429.88	8.77	34	15.63	0.32	403	445.50	9.09	403	445.50	9.09
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	380	0.06	0.06	265.81	4	0.25	0.09				4	0.25	0.09	4	0.25	0.09
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	47	0.00	0.00	12.50												
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	995	0.13	0.13	539.13	135	79.69	14.78				135	79.69	14.78	135	79.69	14.78
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	925	0.13	0.13	563.56	65	13.69	2.43	3	0.25	0.04	68	13.94	2.47	68	13.94	2.47
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	137	0.02	0.02	71.56	2	0.13	0.17				2	0.13	0.17	2	0.13	0.17
Deciduous Forest on organic deposits (peat, muck and marl)	162	0.02	0.02	75.25	5	2.56	3.41				5	2.56	3.41	5	2.56	3.41
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	30	0.00	0.00	11.31												
Upland hardwood and mixed conifer on unknown bedrock	62	0.43	0.43	1,794.88	5	91.63	5.10				5	91.63	5.10	5	91.63	5.10
Intolerant hardwoods on unknown bedrock	44	0.14	0.14	587.25	11	117.75	20.05				11	117.75	20.05	11	117.75	20.05
Mixed Forest on unknown bedrock	341	0.04	0.04	159.31	19	9.88	6.20				19	9.88	6.20	19	9.88	6.20
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	6941	0.66	0.66	2,766.13	333	217.13	7.85	1	0.13	0.00	334	217.25	7.85	334	217.25	7.85
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	149	0.01	0.01	52.75	5	1.38	2.61				5	1.38	2.61	5	1.38	2.61
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	62	0.01	0.01	23.31												
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	699	0.06	0.06	264.38	128	57.88	21.89				128	57.88	21.89	128	57.88	21.89
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	346	0.03	0.03	108.81	45	12.00	11.03				45	12.00	11.03	45	12.00	11.03
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	46	0.00	0.00	16.75												
Mixed forest on organic deposits (peat, muck and marl)	188	0.01	0.01	42.19	6	1.50	3.56				6	1.50	3.56	6	1.50	3.56
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.00	0.00	0.25												
Mixed Lowland Conifer on unknown bedrock	20	0.02	0.02	101.25	7	49.81	49.20				7	49.81	49.20	7	49.81	49.20
Jack Pine on unknown bedrock	2	0.02	0.02	71.56												

Ecological System	# of Patches in 5E-13	% of Total Area (ha) in 5E-13	% of Total Natural Cover in 5E-13	Total Area (ha) in 5E-13	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in CA Lands	Total Area (ha) in CA Lands	% System in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Mixed Red and White Pine on unknown bedrock	16	0.06	0.06	248.25	1	53.31	21.48				1	53.31	21.48	1	53.31	21.48
Lowland Black Spruce on unknown bedrock	9	0.04	0.04	181.81	4	101.19	55.65				4	101.19	55.65	4	101.19	55.65
Mixed Spruce and Pine on unknown bedrock	91	0.34	0.34	1,445.63	6	154.63	10.70				6	154.63	10.70	6	154.63	10.70
Tolerant hardwoods on unknown bedrock	138	1.15	1.16	4,856.00	16	450.88	9.28				16	450.88	9.28	16	450.88	9.28
WETLANDS																
Open Muskeg	6923	2.28	2.30	9,620.00	291	291.50	3.03	36	99.44	1.03	327	390.94	4.06	327	390.94	4.06
Treed Muskeg	703	0.44	0.45	1,873.44	108	222.81	11.89	2	1.56	0.08	110	224.38	11.98	110	224.38	11.98
OTHER LANDCOVER																
Barren & Scattered	1174	0.20		833.69	83	57.63	6.91				83	57.63	6.91	83	57.63	6.91
Brush and Alder	1195	1.04	1.05	4,404.25	160	284.63	6.46	2	6.63	0.15	162	291.25	6.61	163	291.31	6.61
Grass & Meadow	48	0.07		279.00	3	2.44	0.87				3	2.44	0.87	4	35.38	12.68
Rock	501	0.29	0.29	1,207.63	32	45.00	3.73				32	45.00	3.73	34	56.13	4.65
Water	4518	3.24	3.26	13,660.75	179	557.94	4.08	11	3.00	0.02	190	560.94	4.11	192	561.56	4.11
Anthropogenic Land Types																
Developed Agricultural Land	44	0.07		277.50												
Settlement and Developed Land	665	0.23		972.75	44	14.69	1.51	1	1.81	0.19	45	16.50	1.70	45	16.50	1.70

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).



Michipicoten

Ecodistrict 4E-1

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 495,697 hectares (1,224,893 acres)

Land Ownership: 15% private, 85% Crown

Planning Authority: 90% Algoma District, 10% Sudbury District

Physiography:

The ecodistrict is located south of Michipicoten River village and north of the Montreal River. Ecodistrict 4E-1 is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. The ecodistrict is comprised of gently sloped uplands and deeply steep-walled valleys such as along the Agawa River. Glaciolacustrine deposits occur along the Lake Superior shoreline, and glaciofluvial deposits are found in the eastern and northwestern portions of the ecodistrict. Coarse and medium sands are dominant, and the deeper valleys and slopes have esker or beach deposits laid down by water.

Natural Cover:

Approximately 95% of the ecodistrict remains as natural cover, primarily forest. Approximately 22% of the ecodistrict is dominated by tolerant hardwoods, particularly in the west. These are often intermixed with upland hardwoods and conifers, which make up 9% of the natural cover. Black spruce and pine associations are scattered throughout 4E-1, particularly on shallow upland soils. Lowland Black Spruce is evident in the cool valleys, and birch associations are scattered along the slopes. Two percent of the natural cover is comprised of wetlands, primarily open muskeg.

Land Use:

There are no mapped lands in 4E-1 that have been converted to developed agricultural lands and very few roads intersect this ecodistrict. Approximately 1,000 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands make up approximately 32% of Ecodistrict 4E-1 (160,257 ha), primarily due to Lake Superior Provincial Park and Michipicoten Island Provincial Park. Three additional conservation reserves are found in 4E-1 (3,944 ha), one of which is also a 115 hectare provincially significant life science ANSI. Ninety percent of all occurrences of species and vegetation community targets in 4E-1 are within conservation lands; all of these targets are within the two provincial parks.

Species Targets:

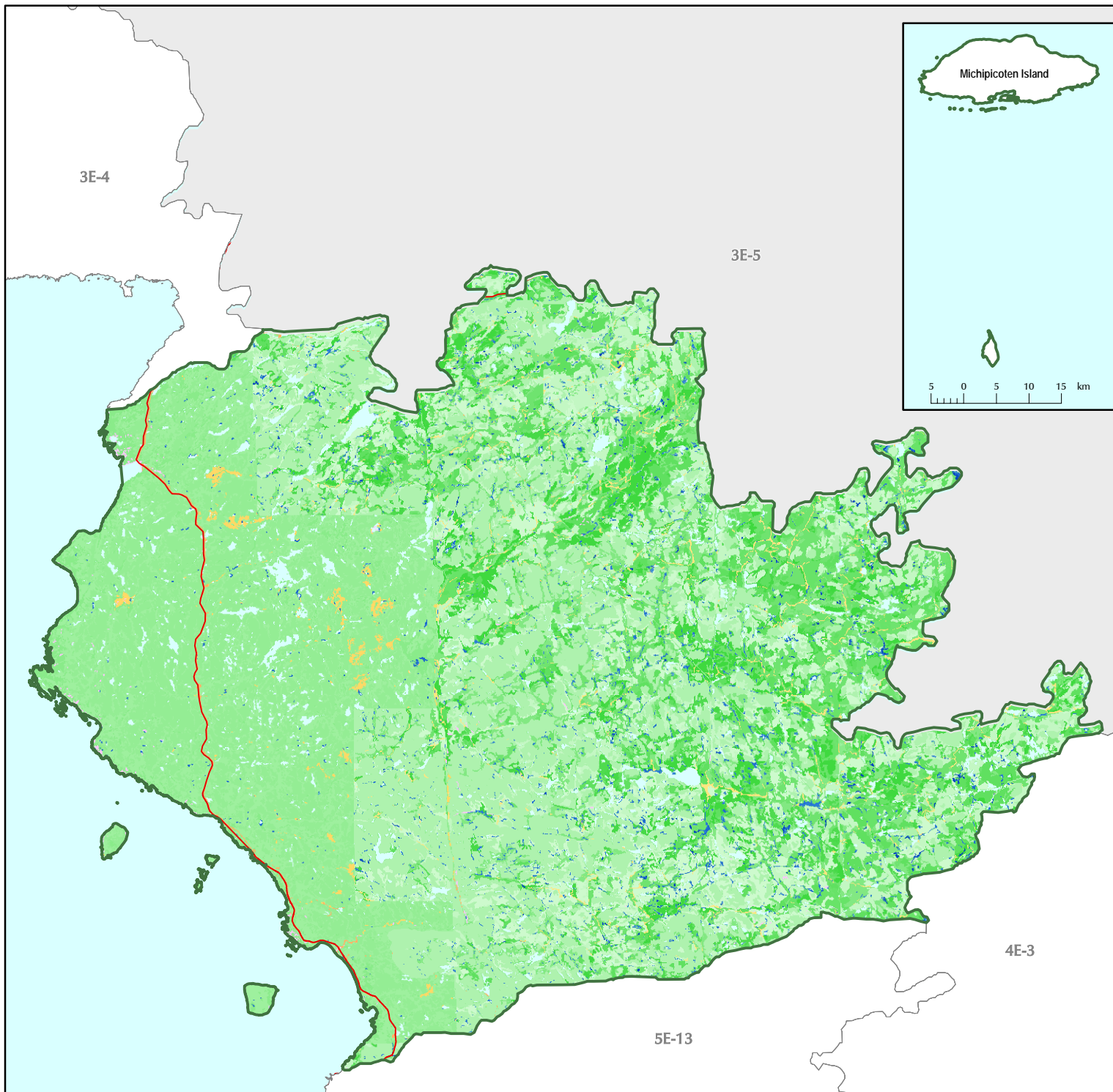
Sixteen of the 19 targeted species occurring in 4E-1 are plants, most of which occur in the Great Lakes as disjuncts. The Peregrine Falcon (*Falco peregrinus anatum*) and the Bald Eagle (*Haliaeetus leucocephalus*) are both designated as provincially Endangered.

Vegetation Community Targets:

Two of the five significant vegetation communities in 4E-1 are globally rare, two are provincially rare, including the Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline. Another two communities are considered to be high-quality representative communities that are important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 4E-1 includes approximately 36% of all naturally vegetated cover, and 98% of all occurrences of species and vegetation community targets.

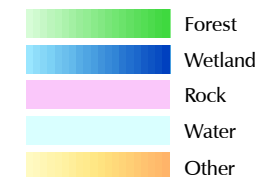


Great Lakes Conservation Blueprint for Biodiversity

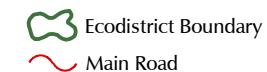
MICHIPICOTEN ECODISTRICT 4E-1



Ecological Systems



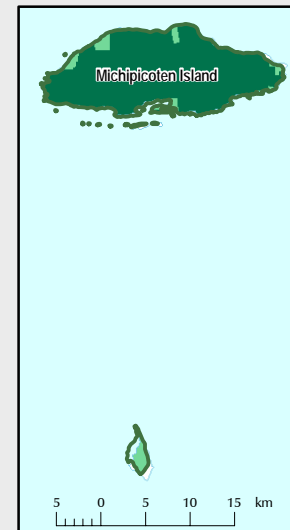
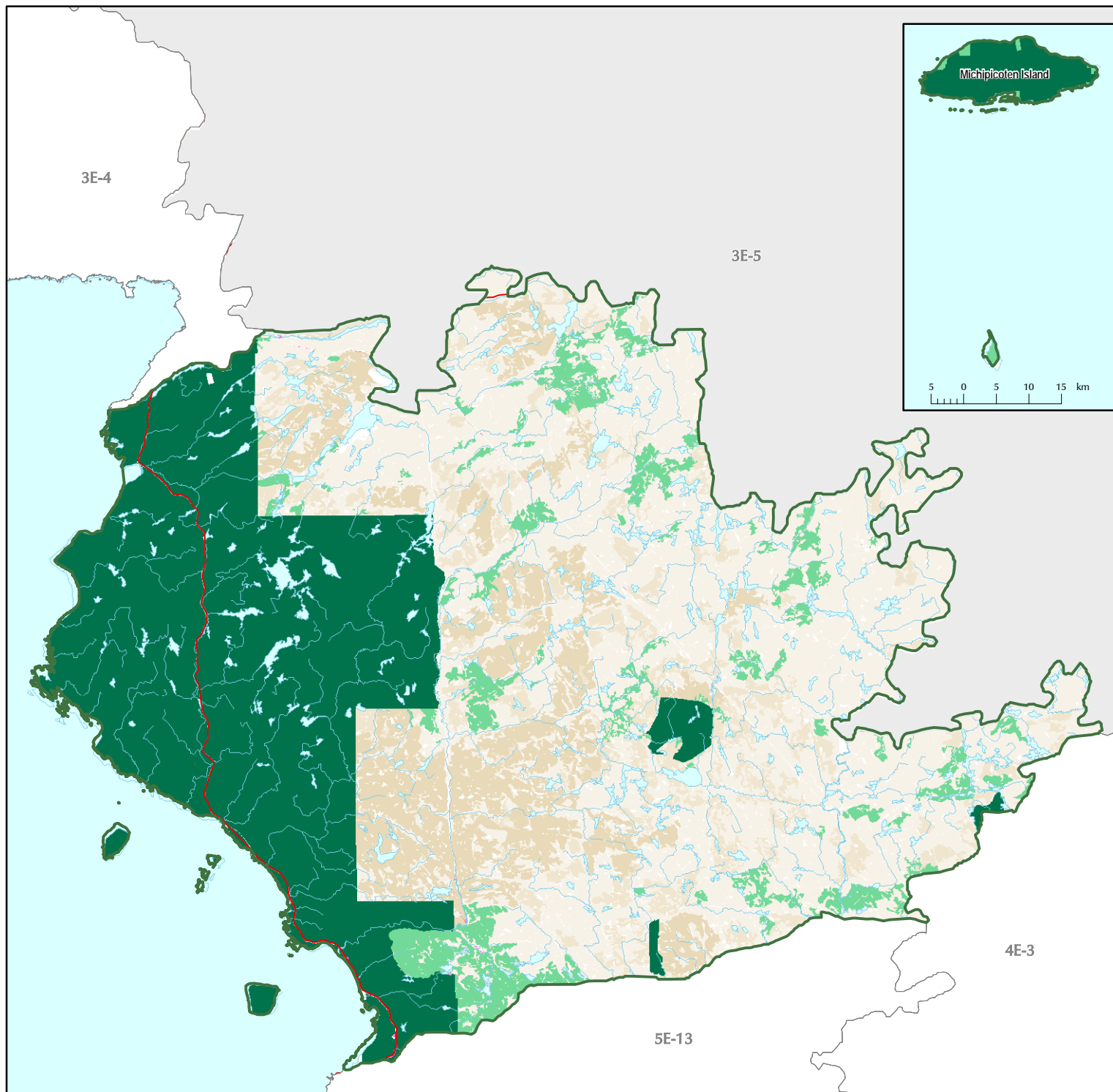
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MICHIPICOTEN ECODISTRICT 4E-1



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 4E-1

Number of pops in 4E-1	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
2	<i>Carex scirpoidea</i> ssp. <i>scirpoidea</i>	Sedge	G5T4T5	S5			disjunct	0	100	0	0	100	2	100	3
1	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	0	100	0	0	100	1	100	3
1	<i>Elymus glaucus</i>	Blue Wild-rye	G5	S1			disjunct	0	0	0	0	0	1	100	3
1	<i>Empetrum nigrum</i>	Black Crowberry	G5	S5			disjunct	0	100	0	0	100	1	100	3
1	<i>Festuca occidentalis</i>	Western Fescue	G5	G4?			disjunct	0	100	0	0	100	1	100	3
4	<i>Galium kamtschaticum</i>	Boreal Bedstraw	G5	S2			disjunct	0	75	0	0	75	4	100	3
1	<i>Leymus mollis</i>	Sea Lyme-grass	G5	S4			disjunct	0	100	0	0	100	1	100	3
2	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	100	0	0	100	2	100	2
3	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	100	0	0	100	3	100	3
2	<i>Polygonum viviparum</i>	Viviparous Knotweed	G5	S5			disjunct	0	100	0	0	100	2	100	3
1	<i>Potamogeton confervoides</i>	Algae-like Pondweed	G4	S2			disjunct	0	0	0	0	0	1	100	3
2	<i>Sagina nodosa</i>	Knotted Pearlwort	G5	S4S5			disjunct	0	100	0	0	100	2	100	3
2	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	100	0	0	100	2	100	3
6	<i>Vaccinium ovalifolium</i>	Blue Bilberry	G5	S2			disjunct	0	83	0	0	83	6	100	3
2	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	100	0	0	100	2	100	3
1	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	100	0	0	100	1	100	3
Liverworts															
1	<i>Diplophyllum taxifolium</i>	A Liverwort	G5	S1S2			disjunct	0	100	0	0	100	1	100	3
Birds															
2	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	50	0	0	50	1	50	secondary
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	100	0	0	100	1	100	secondary
Communities															
2	Acidic Open Bedrock Shoreline Type		G?	S5			high quality	0	100	0	0	100	2	100	secondary
4	American Dun Grass - Beach Pea - Sand Cherry Dune Grassland Type		G3G5	S2			GRank	0	100	0	0	100	4	100	all viable
1	Dry Red Pine - White Pine Coniferous Forest Type		G3G4	S4			GRank	0	100	0	0	100	1	100	all viable
5	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	100	0	0	100	5	100	3
1	Moist - Fresh Sugar Maple - Yellow Birch Deciduous Forest Type		G5?	S5			high quality	0	100	0	0	100	1	100	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

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Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 4E-1

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	10620	60.44	63.39	299577.44	312	4451.06	1.49	25	103.50	0.03	312	4451.06	1.49	424	32156.63	10.73
Target wetlands	2349	0.41	0.43	2039.19	458	566.38	27.77	3	2.94	0.14	458	566.38	27.77	458	568.19	27.86
All ecological systems	66521	100.00	100.00	495682.69	12222	160257.00	32.33	41	115.31	0.02	12222	160257.00	32.33	12293	189583.13	38.25

Ecological systems details for Ecodistrict 4E-1

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	491	3.03	3.18	15,040.44	17	85.00	0.57				17	85.00	0.57	20	1,467.25	9.76
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	8	0.01	0.01	41.00												
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	4	0.01	0.01	38.56												
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	122	0.26	0.27	1,281.88										3	92.69	7.23
Aspen on organic deposits (peat, muck and marl)	19	0.03	0.03	163.19										3	73.94	45.31
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	34	0.09	0.09	433.19										3	144.50	33.36
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1029	6.80	7.14	33,721.38	34	218.94	0.65				34	218.94	0.65	36	1,767.13	5.24
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	46	0.10	0.11	515.19										3	209.31	40.63
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	8	0.01	0.01	66.81										3	45.31	67.82
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	265	0.63	0.67	3,143.00	16	2.81	0.09	2	0.19	0.01	16	2.81	0.09	19	419.75	13.36
White Birch on organic deposits (peat, muck and marl)	23	0.04	0.04	179.81										3	28.56	15.88
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	38	0.08	0.08	394.50										3	100.88	25.57
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1162	7.01	7.35	34,741.69	27	663.06	1.91	2	2.25	0.01	27	663.06	1.91	30	3,638.31	10.47
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	43	0.09	0.09	441.38										3	140.00	31.72
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	23	0.09	0.09	447.25										3	240.50	53.77

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	287	0.91	0.95	4,492.00	12	106.63	2.37	4	7.44	0.17	12	106.63	2.37	15	546.56	12.17
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	31	0.10	0.11	496.81										3	302.75	60.94
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	44	0.07	0.07	338.50	1	0.50	0.15				1	0.50	0.15	3	142.88	42.21
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	691	3.78	3.97	18,757.69	26	250.88	1.34	4	14.06	0.07	26	250.88	1.34	30	1,685.56	8.99
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	16	0.03	0.04	172.63										3	126.19	73.10
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	9	0.02	0.02	111.50										3	56.19	50.39
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	186	0.59	0.62	2,910.81	3	68.31	2.35	2	35.38	1.22	3	68.31	2.35	3	314.06	10.79
Intolerant hardwoods on organic deposits (peat, muck and marl)	26	0.09	0.09	422.56										3	372.38	88.12
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	19	0.05	0.06	263.81										3	148.56	56.31
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	498	1.41	1.47	6,965.50	6	77.56	1.11				6	77.56	1.11	8	241.56	3.47
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	12	0.02	0.02	97.00										3	48.63	50.13
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	9	0.01	0.01	30.56												
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	126	0.20	0.21	992.19	2	6.44	0.65	2	6.44	0.65	2	6.44	0.65	4	75.31	7.59
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	11	0.01	0.01	66.06										3	17.75	26.87
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	25	0.03	0.03	146.44										3	64.06	43.75
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	246	1.08	1.13	5,332.56										4	1,021.88	19.16
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	7	0.01	0.01	50.56										3	11.19	22.13
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	6	0.01	0.01	58.63										3	34.06	58.10
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	115	0.32	0.33	1,574.25										3	468.19	29.74
Jack Pine on organic deposits (peat, muck and marl)	7	0.01	0.01	56.75										3	19.06	33.59
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	12	0.01	0.01	69.31										3	55.19	79.62

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	127	0.73	0.76	3,614.56	12	491.06	13.59				12	491.06	13.59	12	576.69	15.95
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	2	0.00	0.00	14.31												
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	4	0.01	0.01	61.44										2	61.25	99.69
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	41	0.05	0.05	234.56										3	65.38	27.87
Mixed Red and White Pine on organic deposits (peat, muck and marl)	6	0.01	0.01	61.44										3	51.50	83.83
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	4	0.00	0.00	8.50	1	0.75	8.82				1	0.75	8.82	1	0.75	8.82
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1040	4.20	4.41	20,842.38	16	143.56	0.69				16	143.56	0.69	19	1,403.00	6.73
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	48	0.10	0.11	516.31										3	195.63	37.89
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	11	0.02	0.02	98.81										3	57.94	58.63
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	274	0.88	0.92	4,361.44										3	1,180.75	27.07
Lowland Black Spruce on organic deposits (peat, muck and marl)	25	0.06	0.07	313.06										3	66.25	21.16
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	79	0.20	0.21	1,009.06										3	452.63	44.86
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1528	5.13	5.38	25,427.44	44	276.06	1.09	5	10.94	0.04	44	276.06	1.09	45	590.44	2.32
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	60	0.07	0.08	358.00										3	63.06	17.62
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	32	0.03	0.03	144.19										3	21.31	14.78
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	316	0.56	0.58	2,752.81	8	60.00	2.18	3	23.69	0.86	8	60.00	2.18	11	485.56	17.64
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	22	0.03	0.03	128.25										3	28.44	22.17
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	86	0.17	0.18	833.81										3	154.38	18.51
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	946	20.12	21.10	99,712.00	76	1,915.50	1.92	1	3.13	0.00	76	1,915.50	1.92	40	11,168.06	11.20
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	39	0.27	0.28	1,326.88	2	0.13	0.01				2	0.13	0.01	3	613.94	46.27

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	22	0.10	0.10	489.75										3	236.00	48.19
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	147	0.48	0.50	2,377.19	8	83.56	3.52				8	83.56	3.52	10	253.50	10.66
Tolerant hardwoods on organic deposits (peat, muck and marl)	14	0.02	0.02	116.50										3	82.88	71.14
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	49	0.15	0.15	719.38	1	0.31	0.04				1	0.31	0.04	4	227.19	31.58
WETLANDS																
Open Bog	353	0.04	0.04	177.06	121	28.13	15.88				121	28.13	15.88	121	29.94	16.91
Open Fen	14	0.00	0.00	8.81												
Treed Bog	1982	0.37	0.39	1,853.31	337	538.25	29.04	3	2.94	0.16	337	538.25	29.04	337	538.25	29.04
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	5	0.01	0.01	27.94												
White Birch on unknown bedrock	15	0.06	0.06	306.50												
Coniferous Forest on unknown bedrock	67	0.06	0.06	280.94	49	278.63	99.18				49	278.63	99.18	49	278.63	99.18
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	8541	1.91	2.01	9,489.13	1947	7,405.44	78.04				1947	7,405.44	78.04	1947	7,405.44	78.04
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	182	0.09	0.09	425.75	72	394.31	92.62				72	394.31	92.62	72	394.31	92.62
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	88	0.01	0.01	51.25	10	19.56	38.17				10	19.56	38.17	10	19.56	38.17
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1038	0.18	0.18	868.00	150	462.31	53.26				150	462.31	53.26	150	462.31	53.26
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	103	0.11	0.11	531.25	110	515.81	97.09				110	515.81	97.09	110	515.81	97.09
Coniferous Forest on organic deposits (peat, muck and marl)	90	0.01	0.01	56.06	19	23.00	41.03				19	23.00	41.03	19	23.00	41.03
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	311	0.11	0.12	558.44	167	532.81	95.41				167	532.81	95.41	168	532.88	95.42
Deciduous Forest on unknown bedrock	54	0.04	0.04	196.38	37	168.44	85.77				37	168.44	85.77	37	168.44	85.77
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	9246	12.48	13.09	61,848.88	2015	57,823.13	93.49				2015	57,823.13	93.49	2015	57,823.13	93.49
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	224	0.29	0.30	1,423.69	111	1,379.38	96.89				111	1,379.38	96.89	111	1,379.38	96.89
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	110	0.10	0.11	507.94	21	450.44	88.68				21	450.44	88.68	21	450.44	88.68

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	625	0.78	0.82	3,862.31	198	3,651.75	94.55	1	0.06	0.00	198	3,651.75	94.55	198	3,651.75	94.55
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	65	0.08	0.09	404.56	65	404.56	100.00				65	404.56	100.00	65	404.56	100.00
Deciduous Forest on organic deposits (peat, muck and marl)	56	0.04	0.05	214.75	6	190.56	88.74				6	190.56	88.74	6	190.56	88.74
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	323	0.65	0.68	3,229.94	242	3,181.56	98.50				242	3,181.56	98.50	242	3,181.56	98.50
Upland hardwood and mixed conifer on unknown bedrock	7	0.02	0.02	92.06	1	12.81	13.92				1	12.81	13.92	1	12.81	13.92
Intolerant hardwoods on unknown bedrock	3	0.01	0.01	64.94												
Mixed Forest on unknown bedrock	73	0.17	0.18	857.88	32	823.63	96.01				32	823.63	96.01	32	823.63	96.01
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	12715	9.27	9.73	45,973.25	2846	41,478.69	90.22				2846	41,478.69	90.22	2846	41,478.69	90.22
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	306	0.25	0.26	1,234.63	165	1,170.56	94.81				165	1,170.56	94.81	165	1,170.56	94.81
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	114	0.04	0.05	219.50	23	165.00	75.17				23	165.00	75.17	23	165.00	75.17
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	861	0.50	0.52	2,459.13	306	2,169.75	88.23	1	0.06	0.00	306	2,169.75	88.23	306	2,169.75	88.23
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	82	0.30	0.32	1,495.94	128	1,458.69	97.51				128	1,458.69	97.51	128	1,458.69	97.51
Mixed forest on organic deposits (peat, muck and marl)	68	0.02	0.02	90.25	23	71.88	79.64				23	71.88	79.64	23	71.88	79.64
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	515	0.40	0.42	1,980.50	371	1,929.63	97.43				371	1,929.63	97.43	371	1,929.63	97.43
Mixed Lowland Conifer on unknown bedrock	2	0.00	0.00	8.63												
Jack Pine on unknown bedrock	1	0.00	0.00	0.06												
Mixed Red and White Pine on unknown bedrock	2	0.01	0.01	44.38												
Lowland Black Spruce on unknown bedrock	1	0.00	0.00	1.19												
Mixed Spruce and Pine on unknown bedrock	1	0.01	0.01	54.94	3	23.63	43.00				3	23.63	43.00	3	23.63	43.00
Tolerant hardwoods on unknown bedrock	17	0.04	0.05	215.31	2	72.94	33.88				2	72.94	33.88	2	72.94	33.88
WETLANDS																
Open Muskeg	6842	1.22	1.28	6,027.19	128	111.69	1.85	2	4.63	0.08	128	111.69	1.85	129	111.75	1.85
Treed Muskeg	730	0.22	0.23	1,100.19	6	6.44	0.59	4	1.75	0.16	6	6.44	0.59	8	6.56	0.60
OTHER LANDCOVER																
Barren & Scattered	2068	0.54		2,695.00	334	2,153.13	79.89				334	2,153.13	79.89	334	2,153.13	79.89
Brush and Alder	1652	0.90	0.94	4,444.94	28	13.19	0.30				28	13.19	0.30	28	13.19	0.30

Ecological System	# of Patches in 4E-1	% of Total Area (ha) in 4E-1	% of Total Natural Cover in 4E-1	Total Area (ha) in 4E-1	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
OTHER LANDCOVER continued																
Grass & Meadow	4	0.00		0.25												
Rock	556	0.23	0.24	1,127.44	376	753.88	66.87				376	753.88	66.87	376	753.88	66.87
Unclassified	19	3.90		19,319.63	63	17,700.50	91.62				63	17,700.50	91.62	18	19,319.00	100.00
Water	5594	3.88	4.07	19,212.00	1269	7,356.50	38.29	5	2.38	0.01	1269	7,356.50	38.29	1269	7,356.50	38.29
Anthropogenic Land Types																
Settlement and Developed Land	176	0.21		1,063.19	129	885.38	83.28				129	885.38	83.28	129	885.38	83.28

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Mississagi

Ecodistrict 4E-3

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 2,267,027 hectares (5,601,946 acres)

Land Ownership: 3% private, 97% Crown

Planning Authority: 50% Algoma District, 45% Sudbury District, 5% City of Greater Sudbury

Physiography:

The ecodistrict is largely underlain by undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. Gently rolling plains of stony sandy till occur over the bedrock. Glaciofluvial deposits are scattered throughout and there are frequent flats and local kame and esker ridges of sand. The northern boundary of 4E-3 generally follows the extent of continuous ground moraine (with southern-flowing river valleys and end moraines) as it meets the large glaciolacustrine deposits of 3E-5.

Remaining Natural Cover:

Almost all of the ecodistrict remains as natural cover, primarily forest. The vegetated cover is largely composed of upland hardwoods and mixed conifer complexes (18%), and mixed spruce and pine complexes (16%). Tolerant hardwoods and intolerant hardwoods account for another 9% and 8%, primarily in the outer portions of 4E-3. Jack Pine, and mixed Red Pine and White Pine occur throughout the interior. Four percent of the remaining vegetation cover is wetland, over half of it open muskeg. Nearly 8% of 4E-3 is open water.

Land Use:

Approximately 34 hectares of 4E-3 have been converted to developed agricultural lands, and 357 hectares are devoted to settlement and other associated developed lands.



Protection and Conservation:

Conservation lands make up approximately 13% of Ecodistrict 4E-3 (301,948 ha). Provincially protected areas account for nearly all of this land (301,892 ha). The remainder of the conservation lands are provincially significant life science ANSIs (2,269 ha), of which 622 hectares coincide with provincial parks and 778 hectares coincide with conservation reserves. Over half of all occurrences of species and vegetation community targets in 4E-3 are within provincially protected areas.

Species and Vegetation Community Targets:

Half of the 10 targeted species occurring in 4E-3 are plants. Four of the five plant targets occur as disjuncts to the Great Lakes ecoregion. Four targets have been designated as species at risk, including the provincially Endangered Bald Eagle (*Haliaeetus leucocephalus*). There are no documented rare or high-quality representative vegetation communities from 4E-3 at this time.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 4E-3 includes approximately 14% of all naturally vegetated cover, and 60% of all occurrences of species and vegetation community targets.

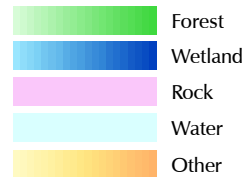
Great Lakes Conservation Blueprint for Biodiversity

MISSISSAGI ECODISTRICT 4E-3

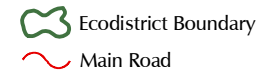
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Ecological Systems



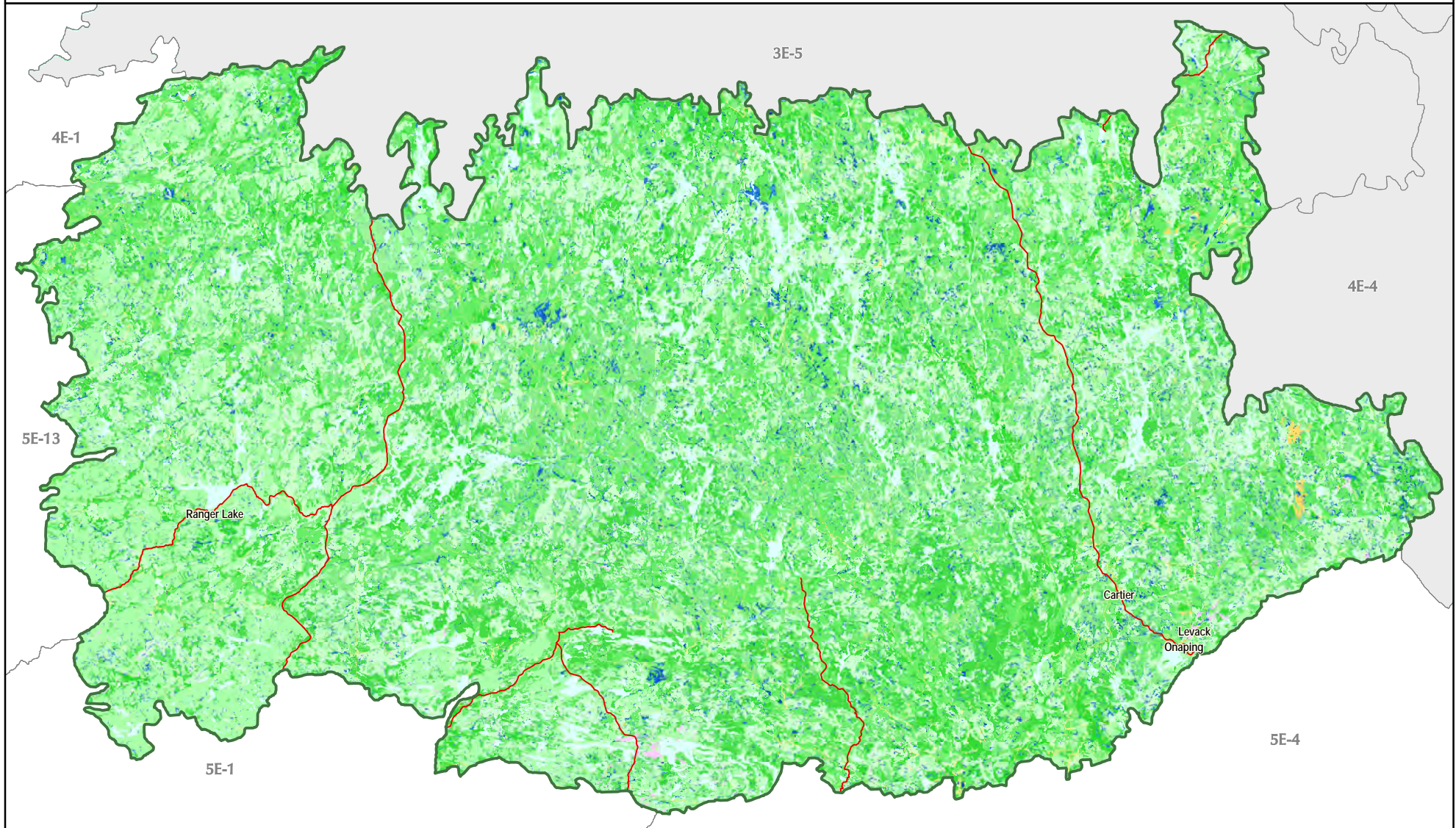
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

MISSISSAGI ECODISTRICT 4E-3

10 0 10 20 30 km



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

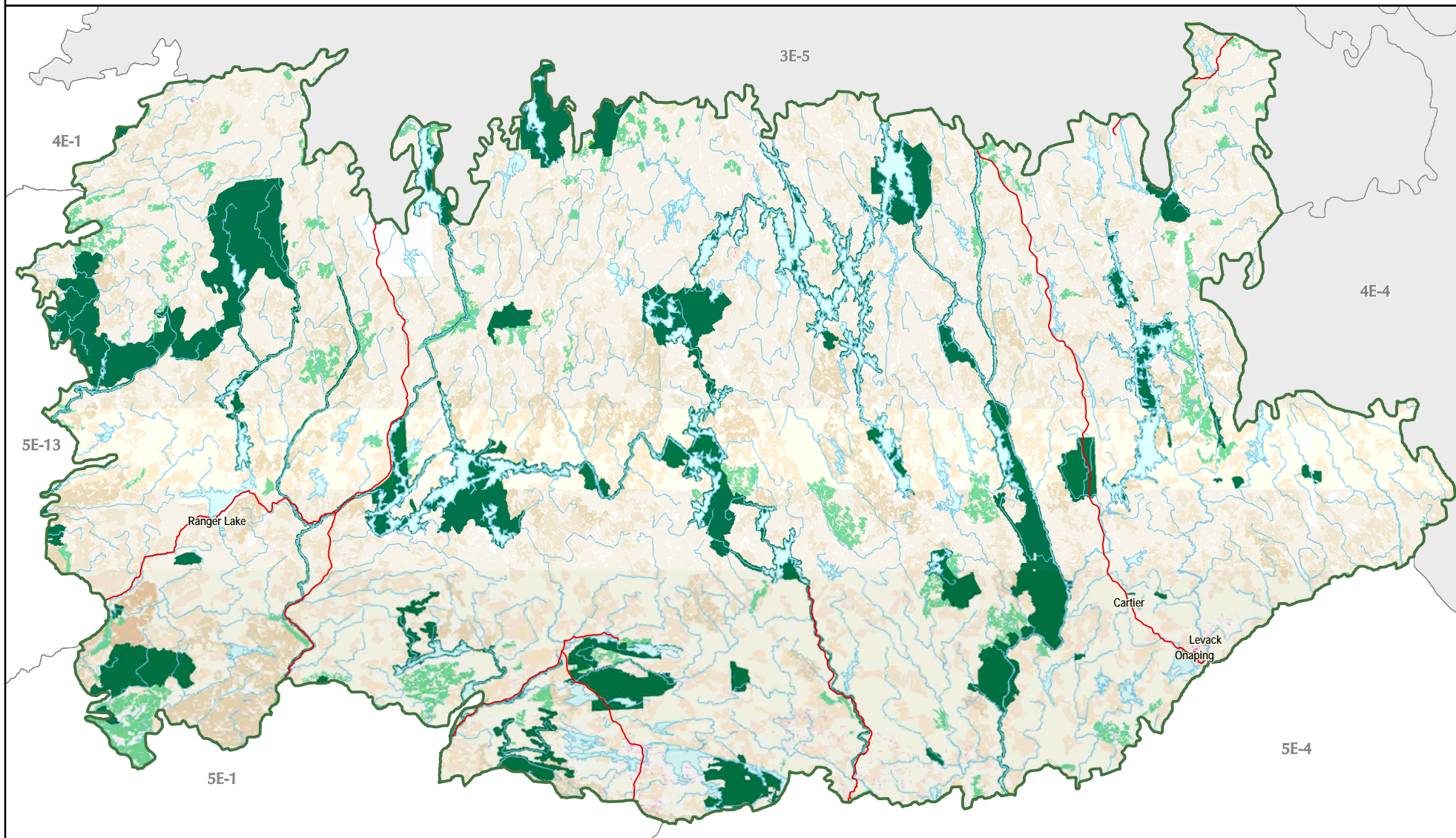
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant species targets in Ecodistrict 4E-3

Number of pops in 4E-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSis	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Juncus subtilis</i>	Creeping Rush	G3	S3			GRank	0	0	0	0	0	1	100	2
1	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	100	0	0	100	1	100	3
1	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	100	0	0	100	1	100	3
Birds															
5	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	40	20	0	40	2	40	secondary
1	<i>Ixobrychus exilis</i>	Least Bittern	G5	S3B,SZN	THR	THR	SAR	0	0	0	0	0	0	0	secondary
Reptiles															
2	<i>Glyptemys insculpta</i>	Wood Turtle	G4	S2	SC	END	SAR	0	50	0	0	50	1	50	secondary
1	<i>Graptemys geographica</i>	Northern Map Turtle	G5	S3	SC	SC	SAR	0	0	0	0	0	0	0	secondary
Odonata															
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	100	0	0	100	1	100	4

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 4E-3

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	76867	81.98	82.20	1858401.19	15327	196008.63	10.55	167	2017.50	0.11	15332	196064.13	10.55	15359	257356.25	13.85
Target wetlands	10092	0.82	0.82	18576.19	1112	1990.69	10.72	3	0.88	0.00	1112	1990.69	10.72	1113	2392.63	12.88
All ecological systems	418298	100.00	100.00	2267028.75	77062	301891.63	13.32	384	2268.81	0.10	77070	301947.63	13.32	77102	363658.31	16.04

Ecological systems details for Ecodistrict 4E-3

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	#of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3925	4.41	4.42	99,964.31	924	12,455.38	12.46	1	5.94	0.01	924	12,455.38	12.46	909	13,949.00	13.95
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.00	0.00	87.25	1	14.44	16.55				1	14.44	16.55	4	81.94	93.91
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	83	0.06	0.06	1,335.44	11	120.19	9.00				11	120.19	9.00	14	252.19	18.88
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1184	0.78	0.79	17,749.50	290	2,128.81	11.99				290	2,128.81	11.99	293	4,297.31	24.21
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	261	0.19	0.19	4,348.06	33	476.69	10.96	7	226.38	5.21	33	476.69	10.96	30	665.63	15.31
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2	0.00	0.00	2.50										2	2.50	100.00
Aspen on organic deposits (peat, muck and marl)	111	0.07	0.07	1,491.50	16	114.13	7.65				16	114.13	7.65	19	207.31	13.90
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	119	0.08	0.08	1,776.44	17	69.94	3.94				17	69.94	3.94	20	464.75	26.16
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3410	4.13	4.14	93,685.31	777	13,646.63	14.57	9	133.75	0.14	777	13,646.63	14.57	775	15,909.50	16.98
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	9	0.00	0.00	27.69	1	10.00	36.12				1	10.00	36.12	1	10.00	36.12
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	114	0.07	0.07	1,649.31	12	79.31	4.81	1	1.63	0.10	13	80.94	4.91	19	620.44	37.62
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	812	0.51	0.51	11,622.13	153	1,073.19	9.23	4	3.31	0.03	156	1,075.81	9.26	162	1,912.19	16.45
White Birch on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	136	0.08	0.08	1,725.00	27	436.19	25.29	4	98.81	5.73	27	436.19	25.29	27	436.19	25.29
White Birch on organic deposits (peat, muck and marl)	108	0.04	0.04	1,015.63	25	102.25	10.07				25	102.25	10.07	24	196.81	19.38
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	157	0.13	0.13	2,941.81	59	449.38	15.28	4	7.56	0.26	60	456.38	15.51	63	893.75	30.38
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	10350	14.96	15.01	339,247.56	2400	35,838.69	10.56	17	299.31	0.09	2400	35,838.69	10.56	2397	39,241.75	11.57
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	11	0.01	0.01	169.81	1	12.75	7.51				1	12.75	7.51	3	148.44	87.41
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	173	0.10	0.10	2,362.88	32	325.75	13.79				32	325.75	13.79	31	445.13	18.84
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2688	1.69	1.70	38,339.00	484	4,010.50	10.46	7	43.13	0.11	484	4,010.50	10.46	485	4,355.88	11.36
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	353	0.20	0.20	4,464.38	35	481.00	10.77	7	90.88	2.04	35	481.00	10.77	36	768.88	17.22
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1	0.00	0.00	1.31												
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	411	0.25	0.25	5,600.38	84	772.25	13.79				84	772.25	13.79	85	1,343.63	23.99

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	423	0.33	0.33	7,569.63	97	1,085.19	14.34	4	56.19	0.74	97	1,087.31	14.36	99	1,554.88	20.54
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4847	6.71	6.73	152,044.38	1118	18,297.88	12.03	4	80.19	0.05	1118	18,297.88	12.03	1122	19,527.06	12.84
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	9	0.01	0.01	177.00										3	133.31	75.32
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	105	0.07	0.07	1,486.25	11	211.13	14.21				11	211.13	14.21	16	447.06	30.08
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1184	0.86	0.86	19,418.13	215	1,626.50	8.38	5	37.69	0.19	215	1,626.50	8.38	218	2,472.94	12.74
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	215	0.12	0.12	2,782.44	18	233.25	8.38	1	15.00	0.54	18	233.25	8.38	20	594.69	21.37
Intolerant hardwoods on organic deposits (peat, muck and marl)	123	0.06	0.06	1,317.00	19	162.56					19	162.56	12.34	18	232.13	17.63
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	220	0.17	0.17	3,810.25	39	265.50	6.97				39	265.50	6.97	42	959.38	25.18
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2676	1.17	1.18	26,617.81	360	2,242.31	8.42	7	18.06	0.07	360	2,242.31	8.42	362	2,897.38	10.89
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	2	0.00	0.00	9.63												
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	78	0.02	0.02	345.69	7	69.75	20.18	1	19.69	5.70	7	69.75	20.18	7	69.75	20.18
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	697	0.20	0.20	4,611.44	98	468.94	10.17	5	58.25	1.26	98	468.94	10.17	99	519.81	11.27
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	171	0.10	0.10	2,230.94	23	507.19	22.73	6	266.81	11.96	23	507.19	22.73	21	703.06	31.51
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	143	0.06	0.06	1,360.63	17	209.69	15.41				17	209.69	15.41	19	334.56	24.59
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	162	0.05	0.05	1,081.75	26	123.19	11.39	2	8.69	0.80	27	128.81	11.91	27	159.44	14.74
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5683	7.56	7.58	171,314.00	1000	8,604.13	5.02				1000	8,604.13	5.02	1007	14,422.31	8.42
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	13	0.02	0.02	417.44	11	184.69	44.24				11	184.69	44.24	8	393.50	94.27
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	87	0.06	0.06	1,449.31	11	106.13	7.32				11	106.13	7.32	14	588.75	40.62
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	87	1.43	1.43	32,348.25	355	2,217.81	6.86				355	2,217.81	6.86	352	3,672.94	11.35
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	316	0.23	0.23	5,246.06	17	69.38	1.32				17	69.38	1.32	20	974.25	18.57
Jack Pine on organic deposits (peat, muck and marl)	217	0.15	0.15	3,302.00	18	85.50	2.59				18	85.50	2.59	17	168.19	5.09
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	187	0.16	0.16	3,635.19	34	140.50	3.87				34	140.50	3.87	36	662.69	18.23
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3395	4.94	4.95	111,938.63	1044	22,475.25	20.08	6	37.44	0.03	1044	22,475.25	20.08	1016	26,644.75	23.80
Mixed Red and White Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	11	0.00	0.00	96.69	1	5.44	5.62				1	5.44	5.62	3	72.69	75.18
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	45	0.03	0.03	611.38	11	190.06	31.09				11	190.06	31.09	11	190.06	31.09
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	900	0.56	0.57	12,795.25	253	3,144.81	24.58	1	3.19	0.02	254	3,148.00	24.60	255	3,742.19	29.25
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	8	0.00	0.00	37.31												
Mixed Red and White Pine on organic deposits (peat, muck and marl)	90	0.04	0.04	871.44	31	350.75	40.25				31	350.75	40.25	32	410.25	47.08
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	166	0.11	0.11	2,574.19	51	985.44	38.28	11	38.19	1.48	52	998.69	38.80	50	1,425.56	55.38
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5170	2.51	2.52	56,864.50	645	4,588.56	8.07	3	0.63	0.00	645	4,588.56	8.07	644	6,094.31	10.72
Lowland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	1.00	1	0.75	75.00				1	0.75	75.00	1	0.75	75.00

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	68	0.02	0.02	506.38	9	36.00	7.11				9	36.00	7.11	11	126.56	24.99
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	930	0.30	0.30	6,737.19	112	543.50	8.07	2	2.88	0.04	112	543.50	8.07	112	896.69	13.31
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	436	0.29	0.29	6,474.13	26	581.75	8.99	2	6.94	0.11	26	581.75	8.99	27	892.94	13.79
Lowland Black Spruce on organic deposits (peat, muck and marl)	243	0.12	0.12	2,631.44	60	425.94	16.19				60	425.94	16.19	61	923.06	35.08
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	213	0.06	0.06	1,272.00	16	34.50	2.71				16	34.50	2.71	17	196.88	15.48
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	13045	13.75	13.79	311,818.81	2356	25,719.63	8.25	16	92.88	0.03	2354	25,722.31	8.25	2345	32,018.00	10.27
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	25	0.01	0.01	316.94	12	57.44	18.12				12	57.44	18.12	12	240.69	75.94
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	223	0.11	0.11	2,536.31	36	245.38	9.67	1	0.06	0.00	37	245.44	9.68	41	735.25	28.99
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3101	1.58	1.58	35,832.31	492	3,501.19	9.77	6	16.88	0.05	494	3,504.06	9.78	497	4,168.69	11.63
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	509	0.30	0.31	6,902.38	23	300.69	4.36	6	59.50	0.86	23	300.69	4.36	26	1,101.25	15.95
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	570	0.25	0.25	5,637.44	78	524.06	9.30				78	524.06	9.30	74	967.38	17.16
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	586	0.26	0.26	5,804.50	92	571.50	9.85	5	23.25	0.40	88	583.38	10.05	88	1,343.13	23.14
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3627	7.92	7.95	179,624.56	835	19,329.81	10.76	7	246.19	0.14	835	19,332.38	10.76	837	29,630.88	16.50
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	7	0.04	0.04	896.69	2	27.25	3.04				2	27.25	3.04	4	878.00	97.92
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	69	0.06	0.06	1,404.13	14	80.81	5.76				14	80.81	5.76	10	522.63	37.22
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	956	0.95	0.95	21,546.44	155	1,271.63	5.90	3	6.50	0.03	155	1,271.63	5.90	158	3,270.56	15.18
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	58	0.07	0.07	1,543.38	11	227.94	14.77	2	11.75	0.76	11	227.94	14.77	12	419.63	27.19
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1	0.00	0.00	28.25										1	28.25	100.00
Tolerant hardwoods on organic deposits (peat, muck and marl)	121	0.09	0.09	1,979.50	36	543.06	27.43				36	543.06	27.43	36	723.19	36.53
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	220	0.31	0.31	6,935.69	49	716.88	10.34				49	716.88	10.34	52	2,000.81	28.85
WETLANDS																
Open Bog	1170	0.09	0.09	2,073.69	177	252.00	12.15				177	252.00	12.15	176	304.00	14.66
Open Fen	1	0.00	0.00	3.81												
Treed Bog	8799	0.71	0.72	16,166.31	931	1,726.38	10.68	3	0.88	0.01	931	1,726.38	10.68	932	2,063.19	12.76
Treed Fen	122	0.01	0.01	332.38	4	12.31	3.70				4	12.31	3.70	5	25.44	7.65
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	264	0.16	0.16	3,708.81	226	2,293.13	61.83	1	44.00	1.19	226	2,293.13	61.83	226	2,293.13	61.83
White Birch on unknown bedrock	267	0.13	0.13	2,940.94	193	1,437.19	48.87	1	16.94	0.58	193	1,437.19	48.87	193	1,437.19	48.87
Coniferous Forest on unknown bedrock	1587	0.02	0.02	477.81	1197	378.88	79.29	1	0.06	0.01	1197	378.88	79.29	1197	378.88	79.29

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	68566	0.79	0.79	17,851.19	10466	2,489.00	13.94	36	3.44	0.02	10466	2,489.00	13.94	10466	2,489.00	13.94
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	118	0.00	0.00	22.13	110	19.69	88.98				110	19.69	88.98	110	19.69	88.98
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	383	0.01	0.01	153.44	50	12.94	8.43				50	12.94	8.43	50	12.94	8.43
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	8310	0.09	0.09	2,114.56	1677	365.75	17.30	1	0.06	0.00	1677	365.75	17.30	1677	365.75	17.30
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	677	0.01	0.01	208.06	126	57.44	27.61	14	1.56	0.75	126	57.44	27.61	126	57.44	27.61
Coniferous Forest on organic deposits (peat, muck and marl)	1630	0.01	0.01	242.81	431	58.13	23.94				431	58.13	23.94	431	58.13	23.94
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1504	0.02	0.02	353.38	324	80.94	22.90	1	0.06	0.02	325	81.00	22.92	325	81.00	22.92
Deciduous Forest on unknown bedrock	1459	0.02	0.02	426.63	1073	279.81	65.59				1073	279.81	65.59	1073	279.81	65.59
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	28059	0.38	0.39	8,714.75	5335	1,227.88	14.09	9	0.69	0.01	5335	1,227.88	14.09	5335	1,227.88	14.09
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	16	0.00	0.00	4.94	2	0.13	2.53				2	0.13	2.53	2	0.13	2.53
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	189	0.01	0.01	300.19	36	14.13	4.71				36	14.13	4.71	36	14.13	4.71
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3242	0.07	0.07	1,688.00	678	223.94	13.27				678	223.94	13.27	678	223.94	13.27
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	307	0.01	0.01	141.00	77	27.81	19.73	4	0.25	0.18	77	27.81	19.73	77	27.81	19.73
Deciduous Forest on organic deposits (peat, muck and marl)	283	0.00	0.00	77.31	90	30.13	38.97				90	30.13	38.97	90	30.13	38.97
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	612	0.01	0.01	125.44	93	22.56	17.99				93	22.56	17.99	93	22.56	17.99
Upland hardwood and mixed conifer on unknown bedrock	580	0.34	0.34	7,675.25	461	4,618.75	60.18	4	73.81	0.96	461	4,618.75	60.18	461	4,618.75	60.18
Intolerant hardwoods on unknown bedrock	300	0.17	0.17	3,825.69	203	1,942.94	50.79				203	1,942.94	50.79	203	1,942.94	50.79
Mixed Forest on unknown bedrock	3543	0.05	0.05	1,047.94	2775	808.25	77.13	4	0.44	0.04	2775	808.25	77.13	2775	808.25	77.13
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	66800	1.04	1.04	23,534.19	14013	4,065.69	17.28	17	2.44	0.01	14013	4,065.69	17.28	14013	4,065.69	17.28
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	48	0.00	0.00	10.81	23	3.56	32.95				23	3.56	32.95	23	3.56	32.95
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	471	0.02	0.02	537.19	97	40.13	7.47				97	40.13	7.47	97	40.13	7.47
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	6669	0.10	0.10	2,247.88	1493	440.50	19.60	1	0.06	0.00	1493	440.50	19.60	1493	440.50	19.60
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	788	0.01	0.01	332.31	149	52.88	15.91	11	0.81	0.24	149	52.88	15.91	149	52.88	15.91
Mixed forest on organic deposits (peat, muck and marl)	745	0.01	0.01	160.94	221	39.69	24.66				221	39.69	24.66	221	39.69	24.66
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1516	0.01	0.01	318.56	388	84.50	26.53				388	84.50	26.53	388	84.50	26.53
Mixed Lowland Conifer on unknown bedrock	62	0.01	0.01	262.50	36	116.94	44.55	7	19.81	7.55	36	116.94	44.55	36	116.94	44.55
Jack Pine on unknown bedrock	172	0.10	0.10	2,199.88	180	567.06	25.78				180	567.06	25.78	180	567.06	25.78
Mixed Red and White Pine on unknown bedrock	168	0.09	0.09	2,044.31	117	952.13	46.57				117	952.13	46.57	117	952.13	46.57
Lowland Black Spruce on unknown bedrock	150	0.02	0.02	526.00	93	211.88	40.28				93	211.88	40.28	93	211.88	40.28
Mixed Spruce and Pine on unknown bedrock	562	0.23	0.23	5,226.38	425	3,223.00	61.67	8	19.31	0.37	425	3,223.00	61.67	425	3,223.00	61.67
Tolerant hardwoods on unknown bedrock	140	0.15	0.15	3,418.81	31	344.06	10.06				31	344.06	10.06	31	344.06	10.06

Ecological System	# of Patches in 4E-3	% of Total Area (ha) in 4E-3	% of Total Natural Cover in 4E-3	Total Area (ha) in 4E-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
WETLANDS																
Open Muskeg	59859	2.25	2.26	51,039.63	7924	5,821.50	11.41	3	1.50	0.00	7924	5,821.75	11.41	7924	5,821.75	11.41
Treed Muskeg	14061	0.95	0.95	21,502.44	1186	1,615.94	7.52	3	4.25	0.02	1186	1,615.94	7.52	1186	1,615.94	7.52
OTHER LANDCOVER																
Barren & Scattered	9222	0.22		5,035.06	881	219.50	4.36				881	219.50	4.36	883	236.06	4.69
Brush and Alder	16189	1.42	1.42	32,130.25	2109	2,318.19	7.21	32	30.69	0.10	2109	2,318.25	7.22	2110	2,318.31	7.22
Grass & Meadow	60	0.00		21.25	2	0.69	3.24				2	0.69	3.24	2	0.69	3.24
Rock	5984	0.44	0.44	9,902.44	995	1,326.38	13.39				995	1,326.38	13.39	995	1,326.38	13.39
Unclassified (Cloud & Shadow)	852	0.03		749.38	135	87.38	11.66				135	87.38	11.66	136	87.44	11.67
Water	24425	7.78	7.80	176,359.88	4326	65,863.13	37.35	56	30.25	0.02	4328	65,863.25	37.35	4328	65,863.19	37.35
Anthropogenic Land Types																
Developed Agricultural Land	4	0.00		33.75												
Settlement and Developed Land	496	0.02		357.31	176	108.25	30.30				176	108.25	30.30	176	108.25	30.30

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Tip Top Mountain

Ecodistrict 3E-4

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 640,688 hectares (1,583,175 acres)

Land Ownership: 9% private, 61% Crown, 0.7% First Nations lands, 29% National Park

Planning Authority: 75% Thunder Bay District, 25% Algoma

Physiography:

This ecodistrict is predominantly underlain by undifferentiated igneous and metamorphic rock, which is exposed at the surface or covered by a discontinuous, thin layer of drift. Glaciofluvial deposits are scattered throughout 3E-4, particularly along the Pukaskwa River and White River. Fluvial deposits coincide with the rivers of Pukaskwa National Park whose turbulent waters cut through steep-sided valleys. Large deposits of till along White Lake and the Black River dominate the northeastern portion of 3E-4. Glaciolacustrine deposits are represented along the northern boundary in the Black River area and along the rugged Lake Superior shoreline.

Natural Cover:

Virtually the entire ecodistrict remains as natural cover, primarily forest. White birch dominate nearly 18% of the cover, particularly in the valleys. Upland hardwoods and mixed conifers represents nearly 12% of the ecodistrict. Approximately 10% of the natural cover is composed of mixed spruce and pine scattered throughout 3E-4, particularly on higher rocky elevations. Less than 3% of the natural cover is wetland, mainly open muskeg and treed bog.

Land Use:

Approximately 920 hectares are devoted to settlement and other associated developed lands, including the community of Wawa. There are no developed agricultural lands in 3E-4, and very few major roads.

Protection and Conservation:

Conservation lands make up approximately 38% of Ecodistrict 3E-4 (245,143 ha). Pukaskwa National Park represents nearly 3/4 of this land (182,489 ha). The other conservation lands are provincially protected areas,



including the proposed Lake Superior Highlands Conservation Reserve. Nearly two-thirds of all occurrences of rare species and vegetation community targets in 3E-4 are within conservation lands, predominantly Pukaskwa National Park.

Species Targets:

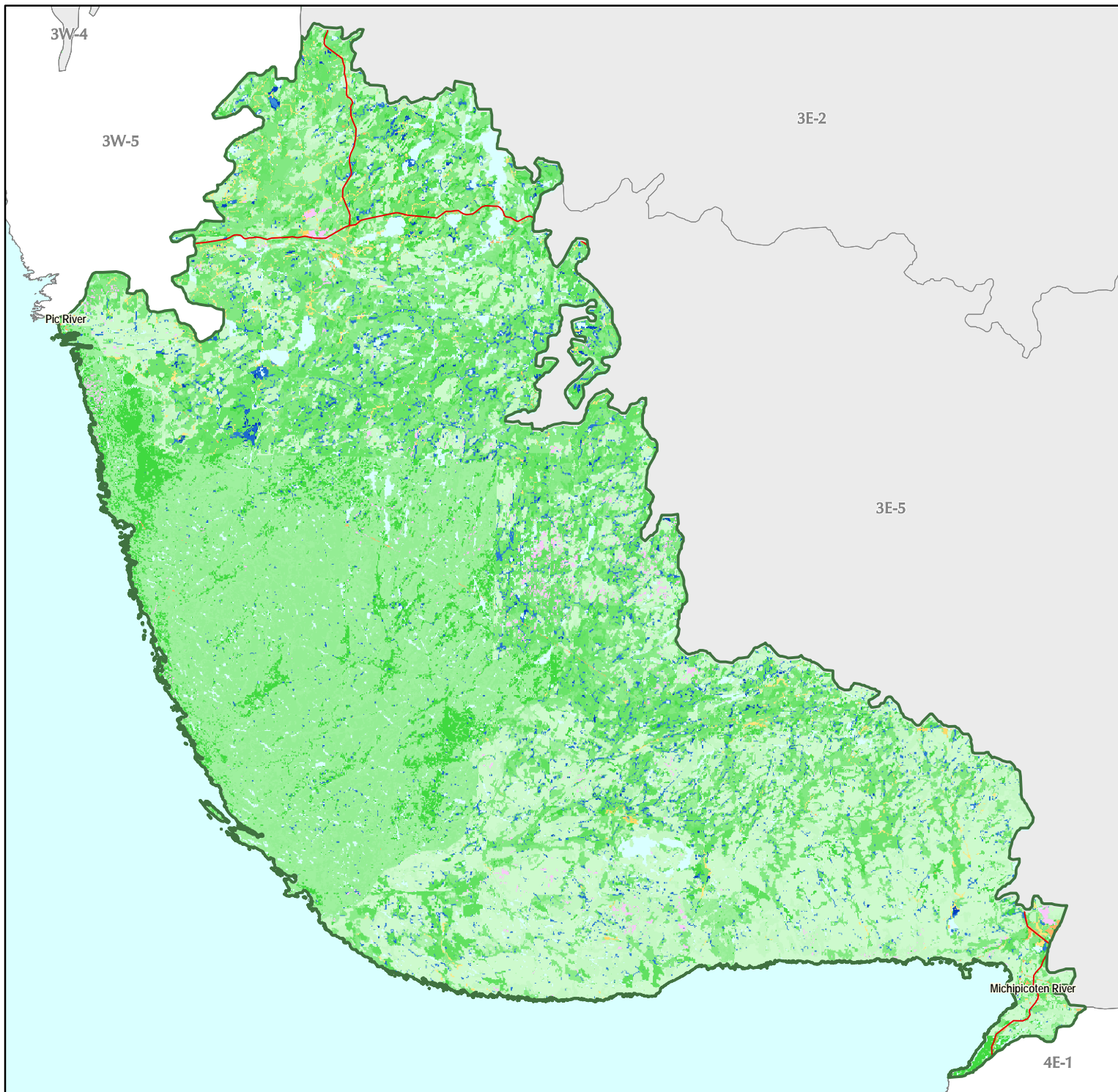
Twenty-eight of the 30 targeted species occurring in Ecodistrict 3E-4 are vascular plants. Two species have species at risk designations including the Endangered Pitcher's Thistle (*Cirsium pitcheri*) which is endemic to the Great Lakes ecoregion. The Bald Eagle (*Haliaeetus leucocephalus*) occurs in 3E-4 and is designated as provincially Endangered. Twenty-four plant species are arctic-alpine disjuncts; these plants occur along the Lake Superior shoreline and are normally found along the shores of Hudson Bay and James Bay.

Vegetation Community Targets:

There are two rare vegetation communities in 3E-4: the globally and provincially rare American Dune Grass - Beach Pea - Sand Cherry Dune Grassland and the provincially rare Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 3E-4 includes approximately 43% of all naturally vegetated cover, and all of the occurrences of rare species and vegetation community targets.

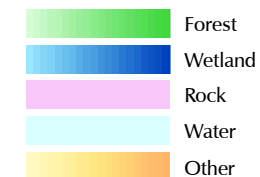


Great Lakes Conservation Blueprint for Biodiversity

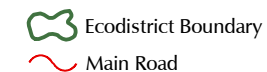
TIP TOP MOUNTAIN ECODISTRICT 3E-4



Ecological Systems



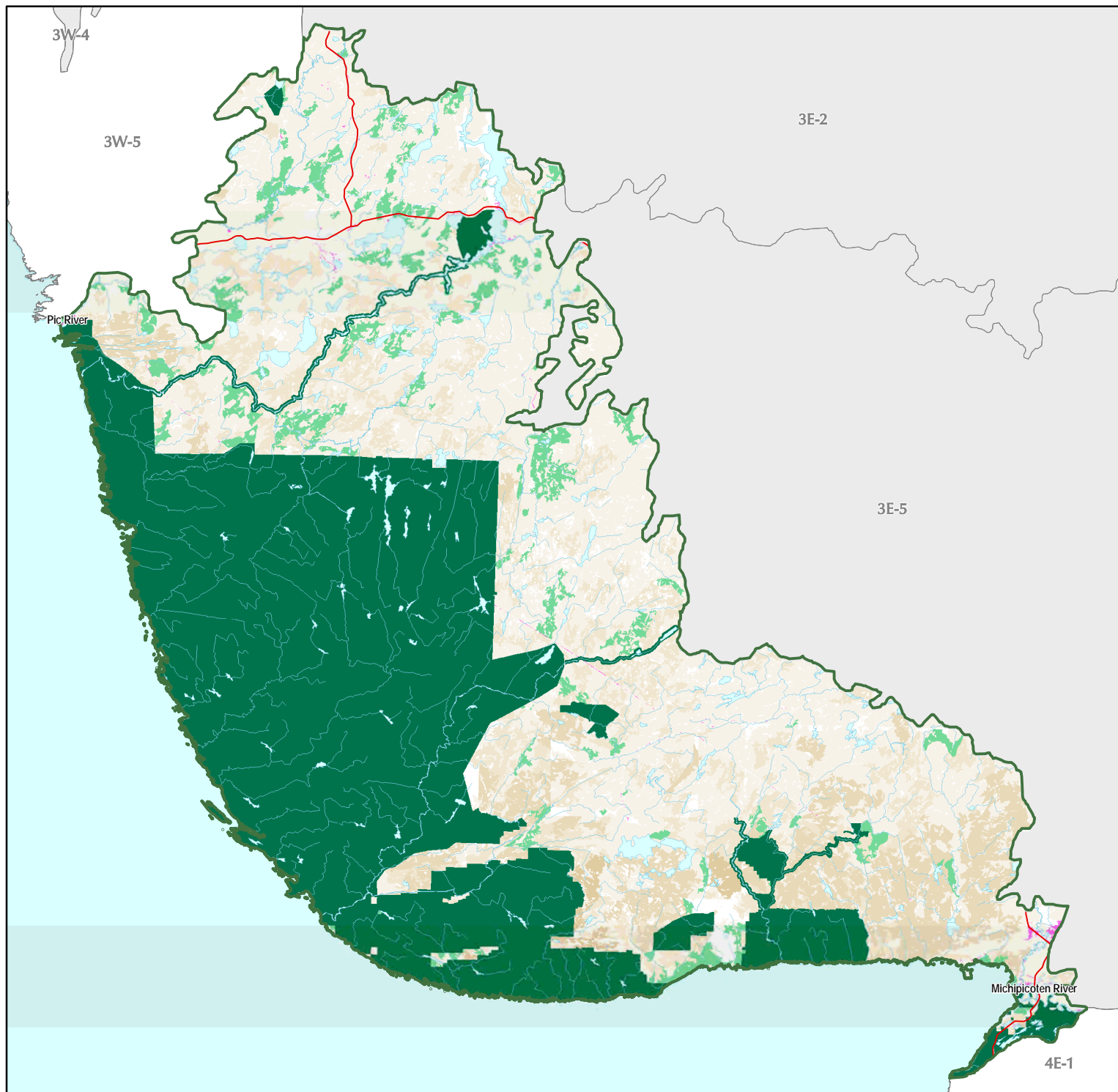
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

TIP TOP MOUNTAIN ECODISTRICT 3E-4



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 3E-4

Number of pops in 3E-4	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS- ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
1	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	100	0	0	0	100	1	100	3
1	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	0	0	0	0	1	100	3
2	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	0	0	0	0	2	100	3
1	<i>Botrychium hesperium</i>	Western Moonwort	G3	S1			GRank disjunct	0	0	0	0	0	1	100	4
1	<i>Botrychium spathulatum</i>	Spoon-leaf Moonwort	G3	S1			GRank	0	0	0	0	0	1	100	2
1	<i>Carex rossii</i>	Ross' Sedge	G5	S2			disjunct	100	0	0	0	100	1	100	3
2	<i>Castilleja septentrionalis</i>	Labrador Indian-paintbrush	G5	S5			disjunct	50	0	0	0	50	2	100	3
1	<i>Cirsium pitcheri</i>	Pitcher's Thistle	G3	S2	END	END	GRank endemic	100	0	0	0	100	1	100	4
1	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	100	0	0	0	100	1	100	3
1	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	0	100	0	0	100	1	100	3
2	<i>Cypripedium passerinum</i>	Sparrow's-egg Lady's-slipper	G4G5	S4			disjunct	50	0	0	0	50	2	100	3
1	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern	G3	S2S3			GRank	0	0	0	0	0	1	100	2
2	<i>Empetrum nigrum</i>	Black Crowberry	G5	S5			disjunct	0	0	0	0	0	2	100	3
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	100	0	0	0	100	1	100	3
1	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	100	0	0	0	100	1	100	3
1	<i>Hedysarum alpinum</i>	Alpine Sweet-vetch	G5	S4S5			disjunct	0	0	0	0	0	1	100	3
6	<i>Leymus mollis</i>	Sea Lyme-grass	G5	S4			disjunct	50	17	0	0	67	6	100	3
1	<i>Listera auriculata</i>	Auricled Twayblade	G3G4	S3			GRank	100	0	0	0	100	1	100	2
1	<i>Listera borealis</i>	Northern Twayblade	G4	SH			disjunct	100	0	0	0	100	1	100	3
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	100	0	0	0	100	1	100	3
3	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	100	0	0	0	100	3	100	3
1	<i>Polygonum viviparum</i>	Viviparous Knotweed	G5	S5			disjunct	100	0	0	0	100	1	100	3
1	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	100	0	0	0	100	1	100	3
1	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	0	0	0	0	1	100	3
2	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	100	0	0	0	100	2	100	3
1	<i>Tofieldia pusilla</i>	Scotch False Asphodel	G5	S5			disjunct	100	0	0	0	100	1	100	3
2	<i>Vaccinium membranaceum</i>	Mountain Bilberry	G5Q	S1			disjunct	100	0	0	0	100	2	100	3
1	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	100	0	0	0	100	1	100	3
Mosses															
1	<i>Splachnum luteum</i>	A Moss	G3	S1			GRank	100	0	0	0	100	1	100	2
Birds															
1	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	100	0	0	100	1	100	secondary
Communities															
4	American Dune Grass - Beach Pea - Sand Cherry Dune Grassland Type		G3G5	S2			GRank	50	0	0	0	50	4	100	all viable
2	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	0	0	0	0	2	100	3

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 3E-4

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conserv at-ion Lands	Total Area (ha) in all Conservation Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	15232	60.92	61.60	390333.56	1765	54618.63	13.99	249	158.06	0.04	1940	54776.69	14.03	2058	80370.25	20.59
Target wetlands	3115	0.78	0.79	4979.06	272	274.00	5.50	726	1180.69	23.71	998	1454.69	29.22	1000	1718.38	34.51
All ecological systems	108110	100.00	100.00	640683.25	11838	62653.88	9.78	18287	182489.13	28.48	30022	245143.00	38.26	30149	271023.81	42.30

Ecological systems details for Ecodistrict 3E-4

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conserv at-ion Lands	Total Area (ha) in all Conservation Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	933	3.43	3.47	21,997.75	163	1,852.94	8.42	4	0.31	0.00	167	1,853.25	8.42	167	3,608.19	16.40
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	26	0.06	0.07	415.50	1	63.88	15.37				1	63.88	15.37	4	118.31	28.47
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	165	0.31	0.31	1,982.13	3	33.88	1.71				3	33.88	1.71	4	805.63	40.64
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	260	0.41	0.41	2,610.75	37	236.25	9.05				37	236.25	9.05	37	654.44	25.07
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	118	0.29	0.30	1,873.50	23	118.31	6.32	1	0.06	0.00	24	118.38	6.32	25	600.94	32.08
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	64	0.18	0.18	1,132.31										6	431.63	38.12
Aspen on organic deposits (peat, muck and marl)	29	0.02	0.02	153.50	1	2.19	1.43				1	2.19	1.43	3	57.44	37.42
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	233	0.49	0.49	3,135.88	15	131.50	4.19				15	131.50	4.19	18	421.31	13.44
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1243	15.61	15.78	100,015.25	216	24,111.56	24.11	76	127.81	0.13	283	24,239.38	24.24	281	25,885.00	25.88
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	30	0.07	0.07	440.81	12	156.63	35.53	13	0.81	0.18	16	157.44	35.72	11	194.25	44.07
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	39	0.06	0.06	392.00	1	6.63	1.69				1	6.63	1.69	4	121.94	31.11
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	295	0.80	0.81	5,123.81	56	963.75	18.81	3	0.19	0.00	59	963.94	18.81	60	1,279.31	24.97
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	113	0.24	0.24	1,530.50	24	128.19	8.38	12	1.19	0.08	25	129.38	8.45	25	129.38	8.45
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	42	0.09	0.09	576.19										3	370.00	64.22
White Birch on organic deposits (peat, muck and marl)	34	0.07	0.07	471.69	5	47.25	10.02				5	47.25	10.02	8	243.19	51.56
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	181	0.78	0.79	5,009.38	3	46.69	0.93	1	8.00	0.16	4	54.69	1.09	7	1,297.44	25.90
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1420	9.18	9.28	58,808.75	231	12,928.25	21.98	22	6.19	0.01	247	12,934.44	21.99	244	13,327.44	22.66
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	44	0.09	0.09	550.81	17	146.50	26.60	5	5.88	1.07	18	152.38	27.66	19	155.56	28.24
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	75	0.14	0.14	899.88	2	17.63	1.96				2	17.63	1.96	4	210.50	23.39

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	349	0.79	0.80	5,047.38	60	646.38	12.81				60	646.38	12.81	60	853.44	16.91
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	149	0.43	0.44	2,763.13	14	300.06	10.86	25	1.69	0.06	14	301.75	10.92	14	301.75	10.92
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	68	0.26	0.26	1,663.06	6	91.25	5.49				6	91.25	5.49	8	846.19	50.88
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	20	0.07	0.07	454.44	2	77.25	17.00				2	77.25	17.00	3	180.69	39.76
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	224	0.71	0.72	4,574.63	7	110.94	2.43				7	110.94	2.43	10	695.31	15.20
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	481	2.33	2.35	14,907.19	104	3,512.56	23.56	19	1.38	0.01	123	3,513.94	23.57	117	3,641.75	24.43
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.02	0.02	99.75	5	14.06	14.10				5	14.06	14.10	8	99.63	99.87
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	44	0.04	0.04	241.19										3	140.88	58.41
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	111	0.24	0.24	1,521.06	12	292.31	19.22	1	0.06	0.00	13	292.38	19.22	14	404.81	26.61
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	26	0.06	0.06	370.38	2	104.75	28.28				2	104.75	28.28	4	139.50	37.66
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	12	0.02	0.02	131.31										3	105.94	80.68
Intolerant hardwoods on organic deposits (peat, muck and marl)	19	0.03	0.03	212.38	2	16.19	7.62				2	16.19	7.62	5	120.00	56.50
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	96	0.23	0.24	1,495.69	4	23.31	1.56				4	23.31	1.56	7	182.69	12.21
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	563	0.83	0.84	5,293.31	41	426.38	8.05				41	426.38	8.05	42	551.38	10.42
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	12	0.01	0.01	69.06	1	7.81	11.31	5	0.31	0.45	1	8.13	11.76	3	41.56	60.18
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	30	0.03	0.03	199.06	1	1.25	0.63				1	1.25	0.63	4	57.25	28.76
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	123	0.15	0.15	962.81	5	11.38	1.18	4	0.25	0.03	9	11.63	1.21	11	70.81	7.35
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	51	0.11	0.11	680.44	1	2.19	0.32	2	0.13	0.02	3	2.31	0.34	5	90.81	13.35
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	22	0.04	0.04	238.94										3	135.19	56.58
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	26	0.04	0.04	264.13										3	149.44	56.58
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	144	0.29	0.29	1,851.81	2	26.56	1.43				2	26.56	1.43	5	351.69	18.99
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	772	3.57	3.61	22,851.56	83	527.00	2.31	3	0.38	0.00	86	527.38	2.31	89	2,748.63	12.03
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	10	0.04	0.04	261.13										3	180.88	69.27
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	121	0.44	0.45	2,825.38										3	924.25	32.71
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	317	0.95	0.96	6,069.63	38	313.63	5.17	2	0.13	0.00	40	313.75	5.17	42	875.75	14.43

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	83	0.27	0.27	1,742.44	6	28.00	1.61				6	28.00	1.61	7	498.69	28.62
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	13	0.01	0.01	56.38										4	29.56	52.44
Jack Pine on organic deposits (peat, muck and marl)	10	0.03	0.03	162.06										3	125.38	77.36
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	81	0.20	0.20	1,297.94	5	35.19	2.71				5	35.19	2.71	8	613.19	47.24
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1	0.00	0.00	13.50												
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1488	3.67	3.71	23,506.00	108	965.19	4.11				108	965.19	4.11	105	2,148.56	9.14
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	39	0.07	0.07	459.44	1	18.50	4.03	2	0.13	0.03	3	18.63	4.05	6	152.50	33.19
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	82	0.14	0.14	871.38										3	205.31	23.56
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	383	0.72	0.72	4,590.88	34	188.19	4.10	3	0.19	0.00	37	188.38	4.10	40	652.19	14.21
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	215	0.55	0.56	3,527.88	11	33.69	0.95				11	33.69	0.95	17	654.38	18.55
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	95	0.21	0.21	1,354.38	10	130.19	9.61				10	130.19	9.61	11	429.19	31.69
Lowland Black Spruce on organic deposits (peat, muck and marl)	71	0.12	0.12	767.44										4	306.00	39.87
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	278	0.60	0.61	3,849.19	7	31.38	0.82				7	31.38	0.82	10	741.31	19.26
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1940	7.44	7.52	47,651.19	261	4,577.88	9.61	8	0.50	0.00	269	4,578.38	9.61	268	6,575.06	13.80
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	46	0.07	0.07	464.75	5	54.94	11.82	14	0.88	0.19	19	55.81	12.01	21	164.13	35.31
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	174	0.21	0.21	1,334.88	5	13.13	0.98				5	13.13	0.98	7	130.25	9.76
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	442	0.88	0.89	5,628.69	46	322.69	5.73	3	0.19	0.00	49	322.88	5.74	51	692.94	12.31
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	227	0.65	0.66	4,155.38	35	177.38	4.27	2	0.19	0.00	35	177.56	4.27	37	1,042.38	25.08
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	76	0.19	0.19	1,231.88	2	6.38	0.52				2	6.38	0.52	5	185.25	15.04
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	44	0.03	0.03	215.56	4	26.81	12.44				4	26.81	12.44	6	59.31	27.52
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	241	0.52	0.52	3,314.38	9	94.06	2.84				9	94.06	2.84	12	602.38	18.17
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	47	0.29	0.30	1,887.44	16	417.81	22.14	19	1.25	0.07	32	419.06	22.20	31	534.94	28.34
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1	0.00	0.00	17.25												

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	10	0.01	0.01	61.06										3	25.31	41.45
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1	0.00	0.00	3.06												
WETLANDS																
Open Bog	5	0.00	0.00	7.94												
Open Fen	11	0.01	0.01	64.00	6	40.44	63.18				6	40.44	63.18	7	44.00	68.75
Treed Bog	3099	0.77	0.77	4,907.13	266	233.56	4.76	726	1,180.69	24.06	992	1,414.25	28.82	993	1,674.38	34.12
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	24	0.05	0.05	322.56	13	132.44	41.06				13	132.44	41.06	13	132.44	41.06
White Birch on unknown bedrock	13	0.03	0.03	214.81	4	71.81	33.43				4	71.81	33.43	4	71.81	33.43
Coniferous Forest on unknown bedrock	112	0.04	0.05	286.44	8	201.13	70.22	43	78.06	27.25	51	279.19	97.47	51	279.19	97.47
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	14458	3.16	3.20	20,274.94	1033	851.81	4.20	4072	17,308.00	85.37	5105	18,159.81	89.57	5106	18,160.50	89.57
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	289	0.11	0.11	683.38	21	3.75	0.55	196	665.44	97.38	217	669.19	97.92	217	669.19	97.92
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	273	0.01	0.01	46.38	2	0.13	0.27				2	0.13	0.27	2	0.13	0.27
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1926	0.51	0.52	3,290.00	99	13.06	0.40	349	2,854.44	86.76	448	2,867.50	87.16	448	2,867.50	87.16
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	906	0.62	0.63	3,962.88	24	2.56	0.06	482	3,912.94	98.74	506	3,915.50	98.80	506	3,915.50	98.80
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	150	0.00	0.00	30.13	3	0.19	0.62	7	17.50	58.09	10	17.69	58.71	10	17.69	58.71
Coniferous Forest on organic deposits (peat, muck and marl)	125	0.02	0.02	109.50	11	1.31	1.20	44	100.31	91.61	55	101.63	92.81	55	101.63	92.81
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	665	0.02	0.02	118.75	3	0.19	0.16	10	17.00	14.32	13	17.19	14.47	13	17.19	14.47
Deciduous Forest on unknown bedrock	76	0.01	0.01	56.25	28	19.81	35.22	21	26.63	47.33	49	46.44	82.56	49	46.44	82.56
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	10423	8.57	8.67	54,922.06	1253	460.56	0.84	4117	52,215.25	95.07	5364	52,675.81	95.91	5364	52,675.75	95.91
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	286	0.16	0.16	1,019.63	17	3.50	0.34	219	1,000.00	98.08	236	1,003.50	98.42	236	1,003.50	98.42
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	93	0.00	0.00	21.31	3	0.56	2.64				3	0.56	2.64	3	0.56	2.64
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	836	0.19	0.20	1,238.50	47	9.69	0.78	319	997.88	80.57	366	1,007.56	81.35	367	1,014.75	81.93
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	550	0.22	0.22	1,392.81	36	4.25	0.31	397	1,373.94	98.64	433	1,378.19	98.95	433	1,378.19	98.95
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	41	0.00	0.00	5.31				1	1.75	32.94	1	1.75	32.94	1	1.75	32.94
Deciduous Forest on organic deposits (peat, muck and marl)	74	0.02	0.02	105.19	5	0.31	0.30	32	100.94	95.96	37	101.25	96.26	37	101.25	96.26

Ecological System	# of Patches in 3E-4	% of Total Area (ha) in 3E-4	% of Total Natural Cover in 3E-4	Total Area (ha) in 3E-4	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in Federal Areas	Total Area (ha) in Federal Areas	% System in Federal Areas	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	314	0.02	0.02	133.56	1	0.13	0.09	23	30.31	22.70	24	30.44	22.79	24	30.44	22.79
Upland hardwood and mixed conifer on unknown bedrock	17	0.04	0.04	275.50	1	24.00	8.71				1	24.00	8.71	1	24.00	8.71
Intolerant hardwoods on unknown bedrock	4	0.01	0.01	69.06												
Mixed Forest on unknown bedrock	250	0.07	0.07	421.19	75	67.00	15.91	23	322.13	76.48	98	389.13	92.39	98	389.13	92.39
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	23738	13.49	13.64	86,409.63	3781	1,345.38	1.56	3153	79,377.06	91.86	6920	80,722.44	93.42	6920	80,722.44	93.42
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	385	0.35	0.36	2,263.13	47	8.44	0.37	195	2,206.44	97.50	238	2,214.88	97.87	238	2,214.88	97.87
Mixed forest on glacioluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	540	0.01	0.01	90.31	5	1.19	1.31				5	1.19	1.31	5	1.19	1.31
Mixed forest on glacioluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2596	0.73	0.74	4,707.50	212	28.94	0.61	381	4,040.44	85.83	593	4,069.38	86.44	593	4,069.38	86.44
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1513	1.01	1.02	6,448.06	86	9.31	0.14	373	6,305.25	97.79	455	6,314.56	97.93	455	6,314.56	97.93
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	373	0.01	0.01	54.75	8	0.50		11	22.56	41.21	19	23.06		19	23.06	42.12
Mixed forest on organic deposits (peat, muck and marl)	266	0.05	0.05	289.38	21	1.88	0.65	26	267.38	92.40	47	269.25	93.05	47	269.25	93.05
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1562	0.09	0.09	592.06	38	7.56	1.28	12	244.63	41.32	50	252.19	42.59	50	252.19	42.59
Mixed Lowland Conifer on unknown bedrock	21	0.02	0.02	129.31	1	0.50	0.39				1	0.50	0.39	1	0.50	0.39
Jack Pine on unknown bedrock	7	0.01	0.01	44.13	2	20.75	47.03				2	20.75	47.03	2	20.75	47.03
Lowland Black Spruce on unknown bedrock	15	0.01	0.01	38.06												
Mixed Spruce and Pine on unknown bedrock	33	0.06	0.06	372.69	3	43.88	11.77				3	43.88	11.77	3	43.88	11.77
WETLANDS																
Open Muskeg	10173	2.10	2.12	13,428.44	935	1,095.50	8.16	7	5.13	0.04	942	1,100.63	8.20	942	1,100.63	8.20
Treed Muskeg	716	0.28	0.28	1,786.25	20	121.19	6.78				20	121.19	6.78	20	121.19	6.78
OTHER LANDCOVER																
Barren & Scattered	2504	0.13		843.25	53	6.19	0.73	5	5.88	0.70	58	12.06	1.43	58	12.06	1.43
Brush and Alder	1960	0.82	0.83	5,275.44	121	382.81	7.26	5	16.13	0.31	126	398.94	7.56	126	398.94	7.56
Rock	3602	0.99	1.00	6,335.38	673	495.25	7.82	919	1,193.69	18.84	1592	1,688.94	26.66	1594	1,689.75	26.67
Unclassified (Cloud & Shadow)	3	0.00		0.25	3	0.25	100.00				3	0.25	100.00	3	0.25	100.00
Water	7133	4.11	4.16	26,342.56	1066	2,291.75	8.70	1825	6,358.94	24.14	2890	8,650.69	32.84	2893	8,665.63	32.90
Anthropogenic Land Types																
Settlement and Developed Land	718	0.14		919.94	39	31.81	3.46	45	84.38	9.17	84	116.19	12.63	84	116.19	12.63

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Black Sturgeon

Ecodistrict 3W-3

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 1,703,523 hectares (4,209,498 acres)

Land Ownership: 5% private, 95% Crown, 0.3% First Nations lands

Planning Authority: 100% Thunder Bay District

Physiography:

This ecodistrict is also known as Hills's site district 3W-4. The ecodistrict is largely composed of bedrock with expansive areas of sand and gravel glaciolacustrine deposits surrounding Lake Nipigon and areas to the west. Silt and clay-based glaciolacustrine deposits occur along the Nipigon River, north of Black Bay and at the mouth of the Sturgeon River. Glaciofluvial deposits and till deposits are intermixed throughout the western portion of 3W-3, and minor organic deposits are scattered throughout. The archipelago islands on Lake Superior, such as Bowman Island and Paradise Island, have extensive cobble beaches. Thirty percent of the ecodistrict is open water, predominantly Lake Nipigon.

Natural Cover:

Almost all of the ecodistrict remains as natural cover, primarily forest. Nearly 20% of the natural cover is composed of upland hardwoods and mixed conifers. This is intermixed with intolerant hardwoods and upland Black Spruce; each representing 10% of the natural cover. White Birch is represented south of Lake Nipigon and along the Nipigon River. Lowland spruce is dominant at the mouth of the Nipigon River. Wind-stunted mixed forests and sparse lichen-heath vegetation on cobble areas reflect the harsh conditions near exposed shorelines.

Land Use:

Approximately 1,200 hectares of Ecodistrict 3W-3 have been converted to developed agricultural lands, and over 1,800 hectares are devoted to settlement and other associated developed lands.

Protection and Conservation:

Conservation lands make up approximately 20% of Ecodistrict 3W-3 (347,639 ha). Provincially protected areas account for almost all of this



land, including the Lake Nipigon Conservation Reserve and Sleeping Giant Provincial Park. Over 1,800 hectares have been designated as provincially significant life science ANSIs, of which 1,711 hectares coincide with conservation reserves. More than two-thirds of all occurrences of species and vegetation community targets in Ecodistrict 3W-3 are within provincially protected areas.

Species Targets:

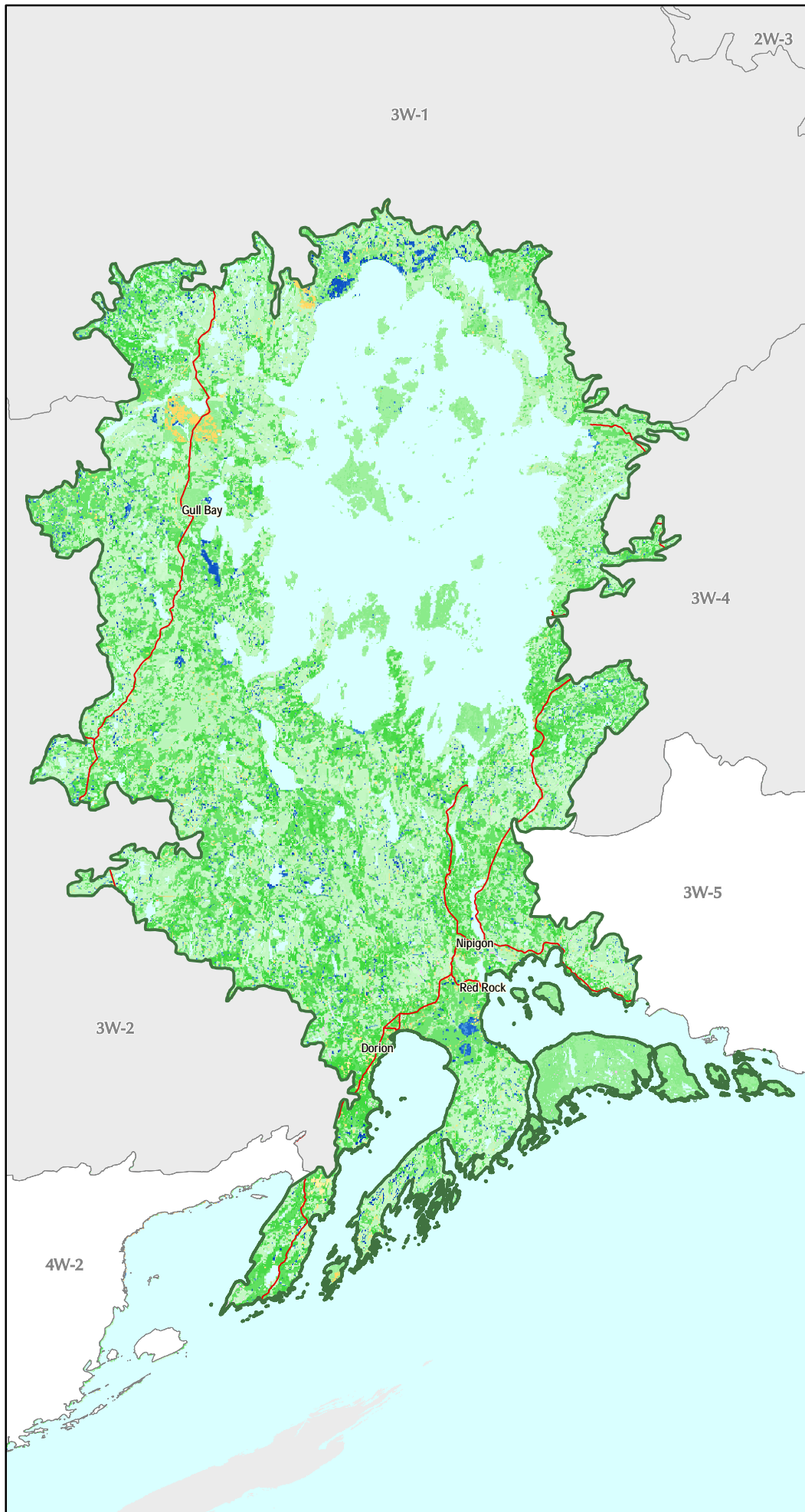
Over 80% of the 64 targeted species occurring in 3W-3 are vascular plants, many of which are arctic-alpine species that occur as disjuncts in the Great Lakes ecoregion. Six species are considered to be at risk, including the provincially Endangered American White Pelican (*Pelecanus erythrorhynchos*). The Threatened Boreal Woodland Caribou (*Rangifer tarandus*) and the Wolverine (*Gulo gulo*) also occur in this ecodistrict.

Vegetation Community Targets:

The four significant vegetation communities identified within 3W-3 are provincially rare, including the Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline. The globally rare American Dune Grass - Beach Pea - Sand Cherry Dune Grassland also occurs in the ecodistrict.

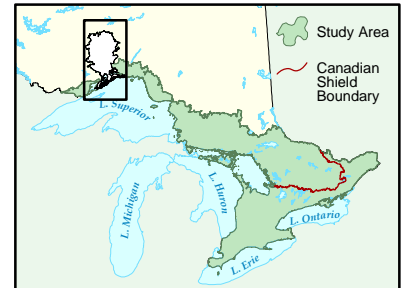
Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 3W-3 includes approximately 27% of all naturally vegetated cover, and 77% of all occurrences of species and vegetation community targets.

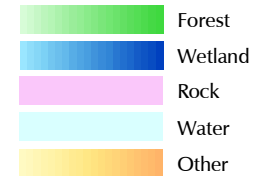


Great Lakes Conservation Blueprint for Biodiversity

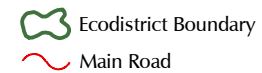
BLACK STURGEON ECODISTRICT 3W-3



Ecological Systems



Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

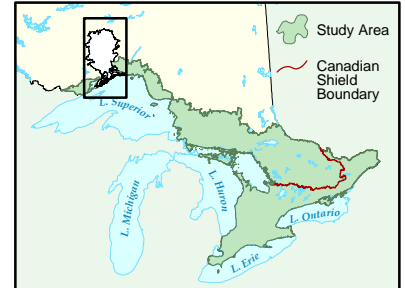
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

BLACK STURGEON ECODISTRICT 3W-3

10 0 10 20 30 km



Terrestrial Conservation Blueprint

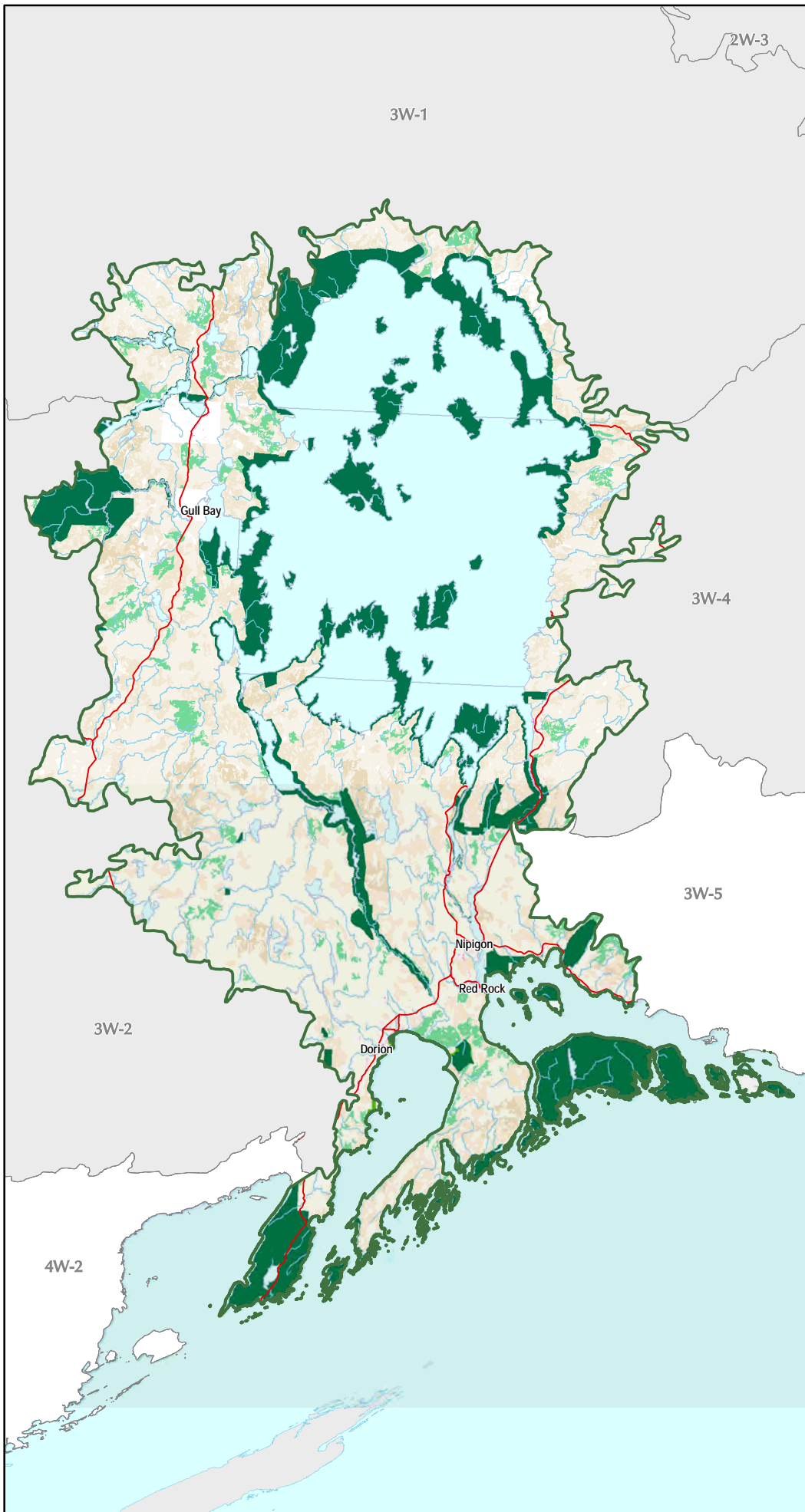
- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Documented extant vegetation community and species targets in Ecodistrict 3W-3

Number of pops in 3W-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAS	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
3	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	67	0	0	67	3	100	3
1	<i>Ammophila breviligulata</i>	American Beachgrass	G5	S3			disjunct	0	100	0	0	100	1	100	3
1	<i>Antennaria rosea</i>	Pussy-toes	G5	S1			disjunct	0	100	0	0	100	1	100	3
3	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	67	0	0	67	3	100	3
1	<i>Arenaria humifusa</i>	Low Sandwort	G4	S2S3			disjunct	0	100	0	0	100	1	100	3
3	<i>Arnica cordifolia</i>	Heartleaf Arnica	G5	S1			disjunct	0	100	0	0	100	3	100	3
1	<i>Arnica lonchophylla</i> ssp. <i>chionopappa</i>	Arnica	G1G2Q	S1			GRank disjunct	0	100	0	0	100	1	100	all viable
2	<i>Astragalus alpinus</i>	Alpine Milkvetch	G5	S5			disjunct	0	50	0	0	50	2	100	3
1	<i>Botrychium hesperium</i>	Western Moonwort	G3	S1			GRank disjunct	0	100	0	0	100	1	100	4
1	<i>Botrychium pallidum</i>	Pale Moonwort	G3	S1			GRank	0	0	0	0	0	1	100	4
1	<i>Botrychium pseudopinnatum</i>	Moonwort	G1	S1			GRank endemic	0	100	0	0	100	1	100	all viable
1	<i>Botrychium spathulatum</i>	Spoon-leaf Moonwort	G3	S1			GRank	0	100	0	0	100	1	100	2
2	<i>Calamagrostis purpurascens</i>	Purple Reed Grass	G5?	S1			disjunct	0	100	0	0	100	2	100	3
1	<i>Carex atratiformis</i>	Black Sedge	G5	S2			disjunct	0	100	0	0	100	1	100	3
3	<i>Carex rossii</i>	Ross' Sedge	G5	S2			disjunct	0	67	0	0	67	3	100	3
2	<i>Carex scirpoidea</i> ssp. <i>scirpoidea</i>	Sedge	G5T4T5	S5			disjunct	0	50	0	0	50	2	100	3
1	<i>Carex xerantica</i>	White-scaled Sedge	G5	S1			disjunct	0	100	0	0	100	1	100	3
4	<i>Castilleja septentrionalis</i>	Labrador Indian-paintbrush	G5	S5			disjunct	0	50	0	0	50	4	100	3
1	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	0	0	0	0	0	1	100	3
4	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern	G3	S2S3			GRank	0	50	0	0	50	2	50	2
1	<i>Draba aurea</i>	Golden Draba	G5	S5			disjunct	0	100	0	0	100	1	100	3
20	<i>Empetrum nigrum</i>	Black Crowberry	G5	S5			disjunct	0	75	0	0	75	16	80	3
1	<i>Euphrasia hudsoniana</i>	Hudson Bay Eyebright	G5?	S4?			disjunct	0	100	0	0	100	1	100	3
6	<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	G5?	S4			disjunct	0	33	0	0	33	3	50	3
7	<i>Hedysarum alpinum</i>	Alpine Sweet-vetch	G5	S4S5			disjunct	0	57	0	0	57	4	57	3
12	<i>Huperzia appalachiana</i>	Appalachian Fire-clubmoss	G4G5	S3?			disjunct	0	67	0	0	67	9	75	3
1	<i>Leucophysalis grandiflora</i>	Large-flowered Ground-cherry	G3?	S3?			GRank	0	0	0	0	0	1	100	4
8	<i>Leymus mollis</i>	Sea Lyme-grass	G5	S4			disjunct	0	50	0	0	50	4	50	3
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	100	0	0	100	1	100	2
3	<i>Moehringia macrophylla</i>	Large-leaved Sandwort	G4	S2			disjunct	0	100	0	0	100	3	100	3
2	<i>Oplopanax horridus</i>	Devil's Club	G4	S1			disjunct	0	100	0	0	100	2	100	3
8	<i>Osmorhiza depauperata</i>	Blunt-fruited Sweet-cicely	G5	S4			disjunct	0	75	0	0	75	7	88	3
1	<i>Oxytropis splendens</i>	Showy Oxytrope	G5	S3			disjunct	0	100	0	0	100	1	100	3
1	<i>Phacelia franklinii</i>	Wild Heliotrope	G5	S2			disjunct	0	100	0	0	100	1	100	3
24	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	75	0	0	75	19	79	3
27	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	0	59	0	0	59	17	63	3
15	<i>Polygonum viviparum</i>	Viviparous Knotweed	G5	S5			disjunct	0	73	0	0	73	12	80	3
3	<i>Potentilla gracilis</i>	Cinquefoil	G5	S2			disjunct	0	33	0	0	33	3	100	3
2	<i>Potentilla hippiana</i>	Cinquefoil	G5	S1			disjunct	0	50	0	0	50	2	100	3
1	<i>Potentilla multifida</i>	Cinquefoil	G5	SH			disjunct	0	0	0	0	0	1	100	3
5	<i>Pyrola grandiflora</i>	Arctic Wintergreen	G5	S4			disjunct	0	100	0	0	100	5	100	3
14	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	43	0	0	43	6	43	3

Number of pops in 3W-3	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants continued															
39	<i>Sagina nodosa</i>	Knotted Pearlwort	G5	S4S5			disjunct	0	67	0	0	67	28	72	3
1	<i>Salix myrtillofolia</i>	Myrtle-leaf Willow	G5	S5			disjunct	0	100	0	0	100	1	100	3
25	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	76	0	0	76	19	76	3
13	<i>Saxifraga tricuspidata</i>	Prickly Saxifrage	G4G5	S4			disjunct	0	92	0	0	92	12	92	3
14	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	71	7	0	71	11	79	3
2	<i>Senecio congestus</i>	Marsh Ragwort	G5	S5			disjunct	0	0	0	0	0	2	100	3
1	<i>Silene acaulis</i>	Moss Campion	G5	S1			disjunct	0	0	0	0	0	1	100	3
10	<i>Tofieldia pusilla</i>	Scotch False Asphodel	G5	S5			disjunct	0	90	0	0	90	10	100	3
3	<i>Viola epipsila</i>	Northern Marsh Violet	G4	S3			disjunct	0	100	0	0	100	3	100	3
5	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	40	0	0	40	5	100	3
9	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	44	0	0	44	5	56	3
Mosses & Liverworts															
3	<i>Anastrophyllum saxicola</i>	A Liverwort	G3G4	S1S2			disjunct	0	33	0	0	33	3	100	3
1	<i>Arnellia fennica</i>	A Liverwort	G5	S1S3			disjunct	0	0	0	0	0	1	100	3
2	<i>Aulacomnium acuminatum</i>	A Moss	G3?	S2			GRank disjunct	0	100	0	0	100	2	100	4
1	<i>Aulacomnium turgidum</i>	A Moss	G5	S2			disjunct	0	100	0	0	100	1	100	3
1	<i>Dicranella crispa</i>	A Moss	G3G5	S1			disjunct	0	100	0	0	100	1	100	4
Birds															
1	<i>Coturnicops noveboracensis</i>	Yellow Rail	G4	S4B,SZN	SC	SC	SAR	0	100	0	0	100	1	100	secondary
5	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	80	0	0	80	4	80	secondary
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	0	0	0	0	0	0	secondary
7	<i>Pelecanus erythrorhynchos</i>	American White Pelican	G3	S2B,SZN	NAR	END-R	GRank SAR	0	29	0	0	29	3	43	2
Mammals															
1	<i>Gulo gulo</i>	Wolverine	G4	S2	SC	THR	SAR	0	0	0	0	0	0	0	secondary
4	<i>Rangifer tarandus pop.14</i>	Woodland Caribou - Boreal	G5TNR	S3?	THR	THR	SAR	0	50	0	0	50	2	50	secondary
Communities															
1	American Dune Grass - Beach Pea - Sand Cherry Dune Grassland Type		G3G5	S2			GRank	0	100	0	0	100	1	100	all viable
2	Basic Open Glaciere Talus Type		G?	S1			SRank	0	100	0	0	100	2	100	3
2	Boreal Acidic Sandstone Open Cliff Type		G4G5	S2			SRank	0	100	0	0	100	2	100	3
19	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	74	0	0	74	15	79	3

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 3W-3

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	45445	57.41	57.78	977924.75	8887	151657.38	15.51	60	1314.94	37	302.56	8931	152102.13	15.55	8986	202835.56	20.74
Target wetlands	4544	0.60	0.06	10209.13	1194	4419.13	43.29	56	450.31	1	1.19	1194	4422.94	43.32	1197	5174.94	50.69
All ecological systems	203456	100.00	100.00	1703650.44	50674	347092.31	20.37	265	1867.63	101	389.38	50793	347638.75	20.41	50859	400206.38	23.49

Ecological systems details for Ecodistrict 3W-3

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS																	
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1952	2.07	2.08	35,236.88	303	3,895.50	11.06			2	33.75	305	3,929.25	11.15	307	5,076.44	14.41
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	75	0.05	0.05	855.94	19	105.44	12.32					19	105.44	12.32	22	184.56	21.56
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	268	0.24	0.24	4,032.50	14	140.44	3.48					14	140.44	3.48	12	1,005.50	24.93
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	212	0.22	0.22	3,708.00	55	553.25	14.92					55	553.25	14.92	56	657.56	17.73
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	829	0.68	0.68	11,574.25	144	1,024.13	8.85	3	0.88			147	1,025.00	8.86	142	1,483.69	12.82
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	688	0.54	0.54	9,194.75	32	53.75	0.58			10	15.19	42	68.94	0.75	45	495.75	5.39
Aspen on organic deposits (peat, muck and marl)	193	0.10	0.10	1,649.44	4	33.75	2.05					4	33.75	2.05	7	183.63	11.13
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	413	0.38	0.38	6,463.19	15	126.44	1.96					15	126.44	1.96	17	516.31	7.99
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1937	3.35	3.38	57,123.38	629	10,957.25	19.18					629	10,957.25	19.18	628	11,009.06	19.27
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	59	0.05	0.05	823.13	44	335.13	40.71					44	335.13	40.71	36	519.06	63.06
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	170	0.17	0.17	2,890.38	10	74.25	2.57					10	74.25	2.57	13	804.56	27.84
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	235	0.21	0.21	3,556.75	113	1,126.75	31.68					113	1,126.75	31.68	114	1,364.94	38.38
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	452	0.36	0.36	6,107.69	96	684.06	11.20					96	684.06	11.20	96	768.25	12.58
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	304	0.29	0.29	4,960.50	33	577.94	11.65					33	577.94	11.65	32	1,247.06	25.14
White Birch on organic deposits (peat, muck and marl)	104	0.05	0.05	811.56	8	31.63	3.90					8	31.63	3.90	10	141.00	17.37
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	302	0.32	0.32	5,403.19	37	330.69	6.12					37	330.69	6.12	40	910.44	16.85
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4706	11.62	11.69	197,913.38	1181	40,487.75	20.46			2	46.56	1183	40,534.31	20.48	1180	40,673.13	20.55

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	215	0.18	0.18	3,042.13	95	883.50	29.04					95	883.50	29.04	96	1,057.44	34.76
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	597	0.70	0.71	11,942.19	41	656.13	5.49					41	656.13	5.49	40	2,535.94	21.24
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	572	0.73	0.74	12,477.50	174	2,152.44	17.25					174	2,152.44	17.25	178	5,299.25	42.47
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1909	2.69	2.71	45,816.56	387	6,141.44	13.40	2	10.94			388	6,152.25	13.43	390	8,532.63	18.62
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	825	0.80	0.81	13,650.31	147	2,190.94	16.05	5	27.19	6	91.69	153	2,291.38	16.79	155	3,281.31	24.04
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	442	0.43	0.43	7,307.50	80	1,224.81	16.76	2	87.06			80	1,224.81	16.76	77	1,531.38	20.96
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1061	1.65	1.66	28,099.00	187	2,882.06	10.26					187	2,882.06	10.26	187	5,422.06	19.30
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3425	5.97	6.01	101,690.94	939	19,723.50	19.40			4	18.75	943	19,742.25	19.41	947	22,639.44	22.26
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	125	0.13	0.13	2,171.75	55	516.00	23.76					55	516.00	23.76	57	748.81	34.48
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	426	0.49	0.50	8,412.00	36	792.06	9.42					36	792.06	9.42	38	1,796.88	21.36
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	428	0.42	0.42	7,115.38	157	1,842.81	25.90					157	1,842.81	25.90	159	2,421.56	34.03
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1138	1.43	1.44	24,374.81	332	3,338.25	13.70					332	3,338.25	13.70	332	4,666.69	19.15
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	827	0.68	0.68	11,542.19	104	753.06	6.52			1	6.06	105	759.13	6.58	109	1,841.25	15.95
Intolerant hardwoods on organic deposits (peat, muck and marl)	282	0.24	0.24	4,084.19	38	474.75	11.62					38	474.75	11.62	38	1,054.88	25.83
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	689	0.91	0.92	15,517.25	85	1,778.19	11.46					85	1,778.19	11.46	88	2,797.50	18.03
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1890	1.38	1.39	23,470.25	413	7,648.69	32.59			2	5.06	415	7,653.75	32.61	415	7,653.88	32.61
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	30	0.01	0.01	217.38	5	38.56	17.74					5	38.56	17.74	8	116.13	53.42
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	140	0.11	0.11	1,865.50	15	294.13	15.77					15	294.13	15.77	15	543.75	29.15
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	113	0.05	0.05	843.13	19	173.50	20.58					19	173.50	20.58	20	224.50	26.63
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	677	0.48	0.48	8,096.56	119	686.88	8.48					119	686.88	8.48	112	1,311.31	16.20
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	332	0.27	0.27	4,589.63	51	359.13	7.82	4	76.69	2	15.44	53	374.56	8.16	54	845.31	18.42
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	240	0.17	0.17	2,864.69	31	474.94	16.58	10	93.31			31	474.94	16.58	34	1,203.81	42.02

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	507	0.47	0.47	7,978.25	48	407.31	5.11					48	407.31	5.11	50	1,322.81	16.58
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	722	1.01	1.02	17,209.94	135	1,982.19	11.52					135	1,982.19	11.52	135	3,640.00	21.15
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	46	0.03	0.03	468.81	36	319.19	68.08					36	319.19	68.08	34	368.13	78.52
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	101	0.08	0.08	1,319.25	5	35.13	2.66					5	35.13	2.66	8	167.88	12.73
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	134	0.34	0.34	5,750.06	61	3,489.06	60.68					61	3,489.06	60.68	61	3,489.06	60.68
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	248	0.43	0.43	7,322.63	44	336.19	4.59					44	336.19	4.59	46	2,030.94	27.74
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	66	0.05	0.05	844.50	13	32.19	3.81					13	32.19	3.81	14	211.69	25.07
Jack Pine on organic deposits (peat, muck and marl)	56	0.03	0.03	522.56	25	316.75	60.61					25	316.75	60.61	25	316.75	60.61
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	187	0.25	0.25	4,285.19	64	2,204.56	51.45					64	2,204.56	51.45	63	2,316.75	54.06
Mixed Red and White Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	34	0.06	0.06	1,005.69	17	600.50	59.71					17	600.50	59.71	17	600.50	59.71
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	9	0.01	0.01	161.38											3	103.94	64.41
Mixed Red and White Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	3	0.01	0.01	172.19											3	172.19	100.00
Mixed Red and White Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	15	0.01	0.01	234.75	2	45.63	19.44					2	45.63	19.44	4	121.38	51.70
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	6	0.00	0.01	84.75	1	27.19	32.08					1	27.19	32.08	3	65.63	77.43
Mixed Red and White Pine on organic deposits (peat, muck and marl)	1	0.00	0.00	20.69	1	19.44	93.96					1	19.44	93.96	1	19.44	93.96
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	13	0.01	0.01	136.13											3	121.56	89.30
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2086	1.17	1.17	19,848.69	276	2,225.75	11.21			3	46.50	279	2,272.25	11.45	276	2,597.06	13.08
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	26	0.01	0.01	242.25	7	41.19	17.00					7	41.19	17.00	10	124.06	51.21
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	176	0.09	0.09	1,589.38	4	28.31	1.78					4	28.31	1.78	7	123.31	7.76
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	130	0.06	0.06	1,018.56	25	97.50	9.57					25	97.50	9.57	26	144.38	14.17
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1123	1.07	1.08	18,223.19	193	3,056.69	16.77	4	55.75			193	3,074.50	16.87	193	3,074.50	16.87
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	417	0.70	0.70	11,929.00	68	934.38	7.83	8	200.44	4	18.31	74	974.50	8.17	77	4,531.50	37.99

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Lowland Black Spruce on organic deposits (peat, muck and marl)	326	0.35	0.35	5,903.75	61	1,297.00	21.97	12	703.63			61	1,366.56	23.15	59	2,104.69	35.65
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	493	0.35	0.35	5,890.31	42	357.38	6.07					42	357.38	6.07	42	688.94	11.70
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	7	0.00	0.00	0.44	1	0.06	14.29					1	0.06	14.29	1	0.06	14.29
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1	0.00	0.00	5.31	1	4.81	90.59					1	4.81	90.59	1	4.81	90.59
Upland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	4574	4.76	4.79	81,123.25	838	9,994.19	12.32			1	5.25	839	9,999.44	12.33	848	13,509.38	16.65
Upland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	117	0.05	0.05	871.19	13	80.44	9.23					13	80.44	9.23	16	263.94	30.30
Upland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	377	0.32	0.32	5,467.31	15	66.63	1.22					15	66.63	1.22	18	1,120.56	20.50
Upland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	358	0.27	0.28	4,669.75	62	332.19	7.11					62	332.19	7.11	58	719.56	15.41
Upland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1680	2.56	2.58	43,688.81	297	4,495.94	10.29	1	0.13			298	4,496.06	10.29	290	6,715.06	15.37
Upland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	675	0.74	0.74	12,522.38	91	1,701.88	13.59	5	23.31			92	1,703.63	13.60	92	2,620.56	20.93
Upland Black Spruce on organic deposits (peat, muck and marl)	525	0.39	0.39	6,564.69	124	752.31	11.46	4	35.63			123	763.00	11.62	121	771.19	11.75
Upland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	888	1.12	1.13	19,135.94	64	735.19	3.84					64	735.19	3.84	67	3,997.94	20.89
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	14	0.01	0.01	91.31	1	4.19	4.59					1	4.19	4.59	3	16.56	18.14
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	7	0.00	0.00	7.56													
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	10	0.00	0.00	48.50	2	20.75	42.78					2	20.75	42.78	2	20.75	42.78
Tolerant hardwoods on organic deposits (peat, muck and marl)	3	0.00	0.00	51.50	3	51.44	99.88					3	51.44	99.88	3	51.50	100.00
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2	0.00	0.00	19.25													
WETLANDS																	
Open Bog	686	0.08	0.08	1,294.63	132	332.81	25.71	28	78.00			131	333.81	25.78	132	501.88	38.77
Open Fen	101	0.03	0.03	473.81	50	250.06	52.78					50	250.06	52.78	51	276.38	58.33
Treed Bog	2951	0.32	0.32	5,401.50	707	1,692.19	31.33	28	372.31	1	1.19	708	1,695.00	31.38	709	2,251.25	41.68
Treed Fen	806	0.18	0.18	3,039.19	305	2,144.06	70.55					305	2,144.06	70.55	305	2,145.44	70.59
Non-Target Natural Ecological Systems																	
FORESTS																	
Aspen on unknown bedrock	156	0.03	0.03	528.63	75	283.81	53.69			2	5.06	77	288.88	54.65	77	288.88	54.65

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																	
FORESTS continued																	
White Birch on unknown bedrock	213	0.08	0.08	1,388.56	182	1,105.75	79.63					182	1,105.75	79.63	182	1,105.56	79.62
Coniferous Forest on unknown bedrock	2068	0.30	0.03	5,050.63	1665	3,784.69	74.94			7	0.56	1672	3,785.25	74.95	1677	3,785.63	74.95
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	19587	1.92	1.93	32,671.06	4669	26,613.63	81.46					4669	26,613.63	81.46	4669	26,613.63	81.46
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	250	0.01	0.01	169.50	104	109.19	64.42					104	109.19	64.42	104	109.19	64.42
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	721	0.03	0.03	580.56	32	10.25	1.77					32	10.25	1.77	32	10.25	1.77
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1038	0.04	0.04	604.88	230	127.75	21.12					230	127.75	21.12	230	127.75	21.12
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	5641	0.55	0.55	9,325.75	1283	4,163.88	44.65	10	0.81			1284	4,163.94	44.65	1284	4,163.94	44.65
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1933	0.06	0.06	1,039.56	335	312.06	30.02	2	0.13	10	2.31	345	314.38	30.24	345	314.38	30.24
Coniferous Forest on organic deposits (peat, muck and marl)	1096	0.05	0.05	801.25	266	657.44	82.05	15	1.06			266	657.44	82.05	266	657.44	82.05
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	1914	0.03	0.03	537.81	123	115.94	21.56					123	115.94	21.56	123	115.94	21.56
Deciduous Forest on unknown bedrock	742	0.06	0.07	1,100.88	456	591.75	53.75					456	591.75	53.75	456	591.75	53.75
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	6653	0.25	0.25	4,315.75	1366	1,829.75	42.40					1366	1,829.75	42.40	1366	1,829.75	42.40
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	281	0.01	0.01	160.81	153	62.50	38.87					153	62.50	38.87	153	62.50	38.87
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	405	0.06	0.06	980.13	13	17.38	1.77					13	17.38	1.77	13	17.38	1.77
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	694	0.04	0.04	642.69	206	73.56	11.45					206	73.56	11.45	206	73.56	11.45
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1623	0.08	0.08	1,297.13	312	172.88	13.33					312	172.88	13.33	312	172.81	13.32
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	2015	0.05	0.08	897.06	76	36.63	4.08	1	0.06	1	0.06	77	36.69	4.09	77	36.69	4.09
Deciduous Forest on organic deposits (peat, muck and marl)	292	0.01	0.01	93.06	19	5.56	5.98					19	5.56	5.98	19	5.56	5.98
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	569	0.02	0.02	326.13	102	111.00	34.04					102	111.00	34.04	102	111.00	34.04
Upland hardwood and mixed conifer on unknown bedrock	778	0.32	0.33	5,504.63	561	4,044.19	73.47	1	23.19	2	25.50	563	4,071.69	73.97	563	4,071.63	73.97
Intolerant hardwoods on unknown bedrock	459	0.16	0.16	2,747.25	319	1,921.19	69.93					319	1,921.19	69.93	319	1,921.00	69.92
Mixed Forest on unknown bedrock	3113	0.81	0.82	13,797.13	2986	9,965.56	72.23			7	0.44	2993	9,966.00	72.23	2995	9,984.06	72.36
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	26778	2.80	2.82	47,723.94	7250	38,574.81	80.83			5	0.38	7255	38,575.19	80.83	7256	38,575.25	80.83
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	596	0.02	0.02	330.06	205	81.88	24.81					205	81.88	24.81	205	81.88	24.81

Ecological System	# of Patches in 3W-3	% of Total Area (ha) in 3W-3	% of Total Natural Cover in 3W-3	Total Area (ha) in 3W-3	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservati on Lands	Total Area (ha) in all Conservatio n Lands	% System in all Conservatio n Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																	
FORESTS continued																	
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1655	0.07	0.07	1,259.06	66	50.25	3.99					66	50.25	3.99	66	50.25	3.99
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	2349	0.07	0.07	1,126.88	791	307.44	27.28					791	307.44	27.28	791	307.44	27.28
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	8210	0.38	0.38	6,401.63	1761	2,488.56	38.87	2	0.13			1761	2,488.56	38.87	1760	2,488.50	38.87
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	4524	0.20	0.21	3,479.13	393	2,192.94	63.03	16	1.13	9	0.81	406	2,194.00	63.06	406	2,194.00	63.06
Mixed forest on organic deposits (peat, muck and marl)	1684	0.05	0.05	842.69	350	509.13	60.42	31	2.63			350	509.13	60.42	350	509.13	60.42
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	3945	0.15	0.15	2,495.94	521	1,079.88	43.27					521	1,079.88	43.27	521	1,079.88	43.27
Mixed Lowland Conifer on unknown bedrock	110	0.02	0.02	393.13	67	238.13	60.57	3	2.38	2	19.50	69	257.63	65.53	69	257.63	65.53
Jack Pine on unknown bedrock	22	0.01	0.01	169.00	17	122.44	72.45					17	122.44	72.45	17	122.44	72.45
Lowland Black Spruce on unknown bedrock	134	0.03	0.03	449.00	76	303.50	67.59	1	0.94	2	16.56	79	321.00	71.49	79	321.00	71.49
Mixed Spruce and Pine on unknown bedrock	7	0.00	0.00	17.50	6	16.94	96.79					6	16.94	96.79	6	16.94	96.79
Upland Black Spruce on unknown bedrock	331	0.08	0.08	1,397.13	250	1,165.56	83.43					250	1,165.56	83.43	250	1,165.56	83.43
Tolerant hardwoods on unknown bedrock	3	0.00	0.00	18.13	1	2.31	12.76					1	2.31	12.76	1	2.31	12.76
WETLANDS																	
Open Muskeg	13243	0.87	0.88	14,834.13	1886	2,655.25	17.90	8	0.69	4	1.13	1891	2,656.44	17.91	1894	2,660.50	17.93
Treed Muskeg	4993	0.65	0.65	11,060.69	772	1,981.56	17.92	36	67.31			771	1,990.13	17.99	771	1,990.13	17.99
OTHER LANDCOVER																	
Barren & Scattered	11497	0.44		7,503.19	1188	1,389.88	18.52			4	0.31	1192	1,390.19	18.53	1192	1,390.19	18.53
Brush and Alder	5622	0.72	0.73	12,308.50	1012	2,391.00	19.43	8	0.50	4	3.19	1016	2,394.19	19.45	1017	2,394.25	19.45
Grass & Meadow	474	0.03		483.56	10	2.06	0.43					10	2.06	0.43	10	2.06	0.43
Rock	1012	0.13	0.13	2,146.50	497	1,167.63	54.40			3	6.56	500	1,174.19	54.70	501	1,177.06	54.84
Unclassified (Cloud & Shadow)	102	0.01		108.38	38	11.38	10.50					38	11.38	10.50	38	11.38	10.50
Water	11768	30.13	30.33	513,341.13	7698	78,086.44	15.21	15	1.44	1	3.25	7705	78,090.06	15.21	7701	79,147.31	15.42
Anthropogenic Land Types																	
Developed Agricultural Land	138	0.07		1,200.25													
Settlement and Developed Land	2029	0.11		1,866.25	205	80.56	4.32					205	80.56	4.32	205	80.56	4.32

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Schreiber

Ecodistrict 3W-5

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 735,347 hectares (1,817,083 acres)

Land Ownership: 3% private, 97% Crown, 0.1% First Nations lands

Planning Authority: 100% Thunder Bay District

Physiography:

This ecodistrict is also known as Hills's site district 3W-6. The predominant landform is undifferentiated igneous and metamorphic rock, which is exposed at surface or covered by a discontinuous, thin layer of drift. There are considerable glaciofluvial deposits along the Aguasabon River, Steel River and Gravel River. There are also large fluvial deposits along the Pic River, and in segments of the Steel River and Gravel River. Glaciolacustrine deposits of sand and gravel dominate the Little Pic River area. Glaciolacustrine deposits composed of silt, sand and clay are represented along the Lake Superior shoreline and the Prairie River.

Remaining Natural Cover:

Almost all of the ecodistrict remains as natural cover, primarily forest. One-third of Ecodistrict 3W-5 is composed of upland hardwood and mixed conifers, particularly along the Steel River, Little Pic River and Pays Plat River. Upland Black Spruce is scattered throughout, and is dominant in the west, representing another 20% of the natural cover. White Birch is present along the southern and southeastern portions of 3W-5 (12% of the natural cover), and intolerant hardwoods represent another 9% scattered through the central portion of 3W-5. Black Spruce and pine associations occur along the Pic River.

Land Use:

Approximately 2,850 hectares are devoted to settlement and other associated developed lands. There are no developed agricultural lands mapped in Ecodistrict 3W-5. The few major roads are concentrated primarily along the Lake Superior shoreline.



Protection and Conservation:

Conservation lands make up approximately 11% of Ecodistrict 3W-5 (82,055 ha), and are composed entirely of provincially protected areas. Seventy percent of all occurrences of rare species and vegetation community targets are within these conservation lands.

Species Targets:

Nearly 90% of the 39 targeted species occurring in 3W-5 are plants. Three species are at risk, including the Threatened Boreal Woodland Caribou (*Rangifer tarandus*), and the provincially Endangered Peregrine Falcon (*Falco peregrinus anatum*) and Bald Eagle (*Haliaeetus leucocephalus*). Two moonworts, *Botrychium pseudopinnatum* and *Botrychium acuminatum*, are globally rare and endemic to the Great Lakes ecoregion. Thirty-one of the plant species in this ecodistrict occur as disjuncts in the Great Lakes region, many of them being arctic and sub-arctic species.

Vegetation Community Targets:

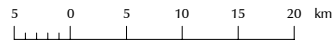
Two significant communities occur within Ecodistrict 3W-5, including the globally rare American Dune Grass - Beach Pea - Sand Cherry Dune Grassland and the provincially rare Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline.

Conservation Blueprint:

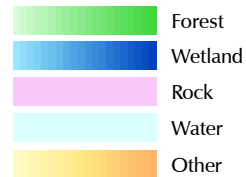
The Conservation Blueprint portfolio in Ecodistrict 3W-5 includes approximately 20% of the naturally vegetated cover, and 86% of all occurrences of rare species and vegetation community targets.

Great Lakes Conservation Blueprint for Biodiversity

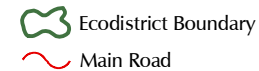
SCHREIBER ECODISTRICT 3W-5



Ecological Systems



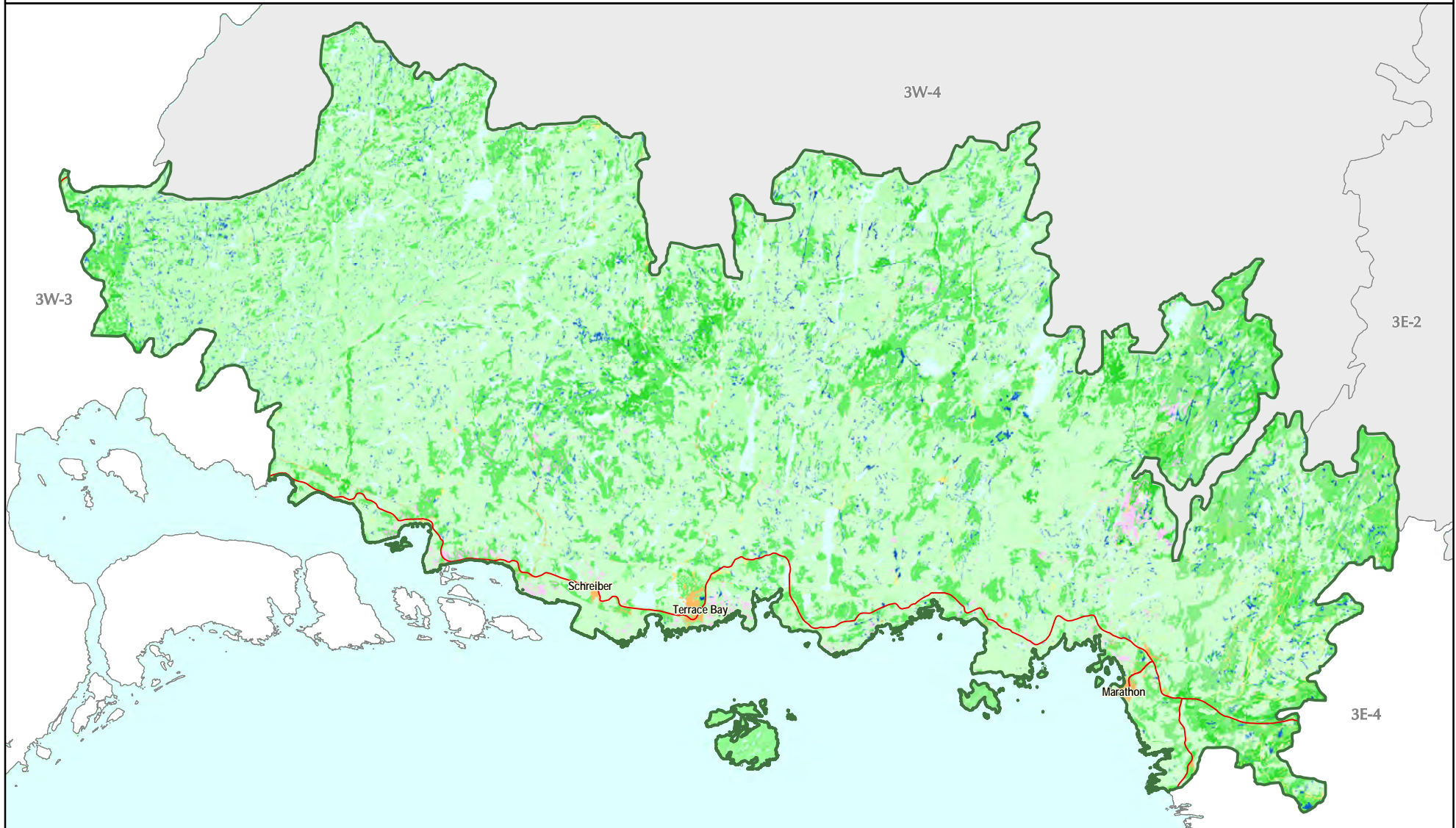
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

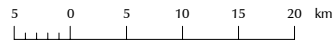
For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

SCHREIBER ECODISTRICT 3W-5



Terrestrial Conservation Blueprint

- Parks and Protected Areas
- Additional Designated Natural Heritage Lands
- Other Priority Stewardship Lands

Other Information

- Ecodistrict Boundary
- Main Road
- Urban Area

Intervening Natural Cover

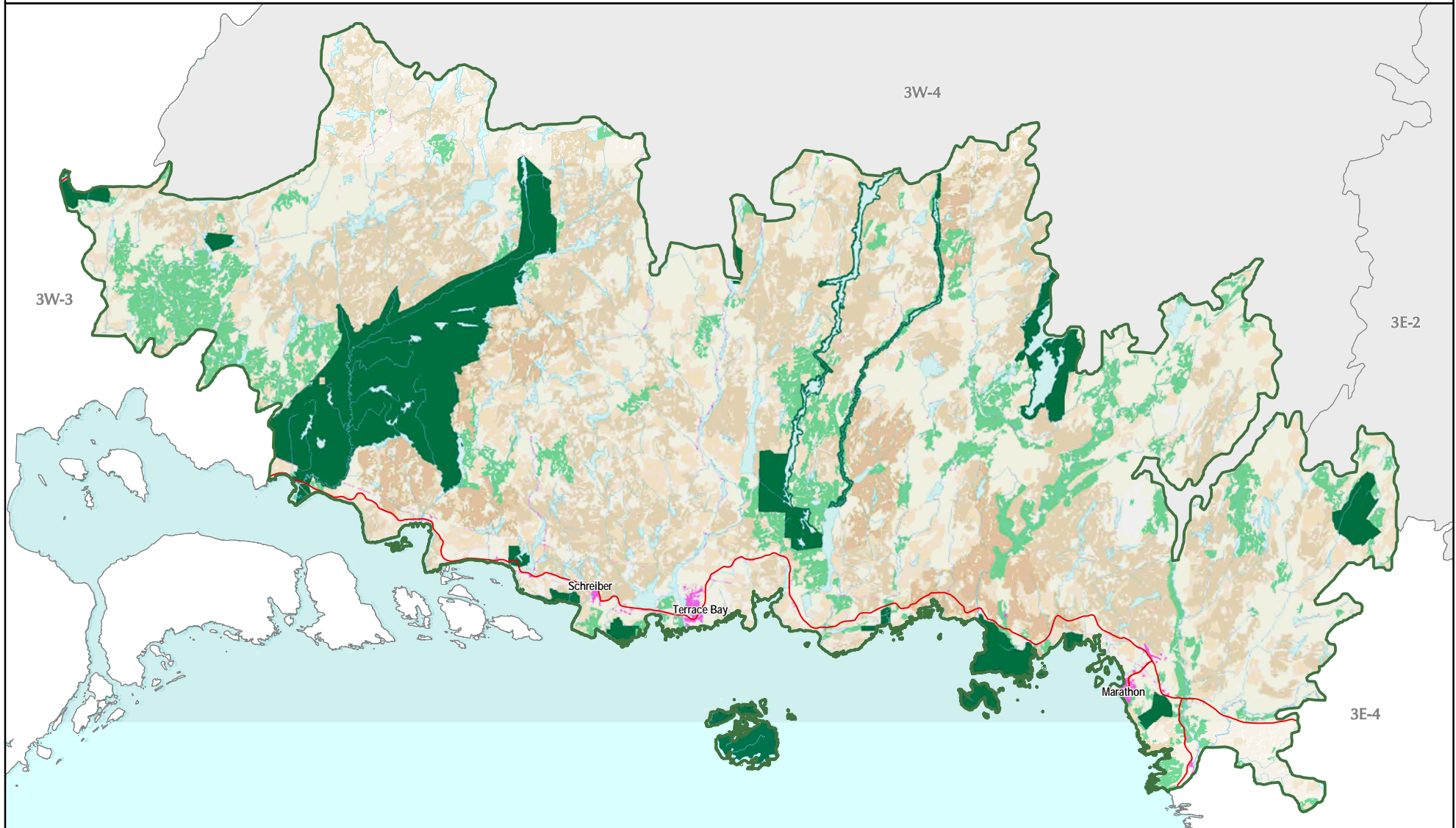
- Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

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Extant vegetation communities and significant species information for Ecodistrict 3W-5

Number of extant pops in 3W-5	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
7	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	71	0	0	71	5	71	3
6	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	33	0	0	33	3	50	3
4	<i>Anemone parviflora</i>	Small-flower Anemone	G5	S5			disjunct	0	75	0	0	75	4	100	3
1	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	0	0	0	0	1	100	3
1	<i>Botrychium acuminatum</i>	Moonwort	G1	S1			GRank endemic	0	0	0	0	0	1	100	all viable
1	<i>Botrychium campestre</i>	Prairie Dunewort	G3	S1			GRank disjunct	0	0	0	0	0	1	100	4
3	<i>Botrychium hesperium</i>	Western Moonwort	G3	S1			GRank disjunct	0	33	0	0	33	3	100	4
1	<i>Botrychium pseudopinnatum</i>	Moonwort	G1	S1			GRank endemic	0	0	0	0	0	1	100	all viable
2	<i>Botrychium spathulatum</i>	Spoon-leaf Moonwort	G3	S1			GRank	0	0	0	0	0	2	100	2
1	<i>Carex atratiformis</i>	Black Sedge	G5	S2			disjunct	0	0	0	0	0	1	100	3
1	<i>Carex glacialis</i>	Alpine Sedge	G5	S4			disjunct	0	100	0	0	100	1	100	3
5	<i>Carex scirpoidea</i> ssp. <i>scirpoidea</i>	Sedge	G5T4T5	S5			disjunct	0	80	0	0	80	4	80	3
3	<i>Cerastium alpinum</i>	Alpine Mouse-ear Chickweed	G5?	S3?			disjunct	0	100	0	0	100	3	100	3
1	<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern	G3	S2S3			GRank	0	0	0	0	0	1	100	2
3	<i>Cystopteris montana</i>	Mountain Bladder Fern	G5	S1			disjunct	0	67	0	0	67	3	100	3
2	<i>Dryas drummondii</i>	Yellow Dryas	G5	S1			disjunct	0	100	0	0	100	2	100	3
6	<i>Dryas integrifolia</i>	Entire-leaved Mountain-avens	G5	S4			disjunct	0	100	0	0	100	6	100	3
10	<i>Empetrum nigrum</i>	Black Crowberry	G5	S5			disjunct	0	90	0	0	90	10	100	3
1	<i>Hedysarum alpinum</i>	Alpine Sweet-vetch	G5	S4S5			disjunct	0	100	0	0	100	1	100	3
3	<i>Huperzia appalachiana</i>	Appalachian Fire-clubmoss	G4G5	S3?			disjunct	0	100	0	0	100	3	100	3
16	<i>Leymus mollis</i>	Sea Lyme-grass	G5	S4			disjunct	0	19	0	0	19	5	31	3
2	<i>Moehringia macrophylla</i>	Large-leaved Sandwort	G4	S2			disjunct	0	50	0	0	50	2	100	3
1	<i>Oplopanax horridus</i>	Devil's Club	G4	S1			disjunct	0	100	0	0	100	1	100	3
3	<i>Osmorhiza depauperata</i>	Blunt-fruited Sweet-cicely	G5	S4			disjunct	0	100	0	0	100	3	100	3
16	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	81	0	0	81	15	94	3
11	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	0	82	0	0	82	11	100	3
12	<i>Polygonum viviparum</i>	Viviparous Knotweed	G5	S5			disjunct	0	83	0	0	83	12	100	3
2	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	50	0	0	50	2	100	3
18	<i>Sagina nodosa</i>	Knotted Pearlwort	G5	S4S5			disjunct	0	83	0	0	83	17	94	3
1	<i>Saxifraga oppositifolia</i>	Purple Mountain Saxifrage	G4G5	S1			disjunct	0	0	0	0	0	1	100	3
23	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	87	0	0	87	20	87	3
3	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	100	0	0	100	3	100	3
1	<i>Taraxacum ceratophorum</i>	Horned Dandelion	G5	S5			disjunct	0	100	0	0	100	1	100	3
2	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	100	0	0	100	2	100	3
6	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	67	0	0	67	4	67	3
Mosses															
1	<i>Splachnum rubrum</i>	A Moss	G3	S2			GRank	0	0	0	0	0	1	100	2
Birds															
1	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	0	0	0	0	0	0	secondary
3	<i>Haliaeetus leucocephalus</i>	Bald Eagle	G4	S4B,SZN	NAR	END-R	SAR	0	67	0	0	67	3	100	secondary
Mammals															
5	<i>Rangifer tarandus</i> pop.14	Woodland Caribou - Boreal	G5TNR	S3?	THR	THR	SAR	0	20	0	0	20	1	20	secondary

Number of pops in 3W-5	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Communities														
4	American Dune Grass - Beach Pea - Sand Cherry Dune Grassland Type	G3G5	S2			GRank	0	50	0	0	50	4	100	all viable
13	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type	G?	S3			SRank	0	92	0	0	92	13	100	3

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 3W-5

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	21107	86.63	87.09	637042.75	2827	64336.94	10.10	0	0.00	0.00	2827	64336.94	10.10	2887	128980.63	20.25
Target wetlands	2122	0.39	0.39	2851.25	192	212.94	7.47	0	0.00	0.00	192	212.94	7.47	202	293.00	10.28
All ecological systems	141943	100.00	100.00	735190.19	17465	82055.44	11.16	0	0.00	0.00	17465	82055.44	11.16	17543	146802.63	19.97

Ecological systems details for Ecodistrict 3W-5

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS																
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	798	1.61	1.62	11,868.75	30	237.38	2.00				30	237.38	2.00	33	1,561.25	13.15
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	75	0.13	0.13	932.19	25	116.69	12.52				25	116.69	12.52	27	645.88	69.29
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	8	0.03	0.03	204.63	4	155.13	75.81				4	155.13	75.81	4	197.38	96.46
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	112	0.15	0.15	1,098.00	11	39.25	3.57				11	39.25	3.57	14	262.88	23.94
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	155	0.31	0.31	2,280.19	10	47.44	2.08				10	47.44	2.08	12	649.50	28.48
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	147	0.31	0.31	2,268.81	5	38.88	1.71				5	38.88	1.71	11	534.19	23.54
Aspen on organic deposits (peat, muck and marl)	29	0.01	0.01	101.31										3	31.94	31.52
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	29	0.03	0.03	204.19										3	95.88	46.95
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1505	10.35	10.41	76,116.56	239	8,188.06	10.76				239	8,188.06	10.76	242	9,714.06	12.76
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	137	0.30	0.30	2,184.38	54	642.63	29.42				54	642.63	29.42	55	1,014.75	46.45
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	13	0.04	0.04	289.63	4	116.31	40.16				4	116.31	40.16	4	222.63	76.87
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	208	0.38	0.38	2,797.88	50	408.44	14.60				50	408.44	14.60	35	744.19	26.60
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	275	0.49	0.49	3,594.88	50	491.94	13.68				50	491.94	13.68	51	757.63	21.08
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	71	0.15	0.15	1,106.06	8	92.06	8.32				8	92.06	8.32	8	214.88	19.43
White Birch on organic deposits (peat, muck and marl)	53	0.05	0.05	398.19										3	174.13	43.73
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	66	0.12	0.12	886.88										3	214.56	24.19
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3745	27.81	27.95	204,480.94	590	28,427.50	13.90				590	28,427.50	13.90	556	37,657.25	18.42
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	275	0.75	0.75	5,515.13	107	1,476.81	26.78				107	1,476.81	26.78	105	2,655.19	48.14
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	78	0.17	0.17	1,273.88	48	310.69	24.39				48	310.69	24.39	40	844.44	66.29
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	552	1.04	1.04	7,638.56	49	730.94	9.57				49	730.94	9.57	51	1,703.31	22.30
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	389	0.90	0.90	6,608.81	55	613.81	9.29				55	613.81	9.29	59	2,157.69	32.65
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	297	1.42	1.43	10,448.38	6	22.19	0.21				6	22.19	0.21	9	7,013.06	67.12

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	116	0.14	0.14	1,029.56	3	12.56	1.22				3	12.56	1.22	6	310.19	30.13
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	123	0.24	0.25	1,793.00										3	643.19	35.87
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1773	7.78	7.82	57,222.69	284	3,915.88	6.84				284	3,915.88	6.84	284	8,018.63	14.01
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	63	0.08	0.08	614.88	26	174.13	28.32				26	174.13	28.32	27	220.00	35.78
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	16	0.08	0.08	597.94	18	358.56	59.97				18	358.56	59.97	18	518.44	86.70
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	267	0.40	0.40	2,927.19	31	156.94	5.36				31	156.94	5.36	33	222.81	7.61
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	190	0.36	0.36	2,620.25	38	171.19	6.53				38	171.19	6.53	40	513.75	19.61
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	90	0.16	0.16	1,204.31	3	39.56	3.29				3	39.56	3.29	6	175.88	14.60
Intolerant hardwoods on organic deposits (peat, muck and marl)	26	0.03	0.03	245.13	1	0.81	0.33				1	0.81	0.33	3	129.31	52.75
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	42	0.06	0.06	458.00										3	156.00	34.06
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	319	0.23	0.23	1,665.81	62	269.19	16.16				62	269.19	16.16	62	269.19	16.16
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	33	0.05	0.05	394.88	28	340.69	86.28				28	340.69	86.28	28	340.69	86.28
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	1	0.00	0.00	15.88												
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	16	0.02	0.02	135.38	7	41.38	30.56				7	41.38	30.56	6	80.81	59.70
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	27	0.03	0.03	187.88	5	30.00	15.97				5	30.00	15.97	6	40.06	21.32
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	53	0.05	0.05	346.75	5	29.13	8.40				5	29.13	8.40	8	76.56	22.08
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	6	0.00	0.01	36.63												
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	14	0.01	0.01	72.31										3	34.56	47.80
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	558	1.48	1.48	10,850.13	17	326.00	3.00				17	326.00	3.00	17	1,794.13	16.54
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	55	0.05	0.05	392.94	30	147.94	37.65				30	147.94	37.65	30	149.69	38.09
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	14	0.02	0.02	182.31	5	32.00	17.55				5	32.00	17.55	6	163.06	89.44
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	164	0.58	0.59	4,293.63	4	9.00	0.21				4	9.00	0.21	7	1,186.94	27.64
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	87	0.15	0.15	1,122.50	10	220.81	19.67				10	220.81	19.67	9	402.44	35.85
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	81	0.18	0.18	1,328.19										3	282.88	21.30
Jack Pine on organic deposits (peat, muck and marl)	5	0.01	0.01	37.25												
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	19	0.02	0.02	115.75										3	51.69	44.65
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1501	2.10	2.11	15,445.94	87	673.38	4.36				87	673.38	4.36	86	1,739.19	11.26
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	142	0.17	0.17	1,235.94	12	68.50	5.54				12	68.50	5.54	16	251.94	20.38
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	13	0.03	0.03	219.81	3	88.38	40.20				3	88.38	40.20	5	157.06	71.45
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	149	0.21	0.21	1,507.88	12	47.88	3.17				12	47.88	3.17	15	482.44	31.99
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	200	0.38	0.38	2,786.56	10	41.38	1.48				10	41.38	1.48	16	292.38	10.49

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																
FORESTS continued																
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	189	0.29	0.29	2,151.19										3	373.19	17.35
Lowland Black Spruce on organic deposits (peat, muck and marl)	113	0.18	0.18	1,347.69										6	421.94	31.31
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	73	0.04	0.04	294.38										3	26.31	8.94
Mixed Spruce and Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	646	3.04	3.06	22,375.88	64	1,200.63	5.37				64	1,200.63	5.37	64	3,196.00	14.28
Mixed Spruce and Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	106	0.23	0.23	1,666.25	2	6.06	0.36				2	6.06	0.36	5	429.25	25.76
Mixed Spruce and Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	5	0.01	0.01	79.50	2	46.50	58.49				2	46.50	58.49	4	68.63	86.32
Mixed Spruce and Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	12	0.04	0.04	274.50	5	31.25	11.38				5	31.25	11.38	5	218.63	79.64
Mixed Spruce and Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	135	0.20	0.20	1,491.19	7	119.00	7.98				7	119.00	7.98	8	228.44	15.32
Mixed Spruce and Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	198	0.70	0.70	5,118.63										3	1,630.19	31.85
Mixed Spruce and Pine on organic deposits (peat, muck and marl)	55	0.11	0.11	830.69										3	248.00	29.85
Mixed Spruce and Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	6	0.00	0.00	28.44												
Upland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3146	17.65	17.75	129,805.44	538	12,253.69	9.44				538	12,253.69	9.44	538	28,751.81	22.15
Upland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	153	0.22	0.22	1,644.69	71	629.44	38.27				71	629.44	38.27	71	824.81	50.15
Upland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	22	0.02	0.02	180.75	14	10.38	5.74				14	10.38	5.74	8	51.06	28.25
Upland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	371	0.73	0.73	5,338.88	30	383.19	7.18				30	383.19	7.18	33	1,478.44	27.69
Upland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	296	0.59	0.59	4,346.19	42	292.13	6.72				42	292.13	6.72	40	1,799.94	41.41
Upland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	160	0.36	0.36	2,615.38	5	11.13	0.43				5	11.13	0.43	8	339.81	12.99
Upland Black Spruce on organic deposits (peat, muck and marl)	81	0.13	0.13	967.13	1	2.19	0.23				1	2.19	0.23	4	193.38	19.99
Upland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	157	0.42	0.42	3,095.19										4	930.31	30.06
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	3	0.00	0.00	5.38												
WETLANDS																
Open Bog	50	0.01	0.01	63.06	3	0.88	1.39				3	0.88	1.39	6	4.13	6.54
Open Fen	54	0.01	0.01	100.00	4	18.13	18.13				4	18.13	18.13	7	32.25	32.25
Treed Bog	1956	0.34	0.35	2,525.56	180	178.31	7.06				180	178.31	7.06	181	179.50	7.11
Treed Fen	62	0.02	0.02	162.63	5	15.63	9.61				5	15.63	9.61	8	77.13	47.43
Non-Target Natural Ecological Systems																
FORESTS																
Aspen on unknown bedrock	10	0.00	0.00	7.31												
White Birch on unknown bedrock	117	0.07	0.07	548.63	11	61.88	11.28				11	61.88	11.28	11	61.88	11.28
Coniferous Forest on unknown bedrock	390	0.07	0.07	488.31	122	338.81	69.38				122	338.81	69.38	122	338.81	69.38

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	28008	0.65	0.65	4,750.56	4533	1,317.38	27.73				4533	1,317.38	27.73	4533	1,317.38	27.73
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	579	0.01	0.01	83.50	314	50.31	60.25				314	50.31	60.25	314	50.31	60.25
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	129	0.00	0.00	15.69	55	6.81	43.43				55	6.81	43.43	55	6.81	43.43
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1007	0.02	0.02	177.75	114	25.31	14.24				114	25.31	14.24	114	25.31	14.24
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	581	0.02	0.02	155.75	56	7.81	5.02				56	7.81	5.02	56	7.81	5.02
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	408	0.00	0.00	36.50	3	0.81	2.23				3	0.81	2.23	3	0.81	2.23
Coniferous Forest on organic deposits (peat, muck and marl)	250	0.00	0.00	25.69												
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	361	0.01	0.01	44.88												
Deciduous Forest on unknown bedrock	52	0.00	0.01	36.38	21	15.31	42.10				21	15.31	42.10	22	21.56	59.28
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	5354	0.12	0.12	906.63	362	61.31	6.76				362	61.31	6.76	364	70.69	7.80
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	229	0.01	0.01	69.63	22	2.25	3.23				22	2.25	3.23	22	2.25	3.23
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	17	0.00	0.00	5.88	3	0.31	5.32				3	0.31	5.32	3	0.31	5.32
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	277	0.02	0.02	114.19	39	6.19	5.42				39	6.19	5.42	39	6.19	5.42
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	495	0.03	0.03	216.25	25	10.31	4.77				25	10.31	4.77	26	10.56	4.88
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	314	0.00	0.00	30.25	12	1.31	4.34				12	1.31	4.34	12	1.31	4.34
Deciduous Forest on organic deposits (peat, muck and marl)	71	0.00	0.00	5.94												
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	49	0.00	0.00	11.44												
Upland hardwood and mixed conifer on unknown bedrock	130	0.15	0.15	1,125.19	44	456.44	40.57				44	456.44	40.57	44	456.44	40.57
Intolerant hardwoods on unknown bedrock	37	0.03	0.03	223.94	4	40.50	18.09				4	40.50	18.09	4	40.50	18.09
Mixed Forest on unknown bedrock	515	0.13	0.13	947.56	208	833.13	87.92				208	833.13	87.92	208	833.13	87.92
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	30412	1.07	1.08	7,883.19	2591	3,009.19	38.17				2591	3,009.19	38.17	2593	3,016.88	38.27
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1168	0.02	0.02	164.81	328	48.56	29.47				328	48.56	29.47	328	48.56	29.47
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	265	0.00	0.00	33.81	153	16.38	48.43				153	16.38	48.43	153	16.38	48.43
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1684	0.06	0.06	426.94	150	76.56	17.93				150	76.56	17.93	150	76.56	17.93
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	1406	0.05	0.05	385.25	106	33.94	8.81				106	33.94	8.81	106	33.94	8.81
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	946	0.01	0.01	87.50	13	1.50	1.71				13	1.50	1.71	13	1.50	1.71
Mixed forest on organic deposits (peat, muck and marl)	302	0.00	0.00	27.13												
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	273	0.00	0.00	30.63												
Mixed Lowland Conifer on unknown bedrock	5	0.00	0.00	19.88	2	2.69	13.52				2	2.69	13.52	2	2.69	13.52
Jack Pine on unknown bedrock	10	0.01	0.01	62.88												
Lowland Black Spruce on unknown bedrock	15	0.01	0.01	78.38	10	4.56	5.82				10	4.56	5.82	10	4.56	5.82

Ecological System	# of Patches in 3W-5	% of Total Area (ha) in 3W-5	% of Total Natural Cover in 3W-5	Total Area (ha) in 3W-5	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	% System in ANSIs	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																
FORESTS continued																
Mixed Spruce and Pine on unknown bedrock	3	0.00	0.00	0.19												
Upland Black Spruce on unknown bedrock	60	0.07	0.07	497.81	11	47.00	9.44				11	47.00	9.44	11	47.00	9.44
WETLANDS																
Open Muskeg	16740	1.67	1.68	12,284.50	1761	1,001.56	8.15				1761	1,001.56	8.15	1762	1,001.44	8.15
Treed Muskeg	1977	0.33	0.34	2,454.06	123	108.94	4.44				123	108.94	4.44	123	108.94	4.44
OTHER LANDCOVER																
Barren & Scattered	5217	0.11		832.44	83	7.06	0.85				83	7.06	0.85	83	7.06	0.85
Brush and Alder	4015	0.74	0.74	5,409.75	549	436.13	8.06				549	436.13	8.06	549	436.06	8.06
Rock	4049	1.22	1.22	8,954.13	681	801.44	8.95				681	801.44	8.95	681	801.44	8.95
Unclassified (Cloud & Shadow)	9	0.00		5.94	5	5.69	95.79				5	5.69	95.79	5	5.69	95.79
Water	9159	5.82	5.85	42,779.44	1861	8,571.63	20.04				1861	8,571.63	20.04	1862	8,571.69	20.04
Anthropogenic Land Types																
Settlement and Developed Land	1619	0.39		2,849.75	71	96.56	3.39				71	96.56	3.39	71	96.56	3.39

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

Kakabeka

Ecodistrict 4W-2

Great Lakes Conservation Blueprint for Terrestrial Biodiversity

Area: 369,224 hectares (912,372 acres)

Land Ownership: 55% private, 43% Crown, 2% First Nations lands

Planning Authority: 100% Thunder Bay District

Physiography:

The ecodistrict is largely underlain by undifferentiated igneous rock and rounded ridges of granitic bedrock. Flat-topped ridges with valley flats and broader plains contain till deposits in the Thunder Bay area and to the west. Silt and clay dominated glaciolacustrine deposits occur in the central portion of the ecodistrict. Glaciofluvial deposits are present throughout the western and eastern arms of 4W-2. Fluvial deposits are predominant along the Whitefish River.

Natural Cover:

Approximately 89% of the ecodistrict remains as natural cover, primarily forest. Nearly one-third of the natural cover is composed of intolerant hardwoods. Upland hardwood and mixed conifer associations as well as aspen stands are scattered throughout, each representing another 18% of the natural cover. The western portion of the ecodistrict has more Jack Pine associations. Approximately 3% of the natural cover is wetland, primarily open muskeg.

Land Use:

Over 14,000 hectares of 4W-2 have been converted to developed agricultural lands. More than 9,250 hectares are devoted to settlement and other associated developed lands, primarily within the city of Thunder Bay.

Protection and Conservation:

Conservation lands make up approximately 5% of Ecodistrict 4W-2 (19,038 ha). Provincially protected areas account for the majority of this land (17,652 ha). Approximately 1,740 hectares are identified as provincially



significant life science ANSIs. Twenty-four percent of all occurrences of species and vegetation community targets in 4W-2 are within conservation lands, predominantly within provincially protected areas.

Species Targets:

Forty-six of the 52 targeted species occurring in Ecodistrict 3W-3 are vascular plants, 40 of which occur as disjuncts in the Great Lakes ecoregion, including the globally rare Arnica (*Arnica lonchophylla* ssp. *chionopappa*). Many of these species are associated with arctic-alpine habitats. Three species are at risk, including the federally and provincially Endangered American Badger (*Taxidea taxus*), the provincially Endangered Peregrine Falcon (*Falco peregrinus anatum*) and the Black Tern (*Chlidonias niger*) - a species of Special Concern.

Vegetation Community Targets:

Two of the six significant vegetation communities identified in 3W-3 are globally rare, and five are provincially rare, including Basic Open Cliff and Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline. The Moist - Fresh Sugar Maple - Yellow Birch Deciduous Forest is considered to be a high-quality representative community that is important to conservation.

Conservation Blueprint:

The Conservation Blueprint portfolio in Ecodistrict 4W-2 includes approximately 13% of all naturally vegetated cover, and two-thirds of all occurrences of species and vegetation community targets.

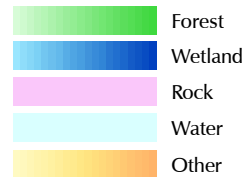
Great Lakes Conservation Blueprint for Biodiversity

KAKABEKA ECODISTRICT 4W-2

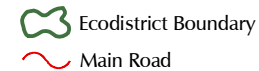
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Ecological Systems



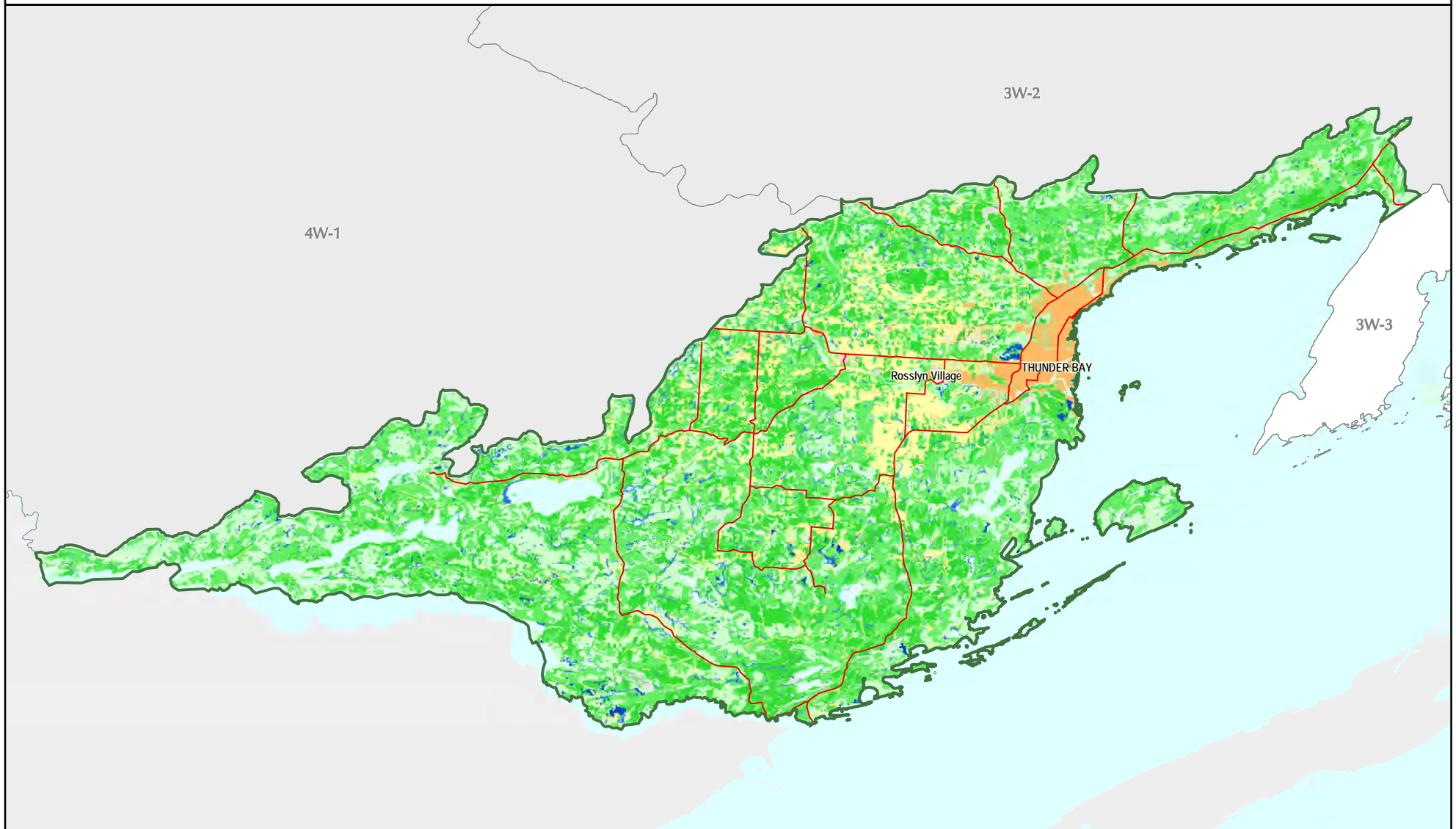
Other Information



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Great Lakes Conservation Blueprint for Biodiversity

KAKABEKA ECODISTRICT 4W-2




5 0 5 10 15 20 km



Terrestrial Conservation Blueprint

-  Parks and Protected Areas
-  Additional Designated Natural Heritage Lands
-  Other Priority Stewardship Lands

Other Information

-  Ecodistrict Boundary
-  Main Road
-  Urban Area

Intervening Natural Cover

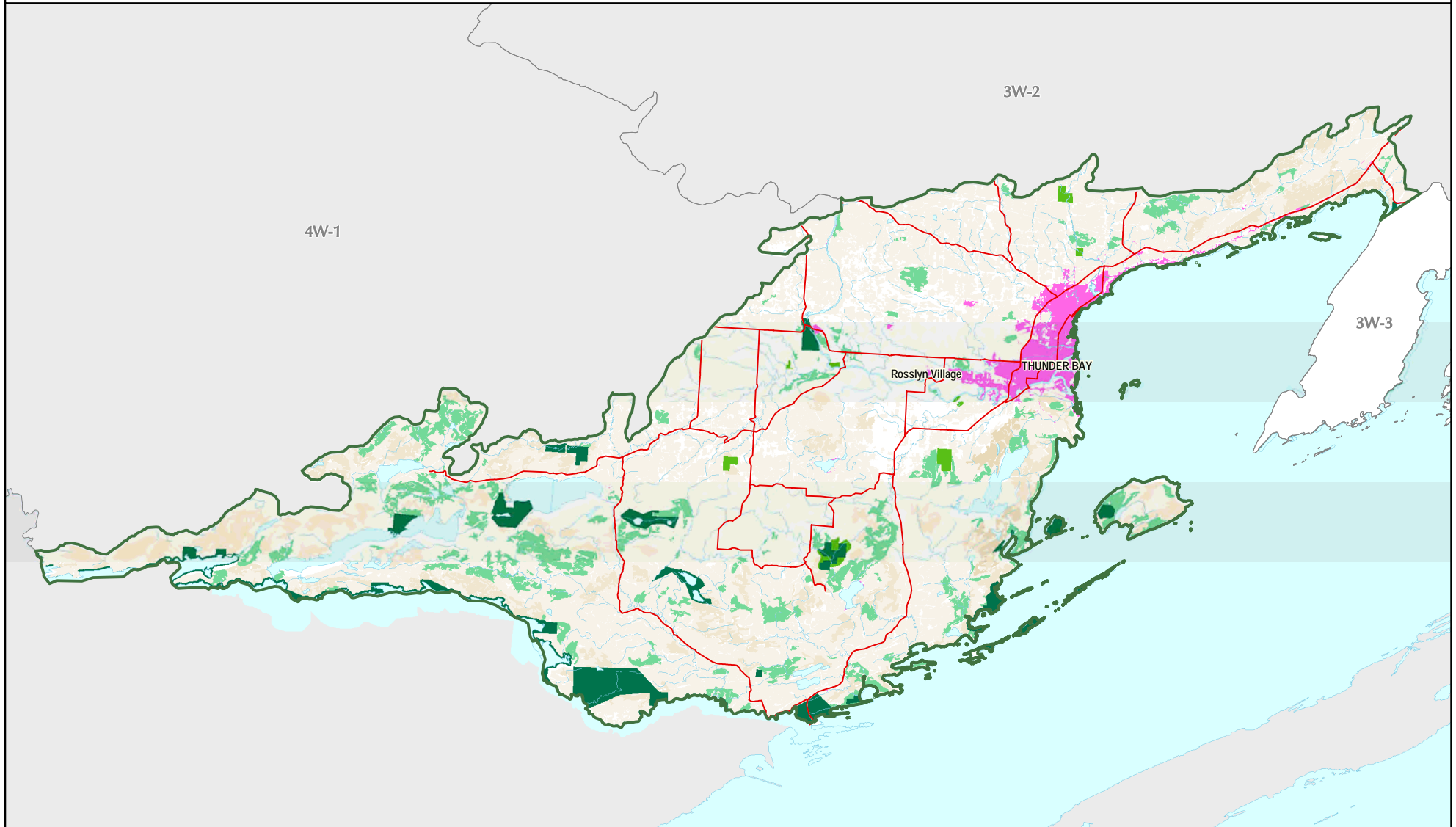
-  Natural Heritage Values



Our goal is to identify a network of sites on the landscape that, if conserved, would sustain all elements of terrestrial biodiversity in the Great Lakes region.

For further information contact the Nature Conservancy of Canada at 1-877-343-3532 or the Natural Heritage Information Centre at 1-705-755-2159.

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Projection: Lambert Conformal Conic (North American Datum 1983)



Documented extant vegetation community and species targets in Ecodistrict 4W-2

Number of pops in 4W-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants															
16	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>	Wild Chives	G5T5	S4			disjunct	0	25	6	0	25	10	63	3
1	<i>Anemone multifida</i>	Early Anemone	G5	S5			disjunct	0	0	0	0	0	1	100	3
3	<i>Antennaria rosea</i>	Pussy-toes	G5	S1			disjunct	0	33	0	0	33	3	100	3
4	<i>Arabis holboellii</i>	Holboell Rock-cress	G5	S4?			disjunct	0	50	0	0	50	4	100	3
1	<i>Arnica lonchophylla</i> ssp. <i>chionopappa</i>	Arnica	G1G2Q	S1			GRank disjunct	0	100	0	0	100	1	100	all viable
2	<i>Botrychium pallidum</i>	Pale Moonwort	G3	S1			GRank	0	0	0	0	0	2	100	4
1	<i>Botrychium spatulatum</i>	Spoon-leaf Moonwort	G3	S1			GRank	0	0	0	0	0	1	100	2
2	<i>Calamagrostis purpurascens</i>	Purple Reed Grass	G5?	S1			disjunct	0	50	0	0	50	2	100	3
3	<i>Carex atratiformis</i>	Black Sedge	G5	S2			disjunct	0	0	0	0	0	3	100	3
10	<i>Carex rossii</i>	Ross' Sedge	G5	S2			disjunct	0	40	10	0	50	8	80	3
2	<i>Carex supina</i>	Sedge	G5	S1			disjunct	0	100	0	0	100	2	100	3
5	<i>Carex xerantica</i>	White-scaled Sedge	G5	S1			disjunct	0	20	0	0	20	5	100	3
1	<i>Castilleja septentrionalis</i>	Labrador Indian-paintbrush	G5	S5			disjunct	0	0	0	0	0	1	100	3
4	<i>Cirsium drummondii</i>	Drummond's Thistle	G5	S1			disjunct	0	0	0	0	0	4	100	3
2	<i>Collinsia parviflora</i>	Small-flowered Blue-eyed Mary	G5	S3			disjunct	0	0	0	0	0	2	100	3
3	<i>Crataegus douglasii</i>	Douglas's Hawthorn	G5	S4			disjunct	0	33	0	0	33	3	100	3
3	<i>Cypripedium arietinum</i>	Ram's-head Lady's-slipper	G3	S3			GRank	0	0	0	0	0	3	100	4
1	<i>Draba aurea</i>	Golden Draba	G5	S5			disjunct	0	0	0	0	0	1	100	3
3	<i>Draba cana</i>	Hoary Draba	G5	S4			disjunct	0	67	0	0	67	3	100	3
1	<i>Draba glabella</i>	Rock Whitlow-grass	G4G5	S4S5			disjunct	0	100	0	0	100	1	100	3
1	<i>Dryopteris filix-mas</i>	Male Fern	G5	S4			disjunct	0	0	0	0	0	1	100	3
4	<i>Empetrum nigrum</i>	Black Crowberry	G5	S5			disjunct	0	50	0	0	50	4	100	3
1	<i>Festuca occidentalis</i>	Western Fescue	G5	S4?			disjunct	0	0	0	0	0	1	100	3
2	<i>Hedysarum alpinum</i>	Alpine Sweet-vetch	G5	S4S5			disjunct	0	0	0	0	0	2	100	3
1	<i>Huperzia appalachiana</i>	Appalachian Fire-clubmoss	G4G5	S3?			disjunct	0	0	0	0	0	1	100	3
1	<i>Juncus subtilis</i>	Creeping Rush	G3	S3			GRank	0	0	0	0	0	1	100	2
3	<i>Leucophysalis grandiflora</i>	Large-flowered Ground-cherry	G3?	S3?			GRank	0	67	0	0	0	3	100	4
1	<i>Listera auriculata</i>	Auricled Twayblade	G3	S3			GRank	0	0	0	0	0	1	100	2
3	<i>Moehringia macrophylla</i>	Large-leaved Sandwort	G4	S2			disjunct	0	0	0	0	67	3	100	3
1	<i>Osmorhiza berterii</i>	Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
1	<i>Osmorhiza depauperata</i>	Blunt-fruited Sweet-cicely	G5	S4			disjunct	0	0	0	0	0	1	100	3
2	<i>Oxytropis borealis</i> var. <i>viscida</i>	Nuttall's Oxytrope	G5T4?	S1			disjunct	0	100	0	0	100	2	100	3
6	<i>Phacelia franklinii</i>	Wild Heliotrope	G5	S2			disjunct	0	0	0	0	0	6	100	3
4	<i>Pinguicula vulgaris</i>	Common Butterwort	G5	S5			disjunct	0	75	25	0	75	4	100	3
14	<i>Poa glauca</i> ssp. <i>glauca</i>	White Bluegrass	G5	S4			disjunct	0	21	0	0	21	7	50	3
2	<i>Poa secunda</i>	Canby Blue Grass	G5	S1			disjunct	0	100	0	0	100	2	100	3
2	<i>Polygonum viviparum</i>	Viviparous Knotweed	G5	S5			disjunct	0	0	0	0	0	2	100	3
41	<i>Rubus parviflorus</i>	A Bramble	G5	S4			disjunct	0	7	0	0	7	9	22	3
2	<i>Sagina nodosa</i>	Knotted Pearlwort	G5	S4S5			disjunct	0	0	0	0	0	2	100	3
1	<i>Saxifraga paniculata</i>	White Mountain-saxifrage	G5	S4			disjunct	0	100	0	0	100	1	100	3
1	<i>Selaginella selaginoides</i>	Low Spike-moss	G5	S4			disjunct	0	0	0	0	0	1	100	3

Number of pops in 4W-2	Scientific Name	Common Name	GRank	SRank	COSEWIC	OMNR	Justification	% of pops in federally protected areas	% of pops in provincially protected areas	% of pops in PS LS-ANSIs	% of pops in CAs	% of pops in all conservation lands	# of pops in the portfolio	% of pops in the portfolio	Goal
Vascular Plants continued															
1	<i>Senecio congestus</i>	Marsh Ragwort	G5	S5			disjunct	0	0	0	0	0	1	100	3
6	<i>Senecio eremophilus</i>	Desert Groundsel	G5	S1			disjunct	0	33	0	0	33	3	50	3
1	<i>Viola epipsila</i>	Northern Marsh Violet	G4	S3			disjunct	0	0	0	0	0	1	100	3
3	<i>Woodsia alpina</i>	Northern Woodsia	G4	S2			disjunct	0	0	0	0	0	3	100	3
2	<i>Woodsia glabella</i>	Smooth Woodsia	G5	S3			disjunct	0	0	0	0	0	2	100	3
Mosses & Liverworts															
1	<i>Amphidium mougeotii</i>	A Moss	G5	S1			disjunct	0	0	0	0	0	1	100	3
1	<i>Mannia pilosa</i>	A Liverwort	G4?	S1			disjunct	0	0	0	0	0	1	100	3
Birds															
1	<i>Chlidonias niger</i>	Black Tern	G4	S3B,SZN	NAR	SC	SAR	0	0	0	0	0	0	0	secondary
13	<i>Falco peregrinus anatum</i>	Peregrine Falcon	G4T3	S2S3B,SZN	THR	END-R	GRank SAR	0	8	8	0	15	3	23	secondary
Mammals															
1	<i>Taxidea taxus</i>	American Badger	G5	S2	END	END	SAR	0	0	0	0	0	0	0	secondary
Odonata															
1	<i>Ophiogomphus anomalus</i>	Extra-striped Snaketail	G3	S2			GRank	0	0	0	0	0	1	100	4
Communities															
20	Basic Open Cliff Type		G?	S3S4			SRank	0	20	0	0	20	6	30	3
1	Boreal Open Seepage Fen Type		G2Q	S2S3			GRank	0	0	0	0	0	1	100	all viable
2	Bur Oak - Saskatoon Berry Dry Deciduous Woodland Type		G3	S2			GRank	0	0	50	0	50	2	100	all viable
2	Dry Fescue Mixedgrass Prairie Type		G?	S1			SRank	0	0	0	0	0	2	100	3
7	Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type		G?	S3			SRank	0	86	43	0	86	6	86	3
1	Moist - Fresh Sugar Maple - Yellow Birch Deciduous Forest Type		G5?	S5			high quality	0	0	100	0	100	1	100	secondary

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).

The summaries of species and vegetation community targets are based on extant Element Occurrence data and other digital data from the Natural Heritage Information Centre (NHIC) databases in the spring of 2004. Some of the population data may have been incomplete at this time, and EO data continues to be updated. These ranks and status designations are current as of spring 2005, and are updated periodically. See NHIC webpage for current designations.

Ecological systems summary for Ecodistrict 4W-2

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservati-on Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target forests	17374	73.31	82.08	270663.63	1024	10014.19	3.70	87	1144.56	45	313.19	1135	11144.31	4.12	1266	35891.31	13.26
Target wetlands	974	0.34	0.38	1246.63	110	229.50	18.41	11	43.69	0	0.00	109	241.13	19.34	110	242.00	19.41
All ecological systems	116388	100.00	100.00	369223.44	5706	17651.69	4.78	570	1740.13	202	354.13	6238	19037.50	5.16	6405	44865.00	12.15

Ecological systems details for Ecodistrict 4W-2

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservati-on Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS																	
Aspen on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1841	7.68	8.60	28,344.75	72	509.88	1.80	3	21.75	6	4.88	81	536.50	1.89	85	2,071.13	7.31
Aspen on fluvial (gravel, sand, silt and clay, deposited on flood plains)	137	0.41	0.46	1,502.75	2	13.75	0.91	1	0.88			3	14.63	0.97	6	297.00	19.76
Aspen on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	214	0.44	0.49	1,629.19	1	0.75	0.05			1	0.75	2	1.50	0.09	5	355.13	21.80
Aspen on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	187	0.56	0.63	2,061.31	1	4.69	0.23	1	11.94	4	40.13	6	56.75	2.75	9	411.25	19.95
Aspen on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	199	0.66	0.73	2,421.25	9	72.94	3.01					9	72.94	3.01	11	101.81	4.20
Aspen on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	985	4.11	4.60	15,157.31	17	110.75	0.73	11	46.50			28	157.25	1.04	28	1,033.88	6.82
Aspen on organic deposits (peat, muck and marl)	83	0.28	0.31	1,031.06	13	24.63	2.39					13	24.63	2.39	11	455.38	44.17
Aspen on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	609	2.23	2.49	8,220.38	1	2.50	0.03	1	2.56	2	2.00	4	7.06	0.09	7	668.88	8.14
White Birch on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	522	3.18	3.56	11,739.31	44	732.63	6.24			1	1.25	45	733.88	6.25	48	1,985.75	16.92
White Birch on fluvial (gravel, sand, silt and clay, deposited on flood plains)	16	0.02	0.02	61.50											3	42.13	68.50
White Birch on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	44	0.13	0.14	462.50	1	24.19	5.23					1	24.19	5.23	3	257.31	55.64
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	33	0.20	0.22	731.00						3	55.44	3	55.44	7.58	6	359.19	49.14
White Birch on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	55	0.14	0.15	506.38	12	74.00	14.61					12	74.00	14.61	11	147.31	29.09
White Birch on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	112	0.37	0.41	1,363.31	15	160.50	11.77					15	160.50	11.77	15	283.19	20.77
White Birch on organic deposits (peat, muck and marl)	21	0.03	0.04	126.63	1	23.81	18.81					1	23.81	18.81	3	69.38	54.79
White Birch on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	51	0.14	0.16	522.38				1	8.00	1	6.19	2	14.19	2.72	5	231.44	44.30
Upland hardwood and mixed conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1941	9.65	10.81	35,642.69	179	1,948.69	5.47	6	68.81	3	8.69	186	1,985.63	5.57	184	4,391.38	12.32
Upland hardwood and mixed conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	130	0.36	0.40	1,323.19	4	43.31	3.27					4	43.31	3.27	7	194.00	14.66

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Upland hardwood and mixed conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	182	0.49	0.54	1,796.75	8	1.63	0.09					8	1.63	0.09	12	595.56	33.15
Upland hardwood and mixed conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	249	0.60	0.68	2,231.56	3	18.50	0.83			8	91.88	11	110.38	4.95	14	429.88	19.26
Upland hardwood and mixed conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	158	0.55	0.62	2,042.31	15	154.44	7.56			2	3.25	17	157.69	7.72	19	520.69	25.49
Upland hardwood and mixed conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	875	3.26	3.65	12,025.00	55	464.94	3.87	19	195.13			68	594.06	4.94	69	1,274.63	10.60
Upland hardwood and mixed conifer on organic deposits (peat, muck and marl)	116	0.34	0.38	1,265.94	3	74.31	5.87					3	74.31	5.87	4	221.19	17.47
Upland hardwood and mixed conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	579	1.63	1.82	6,015.44	9	23.75	0.39	1	0.13	3	12.19	13	36.06	0.60	16	163.56	2.72
Intolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	2389	16.12	18.04	59,503.06	182	2,786.63	4.68	7	81.56	1	21.81	188	2,880.63	4.84	190	7,403.75	12.44
Intolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	187	0.59	0.66	2,187.88	16	49.81	2.28	3	10.88			19	60.69	2.77	19	434.00	19.84
Intolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	205	0.67	0.75	2,463.88	4	20.19	0.82					4	20.19	0.82	6	424.25	17.22
Intolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	260	0.93	1.05	3,449.88	2	6.00	0.17			5	30.31	7	36.31	1.05	11	649.38	18.82
Intolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	219	0.95	1.07	3,525.94	25	165.81	4.70			3	34.13	28	199.94	5.67	27	606.56	17.20
Intolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	1138	4.96	5.56	18,319.94	49	418.44	2.28	14	204.25			61	620.06	3.38	61	1,794.75	9.80
Intolerant hardwoods on organic deposits (peat, muck and marl)	161	0.47	0.52	1,727.25	9	98.38	5.70					9	98.38	5.70	11	561.31	32.50
Intolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	675	3.20	3.58	11,814.50	1	5.81	0.05	3	35.69	2	0.31	6	41.81	0.35	8	641.25	5.43
Mixed Lowland Conifer on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	324	0.98	1.10	3,628.31	41	348.19	9.60					41	348.19	9.60	43	500.44	13.79
Mixed Lowland Conifer on fluvial (gravel, sand, silt and clay, deposited on flood plains)	21	0.05	0.06	185.00	2	1.50	0.81					2	1.50	0.81	4	123.88	66.96
Mixed Lowland Conifer on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	14	0.03	0.04	125.00	1	0.06	0.05					1	0.06	0.05	4	44.88	35.90
Mixed Lowland Conifer on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	28	0.06	0.07	226.06	1	7.50	3.32					1	7.50	3.32	3	94.00	41.58
Mixed Lowland Conifer on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	47	0.26	0.29	962.63	6	63.56	6.60					6	63.56	6.60	5	130.13	13.52
Mixed Lowland Conifer on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	121	0.41	0.45	1,498.44	15	87.50	5.84					15	87.50	5.84	16	416.38	27.79
Mixed Lowland Conifer on organic deposits (peat, muck and marl)	56	0.10	0.11	372.75	9	52.25	14.02					9	52.25	14.02	10	177.75	47.69
Mixed Lowland Conifer on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	148	0.35	0.40	1,307.88	3	9.31	0.71					3	9.31	0.71	5	68.44	5.23
Jack Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	330	1.18	1.33	4,371.06	42	125.00	2.86					42	125.00	2.86	42	786.88	18.00

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservation Lands	Total Area (ha) in all Conservation Lands	% System in all Conservation Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Jack Pine on fluvial (gravel, sand, silt and clay, deposited on flood plains)	4	0.00	0.01	17.81													
Jack Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	37	0.12	0.14	448.25	1	2.19	0.49					1	2.19	0.49	4	223.06	49.76
Jack Pine on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	20	0.03	0.03	106.50											3	7.81	7.34
Jack Pine on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	17	0.02	0.03	89.81											3	67.06	74.67
Jack Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	64	0.23	0.26	847.19	3	0.19	0.02					3	0.19	0.02	3	344.94	40.72
Jack Pine on organic deposits (peat, muck and marl)	10	0.03	0.03	97.06											3	64.25	66.19
Jack Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	25	0.04	0.05	164.50											3	47.56	28.91
Mixed White and Red Pine on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	64	0.30	0.33	1,093.38	13	154.94	14.17					13	154.94	14.17	14	322.75	29.52
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	5	0.03	0.03	101.56											3	97.31	95.82
Mixed Red and White Pine on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	17	0.11	0.13	422.81	4	95.50	22.59					4	95.50	22.59	3	218.38	51.65
Mixed Red and White Pine on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	26	0.08	0.09	312.75	4	10.06	3.22					4	10.06	3.22	4	147.00	47.00
Mixed Red and White Pine on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	3	0.00	0.00	9.31													
Lowland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	115	0.24	0.27	880.94	18	176.19	20.00	1	5.88			17	181.81	20.64	16	218.75	24.83
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	7	0.02	0.03	84.06											3	62.06	73.83
Lowland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	11	0.02	0.02	65.75											3	35.88	54.56
Lowland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	23	0.04	0.05	150.31											3	39.81	26.49
Lowland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	21	0.07	0.08	252.75	6	58.63	23.19					6	58.63	23.19	7	142.63	56.43
Lowland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	59	0.32	0.35	1,168.88	15	326.88	27.96	3	251.19			14	383.75	32.83	15	530.25	45.36
Lowland Black Spruce on organic deposits (peat, muck and marl)	32	0.11	0.13	419.63	6	68.31	16.28					6	68.31	16.28	6	68.31	16.28
Lowland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	31	0.06	0.07	229.38											3	66.81	29.13
Upland Black Spruce on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	352	0.69	0.77	2,543.50	32	176.75	6.95	1	4.94			32	178.25	7.01	33	229.56	9.03
Upland Black Spruce on fluvial (gravel, sand, silt and clay, deposited on flood plains)	22	0.03	0.04	120.69											3	51.31	42.52

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservati-on Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Target Natural Ecological Systems																	
FORESTS continued																	
Upland Black Spruce on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	55	0.10	0.12	386.88											3	138.94	35.91
Upland Black Spruce on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	67	0.10	0.11	365.50											3	41.75	11.42
Upland Black Spruce on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	28	0.07	0.08	269.06	2	14.13	5.25					2	14.13	5.25	4	116.56	43.32
Upland Black Spruce on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	127	0.44	0.49	1,620.69	15	76.88	4.74	1	10.50			15	83.81	5.17	18	257.38	15.88
Upland Black Spruce on organic deposits (peat, muck and marl)	36	0.10	0.12	382.44	5	52.81	13.81					5	52.81	13.81	7	139.19	36.39
Upland Black Spruce on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	75	0.19	0.21	683.75	2	1.56	0.23					2	1.56	0.23	5	36.06	5.27
Tolerant hardwoods on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	142	0.46	0.52	1,715.69	10	7.63	0.44	4	124.13			14	131.75	7.68	15	341.38	19.90
Tolerant hardwoods on fluvial (gravel, sand, silt and clay, deposited on flood plains)	28	0.04	0.04	144.56				2	21.75			2	21.75	15.05	4	64.94	44.92
Tolerant hardwoods on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	6	0.00	0.00	14.44													
Tolerant hardwoods on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	14	0.02	0.02	58.25											3	31.75	54.51
Tolerant hardwoods on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	19	0.03	0.04	121.63	7	16.69	13.72					7	16.69	13.72	5	56.50	46.45
Tolerant hardwoods on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	67	0.18	0.20	670.44	8	44.38	6.62	2	8.06			9	44.94	6.70	11	177.38	26.46
Tolerant hardwoods on organic deposits (peat, muck and marl)	16	0.03	0.04	124.00											3	22.19	17.89
Tolerant hardwoods on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	67	0.16	0.18	586.19				2	30.06			2	30.06	5.13	4	62.81	10.72
WETLANDS																	
Open Bog	179	0.05	0.05	189.25	15	38.25	20.21	2	3.19			16	39.19	20.71	17	40.00	21.14
Open Fen	8	0.00	0.01	17.81	2	6.00	33.68					2	6.00	33.68	2	6.00	33.68
Treed Bog	586	0.21	0.23	774.75	68	139.88	18.05	9	40.50			66	150.56	19.43	66	150.56	19.43
Treed Fen	201	0.07	0.08	264.81	25	45.38	17.13					25	45.38	17.13	25	45.44	17.16
Non-Target Natural Ecological Systems																	
FORESTS																	
Aspen on unknown bedrock	99	0.19	0.21	694.63	7	27.88	4.01					7	27.88	4.01	7	27.88	4.01
White Birch on unknown bedrock	71	0.26	0.30	974.25	29	268.31	27.54					29	268.31	27.54	30	314.50	32.28
Coniferous Forest on unknown bedrock	70	0.02	0.02	76.94	13	16.88	21.93	1	4.69			13	16.88	21.93	13	16.88	21.93
Coniferous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	1278	0.08	0.09	300.06	155	26.63	8.87	4	1.75			155	26.63	8.87	155	26.63	8.87

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservati-on Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																	
FORESTS continued																	
Coniferous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	39	0.00	0.00	5.69													
Coniferous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	53	0.00	0.00	7.44													
Coniferous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	256	0.03	0.03	105.63	1	1.56	1.48			12	5.56	13	7.13	6.75	13	7.13	6.75
Coniferous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	208	0.03	0.03	99.00	34	3.00	3.03					34	3.00	3.03	34	3.00	3.03
Coniferous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	350	0.03	0.03	101.13	49	3.75	3.71	37	3.38			53	4.75	4.70	53	4.75	4.70
Coniferous Forest on organic deposits (peat, muck and marl)	262	0.03	0.03	95.06	38	5.00	5.26					38	5.00	5.26	39	5.56	5.85
Coniferous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	248	0.04	0.04	143.13	9	81.50	56.94			4	1.38	13	82.88	57.90	13	82.88	57.90
Deciduous Forest on unknown bedrock	359	0.06	0.06	209.00	86	41.31	19.77	2	4.69	1	0.06	87	41.38	19.80	88	41.44	19.83
Deciduous Forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	18705	1.43	1.60	5,276.81	1080	364.31	6.90	15	3.13	16	3.06	1104	368.56	6.98	1108	384.69	7.29
Deciduous Forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	1578	0.11	0.13	420.50	17	3.38	0.80	7	3.69			24	7.06	1.68	25	10.63	2.53
Deciduous Forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	820	0.05	0.06	194.44											2	0.13	0.06
Deciduous Forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1214	0.16	0.17	575.81	10	8.81	1.53	2	3.00	28	4.75	40	16.56	2.88	40	22.38	3.89
Deciduous Forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	2062	0.25	0.28	918.50	122	22.56	2.46			6	0.63	128	23.19	2.52	131	38.06	4.14
Deciduous Forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	9900	0.60	0.67	2,210.00	192	17.38	0.79	116	12.63			280	28.19	1.28	281	28.81	1.30
Deciduous Forest on organic deposits (peat, muck and marl)	668	0.06	0.06	214.00	28	2.69	1.26					28	2.69	1.26	28	2.69	1.26
Deciduous Forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	6528	0.54	0.61	2,003.63	12	1.50	0.07	11	2.44			23	3.94	0.20	25	12.06	0.60
Upland hardwood and mixed conifer on unknown bedrock	142	0.27	0.31	1,013.00	62	249.44	24.62			1	0.31	63	249.75	24.65	63	249.69	24.65
Intolerant hardwoods on unknown bedrock	175	0.48	0.53	1,756.06	26	233.19	13.28			1	0.44	27	233.63	13.30	30	387.81	22.08
Mixed Forest on unknown bedrock	345	0.09	0.10	323.63	82	136.13	42.06	6	24.00	2	0.13	84	136.31	42.12	83	136.25	42.10
Mixed forest on bedrock with undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift	10535	0.63	0.71	2,332.63	716	253.81	10.88	17	8.88	3	0.38	723	254.56	10.91	727	256.81	11.01
Mixed forest on fluvial (gravel, sand, silt and clay, deposited on flood plains)	495	0.02	0.02	80.19	30	5.25	6.55	1	0.06			31	5.31	6.63	31	5.31	6.63
Mixed forest on glaciofluvial ice-contact deposits (gravel and sand, minor till, includes esker, kame, end moraine, ice-marginal delta and subaqueous fan deposits)	570	0.02	0.02	80.19	7	1.19	1.48					7	1.19	1.48	7	1.19	1.48
Mixed forest on glaciofluvial outwash deposits (gravel and sand, includes proglacial river and deltaic deposits)	1028	0.10	0.12	384.94	3	0.31	0.08			48	8.38	51	8.69	2.26	51	8.69	2.26
Mixed forest on glaciolacustrine deposits (sand, gravelly sand and gravel, nearshore and beach deposits)	745	0.06	0.07	230.44	72	9.38	4.07			6	0.38	78	9.75	4.23	79	9.88	4.29
Mixed forest on glaciolacustrine deposits (silt and clay, minor sand, basin and quiet water deposits)	3928	0.17	0.19	610.94	314	30.88	5.05	117	10.88			376	36.81	6.03	375	36.75	6.02
Mixed forest on organic deposits (peat, muck and marl)	475	0.03	0.03	104.88	34	5.50	5.24					34	5.50	5.24	34	5.50	5.24

Ecological System	# of Patches in 4W-2	% of Total Area (ha) in 4W-2	% of Total Natural Cover in 4W-2	Total Area (ha) in 4W-2	# of Patches in Parks & PAs	Total Area (ha) in Parks & PAs	% System in Parks & PAs	# of Patches in ANSIs	Total Area (ha) in ANSIs	# of Patches in CA Lands	Total Area (ha) in CA Lands	# of Patches in all Conservat-ion Lands	Total Area (ha) in all Conservati-on Lands	% System in all Conservat-ion Lands	# of Patches in Blueprint	Total Area (ha) in Blueprint	% System in Blueprint
Non-Target Natural Ecological Systems																	
FORESTS continued																	
Mixed forest on till with undifferentiated, predominantly sand to silty sand matrix, high content of clasts, often low in matrix carbonate content	2023	0.20	0.23	749.44	11	126.25	16.85					11	126.25	16.85	11	126.25	16.85
Mixed Lowland Conifer on unknown bedrock	26	0.05	0.05	180.56	5	39.63	21.95					5	39.63	21.95	5	39.63	21.95
Jack Pine on unknown bedrock	13	0.06	0.06	212.00	1	8.38	3.95					1	8.38	3.95	2	83.81	39.53
Mixed Red and White Pine on unknown bedrock	1	0.00	0.00	12.75	1	12.75	100.00					1	12.75	100.00	1	12.75	100.00
Lowland Black Spruce on unknown bedrock	3	0.00	0.00	8.56													
Upland Black Spruce on unknown bedrock	8	0.00	0.00	15.63	2	0.19	1.20					2	0.19	1.20	2	0.19	1.20
Tolerant hardwoods on unknown bedrock	4	0.01	0.01	32.75	1	0.31	0.95					1	0.31	0.95	1	0.31	0.95
WETLANDS																	
Open Muskeg	6180	2.10	2.35	7,760.81	289	411.13	5.30	19	56.63	8	1.69	303	420.44	5.42	305	449.69	5.79
Treed Muskeg	456	0.42	0.46	1,532.81	75	241.13	15.73	10	71.44			75	276.69	18.05	75	276.69	18.05
OTHER LANDCOVER																	
Barren & Scattered	12546	0.53		1,943.38	118	20.13	1.04	27	2.81	2	0.25	142	22.88	1.18	142	22.88	1.18
Brush and Alder	2141	2.11	2.37	7,799.88	103	326.94	4.19	19	122.00	10	12.38	121	416.13	5.34	121	417.56	5.35
Grass & Meadow	5547	3.42		12,623.88	35	41.50	0.33	16	22.06	3	0.56	54	64.13	0.51	58	428.38	3.39
Rock	934	0.80	0.89	2,944.94	86	331.69	11.26	4	13.56			89	343.81	11.67	97	394.25	13.39
Unclassified (Cloud & Shadow)	602	0.41		1,498.31	189	1,198.81	80.01	1	139.19			189	1,198.81	80.01	189	1,198.69	80.00
Water	2681	4.08	4.57	15,055.50	403	2,821.69	18.74	35	29.19	6	0.63	427	2,828.38	18.79	425	3,134.94	20.82
Anthropogenic Land Types																	
Developed Agricultural Land	889	3.83		14,135.94	1	0.13	0.00	5	11.81			6	11.94	0.08	6	11.94	0.08
Settlement and Developed Land	780	2.51		9,263.56	24	5.88	0.06					24	5.88	0.06	24	5.81	0.06

Parks and Protected Areas include **federally protected areas** (National Parks, National Wildlife Areas, Migratory Bird Sanctuaries) and **provincially protected areas** (Provincial Parks and Conservation Reserves).

All Conservation Lands are parks and protected areas (defined above) and additional designated natural heritage lands which includes provincially significant life science Areas of Natural and Scientific Interest, Conservation Authority lands, provincially significant wetlands and Nature Conservancy of Canada lands.

Other Priority Stewardship Lands are **portfolio sites** (all remaining Great Lakes Conservation Blueprint portfolio sites that are not regulated protected areas or designated natural heritage or conservation lands).



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