

## Appendix G.6

Fifteen Mile Stream Priority Species List, McCallum Environmental Ltd.



Scientific Name	Common Name	SARAi	COSEWICii	NSESAiii	SRankiv	Habitat Requirements
				Birds		
Botaurus lentiginosus	American Bittern				S3S4B	Preferred habitats of the American bittern include freshwater wetlands with tall emergent vegetation. In Nova Scotia, it occurs widely in most regions, but is scarce on the Atlantic slope and Cape Breton Island, where marshes are few and relatively infertile.
Turdus migratorius	American Robin				S5B, S3N	American Robins are common across the continent in gardens, parks, yards, golf courses, fields, pastures, tundra, as well as deciduous woodlands, pine forests, shrublands, and forests regenerating after fires or logging.
Icterus galbula	Baltimore Oriole				S2S3B	The Baltimore oriole is an adaptable species (found breeding in diverse habitats), but typically favors woodland edge (especially riparian) and open areas with scattered trees; strong preference for deciduous over coniferous trees. During spring and fall migration, it is found in variety of habitats, but generally favors open woodlands, woodland margins, hedgerows, and urban parks.
Riparia riparia	Bank Swallow	Th	Th	Endangered	S2S3B	The Bank Swallow breeds wherever suitable nesting sites in banks and cliffs are available. Nesting colonies are usually found near open areas, and often close to water. Bank Swallows will also nest in artificial banks, such as road cuttings and gravel pits. Found in all regions of the Maritimes, but scarce in many inland forested areas.
Hirundo rustica	Barn Swallow	Th	Th	Endangered	S2S3B	In the Maritimes the Barn Swallow breeds everywhere there are buildings and other structures that provide sheltered, dry nest-sites, even nesting on isolated cabins in deep woodland and on fishing shacks on offshore islands. A recent innovation, in remote logging areas with no alternatives, has been their basing nests on bolt-heads low in the sides of large corrugated metal culverts. However, nests in natural situations, in caves or under overhanging cliffs, usually close to water, are very rare.



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Dendroica	Bay-breasted				S3S4B	The Bay-breasted is one of the less widespread warblers,
castanea	Warbler					breeding in a narrow band across the closed boreal forests
						from northeast British Columbia to western Newfoundland,
						and south just into the U.S.A. Although during migrations and
						while foraging it is often seen in mixed stands, this bird nests
						only in conifers. Reaching highest densities in balsam fir
						forest infested with spruce budworm.
Picoides arcticus	Black-backed				S3S4	In the Maritimes, the black-backed woodpecker is widely but
	Woodpecker					thinly distributed in conifer forests throughout, becoming
						more common farther north. The black-backed woodpecker
						is very local in southwest Nova Scotia. These birds forage on
						trees damaged by forest insects, especially bark beetles, and
						their characteristic flaking-off of bark fragments in search of
						food can be an aid in detecting them. Nests here are often in
						quite open situations, such as cut-over areas, open jack pine
						stands, and the edges of woodland gardens.
Coccyzus	Black-billed Cuckoo				S3B	In the northern parts of its range, the Black-billed Cuckoo's
erythropthalmus						numbers vary greatly from year to year in response to
						outbreaks of both the forest and orchard species of tent
						caterpillars, on which it feeds. It is associated with open
						woodland and forest edge and nests in small trees and tall
5 1 :	DI 1 1134/ 11				62645	shrubs.
Dendroica striata	Blackpoll Warbler				S3S4B	In the Maritimes, the Blackpoll Warbler breeds mainly in cool,
						damp spruce forests. During spring and fall migration, it uses
						a variety of habitats, although often partial to spruces, even
Danaila budancian	Daniel Chiefeadae				63	when they are only a small component of the habitat.
Poecile hudsonica	Boreal Chickadee				S3	The Boreal chickadee prefers conifer, and especially spruce,
						forests all across the northern regions of Canada. Boreal
						Chickadees are found in all parts of the Maritimes. Most are residents, but some wander after breeding season.
Wilsonia	Canada Warbler	Th	Th	Endangered	S3B	In Nova Scotia, the Canada warbler has only been found
canadensis	Canada Warbiel	'''	'''	Ellualigereu	330	sparsely on Cape Breton Island and in the extreme southwest
cullulelisis						
						of the province. They are less predictable from habitat than



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						most warblers, they are usually found in dense understory
						vegetation of mature to mid-aged mixed forest, most closely
						associated with broad-leafed trees and shrubs, but with
						conifers usually present too.
Dendroica tigrina	Cape May Warbler				S2B	In summer, the Cape May warbler is found in northern
						conifer forests. One of several warbler species that attain
						high densities during spruce budworm outbreaks, but is more
						usual in mature spruces than in balsam fir stands. Activity is
						mostly at the tops of tall spruces. Rarely observed in the
						southwest of Nova Scotia due to unsuitable habitat.
Chaetura pelagica	Chimney Swift	Th	Th	Endangered	S2B, S1M	The chimney swift is most often seen on the wing and while
						entering their nesting places; these are often in chimneys or
						old cabins in the forest, but most swifts originally nested, and
						still nest in hollow trees.
Chordeiles minor	Common	Th	Th	Threatened	S2B	Common nighthawks nest on sparsely vegetated or bare
	Nighthawk					ground in open "wastelands" such as pine barrens, forest cut-
						overs, or burns, and secondarily on flat roofs of buildings.
Sialia sialis	Eastern Bluebird		NAR		S3B	The Eastern bluebird nests in woodpecker holes, as well as
						nest-boxes. They forage in open areas of low vegetation with
						scattered trees for nesting.
Tyrannus tyrannus	Eastern Kingbird				S3B	In its breeding range, the eastern kingbird uses open
						environments; usually breeds in fields with scattered shrubs
						and trees, orchards, along shelterbelts, and especially along
						woodland edges in forested regions. A "savannah species",
						but given suitable nest sites and perches, will nest in many
						other habitats—e.g., desert riparian, quaking aspen (Populus
						tremuloides) parkland, recently burned forest, beaver ponds,
						golf courses and forested river valleys, and urban
						environments with tall trees and scattered open spaces. Also
						appears drawn to water; often nests densely in trees that
						overhang water or in dead, standing snags surrounded by
						water.



Scientific Name	Common Name	SARAi	COSEWIC	NSESA	SRankiv	Habitat Requirements
Contopus virens	Eastern Wood- Pewee	SC	SC	Vulnerable	S3S4B	The Eastern Wood-pewee is a bird of openings and edges more than of closed forest, in the Maritimes, and they readily use well-spaced shade trees in rural and urban settlements.  Associated with broad-leafed trees.
Coccothraustes vespertinus	Evening Grosbeak	No Status	SC	Vulnerable	S3S4B, S3N	Evening Grosbeaks breed in mature and second-growth coniferous forests of northern North America and the Rocky Mountains, including spruce-fir, pine-oak, pinyon-juniper, and aspen forests. Less commonly, they nest in deciduous woodlands, parks, and orchards. They breed as far south as Mexico at 5,000–10,000 feet of elevation in pine and pine-oak woodlands. In winter Evening Grosbeaks live in coniferous forest and deciduous forest as well as in urban and suburban areas. When wintering in urban environments they are most abundant in small woodlots near bird feeders
Dumetella carolinensis	Gray Catbird				S3B	The Gray Catbird inhabits shrubbery in both upland and riveredge situations, mostly in areas where tree cover is of broadleafed species. The Maritimes are at the northeast edge of its range, and catbirds are nearly absent in upland areas of northern New Brunswick, in Prince Edward Island and Cape Breton Island, as well as in regions with extensive conifer forest cover.
Perisoreus canadensis	Gray Jay				S3	The Gray Jay breeds in boreal regions and occurs year-round in the conifer forests. These birds are found all over the Maritimes except where extensive conifer forests are lacking. They seldom leave the spruce and fir forests where they nest.
Tringa melanoleuca	Greater Yellowlegs				S3B, S3S4M	During migration, the greater yellowlegs is a familiar sight in salt marshes and around ponds and rivers, but their breeding habitat is very different. Yellowlegs breed in wooded bogs and muskegs access the boreal forest from northern British Columbia and Mackenzie to Labrador, Newfoundland and eastern Nova Scotia.
Charadrius vociferus	Killdeer				S3B	The killdeer is found throughout Nova Scotia, but scarce on the Atlantic slope and on Cape Breton Island. Breed in



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						farmlands, gravel pits, forest clear-cut areas, and open lands
						along the coast.
Tringa flavipes	Lesser Yellowlegs				S3M	Breeds in open boreal forest with scattered shallow
						wetlands. Winters in wide variety of shallow fresh and
						saltwater habitats.
Asio otus	Long-eared Owl				S2S3	The long-eared owl frequents woodlands large or small,
						dense or open, conifer or broad-leafed, at all seasons, but it
						also forages over open areas.
Accipiter gentilis	Northern Goshawk		NAR		S3S4	Though it is more generally found in the boreal forest region,
						likely because less often disturbed there, the Northern
						goshawk is also widespread in more temperate habitats. It
						nests in most forest types found throughout its geographic
						range. In eastern deciduous forests, Goshawks prefer nesting
						in mature, mixed hardwood–hemlock stands of birch (Betula
						sp.), beech (Fagus sp.), maple (Acer sp.), and eastern hemlock. Found scattered throughout the forests of the
						Maritimes. Hunts in diverse habitats ranging from open-sage
						steppes to dense forests, including riparian areas.
Mimus polyglottos	Northern				S1B	The Northern mockingbird uses open habitats with scattered
, minus porygrottes	Mockingbird				313	shrubs and small trees. In the East, typical habitats are
	0.1					parkland, cultivated lands, and early successional habitat at
						low elevations. Throughout its range found in suburban and
						urban habitats such as gardens and cemeteries, especially
						favoring mowed lawns adjacent to bare areas (e.g. concrete,
						asphalt, and sidewalks) with access to shrubs or hedges for
						cover and nesting. Absent from the interior of all forested
						habitat but frequents forest edge. Found in the same habitat
						year-round.
Contopus cooperi	Olive-sided	Th	Th	Threatened	S2B	The olive-sided flycatcher is found in open woodlands and
	Flycatcher					other places where scattered trees remain after cutting or
						fire in forested regions. Found throughout the Maritimes, but
						not abundantly.



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Vireo	Philadelphia Vireo				S2?B	This Philadelphia vireo is found mainly in broad-leafed trees,
philadelphicus						in pure or mixed woods, but it sings and forages more often
						in young stands and in the sub-canopy. Breeding has never
						been proven in Nova Scotia.
Pinicola enucleator	Pine Grosbeak				S2S3B,	In the Maritimes, the pine grosbeak approaches the southern
					SN5	limit of its range, they are found generally in Nova Scotia. In
						general, they avoid warmer, hardwood-dominated regions.
Carduelis pinus	Pine Siskin				S2S3	The pine siskin is primarily found in open coniferous forests.
						Also breeds in ornamental conifers in parks, cemeteries, and
						the like, and in mixed coniferous-deciduous and even
						deciduous tree associations. May forage in trees, shrubs, and
						grassy areas.
Setophaga pinus	Pine Warbler				S1B	Pine Warblers spend most of their time in pine trees. This can
						be in pine forests or in deciduous woods with pine mixed in.
						They are found in similar habitats in winter, but also visit
						backyards and come to bird feeders to eat seeds and suet.
Haemorhous	Purple Finch				S4S5B,	Purple finches are mostly found in moist, cool conifer forests.
purpureus					S3S4N	They are also found in mixed forests along streams and in
						tree-lined suburbs.
Loxia curvirostra	Red Crossbill				S3S4	Red Crossbills are found in mature coniferous forests.
Sitta canadensis	Red-breasted				S3	Red-breasted nuthatches live mainly in deciduous woods and
	Nuthatch					in coniferous forests.
Pheucticus	Rose-breasted				S2S3B	Rose-breasted grosbeaks use a wide variety of habitats,
ludovicianus	Grosbeak					including deciduous and mixed wooded uplands and
						lowlands; often at shrubby ecotones at the edge of woods at
						streams, ponds, marshes, roads, or pastures. Also commonly
						uses second-growth woodlands and well-vegetated suburban
						areas, parks, gardens, and orchards. Exhibits a preference for
						mesic woodlands, swamp forests, riparian corridors; avoids
						dry oak (Quercus spp.) woodlands. Uses a wide variety of
						habitats during spring and fall migration.



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Regulus calendula	Ruby-crowned				S3S4B	Ruby-crowned Kinglets prefer spruce-fir forests, however
	Kinglet					they also live in mixed wood forests, isolated trees in
						meadows, coniferous and deciduous forests, mountain-shrub
						habitat, and floodplain forests of oak, pine, spruce or aspen.
Euphagus	Rusty Blackbird	SC	SC	Endangered	S2B	Rusty blackbirds use wet coniferous and mixed forests from
carolinus						northern edge of tundra southward to beginning of
						deciduous forests and grasslands. Frequents fens, alder
						(Alnus)-willow (Salix) bogs, muskegs, beaver ponds, and
						other openings in the forest such as swampy shores along
						lakes and streams. Exceptionally, on Cape Breton Island,
						Nova Scotia, drier sites such as pasture edges are used.
						During spring and fall migration, it forages in stubble,
						pasture, plowed fields, and edges of swamps. Fall migrants
						also frequent wooded areas, particularly for roosting.
						Occasionally roosts on the ground in open fields.
Asio flammeus	Short-eared Owl	SC	SC		S1S2B	In the Maritimes, the short-eared owl has bred in dyked wet
						meadows and marshes, and in coastal bogs and grasslands.
						Also known to nest in agricultural areas. They are associated
						with open country suporting cyclic small mammals (i.e. voles
						and lemmings).
Catharus	Swainson's Thrush				S3S4B	Swainsons's Thrush are predominantly found in closed-
ustulatus						canopy forests. Breeding habitat includes deciduous and
						coniferous forests.
Vermivora	Tennessee Warbler				S3S4B	In its breeding range, the Tennessee warbler is associated
peregrina						with Boreal zone in deciduous, mixed, and coniferous forests
						from near sea level to 450 m. Associated with open areas
						that contain grasses, dense shrubs, and scattered clumps of
						young deciduous trees.
Catharus	Veery				S3S4B	Veeries breed in rich deciduous woodland and forest with
fuscescens		1				well-developed understory across northern North America.
Vireo gilvus	Warbling Vireo				S1B	Throughout range, shows a strong association with mature
						mixed deciduous woodlands especially along streams, ponds,
						marshes, and lakes but sometimes in upland areas away from



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						water. Also found in young deciduous stands that emerge after a clear-cut. Other habitats include urban parks and gardens, orchards, farm fencerows, campgrounds, deciduous patches in pine forests, mixed hardwood forests, and, rarely, pure coniferous forests. During spring and fall migration, it appears to use a wide variety of forested (similar to breeding) and shrubby habitats and can be found in trees of urban areas.
Empidonax traillii	Willow Flycatcher				S2B	In general, the willow flycatcher prefers moist, shrubby areas, often with standing or running water. During spring and fall migration, it uses areas similar to its breeding habitat.
Gallinago delicata	Wilson's Snipe				S3B	The Wilson's snipe breeds in sedge bogs, fens, willow (Salix spp.) and alder (Alnus spp.) swamps, and marshy edges of ponds, rivers, and brooks. Requires soft organic soil rich in food organisms just below surface, with clumps of vegetation offering both cover and good view of approaching predators. Avoids marshes with tall, dense vegetation (cattails [Typha], reeds [Phragmites], etc.). In Canada, they use four primary types of breeding habitat: sedge bogs, fens, swamps, and pond and river edges. During spring and fall migration, they use marshes (including cattails), swamps, wet meadows, wet pastures, wet fallow fields, and marshy edges of streams and ditches. As during the breeding season, they require wet organic soils rich in food with clumps of cover.
Wilsonia pusilla	Wilson's Warbler				S3B	Western montane, northern, and northeastern populations of Wilson's warbler are restricted to mesic shrub thickets of riparian habitats, edges of beaver ponds, lakes, bogs, and overgrown clear-cuts of montane and boreal zone; may reach into alpine zone. During spring and fall migration, occurs in most deciduous shrub habitats, but primarily riparian shrub understory. Also found in most other woodlands, suburban habitats, agricultural areas, desert scrub, and montane forests.



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Hylocichla	Wood Thrush	Th	Th		SUB	The wood thrush breeds in the interior and edges of
mustelina						deciduous and mixed forests, especially well-developed,
						upland, mesic ones. Key elements of breeding sites include:
						trees >16 m in height, high variety of deciduous tree species,
						moderate subcanopy and shrub density, shade, fairly open
						forest floor, moist soil, and decaying leaf litter. Habitat use
						during spring and fall migration is poorly documented, in fall
						probably uses second-growth and forest-edge habitats with
						fruit. No data for spring transients to suggest deviation from
						breeding season habitats.
Empidonax	Yellow-bellied				S3S4B	The yellow-bellied flycatcher is a characteristic breeding bird
flaviventris	Flycatcher					of Canadian boreal conifer forests and peatlands. It nests in
						typically cool, moist conifer or mixed forests, bogs, swamps,
						and muskegs; landscapes often flat or poorly drained.
						Breeding habitat is usually well stratified, with open canopy,
						saplings and seedlings, shrubs, and abundant, thick moss
						cover. Shade is provided by conifer trees and saplings, as well
						as layers of shrubs, ferns, and herbs; undergrowth is usually
						dense.
		T		Other Verte	brates	
Perimyotis	Tri-colored Bat	E	E	Endangered	S1	Prefers partly open country with large trees and woodland
subflavus	(formerly known as					edges. Avoids deep woods and open fields. Probably roosts in
	Eastern Pipistrelle)					the summer in tree foliage and occasionally in buildings; may
						use cave as night roost between foraging forays. Usually
						hibernates in caves and mines with high humidity. Generally,
						maternity colonies utilize manmade structures or tree
						cavities; often in open sites that would not be tolerated by
						most other bats
Lasiurus borealis	Eastern Red Bat				S1S2B,	The red bat lives in forests, forest edges and hedgerows. It
					S1M	roosts among foliage, usually in deciduous trees, but it will
						sometimes roost in coniferous trees.



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Hemidactylium	Four-toed				S3	The habitat of the four-toed salamander is moist mossy
scutatum	Salamander					woods, particularly in peat moss. Peat bogs or mossy areas bordering streams are good breeding sites. Adults lay eggs deep between the moss plants. The little larvae live in the water for a short while, then move to live on land. The fourtoed salamander is the least common salamander species in Nova Scotia, and most reports are from the south central part of the province.
Pekania pennants	Fisher				S3	Fishers inhabit upland and lowland forests, including coniferous, mixed, and deciduous forests. They occur primarily in dense coniferous or mixed forests, including early successional forest with dense overhead cover. Fishers commonly use hardwood stands in summer but prefer coniferous or mixed forests in winter. They generally avoid areas with little forest cover or significant human disturbance.
Lasiurus cinereus	Hoary Bat				S1S2B, S1M	Hoary bats are thought to be rare in Nova Scotia. Insectivorous, migratory. Poorly known. Authorities disagree as to the bat's preference for coniferous versus broadleaf trees. Hoary bats are thought to prefer trees at the edge of clearings, but have been found in trees in heavy forests, open wooded glades, and shade trees along urban streets and in city parks.
Myotis lucifugus	Little Brown Myotis	Е	E	Endangered	S1	For Myotis lucifugus, the maternity colonies often exist in warm sites that facilitate pup growth rates, such as attics of buildings and under bridges, in rock crevices, or in cavities of canopy trees in forests. Males roost during daytime in a wide variety of structures, including buildings and bridges (mainly M. lucifugus), rock crevices, behind flaking bark, and within tree cavities, often at many different sites during the summer. Myotis species generally roost in tall, large-diameter snags that are in the early to middle stages of decay and



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						located in open areas within mature-over mature forest.
						Myotis lucifugus congregates in caves and abandoned mines
						used for hibernation through the winter. About 16
						hibernation sites are known in Nova Scotia.
Sorex maritimensis	Maritime Shrew				S3	The maritime shrew is most often found in marshes and wet
						meadows. It is only found in two provinces in Canada: New
						Brunswick and Nova Scotia.
Alces americana	Moose			Endangered	S1	Moose are herbivores who live in boreal and mixed-wood
						forests. They are often found where there is an abundance of
						food (twigs, stems, and foliage of young deciduous trees and
						shrubs). In spring, islands and peninsulas are often used by
						cows when giving birth. In summer, access to wetlands (and
						aquatic vegetation) is important.
Myotis	Northern Long-	E	E	Endangered	S1	The Northern Long-eared Bat (Myotis septentrionalis) is
septentrionalis	eared Myotis					found in many regions of Canada. Although there are
						numerous records of its presence in eastern Canada and the
						United States, it has only been recorded sporadically in the
						west. This particular type of bat has two habitats: a winter
						hibernation habitat as well as a summer roosting and
						foraging habitat. The Northern Long-eared Bat hibernates in
						caves or abandoned mines during the cold winter months.
						During the summer months the Bats commonly use crevices
						behind peeling bark or cavities in partially-decayed trees as
						summer day roosts. Within thick forests, summer activity
						may be focused along watercourses and small ponds
Microtus	Rock Vole				S2	Optimal habitat for the rock vole is ferns/mossy debris near
chrotorrhinus						flowing water in coniferous forests. It also occupies
						deciduous forest/spruce clear cuts (mainly recent cuts),
						forest ecotones, grassy balds near forest, and sterile-looking
						rocky road fills. Occupies shallow burrows and
						runways. Nests probably are placed under logs or in similar
						protected sites. They are made of moss with a lining of grass



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						and have multiple entrance tunnels. Breeding season is from
						March to mid-October.
Lasionycteris	Silver-haired Bat				SUB, S1M	Scarce in eastern Canada. During the summer months, silver-
noctivagans						haired bats are found in forested habitats, particularly
						coniferous woodlands, adjacent to aquatic habitats like
						ponds, lakes and streams. Both sexes fly south between the
						middle of August and early October.
Chelydra	Snapping Turtle	SC	SC	Vulnerable	S3	southern New Brunswick and parts of mainland Nova Scotia
serpentina						in ponds, lakes, slow-moving streams and sometimes in
						brackish water if these water bodies have soft mud bottoms
						and abundant aquatic vegetation
Glyptemys	Wood Turtle	Т	Т	Threatened	S2	Habitat destruction and fragmentation due to intense
insculpta						development and accompanying stream alterations are
						serious problems in the southeastern portion of the Wood
						Turtle's range. protection of wooded stream corridors,
						nesting, feeding, basking, and overwintering sites, and an
						upland buffer would be necessary to include in preserve
						design
						Lives along permanent streams during much of each year, but
						in summer may roam widely overland and can be found in a
						variety of terrestrial habitats adjacent to streams, from
						deciduous woods, cultivated fields, and woodland bogs, to
						marshy pastures. Use of woodland bogs and marshy fields is
				Fish		most common in the northern part of the range
Anguilla rostrata	American Eel		Т	FISH	S2	American Eels move from salt water into fresh water when
Anguilla rostrata	American cei		1		32	quite young and spend their adult life in fresh water
						returning to spawn in tropical oceans up to several decades
						later. Widely distributed in freshwaters, estuaries and
						coastal marine waters connected to the Atlantic Ocean.
						Although small streams may be critical to the persistence of
						eels in a watershed, they may use these streams only once or
						_ cels in a watershea, they may use these streams only office of



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						twice a year, while moving to and from more preferred habitats.
Salmo salar	Atlantic Salmon – Southern Uplands Population		E		S1	Found in freshwater rivers and streams that are clear, cool, and well oxygenated, with gravel, cobble, or boulder bottoms.
Salvelinus fontinalis	Brook Trout				S3	Brook Trout prefer cool, slow-moving water.
Culaea inconstans	Brook Stickleback				S3	This species generally occupies cool, clear, heavily weeded, spring-fed creeks, small rivers, lakes, and ponds, usually in shallow, quiet to flowing pools and backwaters over sand or mud. Sometimes it burrows into soft bottoms. Occasionally this fish can be found in brackish water. In a lake in Manitoba, adults were most abundant at the outer margin of emergent vegetation (Moodie 1986). Eggs are deposited in a nest made of plant material by the male just above the bottom in shallow water
Margariscus margarita	Pearl Dace				S3	Prefers small cool streams, either clear or turbid. They spawn in clear water at depths of 1-2 feet over a gravel-sand bottom.
				Vascular F	Plants	
Isoetes acadiensis	Acadian Quillwort				S3	In water up to depth of 1m, bordering lakes, ponds or along rivers, infrequent but scattered through province.
Rhamnus alnifolia	Alder-leaved Buckthorn				S3	Grows in wooded swamps or bogs, meadows or alluvial soils in the alkaline regions, in Hants, Cumberland and Inverness Counties.
Vaccinium uliginosum	Alpine Bilberry				S3	Wide tolerance of moisture and fertility, but generally acidic soils in Halifax, Digby & Cape Breton
Viola sagittata	Arrow-Leaved Violet				S3S4	Sterile woods, clearing and fields, common from Yarmouth to Halifax and Hants Counties.
Viola sagittata var. ovata	Arrow-Leaved Violet				S3S4	Sterile woods, clearing and fields, common from Yarmouth to Halifax and Hants Counties
Salix serissima	Autumn Willow				S1	Fens (calcium-rich wetlands), meadows and fields, swamps



	Wille Stream Priority S	•	OD Liv	Modulari Ervirorimontal Eta.		
Scientific Name	Common Name	SARAi	COSEWIC	NSESA	SRankiv	Habitat Requirements
Fraxinus nigra	Black Ash			Threatened	S1S2	Typical habitat includes poorly drained soils and swampy
						woods
Verbena hastata	Blue Vervain				S3	Limited to mucky fertile soils, as along floodplains.
var. hastata						
Carex tribuloides	Blunt Broom Sedge				S3	Found in wet forest soils and swales.
var. tribuloides						
Galium obtusum	Blunt-leaved				S2S3	swamps, swampy grounds, wet areas of prairies, wet woods
ssp. obtusum	Bedstraw					and thickets, roadside ditches.
Potamogeton	Blunt-leaved				S3	Ponds, pools, lakes and sluggish streams often over deep
obtusifolius	Pondweed					mucky substrate. Northern from Cumberland Co., to
						northern Cape Breton.
Betula pumila var.	Bog Birch				S1?	Bogs and meadows amongst alders
renifolia						2200 4.12240113 4111011501 4114213
Betula pumila var.	Bog Birch				S3	Bogs and meadows amongst alders
pumila						2 2 GO ST. ST. THE GOOD ST. THE ST.
Salix pedicellaris	Bog Willow				S2	Grows in acidic substrate as in bogs; nutrient-rich marshes
Sam pearcellario						and in sphagnous lacustrine habitats.
Bromus latiglumis	Broad-Glumed				S1	Floodplain (river or stream floodplains), forests, shores of
Di Silius latigialilis	Brome					rivers or lakes.
Lilium canadense	Canada Lily				S2	Meadows,floodplains and streamsides.
ssp. canadense	Canada Liiy				32	ivicadows, nooupianis and screamsides.
Polygonum careyi	Carey's Smartweed				S1	Anthropogenic (man-made or disturbed habitats), meadows
Folygollulli culeyi	Carey S Silial (weed				31	and fields, shores of rivers or lakes.
Calium anarins	Common Bodetra				S2S3	
Galium aparine	Common Bedstraw				5253	Pastures, fields, ditches and streamsides. Very common
Discription 1	6				C4	throughout.
Pinguicula vulgaris	Common				S1	Grows in moist habitats as on rock ledges and streamsides,
	Butterwort					especially of basic rocks.
Humulus lupulus	Common Hop				S1?	Anthropogenic (man-made or disturbed habitats), floodplain
var. lupuloides						(river or stream floodplains), forests, shrublands or thickets.
Equisetum	Common Scouring-				S3S4	Grows in sandy, gravelly soil, on banks or in low areas; often
hyemale	rush					in calcareous regions. Scattered, mostly from Digby County,
						through the Annapolis Valley, northward to Cape Breton.



Scientific Name   Common Name   SARA   COSEWIC   NSESA"   Stank"   Habital Requirements   Eduisetum   Common Scouring- rush   Fall Panic Grass   Fordaling reported for Stanking reported fo		Wille Stream Priority S			NOTA	OD 1	H. L. C. D
in calcareous regions. Scattered, mostly from Digby County, through the Annapolis Valley, northward to Cape Breton.  Cardamine pratensis var. angustifolia  Cuckoo Flower  Cuckoo Flower  Cuckoo Flower  Cut-Leaved  Cut-Leaved  Iaciniata Coneflower  Rudbeckia  Iaciniata Coneflower  Co	Scientific Name	Common Name	SARAi	COSEWIC	NSESA	SRankiv	Habitat Requirements
through the Annapolis Valley, northward to Cape Breton.  Cardamine Cuckoo Flower Cuckoo Flower Standard Cuckoo Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).  Epilobium strictum Downy Willowherb Standard Standard Flower Standard Cuckoo Flower Standard Standard Flower Standard Standard Flower Flower Standard Flower F		_				S3S4	· · ·
Cardamine pratensis var. angustifolia       Cuckoo Flower       S1       Moist soil as in meadows, damp fields and other low ground. Scattered in the province, frequent along the Annapolis River and even spreading into roadsides ditches, north to Cape Breton.         Rudbeckia Lociniata Coneflower Coneflower Coneflower Good Inciniata var. gaspereauensis       Cut-Leaved Coneflower Good Coneflower Good Coneflower Good Plantain Good Planta	hyemale var. affine	rush					
Scattered in the province, frequent along the Annapolis River and even spreading into roadsides ditches, north to Cape Breton.   Rudbeckia   Cut-Leaved   S152   Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).   Rudbeckia   Cut-Leaved   S152   Rudbeckia   Cut-Leaved   S152   Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).   Rudbeckia   Icciniata var.   Gosphereauensis   S152   Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).   Rudbeckia   S88 gas and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.   S88 gas and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.   S98 greton, infr							·
angustifolia       and even spreading into roadsides ditches, north to Cape Breton.         Rudbeckia       Cut-Leaved         laciniata       Coneflower         Rudbeckia       Cut-Leaved         laciniata var.       Coneflower         Goodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).         Epilobium strictum       Downy Willowherb       S3       Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.         Goodyera       Downy Rattlesnake-pubescens       Plantain       S2       Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.         Solidago       Elliott's Goldenrod       S354       Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.         Stellaira crassifolia and var. crassifolia Panicum var. puritanorum       Fall Panic Grass       S1       Frequents pond edges and wet seepy slopes.         Potamogeton yar. puritanorum       Fall Panic Grass       S1       Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.         Variety of Sterial Sedge       S1       Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.         Zizia aurea       Golden Alexanders       S1       Anthropogenic (man-made or distu	Cardamine	Cuckoo Flower				S1	Moist soil as in meadows, damp fields and other low ground.
Breton.   Breton.   Breton.   Breton.   Cut-Leaved   Coneflower   Co	pratensis var.						• • • • • • • • • • • • • • • • • • • •
Rudbeckia laciniata         Cut-Leaved Coneflower         \$152         Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).           Rudbeckia laciniata var. Goneflower         Cut-Leaved         \$152         Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).           Gondyera pubescens         Downy Willowherb         \$3         Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.           Goodyera pubescens         Downy Rattlesnake-plantain         \$2         Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.           Solidago latistic crassifolia plantain         Elliott's Goldenrod         \$334         Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.           Stellaira crassifolia Panicum dichotomiflorum var. puritanorum         Fleshy Stitchwort         \$1         Frequents pond edges and wet seepy slopes.           Potamogeton zosteriformis         Flat-stemmed         \$3         Lacustrine (in lakes or ponds), riverine (in rivers or streams).           Carex alopecoidea         Foxtail Sedge         \$1         Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.           Zizia aurea         Golden Alexanders         \$1         Meadows, shores, th	angustifolia						and even spreading into roadsides ditches, north to Cape
laciniata         Coneflower         rivers or lakes, swamps, wetland margins (edges of wetlands).           Rudbeckia         Cut-Leaved         S152           Iaciniata var.         Coneflower         Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).           Epilobium strictum         Downy Willowherb         S3         Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.           Goodyera         Downy Rattlesnake-plantain         S2         Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.           Solidago         Elliott's Goldenrod         S354         Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.           Stellaira crassifolia and var. crassifolia Panicum dichotomiflorum var. puritanorum         Fall Panic Grass         S1         Frequents pond edges and wet seepy slopes.           Potamogeton zosteriformis         Fall Panic Grass         S1?         Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.           Carex alopecoidea         Foxtail Sedge         S1         Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.           Zizia aurea         Golden Alexanders         S1         Meadows, shores, thickets and even wooded swamps. Occasionally reported: Po							Breton.
Rudbeckia         Cut-Leaved         S1S2         Floodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).           Epilobium strictum         Downy Willowherb         S3         Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.           Goodyera pubescens         Downy Rattlesnake-pubescens         Plantain         S2         Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Hallfax counties.           Solidago         Elliott's Goldenrod         S3S4         Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Hallfax Co.           Stellaira crassifolia and var. puritanorum         Fall Panic Grass         S1?         Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.           Ponaicum dichotomiflorum var. puritanorum         Falt-stemmed         S3         Lacustrine (in lakes or ponds), riverine (in rivers or streams).           Potamogeton var. puritanorum         Foxtail Sedge         S1         Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.           Zizia aurea         Golden Alexanders         S1         Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Hallfax Co.	Rudbeckia	Cut-Leaved				S1S2	Floodplain (river or stream floodplains), forests, shores of
laciniata var. gaspereauensisConeflowerFloodplain (river or stream floodplains), forests, shores of rivers or lakes, swamps, wetland margins (edges of wetlands).Epilobium strictumDowny WillowherbS3Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.Goodyera pubescensDowny Rattlesnake- PlantainS2Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax Counties.Solidago latissimifoliaElliott's GoldenrodS3S4Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.Stellaira crassifolia and var. crassifolia Panicum dichotomiflorum var. puritanorumFall Panic GrassS1Frequents pond edges and wet seepy slopes.Fall Panic GrassS1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Carex alopecoideaFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams). Potamogeton (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	laciniata	Coneflower					rivers or lakes, swamps, wetland margins (edges of wetlands).
gaspereauensisrivers or lakes, swamps, wetland margins (edges of wetlands).Epilobium strictumDowny Willowherb\$3Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.Goodyera pubescensDowny Rattlesnake- Plantain\$2Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.Solidago latissimifoliaElliott's Goldenrod latissimifolia\$354Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.Stellaira crassifolia and var. crassifolia\$1Frequents pond edges and wet seepy slopes.Panicum dichotomiflorum var. puritanorum\$1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Potamogeton zosteriformisFlat-stemmed Pondweed\$3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoidea Carex alopecoideaFoxtail Sedge\$1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden Alexanders\$1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-Fir\$3?Alpine or subalpine zones, anthropogenic (man-made or	Rudbeckia	Cut-Leaved				S1S2	
gaspereauensisrivers or lakes, swamps, wetland margins (edges of wetlands).Epilobium strictumDowny Willowherb\$3Bogs and other peatlands; Scattered throughout Cape Breton, infrequent elsewhere.GoodyeraDowny Rattlesnake- pubescens\$2Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.SolidagoElliott's Goldenrod\$3\$4Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.Stellaira crassifolia\$1Frequents pond edges and wet seepy slopes.Panicum dichotomiflorum var. puritanorum\$1Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Potamogeton zosteriformisFlat-stemmed Pondweed\$3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoideaFoxtail Sedge\$1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden Alexanders\$1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-Fir\$3?Alpine or subalpine zones, anthropogenic (man-made or	laciniata var.	Coneflower					Floodplain (river or stream floodplains), forests, shores of
Breton, infrequent elsewhere.  Goodyera pubescens Plantain Downy Rattlesnake-pubescens Plantain Breton, infrequent elsewhere.  S2 Forms large colonies in woodlands and thickets; Only recently discovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.  Solidago Iditissimifolia Belliott's Goldenrod Belliott's Goldenr	gaspereauensis						
Solidago   Elliott's Goldenrod   Siliott's	Epilobium strictum	Downy Willowherb				S3	Bogs and other peatlands; Scattered throughout Cape
pubescensPlantaindiscovered in Nova Scotia (1963) and so far known from Queens, Kings, Annapolis, Hants and Halifax counties.Solidago latissimifoliaElliott's Goldenrod\$354Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.Stellaira crassifolia and var. crassifolia Panicum dichotomiflorum var. puritanorumFall Panic Grass\$1Frequents pond edges and wet seepy slopes.Potamogeton zosteriformisFall Panic Grass\$1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Carex alopecoideaFoxtail Sedge\$1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden Alexanders\$1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-Fir\$3?Alpine or subalpine zones, anthropogenic (man-made or							Breton, infrequent elsewhere.
Queens, Kings, Annapolis, Hants and Halifax counties.   Solidago   Elliott's Goldenrod   S3S4   Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.   Stellaira crassifolia and var. crassifolia and var. crassifolia and var. crassifolia   Fall Panic Grass   S1   Frequents pond edges and wet seepy slopes.   Fall Panic Grass   S1   Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.   Potamogeton var. puritanorum   Potamogeton   Pondweed   S3   Lacustrine (in lakes or ponds), riverine (in rivers or streams).   Carex alopecoidea   Foxtail Sedge   S1   Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.   Zizia aurea   Golden Alexanders   S1   Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.   Lycopodium   Ground-Fir   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed nativer)   S3?   S4   S4   S4   S4   S4   S4   S4   S	Goodyera	Downy Rattlesnake-				S2	Forms large colonies in woodlands and thickets; Only recently
Solidago   Elliott's Goldenrod   S3S4   Clearings, thickets and bogs, swales and lakeshores. Common in Yarmouth Co., east to Halifax Co.   Stellaira crassifolia and var. crassifolia Panicum   Fall Panic Grass   S1?   Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.   S3   Lacustrine (in lakes or ponds), riverine (in rivers or streams).   Pondweed   Foxtail Sedge   S1   Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.   Zizia aurea   Golden Alexanders   S3   Meadows, shores, thickets and even wooded swamps.   Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.   Lycopodium   Ground-Fir   S3?   Alpine or subalpine zones, anthropogenic (man-made or disturbed or subalpine zones, anthropogenic (man-made or subalpine zones,	pubescens	Plantain					discovered in Nova Scotia (1963) and so far known from
latissimifoliain Yarmouth Co., east to Halifax Co.Stellaira crassifolia and var. crassifoliaFleshy StitchwortS1Frequents pond edges and wet seepy slopes.Panicum dichotomiflorum var. puritanorumFall Panic GrassS1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Potamogeton zosteriformisFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoidea Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or							Queens, Kings, Annapolis, Hants and Halifax counties.
Stellaira crassifolia and var. crassifoliaFleshy StitchwortS1Frequents pond edges and wet seepy slopes.Panicum dichotomiflorum var. puritanorumFall Panic GrassS1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Potamogeton zosteriformisFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoidea Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	Solidago	Elliott's Goldenrod				S3S4	Clearings, thickets and bogs, swales and lakeshores. Common
and var. crassifoliaFall Panic GrassS1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Panicum dichotomiflorum var. puritanorumFlat-stemmedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Potamogeton zosteriformisPondweedS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	latissimifolia						in Yarmouth Co., east to Halifax Co.
Panicum dichotomiflorum var. puritanorumFall Panic GrassS1?Anthropogenic (man-made or disturbed habitats), shores of rivers or lakes.Potamogeton zosteriformisFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	Stellaira crassifolia	Fleshy Stitchwort				S1	Frequents pond edges and wet seepy slopes.
dichotomiflorum var. puritanorumrivers or lakes.Potamogeton zosteriformisFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	and var. crassifolia						
var. puritanorumS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Potamogeton zosteriformisPondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	Panicum	Fall Panic Grass				S1?	Anthropogenic (man-made or disturbed habitats), shores of
Potamogeton zosteriformisFlat-stemmed PondweedS3Lacustrine (in lakes or ponds), riverine (in rivers or streams).Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	dichotomiflorum						rivers or lakes.
zosteriformisPondweedS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	var. puritanorum						
Carex alopecoideaFoxtail SedgeS1Anthropogenic (man-made or disturbed habitats), floodplain (river or stream floodplains), forests, marshes.Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	Potamogeton	Flat-stemmed				S3	Lacustrine (in lakes or ponds), riverine (in rivers or streams).
Zizia aurea  Golden Alexanders  Golden Alexanders  S1  Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.  Lycopodium  Ground-Fir  S3?  Alpine or subalpine zones, anthropogenic (man-made or	zosteriformis	Pondweed					
Zizia aureaGolden AlexandersS1Meadows, shores, thickets and even wooded swamps. Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.LycopodiumGround-FirS3?Alpine or subalpine zones, anthropogenic (man-made or	Carex alopecoidea	Foxtail Sedge				S1	Anthropogenic (man-made or disturbed habitats), floodplain
Occasionally reported: Pomquet and South River, Antigonish Co., Upper Musqhodoboit, Halifax Co.  Lycopodium Ground-Fir S3? Alpine or subalpine zones, anthropogenic (man-made or							(river or stream floodplains), forests, marshes.
Lycopodium Co., Upper Musqhodoboit, Halifax Co.  S3? Alpine or subalpine zones, anthropogenic (man-made or	Zizia aurea	Golden Alexanders				S1	Meadows, shores, thickets and even wooded swamps.
Lycopodium Ground-Fir S3? Alpine or subalpine zones, anthropogenic (man-made or							Occasionally reported: Pomquet and South River, Antigonish
							Co., Upper Musqhodoboit, Halifax Co.
	Lycopodium	Ground-Fir				S3?	Alpine or subalpine zones, anthropogenic (man-made or
							· · · · · · · · · · · · · · · · · · ·



riiteeii	iville Stream Priority 3	pecies Lis				Woodham Environmental Eta.
Scientific Name	Common Name	SARAi	COSEWIC	NSESAiii	SRank <sup>iv</sup>	Habitat Requirements
Carex haydenii	Hayden's Sedge				S1	Marshes, meadows and fields, shores of rivers or lakes
Platanthera	Hooker's Orchid				S3	Grows in open dry forests of mixed conifers. Scattered in
hookeri						most of the province, local in the southwestern counties. So
						far absent from the eastern shore.
					1	
Carex grisea	Inflated Narrow-				S1	Floodplain (river or stream floodplains), forests.
Data di	leaved Sedge				6262	Forther the control of 1912 dec
Botrychium	Lance-Leaf Grape-				S2S3	Fertile soils on woodland hillsides.
lanceolatum var.	Fern					
angustisegmentum	L. d. d. C. d.				642	
Carex lapponica	Lapland Sedge				S1?	Sphagnum bogs, wet, nutrient-poor areas, mostly lowlands
Hypericum majus	Large St John's-wort				S2	Wet or dry open soil. Widely scattered locations. Until
						recently, only known from Halifax area and Big Baddeck,
Carran arrange danda	Line sets on a NA seed seed				61	Victoria County, and thought to be historic.
Carex granularis	Limestone Meadow				S1	Anthropogenic (man-made or disturbed habitats), meadows
	Sedge					and fields, shores of rivers or lakes, wetland margins (edges of wetlands).
Schizaea pusilla	Little Curlugrass				S3S4	,
Scriizaea pusiiia	Little Curlygrass				3334	Sphagnous wet areas, upper peaty lakeshores and undrained depressions. Scattered throughout the Atlantic counties and
	Fern					frequent in the northern plateau of Cape Breton.
Liparis loeselii	Loesel's Twayblade				S3S4	Anthropogenic (man-made or disturbed habitats), fens
Lipuris idesein	Loesers (Wayblade				3334	(calcium-rich wetlands), lacustrine (in lakes or ponds),
						meadows and fields, shores of rivers or lakes.
Equisetum palustre	Marsh Horsetail				S1	Of wetlands, marshes and swamps. A single collection each
Equiscium parastre	Widisirriorsetan					from Kings County and Halifax Co.
Hordeum	Meadow Barley				S1	Anthropogenic (man-made or disturbed habitats).
brachyantherum						The spage of the state of the s
Hordeum	Meadow Barley				S1	Anthropogenic (man-made or disturbed habitats).
brachyantherum						, , , , , , , , , , , , , , , , , , , ,
ssp.						
brachyantherum						
Allium burdickii	Narrow-Leaved				S1?	rich deciduous woodlands, wooded bluffs, wooded areas
	Wild Leek					along rivers and streams, and cemetery prairies



Scientific Name	Common Name	SARA	COSEWIC	NSESAiii	SRankiv	Habitat Requirements
Ophioglossum	Northern Adder's-				S2S3	Sterile soils, swamps and sandy or cobbly lakeshores. Known
pusillum	tongue					from Yarmouth and Digby Counties; scattered east to Halifax
						and Amherst; a single Cape Breton record from George River.
Betula borealis	Northern Birch				S2	Bogs and wooded swamps.
Viola nephrophylla	Northern Bog Violet				S2	Cool, mossy sites: bogs, streamsides and wet woods. Rare in
						Shelburne Co., Colchester and Cumberland counties
						northward. Generally, a northern ranging species within NS.
Geocaulon lividum	Northern Comandra				S3	Damp sands and other sterile soils, especially in acid or peaty
						sites. Disjunct sites in Halifax, Kings and Cumberland
						counties; widespread but local in Cape Breton.
Spiraea	Northern				S1?	open, moist areas
septentrionalis	Meadowsweet					
Eleocharis ovata	Ovate Spikerush				S2?	Grows on muddy streamsides, streambeds and lakeshores,
						often in subsiding water.
Torreyochloa	Pale False Manna				S1	Lacustrine (in lakes or ponds), riverine (in rivers or streams),
pallida var. pallida	Grass					swamps.
Platanthera flava	Pale Green Orchid				S2	Anthropogenic (man-made or disturbed habitats), floodplain
var. herbiola						(river or stream floodplains), forest edges, forests, fresh tidal
						marshes or flats, grassland, meadows and fields, riverine (in
						rivers or streams), shrublands or thickets, swamps, wetland
						margins (edges of wetlands), woodlands.
Carex plantaginea	Plantain-Leaved Sedge				S1	Forests
Carex wiegandii	Wiegand's Sedge				S3	Treed bogs, bogs, conifer and alder thickets
Carex argyrantha	Silvery Flowered				S3S4	Sandy soils in thickets and clearings. Dryish forests
	Sedge					
Lachnanthes	Redroot		SC	Vulnerable	S2	Shores of rivers or lakes.
caroliniana						
Eleocharis	Red-stemmed				S1	Fens (calcium-rich wetlands), marshes, shores of rivers or
erythropoda	Spikerush					lakes, wetland margins (edges of wetlands).
Antennaria rosea	Rosy Pussytoes				S1	Dry, open places, meadows, and open woods. It has very
and ssp. arida						recently been confirmed at Cape d'Or.



	Wille Stream Priority 3	<u> </u>		Woodildin Environmental Eta.		
Scientific Name	Common Name	SARAi	COSEWIC	NSESAIII	SRank <sup>iv</sup>	Habitat Requirements
Eriophorum gracile	Slender Cottongrass				S2S3	wet peat and inundated shores. Scattered eastward from Annapolis and Halifax counties.
Eriophorum gracile var. gracile	Slender Cottongrass				S2S3	wet peat and inundated shores. Scattered eastward from Annapolis and Halifax counties.
Cypripedium reginae	Showy Lady's- Slipper				S2	bog, swamp. Widely scattered localities in province
Silene antirrhina	Sleepy Catchfly				S1	roadsides, railways, pastures, fields wastegrounds, alluvial woods. Recently found in CFB Greenwood.
Agalinis paupercula	Small-flowered Agalinis				S1	meadows and fields, shores of rivers or lakes, wetland margins
Neottia bifolia	Southern Twayblade				S3	Bog, mixed wood forest, swamps. Scattered from Shelburne, to Halifax, to Kings to Cape Breton counties
Halenia deflexa ssp. brentoniana	Spurred Gentian				S1?	forest edge, forests, meadows and fields
Potamogeton pulcher	Spotted Pondweed			Vulnerable	S2S3	aquatic perennial herb that grows in standing water. Yarmouth, Queens and Halifax Counties, reported in Digby Co.
Panicum tuckermanii	Tuckerman's Panic Grass				S3S4	meadows and fields, shores of rivers and lakes
Equisetum variegatum	Variegated Horsetail				S3	wetlands or wet seeps. Wide ranging in NS, with disjunct localities: Halifax County, Cumberland Co., Victoria Co.
Equisetum variegatum var. variegatum	Variegated Horsetail				S3	wetlands or wet seeps. Wide ranging in NS, with disjunct localities: Halifax County, Cumberland Co., Victoria Co.
Carex peckii	White-Tinged Sedge				S2?	Dry or mesic slopes, mixed deciduous forests, rocky outcrops, old quarries. King's Co., Rhodes Co., Lunenburg Co. Halifax and the Pennants area.
Lysimachia quadrifolia	Whorled Yellow Loosestrife				S1	Disturbed habitat, grassland, woodlands
				1		



	i wille Stream Priority					Modaliam Environmental Eta.
Scientific Name	Common Name	SARAi	COSEWICii	NSESA	SRankiv	Habitat Requirements
Vallisneria	Wild Celery				S2	Ponds, lakes, and quiet streams at depths of 1 to 4 m.
americana						Colchester Co., Halifax Co., Cumberland Co., Reported from
						Northern Cape Breton
Allium	Wild Chives				S2	
schoenoprasum						disturbed habitats, floodplain, meadows and fields, ridges or
						ledges, shores of rivers and lakes.
Allium	Wild Chives				S2	
schoenoprasum						disturbed habitats, floodplain, meadows and fields, ridges or
var. sibiricum						ledges, shores of rivers and lakes.
Allium tricoccum	Wild Leek				S1	hardwood forest, intervale
Juncus	Woods-Rush				S3	Conifer woods and spruce swamps, where substrate is soggy.
subcaudatus	vvoous-kusii				33	Yarmouth to Kings and Halifax Counties. Richmond County
Juncus	Woods-Rush				S3	Tarmouth to kings and Hamax Counties. McIlmond County
subcaudatus var.	VVOOd3 Nd3H					Conifer woods and spruce swamps, where substrate is soggy.
planisepalus						Yarmouth to Kings and Halifax Counties. Richmond County
Bartonia virginica	Yellow Bartonia				S3	Dry barrens, sandy or peaty soils, bogs, lakeshores. Common
g						in southwestern counties becoming scarcer eat to Annapolis
						and Halifax; St. Peter's area of Cape Breton
				Licher	ıs	
Anzia colpodes	Black-foam Lichen	No	Th	Threatened	S3	This species occurs on the bark of hardwoods, and more
		Status				rarely conifers, in humid forested habitats throughout
						temperate eastern North America.
Cladina stygia	Black-footed				S3?	Most frequent in peatlands, particularly treeless bogs
	Reindeer Lichen					
Leptogium	Blistered Jellyskin				S3	This lichen species is widespread and grows on the bases of
corticola	Lichen					hardwoods and occasionally on rocks in moist woods.
Collema	Blistered Tarpaper				S3	On bark of hardwood and sometimes coniferous trees,
furfuraceum	Lichen					especially in old forests.
Degelia plumbea	Blue Felt Lichen	SC	SC	Vulnerable	S3	Mature forests within varying moisture regimes. Typically
						located in hardwood stands, with Red maple, Sugar maple, or
						Yellow Birch.



Scientific Name	Common Name	SARA	COSEWIC	NSESA	SRankiv	Habitat Requirements
Erioderma pedicellatum (Atlantic pop.)	Boreal Felt Lichen - Atlantic pop.	E	Е	Endangered	S1	Mature to over mature Balsam Fir trees in open softwood forests with little to no regenerating understory. Typically, though not necessarily found in or near wetlands or wetland margins
Physconia detersa	Bottlebrush Frost Lichen				S3S4	On bark and wood; occasionally on rock.
Pseudevernia consocians	Common Antler Lichen				S1?	Grows on conifers in forest.
Sclerophora peronella (Nova Scotia pop.)	Frosted Glass- whiskers Lichen - Nova Scotia pop.	SC	SC		S1?	Tiny lichen stubble lichen, wood and bark of older trees in old growth forests. Stable humidity, minimal temperature fluctuations, and intermediate light.
Erioderma mollissimum	Graceful Felt Lichen (Vole Ears Lichen)	E	Е	Endangered	S1S2	Mature to over mature Balsam Fir trees in open softwood forests with little to no regenerating understory. Typically, though not necessarily found in or near wetlands or wetland margins
Psoroma hypnorum	Green moss-shingle Lichen				S1	Among mosses on soil, wood, peat, rock and sometimes bark.
Parmeliopsis ambigua	Green Starburst Lichen				S2S3	Grows on conifer stumps, logs and bark in full sun.
Fuscopannaria praetermissa	Moss Shingles Lichen				S1	On mossy tree bases, occasionally on moist soil or damp rocks
Nephroma bellum	Naked Kidney Lichen				S3	On branches and twigs of trees especially conifers, and also on mossy rocks in humid forests.
Sticta fuliginosa	Peppered Moon Lichen				S3	Grows on mossy bark
Sticta limbata	Powdered Moon Lichen				S1S2	Grows on bark or over mosses on trees. Grows on Fagus in high-elevation deciduous forests; also rare at lower elevations
Everniastrum catawbiense	Powder-tipped Antler Lichen				S2S3	Found on branches and twigs of deciduous shrubs and conifer trees
Fuscopannaria leucosticta	Rimmed Shingles Lichen				S2S3	Found on bark or occasionally rocks often among mosses



Scientific Name	Common Name	SARAi	COSEWICii	NSESAiii	SRankiv	Habitat Requirements
Massalongia	Rockmoss Rosette				S1S2	Grows on mosses or mossy rocks.
carnosa	Lichen					
Heterodermia	Scaly Fringe Lichen				S3	Found on trees, especially mossy tree bases in hardwood
squamulosa						forests
Leptogium	Tattered Jellyskin				S3	Grows on mossy rock
lichenoides	Lichen					
Peltigera collina	Tree Pelt Lichen				S2?	Most common on tree trucks and branches, especially among
						mosses, less frequently on mossy rocks, rarely on soil.
Pannaria lurida	Veined Shingle	No	Th	Threatened	S1S2	May be found on bark and the bases of trees in the open
	Lichen (Wrinkled	Status				woods and roadsides
	Shingle Lichen)					
				Invertebr	ates	
Euphydryas	Baltimore				S2S3	Found in fresh-water marshes, wet roadsides and meadows.
phaeton &	Checkerspot					Larvae found feeding on Turtlehead (Chelone glabra) and has
Euphydryas						been reported to feed on beardtongue (Penstemon digitalis).
phaeton phaeton						
Neurocordulia	Broadtailed				S1	Clean medium to large forested rivers.
michaeli	Shadowdragon					
Alasmidonta	Brook Floater	SC	SC	Threatened	S1S2	Flowing rivers of creeks with stable sand or gravel substrate.
varicosa						Confirmed in the following watersheds: Salmon
						(Guysborough County), St. Marys, Wallace, French River
						(Mattatall Lake), Gays, Annapolis and LaHave Rivers.
Ophiogomphus	Brook Snaketail				S2S3	Brook Snaketails need undisturbed fields and wooded
aspersus						uplands adjacent to breeding waters. It is here that critical
						foraging and breeding occurs. This species inhabits clean,
						relatively quiet or slow moving streams with an abundance of
						sandy sediments.
Somatochlora	Clamp-Tipped				S3	River- breeding dragonfly.
tenebrosa	Emerald					
Amblyscirtes vialis	Common Roadside-				S3S4	Found in trails, roads in wooded areas and often near
	Skipper					streams. Larvae are found feeding off of a variety of grass
						species.



Scientific Name	Common Name	SARAi	COSEWICii	NSESAiii	SRankiv	Habitat Requirements
Strophitus undulatus	Creeper				S1	This species is a habitat generalist, with a wide distribution. It is usually found in streams and rivers in a range of flow conditions (rarely in high-gradient streams of mountainous regions) but can tolerate lakes and ponds, particularly in outlets.
Lampsilis radiata	Eastern Lampmussel				S3S4	This species inhabits a variety of aquatic habitats, including small streams, large rivers, ponds, and lakes. It is found on a wide variety of substrate types, but prefers sand or gravel.
Margaritifera margaritifera	Eastern Pearlshell				S2	Found in streams and small rivers that support trout or salmon populations and exists in a variety of substrate.  Wallace River, Salmon River (Guysborough County), North and East Branch St. Mary's River.
Erora laeta	Early Hairstreak				S1	Habitats are always in hardwood forests or hardwood- northern conifer mixed forests, although like most hairstreaks a few adults sometimes turn up on flowers away from the woodsat least southward. Beech-maple forests seem most typical, but more mixed types can also have populations. Most habitats contain a lot of beech, but collections have been reported where beech was not present in the immediate area (Sullivan, 1971, Allen, 1997), often single individuals on flowers. Nearly all records are from hilly or mountainous regions.
Williamsonia fletcheri	Ebony Boghaunter				S2	Lentic. Habitat is bogs and fens. The microhabitat (sub-EO) is water-suspended or water-saturated Sphagnum ("quaking bog" and "moss lawn") whether or not associated with open water.
Gomphaeschna furcillata	Harlequin Darner				S3	Pond breeding
Gomphus descriptus	Harpoon Clubtail				S2S3	River breeding
Polygonia gracilis	Hoary Comma				SU	A boreal forest species. Eastward most likely where currants ( <i>Ribes</i> ) are common and not south of (or below) regions



	i wille Stream Priority			NOTO A "	00 1:	
Scientific Name	Common Name	SARAi	COSEWIC	NSESAII	SRankiv	Habitat Requirements
						where spruce and fir are common. Westward apparently
						mostly montane coniferous forests often near streams. At
						least in the west adults wander to other habitats.
Ophiogomphus mainensis	Maine Snaketail				S2S3	Streams and small rivers.
Danaus plexippus	Monarch	SC	Endangered	Endangered	S2B	Almost anywhere during the spring (northward) migration; near the larval foodplants during the breeding season; in the fall commonly near the coast, often in large numbers, all heading south. Larvae are found feeding on the following Milkweed species: Common Milkweed ( <i>Ascelpias syriaca</i> ) and Swamp Milkweed ( <i>A. incarnata</i> ), neither of which are abundant plants in Nova Scotia. Butterfly surveys for monarchs should be conducted in areas with potential to support milkweed species in mid to late summer and should
						be conducted by someone familiar with milkweed species.
Somatochlora septentrionalis	Muskeg Emerald				S2	Pond breeding.
Thorybes pylades	Northern Cloudywing				S2S3	A variety of brushy or wooded habitats with legumes, including some non-native ones. Not as limited to dry sites as T. bathyllus but they often co-occur
Lanthus parvulus	Northern Pygmy Clubtail				S3S4	Lotic. Overall habitat is clear streams and brooks with strong current over clean gravel, cobbles or bedrock, on comparatively unproductive soils ("trout stream"). Landform required to promote a strong current in small running waters generally has moderate to considerable relief, from hills to mountains. The microhabitat (sub-EO) is areas proximal to surface-breaking structure such as cobbles, boulders or deadwood in full current and proximal to sun-lit marginal vegetation.
Boyeria grafiana	Ocellated Darner				S3	Prefers swiftly flowing rocky forest streams and rivers; also rocky-shored lakes.
Amblyscirtes	Pepper and Salt				S2S3	Found on the edges of forests and streams. Larvae found
hegon	Skipper					feeding on a variety of grass species.

Firteen Mile Stream Priority Species List						Modalam Environmental Eta.		
Scientific Name	Common Name	SARAi	COSEWIC	NSESA	SRank <sup>iv</sup>	Habitat Requirements		
Epitheca princeps	Prince Baskettail				S2	Pond breeding		
Somatochlora	Quebec Emerald				S1	Pools in sphagnum bogs.		
brevicincta								
Polygonia	Question Mark				S3B	Usually found near woodland linear disturbances such as trail		
interrogationis						and roads as well as in wood city parks. Larvae found feeding		
						off of Nettles ( <i>Urtica sp.</i> ), Elms and Hops ( <i>Humulus sp.</i> ).		
Somatochlora	Ringed Emerald				S2S3	Pond breeding.		
albicincta								
Ophiogomphus	Rusty Snaketail				S1S2	Inhabits flowing clear streams and rivers in the northeastern		
rupinsulensis						third of the U.S., and parts of southeast Canada.		
Polygonia satyrus	Satyr Comma				S1?	Apparently much like <i>P.comma</i> generally near trees but		
						probably can breed in almost any setting with nettles. It is		
						primarily a boreal forest and woodland species often near		
						streams		
Gomphus	Skillet Clubtail	E	E		S1	In the Northeast, the larvae inhabit large rivers where they		
ventricosus						burrow in the soft mud of deep pools		
Satyrium liparops	Striped Hairstreak				S2S3	Found in deciduous forest edges, gardens and roadsides.		
and var. strigosum						Larvae found feeding off of members of the Rosaceae family		
						such as plum and cherries ( <i>Prunus</i> spp.). Occurences with		
						Oak (Quercus spp.), Willow (Salix spp.) and Blueberry		
						(Vaccinium spp.).		
Alasmidonta	Triangle Floater				S2S3	Frequently found in stream and rivers in sand and gravel		
undulata						substrates.		
Somatochlora	Williamson's				S2	Pond breeding.		
williamsoni	Emerald							
Stylurus scudderi	Zebra Clubtail				S1S2	Clean rivers and streams with sand or sand and cobble		
						bottoms and moderate current in wooded landscape; usually		
						much gravel and at least scattered rocks.		

<sup>&</sup>lt;sup>i</sup> Government of Canada. 2015. Species at Risk Public Registry. Accessed online, 15 February 2018. https://www.registrelepsararegistry.gc.ca/default.asp?lang=En&n=24F7211B-1



<sup>&</sup>lt;sup>ii</sup> Government of Canada. 2015. Committee on the Status of Endangered Wildlife in Canada. Accessed online, 15 February 2018. http://www.cosewic.gc.ca/eng/sct5/index\_e.cfm

Province of Nova Scotia. 2017. Categorized List of Species at Risk made under Section 12 of the *Endangered Species Act* S.N.S. 1998, c. 11, N.S. Reg. 146/2017 (April 12, 2017). Accessed online, 15 February 2018. https://www.novascotia.ca/just/regulations/regs/eslist.htm

<sup>&</sup>lt;sup>IV</sup> Atlantic Canada Conservation Data Centre. 2017. Status Ranks. Accessed online, 15 February 2018. http://accdc.com/en/ranks.html