WETLAND DATA RECORD

(i). WETLAND NAME AND/OR NUMBER Marlborough Forest Wetland Complex

(ii). ADMINISTRATIVE REGION Eastern , AND DISTRICT Carleton Place
OF ONTARIO MINISTRY OF NATURAL RESOURCES

(iii). CONSERVATION AUTHORITY JURISDICTION Rideau Valley

If not within a designated Conservation Authority, check here ___

(iv). COUNTY OR REGIONAL MUNICIPALITY Ottawa - Carleton

(v). TOWNSHIP Marlborough

(vi). LOTS AND CONCESSIONS see page 100 (a)

(vii). MAP AND AIR PHOTO REFERENCES

(a) Longitude and Latitude 75° 50' 35" ; 45° 03' 40"

(b) U.T.M. Grid Reference Zone: 18TVE ; Grid: 335 900

(c) National Topographic Series Scale and Map Number(s) & Name
Kemptville 31 G/4

(d) Air Photos

(1) Date photo taken 1978

(2) Scale of air photos 1:10,000

(3) Flight and plate numbers see page 100 (a)

(viii). WETLAND SIZE AND BOUNDARIES

(a) Single contiguous wetland area: _____ hectares

OR

(b) "Wetland Complex" comprised of 8 individual wetlands as follows:.

Wetland Number (for reference purposes)	Size of each wetland in the complex
Wetland No. 1	_____ hectares
Wetland No. 2	_____ "
Wetland No. 3	_____ "
Wetland No. 4	_____ "
Wetland No. 5	_____ "
Wetland No. 6	_____ "
Total size of wetland complex:	1099.0 ha "

see page 100 (a)

(vi) Lots and Concession

Marlborough Township

concession 3	lots 21-22
concession 4	lots 19-25
concession 5	lots 16-23
concession 6	lots 14-27
concession 7	lots 15-17
concession 8	lots 21-22

(vii) Map and Air Photo References

(d-3) Air photos

4503	(roll 76)	# 250-251
	(roll 85)	# 1-4
4504		# 147-152
4505		# 126-132
4506		# 64-69
4507		# 134

(viii) Wetland Size and boundaries

(b) Wetland comprised of 8 individual wetlands:

1. 1020.1 ha
2. 4.4 ha
3. 17.6 ha
4. 33.8 ha
5. 8.8 ha
6. 12.8 ha
7. 1.0 ha
8. 0.5 ha

Total 1099.0 ha

1.0. BIOLOGICAL COMPONENT

1.1. PRODUCTIVITY VALUES

1.1.1. Growing Degree-Days

Number of accumulated growing degree-days (check one)

_____	<2800
_____	2800 to 3200
✓	3200 to 3600
_____	>3600

1.1.2. Soils

	Estimated % of Area
- Clays, loams or silts (mineral)	30
- Organic	70
- Undesignated	

1.1.3. Type of Wetland

(check one or more)		Estimated % of Area
✓	Bog	0.3
✓	Fen	1.7
✓	Swamp	89.4
✓	Marsh (includes Open Water Marsh)	8.6

1.1.4. Site

(check one or more)		Estimated % of Area
	Isolated	
✓	Palustrine (permanent or intermittent outflow)	100
	Riverine	
	Riverine (at rivermouth)	
	Lacustrine (at rivermouth)	
	Lacustrine (on enclosed bay)	
	Lacustrine (exposed to lake)	

1.1.5. Nutrient Status of Surface Water

(a) Write conductivity bridge reading and calculate T.D.S. at 25°C as per tables in Appendix VIII.

Location Sampled (ie. inflow, outflow, etc.)	Initial Specific Conductance (umhos/cm)	Temperature (°C)		Total Dissolved Solids (T.D.S.) (mg/l)
1			=	220
2			=	340
3			=	325
			=	
		Average T.D.S.	=	295

(b) Check appropriate category (from (a))

Average T.D.S. (mg/l)	
<100	
100-500	✓
501-1500	
>1500	
NO READING	

1.2. DIVERSITY VALUES

1.2.1. Number of Wetland Types

(check one)

- ____ One
- ____ Two
- ____ Three
- ✓ Four

1.2.2. Vegetation Communities

(enter form and map code if available, or enter dominant species if known, and appropriate code/symbol)

a) One form

Code

(4) ____ ____

____ ____

____ ____

____ ____

see pages 103 (a) - (h)

b) Two forms

14 Code

c) Three forms

20 Code

d) Four forms

25 Code

e) Five forms

30 Code

f) Six or more forms

26 Code

1 form

W1	su	Chara
M2	re	cattail
M3	ne	sedges, grasses, horsetail
S1	dc	dead cedars

2 forms

W4	su ne	pondweeds; grasses
W5	su ds	Chara, pondweeds; stumps, logs, dead willows
W6	su dc	water milfoil, pondweeds; dead cedars
M7	re ff	cattail; frog's-bit
M8	re ne	cattail; sedges, grasses, spikerush
M9	ne su	spikerush, sedges; Chara, pondweeds
M10	ne ff	sedges; frog's-bit
M11	ne re	sedges, grasses; cattail
M12	ne gc	sedges, grasses, spikerush; mermaid weed, water parsnip
M13	ne ts	reed canary grass, grasses; willow
S2	ts re	willow; cattail
S3	dc ne	dead cedars; sedges, spikerush, grasses
S4	dc ts	dead cedars; willow
S5	ds ne	stumps; sedges, spikerush

3 forms

W14	su ne ff	pondweeds; sedges; frog's-bit
M15	ne ff su	sedges, spikerush; frog's-bit; pondweeds
M16	ne re su	horsetail, sedges; bulrush; pondweeds
M17	ne ff dc	sedges, burreed; frog's-bit; dead cedars
M18	ne ls gc	sedges; willow, red osier dogwood; marsh fern
M19	ne ts gc	sedges, spikerush; willow; boneset, mermaid weed
M20	re ne su	cattail; grasses; pondweeds
M21	re ne gc	cattail; sedges, grasses; jewelweed, water horehound
M22	re ne dc	cattail; sedges; dead cedars
S6	ts ne gc	willow; grasses, sedges; herbs
S7	ts ls ne	willow; red osier dogwood, willow; sedges, spikerush, grasses
S8	ts ds su	willow; dead willows; pondweeds
S9	ts dc ne	willow; dead cedars; grasses, sedges
S10	ds ne su	dead willows; spikerush, sedges; Chara
S11	h ne gc	red maple, silver maple; grasses, sedges; ferns, herbs
S12	dh re gc	dead hardwoods; cattail; purple loosestrife
S13	dc ne be	dead cedars; grasses, sedges; beggarticks
S14	dc ne gc	dead cedars; sedges, grasses; purple loosestrife
S15	dc ts ne	dead cedars; willow; reed canary grass
F1	ne ls m	sedges, spikerush; willow; brown mosses

4 forms

M23	re ne ff dc	cattail; sedges, grasses; frog's-bit; dead cedars
M24	re ne ls gc	cattail; sedges; willow, dogwood; purple loosestrife, asters
M25	re be ts ne	cattail; beggarticks; willow; grasses, sedges
M26	ne re ls su	sedges, grasses; cattail; willow; pondweeds
M27	ne su ds dh	horsetail, sedges; Chara; stumps, logs; dead hardwoods
S16	ts re ne gc	willow; cattail; sedges, grasses; purple loosestrife
S17	ts ne be ff	willow; sedges; beggarticks; frog's-bit
S18	ts ls gc ff	willow; spiraea, red osier dogwood; purple loosestrife, marsh fern; frog's-bit
S19	ts ls ne gc	speckled alder, cedar; red osier dogwood, spiraea; sedges, grasses; ferns, herbs
S20	ts ls re ne	willow; red osier dogwood, willow; cattail; sedges, grasses
S21	ts ls ne m	willow, dogwood; red osier dogwood; sedges, grasses; mosses
S22	ts ds re ne	willow; dead willows and cedars; cattail; sedges, spikerush
S23	ts ds ne gc	willow; dead cedar shrubs; grasses, sedges; marsh fern
S24	ts dc ne gc	willow; dead cedars; sedges, grasses; herbs
S25	ds ts re ne	dead willows; willow; cattail; sedges, grasses
S26	ds dh ne su	dead willows; dead hardwoods; spikerush, sedges; Chara
S27	h ts ne gc	black ash; black ash; sedges, grasses; asters, marsh fern

S28	h ts ls gc	silver maple, red maple; silver maple, red maple; gray dogwood, red maple; ferns, herbs
S29	dh re ne gc	dead hardwoods; cattail; sedges, grasses; marsh fern
S30	c ne gc m	cedar; sedges; marsh fern, wild sarsaparilla; mosses
S31	dc ts ne gc	dead cedars; willow, speckled alder; sedges; boneset, marsh st. john's wort
S32	dc dh ts ne	dead cedars; dead hardwoods; willow, speckled alder; reed canary grass, grasses
F2	ne ls gc m	sedges; willow; marsh cinquefoil, marsh st. john's wort; brown mosses
B1	ts ls gc m	black spruce, tamarack; labrador tea, leatherleaf; 3 leaved false solomon's seal, sundew; sphagnum moss
B2	c ts gc m	black spruce, tamarack; winterberry, black spruce; 3 leaved false solomon's seal; sphagnum moss, mosses

5 forms

M28	re ne ls gc m	cattail; sedges, grasses; dogwood, red osier dogwood; bulb bearing water hemlock, herbs; mosses
M29	re ne be gc ff	cattail; sedges, spikerush; beggarticks; purple loosestrife; frog's-bit
S33	ts ls ne gc m	willow; red osier dogwood, leatherleaf; sedges, grasses; ferns, bugleweed; mosses
S34	ts ls re ne gc	willow, tamarack; red osier dogwood, spiraea; cattail; sedges, grasses; purple loosestrife, joe-pye-weed
S35	ts ds re ne gc	black ash; dead ash and willows; cattail; sedges, grasses; purple loosestrife
S36	ts h ls ne be	willow, dogwood; balsam poplar, white birch; willow, spiraea; sedges; beggarticks

S37	ts h ls ne gc	willow, speckled alder; red maple; red osier dogwood; grasses, sedges; herbs
S38	ts h ne be gc	black ash, balsam fir; black ash; sedges, grasses; water arum; sensitive fern, jewelweed
S39	ts dh ls ne gc	willow, cedar; dead hardwoods; red osier dogwood, willow; sedges, grasses; marsh fern, sensitive fern
S40	ts dh re ne gc	willow, black ash; dead hardwoods; cattail; grasses, sedges; herbs
S41	ts c ls ne gc	willow, dwarf birch; tamarack; red osier dogwood, alder leaved buckthorn; sedges, grasses; marsh fern
S42	ts c ls ne m	cedar; tamarack; cedar, labrador tea; sedges; mosses
S43	ts ds ls ne gc	willow; dead cedars; willow, red osier dogwood; sedges, grasses; ferns, herbs
S44	ts dc ds ne gc	willow; dead cedars; dead cedar and willow shrubs; grasses, sedges; herbs
S45	ds dc ne be su	dead shrubs; dead cedars; grasses, sedges; beggarticks; pondweeds
S46	h ts ls ne gc	black ash, red maple; willow, balsam fir; red osier dogwood, dogwood; sedges, grasses; marsh fern, asters
S47	h ts ls gc m	black ash; winterberry, white elm; alder leaved buckthorn, cedar; marsh fern, sensitive fern; mosses
S48	h c ts ne gc	black ash, red maple; cedar, balsam fir; black ash, red maple; sedges, grasses; jewelweed
S49	dh ts re ne gc	dead hardwoods; willow, black ash; cattail; grasses, sedges; herbs
S50	dh ts ls re ne	dead hardwoods; willow, black ash; red osier dogwood, willow; cattail; reed canary grass, sedges, grasses
S51	dh ds su f ff	dead hardwoods; stumps, logs; pondweeds; floating leaf pondweed; frog's-bit

S52	dh dc re ne ff	dead hardwoods; dead cedars; cattail; sedges, spikerush, grasses; frog's-bit
S53	c ts ne gc m	cedar; cedar; sedges, grasses; marsh fern, herbs; mosses
S54	c ts ls ne gc	cedar, balsam fir; black ash, cedar; cedar, balsam fir; sedges, grasses; marsh fern, sensitive fern
S55	dc ls ne gc m	dead cedars; willow; sedges, grasses; sensitive fern, asters; mosses
S56	dc ds re ne be	dead cedars; dead cedar shrubs; cattail, bulrush; spikerush, sedges; beggarticks
S57	dc ds ls ne gc	dead cedars; logs, stumps; dogwood; sedges, grasses, spikerush; marsh fern
S58	dc ts re ne gc	dead cedars; willow, cedar; cattail, bulrush; sedges, horsetail; marsh fern, boneset
S59	dc ts ls ne gc	dead cedars; willow, dogwood; red osier dogwood, willow; sedges, grasses; purple loosestrife, boneset
F3	ts ne ls gc m	dwarf birch; sedges; willow; marsh cinquefoil, marsh st. john's wort; brown mosses

<u>6 forms</u>

S60	ts ls re ne gc ff	cedar, speckled alder; red osier dogwood; cattail; sedges, grasses; marsh fern, purple loosestrife; frog'-bit
S61	ts ls ne gc ff m	willow, cedar; willow; sedges; marsh fern; frog's-bit; brown moss
S62	ts ls re ne gc m	willow, cedar; willow, spiraea; cattail; sedges, grasses; boneset, jewelweed; brown mosses
S63	ts h ls ne gc m	willow, black ash; black ash; red osier dogwood; grasses, sedges; ferns; mosses
S64	ts h dc ls ne gc	black ash, willow; black ash; dead cedars; red osier dogwood; grasses, sedges; herbs

S65	ts h ds ls ne gc	willow, cedar; balsam poplar; dead willows, dead shrubs; red osier dogwood, alder leaved buckthorn; sedges, grasses; bugleweed, marsh fern
S66	ts dh ds ls ne gc	black ash; dead ash and maple; dead cedar shrubs, stumps, logs; red osier dogwood, gray dogwood; sedges; sensitive fern, jewelweed
S67	ts dh dc re ne gc	willow, red maple; dead maples; dead cedars; cattail; sedges, grasses; ferns, water smartweed, purple loosestrife
S68	ts c ls ne gc m	black ash; tamarack; cedar, red osier dogwood; sedges, grasses; marsh fern; mosses
S69	ts h c ls ne gc	black ash, red maple; black ash; cedar; red osier dogwood; grasses, sedges; herbs, ferns
S70	ds dc ts ls ne gc	dead shrubs; dead cedars; willow; red osier dogwood; grasses, sedges; herbs, ferns
S71	h ts ls ne gc m	red maple, black ash; cedar, black ash; balsam fir, red osier dogwood; sedges, grasses; marsh fern; mosses
S72	h c ts ls ne gc	black ash; cedar, tamarack; cedar, winterberry; red osier dogwood, alder leaved buckthorn; sedges, grasses; herbs, ferns
S73	h dc ts ls ne gc	black ash; dead cedars; willow, black ash; spiraea, red osier dogwood; sedges, grasses; ferns, purple loosestrife
S74	dh dc ts re ne gc	dead hardwoods; dead cedars; willow; cattail; grasses, sedges; ferns, herbs
S75	c ts ls ne gc m	cedar, tamarack; cedar, balsam fir; willow, dwarf blackberry; sedges, grasses; marsh cinquefoil, herbs; brown moss, sphagnum moss
S76	dc ts re ne gc ff	dead cedars; willow; cattail; sedges, grasses; purple loosestrife; frog's-bit

S77 dc ts ls re ne gc dead cedars; willow; red osier dogwood; cattail; sedges; purple loosestrife

S78 dc ts ls ne gc m dead cedars; willow, cedar; alder leaved buckthorn, willow; sedges, grasses; ferns, boneset; brown mosses, mosses

S79 dc h ts ls ne gc dead cedars; black ash; black ash, willow; red osier dogwood, cedar; sedges, grasses; herbs, ferns

<u>7 forms</u>

S80 ts h dh dc ls ne gc willow, black ash; black ash, red maple; dead maple and ash; dead cedar and tamarack; willow, red osier dogwood; sedges, grasses; joe-pye-weed, ferns

S81 ts c h ls ne gc m cedar, balsam fir; cedar, white spruce; white birch; cedar; sedges; 3 leaved false solomon's seal, marsh fern; sphagnum moss, mosses

S82 ts dc ls re ne gc ff willow; dead cedars; red osier dogwood; cattail; sedges, grasses; marsh fern, purple loosestrife; frog's-bit, duckweed

S83 h c ts ls ne gc m black ash; cedar, tamarack; black ash, red maple; red osier dogwood, dwarf blackberry; sedges, grasses; jewelweed, water horehound; mosses

S84 h dh dc ts ls ne gc black ash; dead hardwoods; dead cedar and spruce; black ash, dogwood; red osier dogwood, spiraea; reed canary grass, sedges; jewelweed, joe-pye-weed

<u>8 forms</u>

S85 dh h c dc ts ls ne gc dead hardwoods; black ash, balsam poplar; cedar; dead cedars; willow, black ash; red osier dogwood; grasses, sedges; ferns

1.2.3. Diversity of Surrounding Habitat
(check all appropriate items)

✓ row crops
✓ pasture
✓ abandoned agricultural land
✓ deciduous forest
✓ coniferous forest
___ urban or cottage development
✓ pits, quarries or mining waste disposal
___ open lake or deep river
✓ fence rows with cover, or shelterbelts
___ terraine undulating or hilly with ravines
✓ creek(s)

Enter Total = 8

1.2.4. Proximity to Other Wetlands
(check first appropriate category)

i) Hydrologically connected by surface water to other wetlands (different dominant type) or open water within 1.5 km. ___

ii) Hydrologically connected by surface water to other wetlands (same dominant type) within 0.5 km. ✓

iii) Hydrologically connected by surface water to other wetlands (different dominant type) or open water body from 1.5 to 4 km away. ___

iv) Hydrologically connected by surface water to other wetlands (same dominant type) from 0.5 to 1.5 km away. ___

v) Within 0.75 km of other wetlands (different dominant type) or open water body, but not hydrologically connected by surface water. ___

vi) Within 1 km of other wetlands, but not hydrologically connected by surface water. ___

vii) No wetland within 1.5 km. ___

1.2.5. Interspersion
(check one)

Type 1 ___
Type 2 ___
Type 3 ✓
Type 4 ___

1.2.6. Open Water Types
(check one)

No open water	____
Type 1	____
Type 2	____
Type 3	✓
Type 4	____
Type 5	____
Type 6	____
Type 7	____
Type 8	____

open water 8%

1.3. SIZE (Biological Component)
(refer to viii)
1099.0 hectares

2.0. SOCIAL COMPONENT

2.1. RESOURCE PRODUCTS WITH CASH VALUE

2.1.1. Timber (lumber and firewood)
(1) ____ 51 to 100% of wetland area has mature trees (>10 cm dbh, >25% cover)
(2) ✓ 10 to 50% of wetland area has mature trees (as above) (49%)
(3) ____ Wetland has few, immature or no trees
Source of information: field mapping

2.1.2. Wild Rice
(1) ____ Present
(2) ✓ Absent
Source of Information: field observation

2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish)
(1) ____ Fish harvested from the wetland (as per MNR)
(2) ____ Abundant during at least part of the year
(3) ✓ Not abundant or only occasional
(4) ____ Habitat not suitable for fish
Source of Information: field observation

2.1.4. Bullfrogs
(1) ____ Present
(2) ✓ Absent
Source of Information: field observation

2.1.5. Snapping Turtles

(1) ✓ Present

(2) ____ Absent

Source of Information: field observation

2.1.6. Furbearers

(check if present)

✓ muskrat

✓ raccoon

✓ beaver

____ mink

✓ other red fox, coyote

Source of Information: field observation

2.2. RECREATIONAL ACTIVITIES

(check appropriate spaces)

Intensity of Use	Type of Wetland Associated Use: Hunting	Nature Appreciation or Study	Fishing	Canoeing/Boating
High	✓	✓		
Moderate				
Low				
None Known			✓	
Not Possible				✓
Source of Information	← Peter Evans, MNR Carleton Place →			

2.3. AESTHETICS

2.3.1. Landscape Distinctness

(1) ✓ Clearly distinct

(2) ____ Indistinct

2.3.2. Absence of Human Disturbances

2.3.2.1. Level of Disturbance

(1) _____ Human disturbances absent or nearly so
(2) ✓ One or several singular or localized disturbances
(3) _____ Moderate disturbance or localized water pollution
(4) _____ Impairment of natural quality intense in some areas or severe localized water pollution
(5) _____ Extremely intense disturbance or water pollution severe and widespread.

2.3.2.2. Types of Disturbances

✓ roads
_____ utility corridor
_____ buildings
_____ channelization
_____ drainage
_____ filling
_____ water pollution
✓ other: DU impoundment.

2.4. EDUCATION AND PUBLIC AWARENESS

2.4.1. Educational Uses

(1) _____ Frequent - an average of 2 or more visits per year by one or more school groups, local clubs for the purpose of studying the animals, plants, environment, etc.
(2) _____ Infrequent - use by organized groups (one visit or less per year or only casual visits)
(3) ✓ No known visits

List groups utilizing the wetland

Name of Group(s)	Source of Information

2.4.2. Facilities and Programs
(check one)

(1) _____ Staffed interpretation center with shelters, trails, literature
(2) ✓ No interpretation center or staff, but a system of self-guiding trails and observation points or brochures available
(3) _____ No facilities or programs

Rideau Trail
Cedar Grove Nature Trail

2.4.3. Research and Studies
(check one)

(1) _____ One or more wetland-related scientific research papers published in a scientific journal;
(2) ✓ One or more reports written outlining some aspect of the wetland's natural resources;
(3) _____ No reports or papers.

List scientific papers, reports, etc.

see page 108 (a)

2.5. PROXIMITY TO URBAN AREAS
(check one)

(1) _____ In an urban or suburan area
(2) _____ <10 km from a population center greater than 10,000
(3) ✓ 10 to 60 km from a population center greater than 10,000
(4) _____ Isolated or relatively remote

2.6. OWNERSHIP/ACCESSIBILITY

Estimate % of area and enter in the appropriate space(s)

ACCESSIBILITY	OWNERSHIP				
	Public, unrestricted activities	Public, restricted activities	Private, open to public for limited activities	Private Club, closed to public	Private or Private and posted
1) Easy at most times by road/waterway	66%		11%		
2) Easy only at certain times of the year					
3) Limited, moderate effort required	5%		18%		
4) Difficult*					

* Requires extended effort due to distance from roads, navigable waterways or isolated geographical position.

Source of information MNR Land Ownership Map / field observation

2.4.3 Research and Studies

(1) White, D.J. 1985. A life science inventory of parts of the Marlborough Forest, RMOC. MNR Carleton Place District.

(2) White, D.J. 1989. Additional life science inventories of parts of the Marlborogh Forest, RMOC. MNR Eastern Region.

(3) MNR Carleton Place District. 1987. Deer Yard Survey - Part of the Marlborough Forest. unpublished.

(4) Reddoch, J. 1978. Conservation Lands Study (Part 2). Trail & Landscape 12(3): 72-75.

(5) Austen, M., P. Hayes, L. L'Arrivee and M. Williamson. 1991. Breeding Birds of the Marlborough Forest. Trail & Landscape 25 (1): 7-13.

(6) Regional Municipality of Ottawa Carleton. 1989. Marlborough Forest: 1988 Life Science Survey. RMOC Planning Dept. #15-26.

(7) MNR Carlton Place. Cedar Grove Nature Trail pamphlet.

(8) Rideau Trail Guide.

(9) Numerous Ducks Unlimited site reports

2.7. Size (Social Component)

1099.0 hectares (refer to viii)

3.0. HYDROLOGICAL COMPONENT

3.1. EFFECT OF ADJOINING LARGE WATER BODY
(check one)

(1) _____ Wetland located on the Ottawa, St. Lawrence, Niagara, Detroit or St. Clair Rivers (Go to 3.3)

(2) _____ Wetland bordering on one of the Great Lakes (Go to 3.3)

(3) ✓ Wetland not located as above (Go to 3.2)

If (1) or (2), omit Section 3.2, FLOW STABILIZATION. Continue with Section 3.3, WATER QUALITY IMPROVEMENT. If (3), proceed to Section 3.2.

3.2. FLOW STABILIZATION (All wetlands except those bordering on the Great Lakes or the 5 large rivers)

3.2.1. Detention Due to Surface Area

3.2.1.1. Size of Catchment Basin above Wetland Outflow

Catchment Basin Size 37.5 sq. km

3.2.1.2. Total Size of all Detention Areas (Lakes, Reservoirs and Wetlands) Draining into the Wetland (sq. km)

List Detention Areas	Size
none	
Total	0 sq. km

3.2.1.3. Size of Adjoining Lake (Lacustrine wetlands only)

n/a _____ hectares

3.2.1.4. Size of Adjoining River (Riverine wetlands only)
(not assessed)

3.2.1.5. Location and Size of Detention Areas (Lakes, Reservoirs and Wetlands) within 30 km above and below the wetland

(NOTE: 1 sq. km = 100 ha)

(a) Detention areas above the wetland (within 30 km)

Name and/or Number of Detention Area	Distance upstream from wetland (in km)	Size (hectares)	For Scoring Use
none			

(b) Detention areas below the wetland (within 30 km)

Name and/or Number of Detention Area	Distance downstream from wetland (in km)	Size (hectares)	For Scoring Use
Part of Richmond Fen	<0.5 km	2900 ha	-28

3.2.1.6. Land Use along River or Stream Shoreline for 20 km Below the Wetland
(Palustrine and all Riverine wetlands except those located along the 5 large rivers).

(check one)

(1) Wetland outflow exits into a deep ravine _____
(2) A village, town or urban area is located along outflow within 20 km ✓ Richmond
(3) Not as above, and actively farmed agricultural land borders onto outflow, and

length of agricultural border =	<1 km	_____
(sum of shoreline	1-3	_____
on both sides of	4-8	_____
river within 20 km)	>8	_____

(4) Not as above, (eg. lands bordering outflow within 20 km are forested, or abandonned by agriculture, or outflow enters another wetland or lake, etc.) _____

3.2.1.7. Size (Hydrological Component)
(see viii)
1099.0 ha

3.2.2. Flow Augmentation (Palustrine wetlands only)

Size of Catchment basin 37.5 sq. km (See 3.2.1.1)
Wetland Area as a % of Catchment Basin Size 29 %
(Note: convert wetland area to sq. km before calculating %)

3.3. WATER QUALITY IMPROVEMENT (All wetlands)

3.3.1. Short Term Removal of Nutrients from Surface Water

3.3.1.1. Site Type (see 1.1.4 and check dominant site)

_____ Isolated
✓ Palustrine (with permanent or intermittent outflow)
_____ Riverine
_____ Riverine (at rivermouth)
_____ Lacustrine (at rivermouth)
_____ Lacustrine (on enclosed bay)
_____ Lacustrine (exposed to lake)

3.3.1.2. Actual Wetland Area Dominated by Robust Emergents and Submergents
(check one)

_____	<5
✓	5 - 50
_____	51 - 100
_____	101 - 250
_____	251 - 500
_____	501 - 1000
_____	>1000 hectares

3.3.1.3. Land Use in Catchment Basin
(check one)

(1) _____ Mainly agriculture and/or urban
(2) _____ Roughly 40-60% agriculture; remainder forested or abandoned agriculture
(3) ✓ Mainly forested and/or less than 40% agriculture

3.2.2. Long Term Nutrient Trap
(check one)

(1) _____ Wetland located on an active delta
(2) _____ Wetland rivermouth but without obvious delta
(3) ✓ Wetland with organic soils occupying 50% or more of the area
(4) _____ Wetland with organic soils occupying less than 50% of the area (i.e. mainly mineral or undesignated soils)

3.4. EROSION CONTROL

3.4.1. Erosion Buffer (Lacustrine and Riverine wetlands only)

NOTE: Assess for the dominant site type (see 3.3.1.1)

3.4.1.1. Riverine Wetlands (shoreland and flood plain)
(check principal vegetation form)

(1) _____ Trees or Shrubs
n/a (2) _____ Emergents
(3) _____ Non-vegetated or nearly so

3.4.1.2. Lacustrine Wetlands (with or without barrier beach)
(check principal vegetation form)

(1) _____ Trees or Shrubs
(2) _____ Emergents
n/a (3) _____ Submergents and Floating
(4) _____ Non-vegetated or nearly so

3.4.1.3. Fetch (Lacustine wetlands or Riverine wetlands on any of the 5 large rivers)

Maximum distance

n/a

(1) _____ barrier beach present
(2) _____ <2 km
(3) _____ 2 to 8 km
(4) _____ >8 km

3.4.2 Sheet Erosion (All except Lacustrine wetlands)
(check the appropriate space)

Wetland Size (ha)	R FACTOR VALUE <50	50-75	75-100	>100
<2				
2-5				
6-10				
11-15				
16-20				
>20		✓		

4.0. SPECIAL FEATURES COMPONENT

4.1. RARITY AND/OR SCARCITY

4.1.1. Individual Wetlands

Name of Physiographic Unit: Lanark Plain

Unit Number: 14

4.1.2. Wetland Type Representation (minimum size 0.5 ha)

(check one or more)

- ✓ Marsh
- ✓ Swamp
- ✓ Fen
- ✓ Bog

4.1.3. Individual Species

4.1.3.1. Breeding Habitat for an Endangered Animal or Plant Species

	Name of Species	Source of Information
(1)		
(2)		

4.1.3.2. Traditional Migration or Feeding Habitat for an Endangered Animal Species

	Name of Species	Source of Information
(1)		
(2)		

4.1.3.3. Breeding or Feeding Habitat for a Provincially Significant Animal Species

see page 114 (a)

	Name of Species	Source of Information
(1)		
(2)		

4.1.3.4. Provincially Significant Plant Species

	Name of Species	Source of Information
(1)	Bidens discoidea	field observation; specimen collected
(2)		

4.1.3.3 Breeding or Feeding habitat for a provincially significant animal species

1.	Black tern	field observation
2.	Northern harrier	" "
3.	Pied-billed grebe	" "
4.	Sedge wren	" "

4.1.3.4 Provincially Significant Plant Species

1.	Bidens discoidea	field collection

4.1.3.5 Regionally Significant

1.	Sparganium natans	field collection
2.	Eleocharis tenuis	" "
3.	Proserpinaca palustris	" "
4.	Eriophorum gracile	" "
5.	Malaxis monophyllos	" "
6.	Mink frog	field observation
7.	Blanding's turtle	" "
8.	Virginia rail	" "
9.	Green backed heron	" "
10.	Swamp sparrow	" "

4.1.3.5. Regionally Significant Species

	Name of Species	Source of Information
(1)		
see page 114(a) (2)		
(3)		
(4)		

4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

4.2.1. Nesting of Colonial Waterbirds
(check one)

(1) ✓ Currently nesting; species name(s) Black tern
(2) ____ Known to have nested within past 5 years; species name(s) ____
(3) ____ Active feeding area
(4) ____ None known

Source of Information: field observation

4.2.2. Winter Cover for Wildlife
(check only highest level of significance)

(1) ____ Provincial signficance for Deer ____, Moose ____
(2) ✓ Regional significance for Deer ✓, Moose ____
(3) ____ Local significance for Deer ____, Moose ____
(4) ✓ Good winter cover for other species (list): small mammals + birds
(5) ____ Poor winter cover

Source of Information: Harry McLeod, MNR Carleton Place

4.2.3. Waterfowl Staging
(check only highest level of significance)

(1) ____ National significance
(2) ____ Provincial significance
(3) ____ Regional signficance
(4) ✓ Local or no significance

Source of Information: Harry McLeod, MNR Carleton Place

4.2.4. Waterfowl Production
(check only highest level of significance)

(1) ____ Provincial significance
(2) ____ Regional significance
(3) ✓ Local significance
(4) ____ Little or no significance

Source of Information: Harry McLeod, MNR Carleton Place

4.2.5. Migratory Passerine and/or Shorebird Stopover Area
(check one)

(1) _____ High significance
(2) ✓ No significance

Source of Information: Harry McLeod, MNR Carleton Place

4.2.6. Significance for Fish Spawning and Rearing
(check one)

(1) _____ Regional significance
(2) ✓ Present
(3) _____ Unknown
(4) _____ Not possible

Species and Source of Information: Hans Von Rosen: MNR Carleton Place
Northern pike, baitfish

4.2.7. Unusual Geological or other Surficial Features

Feature	Source of Information
(1) none	
(2)	

4.3. ECOLOGICAL AGE

Type of Wetland	Enter % of Area
✓ Bog	0.3
✓ Fen	1.7
✓ Swamp	89.4
✓ Marsh	8.6

INVESTIGATORS

Ron Huizer + Jann Atkinson

AFFILIATION

Atkinson & Huizer Biosurveys, Ottawa

DATE

July 9, August 8, September 6+11, 1991

ESTIMATED TIME DEVOTED TO COMPLETING THE FIELD SURVEY IN "PERSON HOURS"

65

WEATHER CONDITIONS

(i) at time of field work: Variable
(ii) summer conditions in general: hot + extremely dry.

Wetland Name: Marlborough Forest Wetland Complex

Wetland Size (ha) : 1099.0 ha

Vegetation Form	% area in which form is dominant
h	16
c	14
dh	6
dc	13
ts	39.4
ls	
ds	4
gc	
m	
ne	4
be	
re	3
ff	
f	
su	0.6
u (unvegetated)	
Total =	100%

SUMMARY OF EVALUATION RESULTS

Wetland Name: MARLBOROUGH FOREST WETLAND COMPLEX

TOTAL FOR 1.0 BIOLOGICAL COMPONENT.....	201
TOTAL FOR 2.0 SOCIAL COMPONENT.....	182
TOTAL FOR 3.0 HYDROLOGICAL COMPONENT.....	158
TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT.....	250
TOTAL	791
CLASS	1

INVESTIGATORS:

RON HUIZER
JANN ATKINSON

AFFILIATION .. ATKINSON & HUIZER BIOSURVEYS
DATE 07/09/91

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY AND/OR SCARCITY

4.1.1. Individual Wetlands.....		20	
4.1.2. Wetland Type Representation.....		20	
4.1.3. Individual Species			
4.1.3.1. Breeding Habitat for an Endangered Animal or Plant Species.....	0		
4.1.3.2. Traditional Migration or Feeding Habitat for an Endangered Animal Species..	0		
4.1.3.3. Breeding or Feeding Habitat for a Provincially Significant Animal Species.	150		
4.1.3.4. Provincially Significant Plant Species.....	100		
4.1.3.5. Regionally Significant Species.....	30		
TOTAL for Individual Species		250	
TOTAL for Rarity and/or Scarcity			250

4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

4.2.1. Nesting of Colonial Waterbirds.....	15	
4.2.2. Winter Cover for Wildlife.....	50	
4.2.3. Waterfowl Staging.....	0	
4.2.4. Waterfowl Production.....	5	
4.2.5. Migratory Passerine and/or Shorebird Stopover Area.....	0	
4.2.6. Significance for Fish Spawning and Rearing.....	15	
4.2.7. Unusual Geological or other Surficial Features.....	0	
TOTAL for Significant Features and/or Fish and Wildlife Habitat		85
4.3. ECOLOGICAL AGE		2
TOTAL FOR SPECIAL FEATURES COMPONENT		250

3.0 HYDROLOGICAL COMPONENT

3.1. EFFECT OF ADJOINING LARGE WATER BODY

3.2. FLOW STABILIZATION

3.2.1. Detention due to Surface Area			
3.2.1.1. and			
3.2.1.2. FIRST step (from Table).....	90		
3.2.1.3. SECOND step.....	0		
3.2.1.5. THIRD step.....-28			
3.2.1.6. FOURTH step.....	0		
3.2.1.7. FIFTH step.....	40		
TOTAL for Detention Due to Surface Area		102	
3.2.2. Flow Augmentation		40	
TOTAL for Flow Stabilization			142

3.3. WATER QUALITY IMPROVEMENT

3.3.1 Short Term Removal of Nutrients from Surface Water			
3.3.1.1. Site type.....	2		
3.3.1.2. Wetland Area Dominated by Robust Emergents and Submergents.....	2		
3.3.1.3. Land Use in Catchment Basin	3		
TOTAL for Short Term Removal of Nutrients from Surface Water		7	
3.3.2. Long Term Nutrient Trap		6	
TOTAL for Water Quality Improvement			13

3.4. EROSION CONTROL

3.4.1. Erosion Buffer			
3.4.1.1. Riverine Wetlands.....	0		
3.4.1.2. Lacustrine Wetlands.....	0		
3.4.1.3. Fetch.....	0		
TOTAL for Erosion Buffer		0	
3.4.2. Sheet Erosion		3	
TOTAL for Erosion Control			3
TOTAL FOR HYDROLOGICAL COMPONENT			158

2.0 SOCIAL COMPONENT

2.1. RESOURCE PRODUCTS WITH CASH VALUE		
2.1.1. Timber (lumber and firewood)	10	
2.1.2. Wild Rice	0	
2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish)	5	
2.1.4. Bullfrogs	0	
2.1.5. Snapping Turtles	2	
2.1.6. Furbearers	15	
TOTAL for Resource Products with Cash Value		32
2.2. RECREATIONAL ACTIVITIES		70
2.3. AESTHETICS		
2.3.1. Landscape Distinctness	5	
2.3.2. Absence of Human Disturbances	15	
TOTAL for Aesthetics		20
2.4. EDUCATION AND PUBLIC AWARENESS		
2.4.1. Educational Uses	0	
2.4.2. Facilities and Programs	10	
2.4.3. Research and Studies	3	
TOTAL for Education and Public Awareness		13
2.5. PROXIMITY TO URBAN AREAS		10
2.6. OWNERSHIP/ACCESSIBILITY		17
2.7. SIZE (Social Component)		20
TOTAL FOR SOCIAL COMPONENT		182

1.0 BIOLOGICAL COMPONENT

1.1. PRODUCTIVITY VALUES

1.1.1. Growing Degree Days	14	
1.1.2. Soils	7	
1.1.3. Type of Wetland	13	
1.1.4. Site	4	
1.1.5. Nutrient Status of Surface Water	20	
TOTAL for Productivity Values		58

1.2. DIVERSITY VALUES

1.2.1. Number of Wetland Types	12	
1.2.2. Vegetation Communities	30	
1.2.3. Diversity of Surrounding Habitat	7	
1.2.4. Proximity to Other Wetlands	10	
1.2.5. Interspersion	20	
1.2.6. Open Water Types	14	
TOTAL for Diversity Values		93

1.3. SIZE (Biological Component)	50
TOTAL FOR BIOLOGICAL COMPONENT	201

WETLAND EVALUATION RECORD

Wetland Name..... MARLBOROUGH FOREST WETLAND COMPLEX

Result of Evaluation: CLASS 1

GENERAL INFORMATION

Ontario Ministry of Natural Resources:
Region ..... EASTERN
District ..... CARLETON PLACE

Conservation Authority ..... RIDEAU VALLEY

County or Regional Municipality ..... OTTAWA-CARLETON

Township ..... MARLBOROUGH

UTM Reference Zone 18TVE
UTM Grid Coordinates 335900

National Topographic Map Series:
Map Scale 1:50000
Map Number 31 G/4
Map Name ..... KEMPTVILLE

Wetland Association ..... Complex

Number of Wetlands in Complex 8

Total Size of Wetland (Ha) 1099.0

Birds observed in the Marlborough Forest wetland complex on July 9, August 8 and September 6 + 11, 1991.

** = provincially significant
* = regionally significant

Pied-billed grebe **
American bittern
Great blue heron
Green-backed heron *
Wood duck
Green-winged teal *
Mallard
Blue-winged teal
Turkey vulture
Northern harrier **
Broad winged hawk
Red tailed hawk
Ruffed grouse
Virginia rail
Lesser yellowlegs
Common snipe
American woodcock
Ring-billed gull
Black tern **
Mourning dove
Belted kingfisher
Yellow bellied sapsucker
Downy woodpecker
Hairy woodpecker
Northern flicker
Eastern wood peewee
Alder flycatcher
Least flycatcher
Eastern phoebe
Great crested flycatcher
Eastern kingbird
Tree swallow
Sedge wren **
Blue jay
American crow
Black capped chickadee
White-breasted nuthatch
Veery
American robin
Gray catbird
Cedar waxwing
Nashville warbler
Yellow warbler
Yellow rumped warbler
Black throated green warbler
Common yellowthroat
Chipping sparrow
Song sparrow
Swamp sparrow *
White throated sparrow
Red-winged blackbird
Common grackle
Brown headed cowbird
American goldfinch

Fauna observed in the Marlborough Forest wetland complex on July 9, August 8 and September 6+11, 1991.

* = regionally significant

Mammals

beaver
muskrat
raccoon
red fox
mink
coyote
white tailed deer
snowshoe hare
red squirrel

Reptiles and Amphibians

green frog
leopard frog
mink frog *
gray treefrog
american toad

northern water snake
garter snake

painted turtle
snapping turtle
Blanding's turtle *

List of Flora - Marlborough Forest wetland complex

EQUISETOPHYTA	HORSETAIL FAMILY
Equisetum fluviatile	water horsetail
Equisetum pratense	meadow horsetail
OPHIOGLOSSACEAE	ADDER'S TONGUE FAMILY
Botrychium virginianum	rattlesnake fern
OSMUNDACEAE	FLOWERING FERN FAMILY
Osmunda cinnamomea L.	cinnamon fern
Osmunda regalis	royal fern
POLYPODIACEAE	FERN FAMILY
Dryopteris cristata	crested wood fern
Dryopteris goldiana	Goldie's fern
Dryopteris spinulosa	spinulose wood fern
Gymnocarpium dryopteris	oak fern
Onoclea sensibilis	sensitive fern
Thelypteris palustris	marsh fern
PINACEAE	PINE FAMILY
Abies balsamea (L.) Mill.	balsam fir
Larix laricina	tamarack
Picea glauca	white spruce
Picea mariana (Mill.) BSP	black spruce
Pinus stobus L.	white pine
CUPRESSACEAE	CYPRESS FAMILY
Thuja occidentalis L.	eastern white cedar
TYPHACEAE	
Typha angustifolia L.	narrow leaved cattail
Typha latifolia L.	cattail
SPARGANIANCEAE	BURREED FAMILY
Sparganium chlorocarpum	stemless burreed
Sparganium eurycarpum Engelm.	broad fruited burreed
Sparganium natans L.	small burreed
POTAMOGETONACEAE	PONDWEED FAMILY
Potamogeton natans	floating pondweed

ALISMATACEAE	WATER PLANTAIN FAMILY
Alisma plantago-aquatica L.	water plantain
HYDROCHARITACEAE	FROG'S BIT FAMILY
Hydrocharis morsus-ranae	frog's bit
GRAMINEAE	GRASS FAMILY
Calamagrostis canadensis (Michx.)	canada blue joint grass
Glyceria striata	fowl manna grass
Leersia oryzoides	rice cut grass
Muhlenbergia glomerata	agglomerated muhlenbergia
Phalaris arundicacea L.	reed canary grass
Phragmites communis	common reed grass
Poa palustris	swamp meadow grass
CYPERACEAE	SEDGE FAMILY
Carex aurea Nutt.	golden sedge
Carex comosa	bristly sedge
Carex cristatella	crested sedge
Carex flava	yellow sedge
Carex hystericina	porcupine sedge
Carex interior Bailey	inland sedge
Carex lanuginosa Michaux.	sedge
Carex lasiocarpa	wooly sedge
Carex lupulina	hop sedge
Carex magellanica spp. irrigua (wahl) Hulten	stunted sedge
Carex scoparia	broom sedge
Carex trisperma	three fruited sedge
Carex tuckermanii	tuckerman's sedge
Carex utriculata Boott.	beaked sedge
Carex vulpinoides	fox sedge
Dulchium arundinaceum	three way sedge
Eleocharis acicularis	needle spike rush
Eleocharis obtusa	blunt spike rush
Eleocharis palustris	marsh spike rush
Eriophorum gracile	slender cotton grass
Eriophorum spissum	dense cotton grass
Eriphorum virginicum	virginia cotton grass
Eriophorum viridi-carinatum	green cotton grass
Scirpus cyperinus (L.) Kunth	wool grass
Scirpus validus L.	strong bulrush

ARACEAE	ARUM FAMILY
Arisaema triphyllum	jack in the pulpit
Calla palustris	water arum
LEMNACEAE	DUCKWEED FAMILY
Lemna minor	lesser duckweed
LILACEAE	LILY FAMILY
Maianthemum canadense	wild lily of the valley
Smilacina trifolia (L.) Desf.	3 leaved false solomon's seal
IRIDACEAE	IRIS FAMILY
Iris versicolor	blue flag
ORCHIDACEAE	ORCHID FAMILY
Cypripedium calceolus	yellow lady's slipper
Cypripedium reginae	showy lady's slipper
Epipactus helleborine	helleborine
Liparis loeselii (L.)	twayblade
Malaxis monophyllos (L.)	white adder's mouth
Spiranthes lacera (Raf.) Raf.	slender ladie's tresse
SALICACEAE	WILLOW FAMILY
Populus balsamifera L.	balsam poplar
Populus tremuloides Michx.	trembling aspen
Salix alba	white willow
Salix candida	hoary willow
Salix discolor Muhl.	pussy willow
Salix lucida	shining willow
Salix pedicellaris Push	bog willow
Salix petiolaris J.E. Sm.	slender willow
BETULACEAE	BIRCH FAMILY
Alnus rugosa	speckled alder
Betula alleghaniensis	yellow birch
Betula glandulifera	dwarf birch
Betula pappyrifera	white birch
ULMACEAE	ELM FAMILY
Ulmus americana L.	white elm

URTICACEAE	NETTLE FAMILY
Boehmeria cylindrica	false nettle
Laportea canadensis	wood nettle
Pilea pumila	clearweed
Urtica dioca L. ssp gracilis	stinging nettle
POLYGONACEAE	BUCKWHEAT FAMILY
Polygonum amphibium	water smartweed
Rumex verticillatus	water dock
CERATOPHYLLACEAE	HORNWORT FAMILY
Ceratophyllum demersum L.	hornwort, coontail
NYMPHAECEAE	WATER LILY FAMILY
Nuphar variegatum Engelm.	cow lily, bulhead lily
RANUNCULACEAE	CROWFOOT FAMILY
Clematis virginiana	virgin's bower
Coptis trifolia (L.)	goldthread
Ranunculus sceleraus L.	cursed crowfoot
Thalictrum polygamum Muhl.	tall meadow rue
CRUCIFERAE	MUSTARD FAMILY
Rorippa islandica (Oeder) Borbas	yellow cress
SARRACENIACEAE	PITCHER PLANT FAMILY
Sarracenia purpurea L.	pitcher plant
DROSERACEAE	SUNDEW FAMILY
Drosera rotundifolis L.	round leaved sundew
SAXIFRAGACEAE	SAXIFRAGE FAMILY
Mitella nuda	naked mitrewort
Ribes americanum	wild black current
Ribes cynosbati l.	wild gooseberry
Ribes lacustre	swamp current
ROSACEAE	ROSE FAMILY
Aronia melanocarpa	black chokeberry
Fragaria virginaina	common strawberry
Potentilla palustris	marsh cinqufoil
Rubus pubescens	dwarf raspberry

Spiraea alba	meadowsweet
ANACARDIACEAE	CASHEW FAMILY
Rhus radicans	poison ivy
AQUIFOLIACEAE	HOLLY FAMILY
Ilex verticillata (L.) Nemopanthus mucronatus	winterberry mountain holly
ACERACEAE	MAPLE FAMILY
Acer rubrum L.	red maple
BALSAMINACEAE	TOUCH ME NOT FAMILY
Impatiens capensis Meerb.	touch me not, jewelweed
RHAMNACEAE	BUCKTHORN FAMILY
Rhamnus alnifolius	alder leaved buckthorn
VITACEAE	GRAPE FAMILY
Parthenocissus vitacea Vitis riparia	virginia creeper wild grape
TILIACEAE	LINDEN FAMILY
Tilia americana	basswood
HYPERACEAE	ST. JOHN'S WORT FAMILY
Triadenum fraseri	marsh st. john's wort
LYTHRACEAE	LOOSESTRIFE FAMILY
Lythrum salicaria	purple loosestrife
ONAGRACEAE	EVENING PRIMROSE FAMILY
Epilobium palustre	swamp willow herb
HALORAGIDACEAE	WATER MILFOIL FAMILY
Myriophyllum sp. Proserpinaca palustris L.	water milfoil mermaid weed
ARALICEAE	GINSENG FAMILY
Aralia nudicaulis Aralia racemosa	wild sarparilla spikenard, indian root

SOLANACEAE	NIGHTSHADE FAMILY
Solanum dulcamara L.	nightshade
SCROPHULARIACEAE	FIGWORT FAMILY
Chelone glabra L.	turtlehead
LENTIBULARIACEAE	BLADDERWORT FAMILY
Utricularia vulgaris L	common bladderwort
CAPRIFOLIACEA	HONEYSUCKLE FAMILY
Linnaea borealis L.	twinflower
Lonicera canadensis	canada fly-honeysuckle
Lonicera dioca L.	wild honeysuckle
Lonicera oblongifolia (Goldie)	swamp fly honeysuckle
Viburnum lentago	nannyberry
COMPOSITAE	COMPOSITE FAMILY
Aster junciformis Rydb.	rush aster
Aster lanceolatus Willd.	lance leaved aster
Aster novae-angliae L.	new enland aster
Aster puniceus L.	purple stemmed aster
Aster simplex	panicled aster
Bidens cernua l.	nodding beggarsticks
Bidens discoidea (Torrey & Gray) Britton	small beggarticks
Bidens frondosa L.	large leaved beggarticks
Eupatorium maculatum L.	spotted joe-pye weed
Eupatorium perfoliatum L.	boneset
Solidago candensis L.	canada goldenrod

UMBELLIFERAE	PARSELY FAMILY
Cicuta bulbifera	bulb bearing water hemlock
Cicuta maculata	cowbane
Sium sauve Walt.	water parsnip
CORNACEAE	DOGWOOD FAMILY
Cornus canadensis	bunchberry
Cornus racemosa	red panicled dogwood
Cornus stolonifera	red osier dogwood
PYROLACEAE	WINTERGREEN FAMILY
Pyrola elliptica	shinleaf
ERICACEAE	HEATH FAMILY
Andromeda glaucophylla	bog rosemary
Chamaedaphne calyculata	leatherleaf
Gaultheria hispidula	trailing snowberry
Gaultheria procumbens	wintergreen
Kalmia angustifolia	sheep laurel
Kalmia polifolia	bog laurel
Ledum groenlandicum	labrador tea
Vaccinium angustifolium	late low blueberry
Vaccinium myrtilloides	velvet leaved blueberry
Vaccinium oxycoccus	small cranberry
PRIMULACEAE	PRIMROSE FAMILY
Lysimachia thrysiflora L.	tufted loosestrife
Trientalis borealis Raf.	starflower
OLEACEAE	OLIVE FAMILY
Fraxinus nigra Marsh.	black ash
ASCLEPIADACEAE	MILKWEED FAMILY
Asclepias incarnata L.	swamp milkweed
VERBENACEAE	VERVAIN FAMILY
Verbena hastata L.	blue vervain
LABITAE	MINT FAMILY
Lycopus americanus Muhl.	cut leaved bugleweed
Lycopus uniflorus Michx.	northern bugleweed
Mentha arvensis L.	wild mint
Scutellaria galericulata L.	marsh skullcap