

APPENDIX I: FISH AND WILDLIFE IN THE TURTLE-FLAMBEAU SCENIC WATERS AREA

Table 2. Fish Species Found in the Turtle-Flambeau Flowage and Trude Lake

<u>Common Name</u>	<u>Scientific Name</u>
Lake sturgeon	<i>Acipenser fulvescens</i>
Lake herring (cisco)	<i>Coregonus artedii</i>
Muskellunge	<i>Esox masquinongy</i>
Central mudminnow	<i>Umbra limi</i>
Northern pike	<i>Esox lucius</i>
Golden shiner	<i>Notemigonus crysoleucas</i>
Common shiner	<i>Notropis cornutus</i>
Bluntnose minnow	<i>Pimephales notatus</i>
White sucker	<i>Catostomus commersoni</i>
Shorthead redhorse	<i>Moxostoma macrolepidotum</i>
Greater redhorse	<i>Moxostoma valenciennesi</i>
Black bullhead	<i>Ictalurus melas</i>
Yellow bullhead	<i>Ictalurus natalis</i>
Troutperch	<i>Percopsis omiscomaycus</i>
Burbot	<i>Lota lota</i>
Smallmouth bass	<i>Micropterus dolomieu</i>
Largemouth bass	<i>Micropterus salmoides</i>
Black crappie	<i>Pomoxis nigromaculatus</i>
Bluegill	<i>Lepomis macrochirus</i>
Pumpkinseed	<i>Lepomis gibbosus</i>
Rock bass	<i>Ambloplites rupestris</i>
Walleye	<i>Stizostedion vitreum</i>
Yellow perch	<i>Perca flavescens</i>
Logperch	<i>Percina caprodes</i>
Johnny darter	<i>Etheostoma nigrum</i>

Table 3. Species List of the Mammals Existing or Potentially Existing on the Turtle-Flambeau Flowage Wetlands, Iron County, WI, 1991

<u>Common name</u>	<u>Scientific name</u>	<u>Habitat</u>
Arctic shrew ^a	(<u>Sorex arcticus</u>)	tamarack/spruce
Beaver	(<u>Castor canadensis</u>)	alder banks
Black bear	(<u>Ursus americanus</u>)	forested swamps
Bobcat ^a	(<u>Lynx rufus</u>)	swamps/forests
Boreal red-backed vole	(<u>Clethrionomys gapperi</u>)	wet-soil
Coyote	(<u>Canis latrans</u>)	woodland borders, brush openings
Deer mouse	(<u>Peromyscus maniculatus</u>)	conifer, deciduous, and spruce-cedar forests
Eastern chipmunk	(<u>Tamias striatus</u>)	open hardwoods, brush areas
Eastern cottontail	(<u>Sylvilagus floridanus</u>)	near swamps
Least chipmunk	(<u>Eutamias minimus</u>)	mixed con.-decid. forests, woody debris
Lynx ^b	(<u>Lynx canadensis</u>)	swamps
Masked shrew	(<u>Sorex cinereus</u>)	moist forests, marsh, grass bogs, alder thickets
Meadow vole	(<u>Microtus pennsylvanicus</u>)	low moist areas
Meadow jumping mouse	(<u>Zapus hudsonius</u>)	moist grassy and brush areas
Mink	(<u>Mustela vison</u>)	rivers/streams
Moose ^c	(<u>Alces alces</u>)	alder/Willow swamp
Muskrat	(<u>Ondatra zibethicus</u>)	marshes/stream lakes/ponds
Northern flying squirrel	(<u>Glaucomys sabrinus</u>)	mixed conifer-hardwood forests
Northern water shrew ^a	(<u>Sorex palustris</u>)	swamps/bogs/cold streams
Porcupine	(<u>Erethizon dorsatum</u>)	deciduous - conifer mixed forests
Raccoon	(<u>Procyon lotor</u>)	most any water
Red fox	(<u>Vulpes fulva</u>)	swamps/thickets
Red squirrel	(<u>Tamiasciurus hudsonicus</u>)	conifer forests
River otter	(<u>Lutra canadensis</u>)	rivers/streams
Shorttail shrew	(<u>Blarina brevicauda</u>)	all habitats
Snowshoe hare	(<u>Lepus americanus</u>)	swamps/thickets
Southern bog lemming ^a	(<u>Synaptomys cooperi</u>)	low damp bog
Star-nose mole ^a	(<u>Condylura cristata</u>)	low, wet ground near streams
Timber wolf ^a	(<u>Canis lupus</u>)	undisturbed woodlands, brush areas, swamps
Weasel	(<u>Mustela spp.</u>)	forests and brush areas
White-tailed deer	(<u>Odocoileus virginianus</u>)	aspen, oak forests, swamp conifers, openings, brush
Woodchuck	(<u>Marmota monax</u>)	forest borders, brush, fields, woody debris
Woodland jumping mouse	(<u>Napaeozapus insignis</u>)	wet bog/stream

^a potential species (Burt and Grossenheider 1976).

^b potential endangered (BER 1990).

^c rare species occurring.

Table 4. Species List of the Reptiles and Amphibians Existing or Potentially Existing on the Turtle-Flambeau Flowage Wetlands, Iron County, WI, 1991.

<u>Common Name</u>	<u>Scientific name</u>	<u>Habitat</u>
American toad	(<u>Bufo americanus</u>)	abundant insects/moisture
Blue-spotted salamander ^a	(<u>Ambystoma laterale</u>)	deciduous/pond
Brown snake ^a	(<u>Storeria dekayi</u>)	freshwater marshes margins of swamps/bogs/ponds
Bull frog	(<u>Rana catesbeiana</u>)	ponds and lakes
Chorus frog	(<u>Pseudacris triseriata</u>)	swampy grass
Common garter snake	(<u>Thamnophis sirtalis</u>)	wet meadows/marshes
Cope's gray treefrog ^a	(<u>Hyla chrysoscelis</u>)	trees/shrubs near perm. water
Eastern newt ^a	(<u>Notophthalmus viridescens</u>)	ponds/lakes dense submergent vegetation
Eastern gray treefrog	(<u>Hyla versicolor</u>)	trees/shrubs near water
Eastern painted turtle	(<u>Chrysemys picta</u>)	slow-moving shallow water
Four-toed salamander ^a	(<u>Hemidactylium scutatum</u>)	bogs
Fox snake	(<u>Elaphe vulpina</u>)	wooded stream valleys
Green frog	(<u>Rana clamitans</u>)	shallow water/pond edge, lakes
Mink frog	(<u>Rana septentrionalis</u>)	cold water w/abundant vegetation (water lilies)
Mudpuppy	(<u>Necturus maculosus</u>)	waters with mud bottom
Northern leopard frog	(<u>Rana pipiens</u>)	freshwater
Northern ringneck snake	(<u>Diadophis punctatus</u>)	moist, cool deciduous forests, woody debris
Northern watersnake ^a	(<u>Nerodia sipedon</u>)	most any water
Pickerel frog	(<u>Rana palustris</u>)	slow moving water dense vegetation
Red-bellied snake	(<u>Storeria occipitomaculata</u>)	sphagnum bogs
Smooth green snake ^a	(<u>Opheodrys vernalis</u>)	grassy marshes
Snapping turtle	(<u>Chelydra serpentina</u>)	mud bottom lakes/ponds w/abundant vegetation
Spotted salamander ^a	(<u>Ambystoma maculatum</u>)	hardwood forest around pools/ flooded depressions
Spring peeper	(<u>Hyla crucifer</u>)	wooded areas near water/swamps
Tiger salamander ^a	(<u>Ambystoma tigrinum</u>)	damp meadows
Wood frog	(<u>Rana sylvatica</u>)	boreal and mixed hardwood forests, temporary ponds
Wood turtle ^b	(<u>Clemmys insculpta</u>)	cool stream, red maple swamps/marshy meadows

^a potential species (Behler and King 1979).

^b potential threatened species (BER 1990).

^c potential endangered species (BER 1990).

Table 5. Species List of the Birds Existing or Potentially Existing on the Turtle-Flambeau Flowage Wetlands, Iron County, WI 1991.

<u>Common name</u>	<u>Scientific name</u>	<u>Habitat¹</u>
Acadian flycatcher ^{4*}	(<u>Empidonax virescens</u>)	beech-maple and hemlock forest, clearings
Alder flycatcher [*]	(<u>Empidonax alorum</u>)	alder swamps, lakeside thickets
American crow	(<u>Corvus brachyrhynchos</u>)	adjacent upland
American kestrel ²	(<u>Falco sparverius</u>)	open country
American widgeon ²	(<u>Anas americana</u>)	marshes
American robin	(<u>Turdus migratorius</u>)	open woodlands, agricultural lands, towns
American redstart ^{2,3}	(<u>Setophaga ruticilla</u>)	second growth forests, thickets with saplings
American tree sparrow ²	(<u>Spizella arborea</u>)	weedy fields, woodland edges, brush areas
American bittern	(<u>Botaurus lentiginosus</u>)	marshy lakes
American black duck	(<u>Anas rubripes</u>)	marshes/lakes/streams
American goldfinch	(<u>Carduelis tristis</u>)	brush, grasslands
American woodcock	(<u>Scolopax minor</u>)	moist woodland thickets
American coot [*]	(<u>Fulica americana</u>)	open ponds and marshes
Bald eagle ^c	(<u>Haliaeetus leucocephalus</u>)	lake/river
Bank swallow	(<u>Riparia riparia</u>)	rivers/streams
Barn swallow	(<u>Hirundo rustica</u>)	marshes/lakeshores
Barred owl ²	(<u>Strix varia</u>)	low, wet woods, and swamp forests
Bay-breasted warbler [*]	(<u>Dendroica castanea</u>)	open spruce forest
Belted kingfisher	(<u>Ceryle alcyon</u>)	rivers/lakes
Black tern	(<u>Chlidonias nigra</u>)	marshes
Black-and-white warbler ³	(<u>Mniotilta varis</u>)	deciduous old growth and second growth forests
Black-backed woodpecker [*]	(<u>Picoides arcticus</u>)	swamps
Black-capped chickadee	(<u>Parus atricapillus</u>)	adjacent forests
Black-throated blue warbler [*]	(<u>Dendroica caerulescens</u>)	mixed deciduous/evergreen
Blackburnian warbler	(<u>Dendroica fusca</u>)	mixed hemlock, spruce, and hardwood forests
Blue jay	(<u>Cyanocitta cristata</u>)	oak forests
Blue-winged teal [*]	(<u>Anas discors</u>)	shallow ponds/lakes
Bobolink [*]	(<u>Dolichonyx oryzivorus</u>)	marshes during migration
Broad-winged hawk	(<u>Buteo platypterus</u>)	adjacent deciduous
Brown thrasher ²	(<u>Toxostoma rufum</u>)	brush areas and woodland edges
Brown creeper ²	(<u>Certhia americana</u>)	deciduous and mixed forests
Brown-headed cowbird ²	(<u>Molothrus ater</u>)	fields, woodland edges
Bufflehead ¹	(<u>Bucephala albeola</u>)	lakes, ponds, bays

<u>Common name</u>	<u>Scientific name</u>	<u>Habitat¹</u>
Canada goose	(<u>Branta canadensis</u>)	Lakes/rivers marshes
Cedar waxwings	(<u>Bombycilla cedrorum</u>)	uplands near rivers
Chestnut-sided warbler	(<u>Dendroica pensylvanica</u>)	forest and wetlands edges, brush areas
Chipping sparrow ²	(<u>Spizella passerina</u>)	grassy woodland edges, brush areas
Cliff swallow	(<u>Hirundo pyrrhonota</u>)	lakeshores/marshes
Common yellowthroat	(<u>Geothlypis trichas</u>)	moist thickets
Common nighthawk ²	(<u>Chordeiles minor</u>)	open country
Common redpoll ²	(<u>Carduelis flammea</u>)	open to brush areas, weedy fields
Common raven ²	(<u>Corvus corax</u>)	conifer forests
Common loon	(<u>Gavia immer</u>)	forested lakes/rivers
Common grackle	(<u>Quiscalus quiscula</u>)	adjacent upland marshes
Common snipe	(<u>Gallinago</u>)	marshes/ponds/flooded meadows
Common goldeneye ^a	(<u>Bucephala clangula</u>)	lakes/ponds
Common tern	(<u>Sterna hirundo</u>)	lakes, ponds, rivers
Common merganser ^a	(<u>Merqus merganser</u>)	wooded rivers
Connecticut warbler ^a	(<u>Oporornis agilis</u>)	open larch/spruce bogs
Cooper's hawk ^a	(<u>Accipiter cooperi</u>)	adjacent deciduous
Dark-eyed junco ²	(<u>Junco hyemalis</u>)	conifer and mixed forests, fields
Double-crested cormorant ^a	(<u>Phalacrocorax auritus</u>)	lakes/rivers
Downy woodpecker	(<u>Picoides pubescens</u>)	woodlots
Eastern kingbird	(<u>Tyrannus tyrannus</u>)	lake/river shores
Eastern bluebird ²	(<u>Sialia sialis</u>)	open fields with scattered trees
Eastern screech owl ²	(<u>Otus asio</u>)	deciduous woods, lakes, shores
Eastern phoebe ²	(<u>Sayornis phoebe</u>)	open woodlands near streams
Eastern wood pewee	(<u>Contopus virens</u>)	open forests
European starling ²	(<u>Sturnus vulgaris</u>)	towns, farmlands
Evening grosbeak ²	(<u>Coccothraustes vespertinus</u>)	conifer forests
Field sparrow	(<u>Spizella pusilla</u>)	willow and alder thickets, fields, woodland edges
Gray jay ²	(<u>Perisoreus canadensis</u>)	conifer forests
Gray catbird ²	(<u>Dumetella carolinensis</u>)	brush and thickets
Great-horned owl ²	(<u>Bubo virginianus</u>)	all habitats
Great-blue heron	(<u>Ardea herodias</u>)	most any waters
Greater scaup ²	(<u>Aythya marila</u>)	lakes, bays, ponds
Green heron	(<u>Butorides striatus</u>)	lake/stream/shore
Green-winged teal ²	(<u>Anas crecca</u>)	marshes, shallow ponds
Hairy woodpecker	(<u>Picoides villosus</u>)	adjacent deciduous
Hermit thrush	(<u>Catharus guttatus</u>)	conifer and mixed forests
Herring gull ^a	(<u>Larus argentatus</u>)	lakes/rivers
Hooded merganser	(<u>Lophodytes cucullatus</u>)	most any water
Horned grebe ^a	(<u>Podiceps auritus</u>)	marshes/lakes
House wren	(<u>Troglodytes aedon</u>)	semi-open country
Killdeer ²	(<u>Charadrius vociferous</u>)	short grass areas, mudflats
Least flycatcher	(<u>Empidonax minimus</u>)	woodland borders
Least bittern ^a	(<u>Ixobrychus exilis</u>)	cattails/reeds
LeConte's sparrow ^a	(<u>Ammodramus leconteii</u>)	bog meadows
Lesser scaup ²	(<u>Aythya affinis</u>)	lakes, rivers, marshes, and ponds

<u>Common name</u>	<u>Scientific name</u>	<u>Habitat</u> ¹
Lincoln's sparrow ^a	(<u>Melospiza lincolni</u>)	brush bogs willow/alder thickets
Marsh wren	(<u>Cistothorus palustris</u>)	cattail marsh
Mallard	(<u>Anas platyrhynchos</u>)	most any water
Merlin	(<u>Falco columbarius</u>)	adjacent coniferous, islands
Mourning dove ²	(<u>Zenaida macroura</u>)	open fields with trees shrubs
Nashville warbler	(<u>Vermivora ruficapilla</u>)	forest and wetland edges, brush areas
Northern cardinal	(<u>Cardinalis cardinalis</u>)	brush swamps
Northern oriole ²	(<u>Icterus galbula</u>)	deciduous woods, elm
Northern flicker	(<u>Colaptes auratus</u>)	open country, openings
Northern goshawk ²	(<u>Accipiter gentilis</u>)	conifer forests, woodland edges
Northern harrier ^a	(<u>Circus cyaneus</u>)	marshes
Northern pintail ^a	(<u>Anas acuta</u>)	marshes
Northern rough-winged swallow	(<u>Stelgidopteryx serripennis</u>)	swamp rivers
Northern waterthrush	(<u>Seiurus noveboracensis</u>)	cool bogs/wooded swamps
Northern parula warbler ^{a3}	(<u>Parula americana</u>)	coniferous woods/swamp
Northern shoveler ^a	(<u>Anas clypeata</u>)	marshes
Olive-sided flycatcher	(<u>Contopus borealis</u>)	spruce/fir forest/ponds/bogs
Osprey ^c	(<u>Pandion haliaetus</u>)	lakes/rivers
Ovenbird ⁴	(<u>Seiurus aurocapillus</u>)	open, dry forests with little undergrowth
Palm warbler	(<u>Dendroica palmarum</u>)	bogs
Pied-billed grebe	(<u>Podilymbus podiceps</u>)	marshes/ponds
Pileated woodpecker ⁴	(<u>Dryocopus pileatus</u>)	adjacent dense forest
Pine siskin ²	(<u>Carduelis pinus</u>)	conifer and mixed forests, alder and brush areas
Pine grosbeak ²	(<u>Pinicola enucleator</u>)	conifer and mixed forests, fruiting trees
Purple finch ²	(<u>Carpodacus purpureus</u>)	mixed and conifer forests
Red crossbill ²	(<u>Loxia curvirostra</u>)	conifer forests
Red-breasted nuthatch	(<u>Sitta canadensis</u>)	conifer forests
Red-eyed vireo ⁴	(<u>Vireo olivaceus</u>)	deciduous forests
Red-headed woodpecker ²	(<u>Melanerpes erthrocephalus</u>)	open grasslands and woodlands
Red-necked grebe ^b	(<u>Podiceps grisegena</u>)	ponds/lakes
Red-tailed hawk ²	(<u>Buteo jamaicensis</u>)	deciduous forests, open areas
Red-winged blackbird	(<u>Agelaius phoeniceus</u>)	marshes/swamps
Redhead ²	(<u>Aythya americana</u>)	marshes, lakes, bays
Ring-billed gull	(<u>Larus delawarensis</u>)	lakes/rivers
Ring-necked duck ^a	(<u>Aythya collaris</u>)	wooded lakes/ponds
Rose-breasted grosbeak	(<u>Pheucticus ludovicianus</u>)	moist woodland
Rough-legged hawk	(<u>Buteo lagopus</u>)	marshes
Ruby-throated hummingbird	(<u>Archilochus colubris</u>)	woodlands
Ruffed grouse	(<u>Bonasa umbellus</u>)	aspen, brush areas
Rusty's blackbird ^a	(<u>Euphagus carolinus</u>)	wooded swamps
Sandhill cranes	(<u>Grus canadensis</u>)	marshes
Scarlet tanager ²⁴	(<u>Piranga olivacea</u>)	mature woodlands, elm
Sedge wren	(<u>Cistothorus platensis</u>)	grassy marshes/sedges
Sharp-shinned hawk ²	(<u>Accipiter striatus</u>)	dense conifers
Short-eared owl ^a	(<u>Asio flammeus</u>)	freshwater marshes
Snow goose ²	(<u>Chen caerulescens</u>)	marshes and grain fields
Snowy owl	(<u>Nyctea scandiaca</u>)	open marshes
Song sparrow	(<u>Melospiza melodia</u>)	brush thickets
Sora	(<u>Porzana carolina</u>)	marshes
Spotted sandpiper	(<u>Actitis macularia</u>)	most any shore
Swamp sparrow	(<u>Melospiza georgiana</u>)	open wood swamp

<u>Common name</u>	<u>Scientific name</u>	<u>Habitat¹</u>
Three-toed woodpecker ^a	(<u>Picoides tridactylus</u>)	swamps
Tree swallow	(<u>Tachycineta bicolor</u>)	most any water
Veery ⁴	(<u>Catharus fuscescens</u>)	willow thickets along streams
Virginia rail	(<u>Rallus limicola</u>)	marshes
Warbling vireo	(<u>Vireo gilvus</u>)	deciduous forests, especially near streams
Whip-poor-will ^{2,4}	(<u>Caprimulgus vociferus</u>)	dry, open woodlands near fields
White-breasted nuthatch	(<u>Sitta carolinensis</u>)	adjacent forests
White-throated sparrow	(<u>Zonotrichia albicollis</u>)	wet coniferous
Willow flycatcher	(<u>Empidonax traillii</u>)	swampy thickets
Winter wren	(<u>Troglodytes troglodytes</u>)	thickets/coniferous swamp
Wood duck	(<u>Aix sponsa</u>)	wooded rivers/ponds
Wood thrush ⁴	(<u>Hylocichla mustelina</u>)	deciduous
Yellow rail ^a	(<u>Coturnicops noveboracensis</u>)	grassy marshes/wet meadows
Yellow-bellied sapsucker	(<u>Sphyrapicus varius</u>)	adjacent open deciduous
Yellow-bellied flycatcher ^a	(<u>Empidonax flaviventris</u>)	alder/willow thickets
Yellow-headed blackbird	(<u>Xanthocephalus xanthocephalus</u>)	marsh
Yellow-rumped warbler	(<u>Dendroica coronata</u>)	conifer and mixed forests
Yellow-throated vireo ^{a,3}	(<u>Vireo flavifrons</u>)	deciduous/stream

a potential species (Bull and Farrand 1977).

b potential endangered species (BER 1990).

c threatened species existing (BER 1990).

1 Habitat describes most preferred types used in this area and does not apply to times and localities when birds are not present in Northern Wisconsin. Due to migration, birds may use alternate habitats at various times and locations.

2 Species identified by Springstead residents C.E. Schulz, D.R. Brush, and B.C. Schulz.

3 Area sensitive interior species which require large undisturbed forests with little human activity.

4 Interior species which require large stands of forested areas.

Table 6. Surface Waters Within the Turtle-Flambeau Scenic Waters Area Project Boundary.

Lake Name	Size (acres)	Max. Depth	M.P.A. (ppm)	Conductance umhos 77°F	pH	Water Color	Fisheries Values	Public Access
Altman	2.8	27	3	21	4.7	dk.br.	unknown	none
Brandt	10.9	27	3	13	6.0	lt.br.	LM Bass; Panfish	walk in
Deadhorse	14.3	30	12	27	6.8	lt.br.	LM Bass; N Pike; Panfish	none
Fawn	20.0	16	3	14	7.6	c.	LM Bass; Panfish	none
Fox	45.6	23	20	47	7.5	lt.br.	LM Bass; N Pike; Panfish	walk in
Goose	11.3	3	27	69	6.4	md.br.	minnows	walk in
Grant	107.0	10	27	62	6.4	md.br.	LM Bass; Walleye; Musky; N Pike; Panfish	none
Island	56.0	5	45	110	7.9	c.	LM Bass; N Pike; Panfish	none
Kyle	2.4	12	6	18	6.8	lt.br.	unknown	none
Lake Nine	60.1	11	3	14	5.5	lt.br.	unknown	walk in
Lipp	1.3	3	5	13	7.0	lt.br.	minnows	none
Mirror	57.5	7	3	21	5.7	lt.br.	LM Bass; Musky; Perch	walk in
Nokomis	18.4	15	7	13	6.1	c.	LM Bass; Musky; Walleye; Panfish	none
North Grant	14.3	8	29	64	6.2	dk.br.	LM Bass; Panfish	none
Otter	7.4	9	52	112	7.1	c.	LM Bass; N. Pike; Panfish	navigable
Popko	1.5	6	7	32	6.4	md.br.	Panfish; minnows	none
Reimer	12.0						LM Bass; Panfish	walk in
Ruth	4.2	12	3	13	7.4	c.	unknown	none
Sand	101.0	35	3	15	6.4	c.	LM Bass; Walleye; Panfish	none
Third Black	67.7	33	25	61	7.1	md.br.	LM Bass; Musky; Walleye; Panfish	road side
Turtle-Flambeau (incl. Trude L.)	14,300	50	32	76	7.1	lt.br.	SM Bass; Walleye; Musky; Panfish	ramp/parking
Vincent	2.9	25	3	14	5.7	lt.br.	LM Bass; Panfish	none
Wilson	155.0	21	50	105	6.9	c.	LM Bass; Musky; N Pike; Panfish	ramp/parking
Stream Name	Miles (in project)	M.P.A. (ppm)	Conductance umhos 77°F	pH	Water Color	Fisheries Values	Public Access	
Beaver Cr.	1.5	69	151	7.0	c.	minnows	navigable	
Four Mile Cr.	0.8	47	107	7.0	md.br.	minnows	road crossing	
Grant Cr.						N Pike; minnows	navigable	
Island Cr.	0.9	36	89	7.0	c.	minnows	none	
Little Turtle R.	0.7	53	121	7.5	lt.br.	LM Bass; Musky; Walleye; N Pike; Panfish	road crossing	
Otter Cr.	0.6					N Pike; minnows	navigable	