

Appendix C: Guilds by Habitat and Sub-habitat

Range (within state):

Statewide (I), North (N), South (S), West (W), East (E), Central (C) and various combinations.

Relative abundance (within state):

Abundant (A), Common (C), Occasional (O), Rare (R)

Status:

Extirpated (Ex), Exotic- accidentally or deliberately released species (X)

(Federal)

Federally Endangered (FE), Federally Threatened (FT), candidates for federal listing (FC)

(State)

State Endangered (SE), State Threatened (ST), Special Concern in need of further study (SC)

Seasonal Occurrence (for birds):

Summer resident (S), winter resident (W), year-round resident (R), migrant (M), accidental (A), hypothetical (H), and breeder (*), former breeders [*].

Additional:

Species Row (bold)- indicates Representative Species

Underlined Species and Scientific Name indicates Species of Greatest conservation need.

<u>Habitat Type</u> Level I	<u>Habitat Type</u> Level II	<u>Habitat Type</u> Level III	<u>Habitat Type</u> Level IV	<u>Habitat Type</u> Level V	<u>Species</u> Group	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Agriculture	<i>Cereal Grains</i>				Mammal	Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	NW	C		
Agriculture	<i>Feedlots</i>				Bird	Brown-Headed Cowbird	<i>Molothrus ater</i>	I	A	R*	

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Agriculture	Row Crops				Bird	Horned Lark	<i>Eremophila alpestris</i>	I	C	R*	
Agriculture	Row Crops				Bird	Killdeer	<i>Charadrius vociferous</i>	I	C	R*	
Agriculture					Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Agriculture					Amphibian	American Toad	<i>Bufo americanus</i>	N, C, SE	C		
Agriculture					Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		
Agriculture					Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Agriculture					Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Agriculture					Amphibian	<u>Northern Leopard Frog</u>	<i>Rana pipiens</i>	N, E	C		SC
Agriculture					Amphibian	Tiger Salamander	<i>Ambystoma tigrinum</i>	I	C		
Agriculture					Amphibian	<u>Crawfish Frog</u>	<i>Rana areolata</i>	W	O		ST
Agriculture					Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Agriculture					Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC

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Agriculture					Bird	American Crow	<i>Corvus brachyrhynchos</i>	I	A	R*	
Agriculture					Bird	Barn Swallow	<i>Hirundo rustica</i>	I	A	S*	
Agriculture					Bird	Canada Goose	<i>Branta canadensis</i>	I	A	R*	
Agriculture					Bird	Common Grackle	<i>Quiscalus quiscula</i>	I	A	R*	
Agriculture					Bird	European Starling	<i>Sturnus vulgaris</i>	I	A	R*	X
Agriculture					Bird	House Sparrow	<i>Passer domesticus</i>	I	A	R*	X
Agriculture					Bird	Mourning Dove	<i>Zenaida macroura</i>	I	A	R*	
Agriculture					Bird	Red-Tailed Hawk	<i>Buteo jamaicensis</i>	I	A	R*	
Agriculture					Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Agriculture					Bird	Rock Dove	<i>Columba livia</i>	I	A	R*	X
Agriculture					Bird	American Kestrel	<i>Falco sparverius</i>	I	C	R*	
Agriculture					Bird	Eastern Bluebird	<i>Sialia sialis</i>	I	C	R*	
Agriculture					Bird	Eastern Kingbird	<i>Tyrannus tyrannus</i>	I	C	S*	

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Agriculture					Bird	Field Sparrow	<i>Spizella pusilla</i>	I	C	R*	
Agriculture					Bird	Northern Bobwhite	<i>Colinus virginianus</i>	I	C	R*	
Agriculture					Bird	Turkey Vulture	<i>Cathartes aura</i>	I	C	R*	
Agriculture					Bird	American Golden-Plover	<i>Pluvialis dominica</i>	I	O	M	
Agriculture					Bird	Lapland Longspur	<i>Calcarius lapponicus</i>	I	O	W	
Agriculture					Bird	Ring-Necked Pheasant	<i>Phasianus colchicus</i>	N	O	R*	X
Agriculture					Bird	<u>Sandhill Crane</u>	<u><i>Grus canadensis</i></u>	I	O	M*	SC
Agriculture					Bird	Snow Bunting	<i>Plectrophenax nivalis</i>	I	O	W	
Agriculture					Bird	Snow Goose	<i>Chen caerulescens</i>	I	O	M	
Agriculture					Bird	Vesper Sparrow	<i>Pooecetes gramineus</i>	I	O	S*	
Agriculture					Bird	Wild Turkey	<i>Meleagris gallopavo</i>	I	O	R*	
Agriculture					Bird	<u>Barn Owl</u>	<u><i>Tyto alba</i></u>	I	R	R*	SE

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Agriculture					Bird	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	W	R	M*	
Agriculture					Bird	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	I	R	S*	
Agriculture					Bird	Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	I	R	R*	X
Agriculture					Bird	Greater White-Fronted Goose	<i>Anser albifrons</i>	I	R	M	
Agriculture					Bird	Mccown's Longspur	<i>Calcarius mccownii</i>	I	R	A	
Agriculture					Bird	Ross's Goose	<i>Chen rossii</i>	I	R	A	
Agriculture					Bird	Rusty Blackbird	<i>Euphagus carolinus</i>	I	R	W	
Agriculture					Bird	Smith's Longspur	<i>Calcarius pictus</i>	I	R	M	
Agriculture					Bird	Gray Partridge (Extirpated)	<i>Perdix perdix</i>	N		R*	X, Ex (1977)
Agriculture					Mammal	Eastern Mole	<i>Scalopus aquaticus</i>	I	A		
Agriculture					Mammal	Norway Rat	<i>Rattus norvegicus</i>	I	A		X

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Agriculture					Mammal	Raccoon	<i>Procyon lotor</i>	I	A		
Agriculture					Mammal	Coyote	<i>Canis latrans</i>	I	C		
Agriculture					Reptile	Black Racer	<i>Coluber constrictor</i>	I	C		
Agriculture					Reptile	Eastern Hognose Snake	<i>Heterodon platirhinos</i>	I	C		
Agriculture					Reptile	Eastern Milksnake	<i>Lampropeltis triangulum</i>	I	C		
Agriculture					Reptile	Western Fox Snake	<i>Elaphe vulpina</i>	NW, SW	C		
Agriculture					Reptile	Bull Snake	<i>Pituophis melanoleucus</i>	NW, SW	O		
Agriculture					Reptile	Common (Black) Kingsnake	<i>Lampropeltis getulus</i>	S	O		
Agriculture					Reptile	<u>Ornate Box Turtle</u>	<i>Terrapene ornata</i>	NW, SW	O		SC
Agriculture					Reptile	Prairie Kingsnake	<i>Lampropeltis calligaster</i>	W	O		
Aquatic Systems	Dunes, shorelines				Bird	Killdeer	<i>Charadrius vociferus</i>	I	C	R*	

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Aquatic Systems	Dunes, shorelines				Bird	Spotted Sandpiper	<i>Actitis macularia</i>	I	O	S*	
Aquatic Systems	Dunes, shorelines				Bird	American Pipit	<i>Anthus rubescens</i>	I	R	M	
Aquatic Systems	Dunes, shorelines				Bird	<u>Least Tern</u>	<i>Sterna antillarum</i>	I	R	S*	SE, FE
Aquatic Systems	Dunes, shorelines				Bird	<u>Piping Plover</u>	<i>Charadrius melodus</i>	I	R	A(*)	SE, FE
Aquatic Systems	Dunes, shorelines				Bird	Red Knot	<i>Calidris canutus</i>	I	R	M	
Aquatic Systems	Dunes, shorelines				Bird	Snowy Plover	<i>Charadrius alexandrinus</i>	I	R	A	
Aquatic Systems	Great Lakes drainage	Great river			Fish	Walleye	<i>Sander vitreus</i>	I	C		
Aquatic Systems	Great Lakes drainage	headwater			Fish	Central Mudminnow	<i>Umbra limi</i>	N	A		
Aquatic Systems	Great Lakes drainage	wadeable/large			Fish	Goldfish	<i>Carassius auratus</i>	I	C		X
Aquatic Systems	Great Lakes drainage	wadeable/large			Fish	Common Shiner	<i>Luxilus cornutus</i>	N	O		
Aquatic Systems	Great Lakes drainage	wadeable/large			Fish	Rudd	<i>Scardinius erythrophthalmus</i>	NW	R		X

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Aquatic Systems	Great Lakes drainage	wadeable/large			Mussel	<u>Ellipse</u>	<i>Venustaconcha ellipsiformis</i>				SC
Aquatic Systems	Great Lakes drainage Rivers and Streams	headwater Great Lakes drainage	<i>headwater</i>		Fish	Blacknose Dace	<i>Rhinichthys atratulus</i>	NW, C, SE	C		
Aquatic Systems	Great Lakes drainage Rivers and Streams	wadeable/large river Great Lakes drainage	<i>wadeable/large river</i>		Fish	Hornyhead Chub	<i>Nocomis biguttatus</i>	N	C		
Aquatic Systems	Great Lakes drainage Rivers and Streams	headwater Great Lakes drainage	<i>headwater</i>		Fish	Northern Brook Lamprey	<i>Ichthyomyzon fossor</i>	NE	R		
Aquatic Systems	Great Lakes drainage Rivers and Streams	Great river Great Lakes drainage	<i>great river</i>		Fish	<u>Greater Redhorse</u>	<i><u>Moxostoma valenciennesi</u></i>	N	R		SE
Aquatic Systems	Impoundments				Bird	Canada Goose	<i>Branta canadensis</i>	I	A	R*	
Aquatic Systems	Impoundments				Bird	American Black Duck	<i>Anas rubripes</i>	I	C	R*	

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Aquatic Systems	Impoundments				Bird	Common Goldeneye	<i>Bucephala clangula</i>	I	C	W	
Aquatic Systems	Impoundments				Bird	Common Loon	<i>Gavia Immer</i>	I	C	M(*)	
Aquatic Systems	Impoundments				Bird	Herring Gull	<i>Larus argentatus</i>	I	C	R*	
Aquatic Systems	Impoundments				Bird	Lesser Scaup	<i>Aythya Affinis</i>	I	C	W(*)	
Aquatic Systems	Impoundments				Bird	Pied-Billed Grebe	<i>Podilymbus podiceps</i>	I	C	R*	
Aquatic Systems	Impoundments				Bird	Ring-Billed Gull	<i>Larus delawarensis</i>	I	C	R*	
Aquatic Systems	Impoundments Potholes				Bird	Mallard	<i>Anas platyrhynchos</i>	I	C	R*	
Aquatic Systems	Impoundments				Bird	American Wigeon	<i>Anas americana</i>	I	O	M(*)	
Aquatic Systems	Impoundments				Bird	<u>Black Tern</u>	<i>Chlidonias niger</i>	I	O	S*	SE
Aquatic Systems	Impoundments				Bird	Blue-Winged Teal	<i>Anas discors</i>	I	O	S*	
Aquatic Systems	Impoundments				Bird	Bonaparte's Gull	<i>Larus philadelphia</i>	I	O	M	
Aquatic Systems	Impoundments				Bird	Bufflehead	<i>Bucephala albeola</i>	I	O	W	
Aquatic Systems	Impoundments				Bird	Canvasback	<i>Aythya Valisineria</i>	I	O	M	

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Aquatic Systems	Impoundments				Bird	Caspian Tern	<i>Sterna caspia</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Common Merganser	<i>Mergus merganser</i>	I	O	W	
Aquatic Systems	Impoundments				Bird	Common Tern	<i>Sterna hirundo</i>	I	O	M(*)	
Aquatic Systems	Impoundments				Bird	Double-Crested Cormorant	<i>Phalacrocorax auritus</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Forster's Tern	<i>Sterna forsteri</i>	I	O	M(*)	
Aquatic Systems	Impoundments				Bird	Gadwall	<i>Anas strepera</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Greater Scaup	<i>Aythya marila</i>	N	O	W	
Aquatic Systems	Impoundments				Bird	Green-Winged Teal	<i>Anas crecca</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Hooded Merganser	<i>Lophodytes cucullatus</i>	I	O	R*	
Aquatic Systems	Impoundments				Bird	Horned Grebe	<i>Podiceps auritus</i>	I	O	W(*)	
Aquatic Systems	Impoundments				Bird	Long-Tailed Duck	<i>Clangula hyemalis</i>	N	O	W	
Aquatic Systems	Impoundments				Bird	Mute Swan	<i>Cygnus olor</i>	I	O	R*	X
Aquatic Systems	Impoundments				Bird	Northern Pintail	<i>Anas acuta</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Northern Shoveler	<i>Anas clypeata</i>	I	O	M*	

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Aquatic Systems	Impoundments				Bird	Red-Breasted Merganser	<i>Mergus serrator</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Red-Throated Loon	<i>Gavia stellata</i>	I	O	M	
Aquatic Systems	Impoundments				Bird	Ring-Necked Duck	<i>Aythya collaris</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Ruddy Duck	<i>Oxyura jamaicensis</i>	I	O	M*	
Aquatic Systems	Impoundments				Bird	Snow Goose	<i>Chen caerulescens</i>	I	O	M	
Aquatic Systems	Impoundments				Bird	Tundra Swan	<i>Cygnus columbianus</i>	I	O	M	
Aquatic Systems	Impoundments				Bird	American White Pelican	<i>Pelecanus erythrorhynchos</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Ancient Murrelet	<i>Synthlibornaphus antiquus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Arctic Tern	<i>Sterna paradisaea</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	<u>Bald Eagle</u>	<i>Haliaeetus leucocephalus</i>	I	R	R*	SE, FT

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Aquatic Systems	Impoundments				Bird	Band-Rumped Storm-Petrel	<i>Oceanodroma castro</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Barrow's Goldeneye	<i>Bucephala islandica</i>	N	R	A	
Aquatic Systems	Impoundments				Bird	Black Scoter	<i>Melanitta nigra</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	Black Skimmer	<i>Rynchops niger</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Black-Headed Gull	<i>Larus ridibundus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Black-Legged Kittiwake	<i>Rissa tridactyla</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Brant	<i>Branta bernicla</i>	N	R	A	
Aquatic Systems	Impoundments				Bird	Brown Pelican	<i>Pelecanus occidentalis</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	California Gull	<i>Larus californicus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Cinnamon Teal	<i>Anas Cyanoptera</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Common Moorhen	<i>Gallinula chloropus</i>	I	R	S*	
Aquatic Systems	Impoundments				Bird	Eared Grebe	<i>Podiceps nigricollis</i>	I	R	A	

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Aquatic Systems	Impoundments				Bird	Eurasian Wigeon	<i>Anas penelope</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Franklin's Gull	<i>Larus pipixcan</i>	I	R	M	
Aquatic Systems	Impoundments				Bird	Glaucous Gull	<i>Larus hyperboreus</i>	I	R	W	
Aquatic Systems	Impoundments				Bird	Golden Eagle	<i>Aquila chrysaetos</i>	I	R	M	
Aquatic Systems	Impoundments				Bird	Great Black-Backed Gull	<i>Larus marinus</i>	I	R	M	
Aquatic Systems	Impoundments				Bird	Greater White-Fronted Goose	<i>Anser albifrons</i>	I	R	M	
Aquatic Systems	Impoundments				Bird	Gull-Billed Tern	<i>Sterna nilotica</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Harlequin Duck	<i>Histrionicus histrionicus</i>	N	R	A	
Aquatic Systems	Impoundments				Bird	Iceland Gull	<i>Larus glaucooides</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	King Eider	<i>Somateria spectabilis</i>	N	R	A	
Aquatic Systems	Impoundments				Bird	Laughing Gull	<i>Larus atricilla</i>	I	R	M	

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Impoundments				Bird	Lesser Black-Backed Gull	<i>Larus fuscus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Little Gull	<i>Larus minutus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Long-Billed Murrelet	<i>Brachyramphus perdix</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Long-Tailed Jaeger	<i>Stercorarius longicaudus</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	Magnificent Frigatebird	<i>Fregata magnificens</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Mew Gull	<i>Larus canus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Northern Gannet	<i>Morus bassanus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	<u>Osprey</u>	<u>Pandion haliaetus</u>	I	R	S*	SE
Aquatic Systems	Impoundments				Bird	Pacific Loon	<i>Gavia pacifica</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Parasitic Jaeger	<i>Stercorarius parasiticus</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	<u>Peregrine Falcon</u>	<i>Falco peregrinus</i>	I	R	R*	SE

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Impoundments				Bird	Pomarine Jaeger	<i>Stercorarius pomarinus</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	Red-Necked Grebe	<i>Podiceps grisegena</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	<u>Roseate Tern</u>	<i>Sterna dougallii</i>	I	R	A	FE
Aquatic Systems	Impoundments				Bird	Ross's Goose	<i>Chen rossii</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Ross's Gull	<i>Rhodostethia rosea</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Royal Tern	<i>Sterna maxima</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Sabine's Gull	<i>Xema sabini</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Slaty-Backed Gull	<i>Larus schistisagus</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Sooty Tern	<i>Sterna fuscata</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Surf Scoter	<i>Melanitta perspicillata</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	Thayer's Gull	<i>Larus thayeri</i>	I	R	M	
Aquatic Systems	Impoundments				Bird	Thick-Billed Murre	<i>Uria lomvia</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Western Grebe	<i>Aechmophorus occidentalis</i>	I	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Impoundments				Bird	White-Winged Black Tern	<i>Chidonias leucopterus</i>	N	R	A	
Aquatic Systems	Impoundments				Bird	White-Winged Scoter	<i>Melanitta fusca</i>	N	R	M	
Aquatic Systems	Impoundments				Bird	Yellow-Billed Loon	<i>Gavia adamsii</i>	I	R	A	
Aquatic Systems	Impoundments				Bird	Redhead	<i>melodie citronique</i>				
Aquatic Systems	Impoundments				Bird	Trumpeter Swan	<i>Olor buccinator</i>				
Aquatic Systems	Impoundments				Fish	Bluegill	<i>Lepomis macrochirus</i>	I	A		
Aquatic Systems	Impoundments				Fish	Redear Sunfish	<i>Lepomis microlophus</i>	N,S	C		
Aquatic Systems	Impoundments				Fish	White Crappie	<i>Pomoxis annularis</i>	I	C		
Aquatic Systems	Impoundments				Fish	Hybrid Striped Bass	<i>Morone saxatilis x M. chrysops</i>				
Aquatic Systems	Impoundments				Mussel	Paper Pondshell	<i>Utterbackia imbecillis</i>				

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Impoundments <i>Natural Lakes</i>				Mussel	Giant Floater	<i>Pyganodon grandis</i>				
Aquatic Systems	Kankakee River	headwater			Fish	Brook Stickleback	<i>Culaea inconstans</i>	N, SE	C		
Aquatic Systems	Kankakee River	headwater			Fish	Ironcolor Shiner	<i>Notropis chalybaeus</i>	NW	O		
Aquatic Systems	Kankakee River	headwater			Fish	Weed Shiner	<i>Notropis texanus</i>	NW	R		
Aquatic Systems	Kankakee River	wadeable/large river			Fish	Largescale Stoneroller	<i>Campostoma oligolepis</i>	N	A		
Aquatic Systems	Kankakee River	wadeable/large river			Fish	Red Shiner	<i>Cyprinella lutrensis</i>	NW	O		X
Aquatic Systems	Kankakee River	wadeable/large river			Fish	<u>Bigmouth Shiner</u>	<i>Notropis dorsalis</i>	NW	R		SE
Aquatic Systems	Kankakee River Rivers and Streams	headwater <i>Kankakee River</i>	<i>headwater</i>		Fish	Least Darter	<i>Etheostoma microperca</i>	N	C		
Aquatic Systems	Kankakee River Rivers and Streams	headwater <i>Kankakee River</i>	<i>Headwater</i>		Fish	Tadpole Madtom	<i>Noturus gyrinus</i>	I	C		
Aquatic Systems	Lake Michigan				Bird	Common Loon	<i>Gavia Immer</i>	I	C	M(*)	

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<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Lake Michigan				Bird	Herring Gull	<i>Larus argentatus</i>	I	C	R*	
Aquatic Systems	Lake Michigan				Bird	Ring-Billed Gull	<i>Larus delawarensis</i>	I	C	R*	
Aquatic Systems	Lake Michigan				Bird	Caspian Tern	<i>Sterna caspia</i>	I	O	M*	
Aquatic Systems	Lake Michigan				Bird	Common Tern	<i>Sterna hirundo</i>	I	O	M(*)	
Aquatic Systems	Lake Michigan				Bird	Forster's Tern	<i>Sterna forsteri</i>	I	O	M(*)	
Aquatic Systems	Lake Michigan				Bird	Long-Tailed Duck	<i>Clangula hyemalis</i>	N	O	W	
Aquatic Systems	Lake Michigan				Bird	Red-Throated Loon	<i>Gavia stellata</i>	I	O	M	
Aquatic Systems	Lake Michigan				Bird	Ancient Murrelet	<i>Synthlibornaphus antiquus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Arctic Tern	<i>Sterna paradisaea</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Band-Rumped Storm-Petrel	<i>Oceanodroma castro</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Black Scoter	<i>Melanitta nigra</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	Black-Headed Gull	<i>Larus ridibundus</i>	I	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Lake Michigan				Bird	Black-Legged Kittiwake	<i>Rissa tridactyla</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Brant	<i>Branta bernicla</i>	N	R	A	
Aquatic Systems	Lake Michigan				Bird	California Gull	<i>Larus californicus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Glaucous Gull	<i>Larus hyperboreus</i>	I	R	W	
Aquatic Systems	Lake Michigan				Bird	Great Black-Backed Gull	<i>Larus marinus</i>	I	R	M	
Aquatic Systems	Lake Michigan				Bird	Gull-Billed Tern	<i>Sterna nilotica</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Harlequin Duck	<i>Histrionicus histrionicus</i>	N	R	A	
Aquatic Systems	Lake Michigan				Bird	Iceland Gull	<i>Larus glaucooides</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	King Eider	<i>Somateria spectabilis</i>	N	R	A	
Aquatic Systems	Lake Michigan				Bird	Lesser Black-Backed Gull	<i>Larus fuscus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Little Gull	<i>Larus minutus</i>	I	R	A	

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<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Lake Michigan				Bird	Long-Billed Murrelet	<i>Brachyramphus perdix</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Long-Tailed Jaeger	<i>Stercorarius longicaudus</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	Magnificent Frigatebird	<i>Fregata magnificens</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Mew Gull	<i>Larus canus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Northern Gannet	<i>Morus bassanus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Pacific Loon	<i>Gavia pacifica</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Parasitic Jaeger	<i>Stercorarius parasiticus</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	<u>Peregrine Falcon</u>	<i>Falco peregrinus</i>	I	R	R*	SE
Aquatic Systems	Lake Michigan				Bird	Pomarine Jaeger	<i>Stercorarius pomarinus</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	<u>Roseate Tern</u>	<i>Sterna dougallii</i>	I	R	A	FE
Aquatic Systems	Lake Michigan				Bird	Ross's Gull	<i>Rhodostethia rosea</i>	I	R	A	

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<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Lake Michigan				Bird	Royal Tern	<i>Sterna maxima</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Sabine's Gull	<i>Xema sabini</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Sanderling	<i>Calidris alba</i>	I	R	M	
Aquatic Systems	Lake Michigan				Bird	Slaty-Backed Gull	<i>Larus schistisagus</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	Surf Scoter	<i>Melanitta perspicillata</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	Thayer's Gull	<i>Larus thayeri</i>	I	R	M	
Aquatic Systems	Lake Michigan				Bird	Thick-Billed Murre	<i>Uria lomvia</i>	I	R	A	
Aquatic Systems	Lake Michigan				Bird	White-Winged Black Tern	<i>Chidonias leucopterus</i>	N	R	A	
Aquatic Systems	Lake Michigan				Bird	White-Winged Scoter	<i>Melanitta fusca</i>	N	R	M	
Aquatic Systems	Lake Michigan				Bird	Yellow-Billed Loon	<i>Gavia adamsii</i>	I	R	A	
Aquatic Systems	Lake Michigan				Fish	Great Lakes Muskellunge	<i>Esox masquinongy</i>	N	1910		Ex
Aquatic Systems	Lake Michigan				Fish	Shortnose Cisco	<i>Coregonus reighardi</i>	NW	1972		Ex

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Aquatic Systems	Lake Michigan				Fish	Blackfin Cisco	<i>Coregonus nigripinnis</i>	NW	?		Ex
Aquatic Systems	Lake Michigan				Fish	Alewife	<i>Alosa pseudoharengus</i>	NW	A		X
Aquatic Systems	Lake Michigan				Fish	Round Goby	<i>Neogobius melanostomus</i>	NW	A		X
Aquatic Systems	Lake Michigan				Fish	Spottail Shiner	<i>Notropis hudsonius</i>	NW	A		
Aquatic Systems	Lake Michigan				Fish	Brown Trout	<i>Salmo trutta</i>	N	C		X
Aquatic Systems	Lake Michigan				Fish	Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	NW	C		X
Aquatic Systems	Lake Michigan				Fish	Coho Salmon	<i>Oncorhynchus kisutch</i>	NW	C		X
Aquatic Systems	Lake Michigan				Fish	<u>Lake Whitefish</u>	<i>Coregonus clupeaformis</i>	NW	C		SE
Aquatic Systems	Lake Michigan				Fish	Rainbow Smelt	<i>Osmerus mordax</i>	NW	C		X
Aquatic Systems	Lake Michigan				Fish	Rainbow Trout	<i>Oncorhynchus mykiss</i>	N	C		X
Aquatic Systems	Lake Michigan				Fish	Yellow Perch	<i>Perca flavescens</i>	N	C		

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Aquatic Systems	Lake Michigan				Fish	Atlantic Salmon	<i>Salmo salar</i>	NW	O		X
Aquatic Systems	Lake Michigan				Fish	Burbot	<i>Lota lota</i>	NW, WE	O		
Aquatic Systems	Lake Michigan				Fish	Lake Trout	<i>Salvelinus namaycush</i>	NW	O		
Aquatic Systems	Lake Michigan				Fish	Longnose Dace	<i>Rhinichthys cataractae</i>	N	O		
Aquatic Systems	Lake Michigan				Fish	Ninespine Stickleback	<i>Pungitius pungitius</i>	NW	O		
Aquatic Systems	Lake Michigan				Fish	Sea Lamprey	<i>Petromyzon marinus</i>	NW	O		X
Aquatic Systems	Lake Michigan				Fish	Three-Spine Stickleback	<i>Gasterosteus aculeatus</i>	NW	O		X
Aquatic Systems	Lake Michigan				Fish	Bloater	<i>Coregonus hoyi</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Brook Trout	<i>Salvelinus fontinalis</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Deepwater Sculpin	<i>Myoxocephalus thompsoni</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Kiyi	<i>Coregonus kiyi</i>	NW	R		

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Aquatic Systems	Lake Michigan				Fish	Lake Chub	<i>Couesius plumbeus</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Longnose Sucker	<i>Catostomus catostomus</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Shortjaw Cisco	<i>Coregonus zenithicus</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Slimy Sculpin	<i>Cottus cognatus</i>	NW	R		
Aquatic Systems	Lake Michigan				Fish	Trout-Perch	<i>Percopsis omiscomaycus</i>	NW, S	R		
Aquatic Systems	Lake Michigan				Fish	White Perch	<i>Morone americana</i>	NW	R		X
Aquatic Systems	Natural Lakes				Fish	Pugnose Shiner	<i>Notropis anogenus</i>	NE	1945		Ex
Aquatic Systems	Natural Lakes				Fish	Largemouth Bass	<i>Micropterus salmoides</i>	I	A		
Aquatic Systems	Natural Lakes				Fish	Banded Killifish	<i>Fundulus diaphanus</i>	N	C		
Aquatic Systems	Natural Lakes				Fish	Black Crappie	<i>Pomoxis nigromaculatus</i>	I	C		

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Aquatic Systems	Natural Lakes				Fish	Brook Silverside	<i>Labidesthes sicculus</i>	I	C		
Aquatic Systems	Natural Lakes				Fish	Brown Bullhead	<i>Ameiurus nebulosus</i>	S	C		
Aquatic Systems	Natural Lakes				Fish	Golden Shiner	<i>Notemigonus crysoleucas</i>	I	C		
Aquatic Systems	Natural Lakes				Fish	Pumpkinseed	<i>Lepomis gibbosus</i>	I	C		
Aquatic Systems	Natural Lakes				Fish	Starhead Topminnow	<i>Fundulus dispar</i>	NW	C		
Aquatic Systems	Natural Lakes				Fish	Warmouth	<i>Lepomis gulosus</i>	N	C		
Aquatic Systems	Natural Lakes				Fish	Bowfin	<i>Amia calva</i>	N,S	O		
Aquatic Systems	Natural Lakes				Fish	Iowa Darter	<i>Etheostoma exile</i>	N	O		
Aquatic Systems	Natural Lakes				Fish	Lake Chubsucker	<i>Erimyzon sucetta</i>	N	O		
Aquatic Systems	Natural Lakes				Fish	Northern Pike	<i>Esox lucius</i>	N	O		
Aquatic Systems	Natural Lakes				Fish	Spotted Gar	<i>Lepisosteus oculatus</i>	NE, SW	O		
Aquatic Systems	Natural Lakes				Fish	Blackchin Shiner	<i>Notropis heterodon</i>	N	R		
Aquatic Systems	Natural Lakes				Fish	Blacknose Shiner	<i>Notropis heterolepis</i>	N	R		

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Aquatic Systems	Natural Lakes				Fish	<u>Cisco Or Lake Herring</u>	<i>Coregonus artedi</i>	NW	R		SC
Aquatic Systems	Natural Lakes				Mussel	Pond Mussel	<i>Ligumia subrostrata</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Black Sandshell	<i>Ligumia recta</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Butterfly	<i>Ellipsaria lineolata</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Catspaw</u>	<i>Epioblasma obliquata obliquata</i>				FE-extirpated
Aquatic Systems	Ohio River	Great river			Mussel	<u>Cracking Pearlymussel</u>	<i>Hemistena lata</i>				FE-extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Deertoe	<i>Truncilla truncata</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Ebonyshell	<i>Fusconaia ebena</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Elephantear	<i>Elliptio crassidens</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Fat Pocketbook</u>	<i>Potamilus capax</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	Fawnsfoot	<i>Truncilla donaciformis</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Fragile Papershell	<i>Leptodea fragilis</i>				

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River	Great river			Mussel	Leafshell	<i>Epioblasma flexuosa</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	<u>Longsolid</u>	<i>Fusconaia subrotunda</i>				SE
Aquatic Systems	Ohio River	Great river			Mussel	Mapleleaf	<i>Quadrula quadrula</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Monkeyface	<i>Quadrula metanevra</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Ohio Pigtoe</u>	<i>Pleurobema cordatum</i>				SC
Aquatic Systems	Ohio River	Great river			Mussel	<u>Orangefoot Pimpleback</u>	<i>Plethobasus cooperianus</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	Pimpleback	<i>Quadrula pustulosa</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Pink Mucket</u>	<i>Lampsilis abrupta</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	Pink Papershell	<i>Potamilus ohioensis</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Pocketbook	<i>Lampsilis ovata</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Pyramid Pigtoe	<i>Pleurobema rubrum</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Ring Pink</u>	<i>Obovaria retusa</i>				FE-extirpated

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River	Great river			Mussel	Rock Pocketbook	<i>Arcidens confragosus</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Round Combshell	<i>Epioblasma personata</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Scaleshell	<i>Leptodea leptodon</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Spectaclecase	<i>Cumberlandia monodonta</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Tennessee Riffleshell	<i>Epioblasma propinqua</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Threehorn Wartyback	<i>Obliquaria reflexa</i>				
Aquatic Systems	Ohio River	Great river			Mussel	<u>Tubercled Blossom</u>	<i>Epioblasma torulosa torulosa</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	Wabash Riffleshell	<i>Epioblasma sampsonii</i>				extirpated
Aquatic Systems	Ohio River	Great river			Mussel	Wartyback	<i>Quadrula nodulata</i>				
Aquatic Systems	Ohio River	Great river			Mussel	Washboard	<i>Megaloniais nervosa</i>				

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River	Great river			Mussel	<u>White Catspaw</u>	<i>Epioblasma obliquata perobliqua</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	<u>White Wartyback</u>	<i>Plethobasus cicatricosus</i>				FE
Aquatic Systems	Ohio River	Great river			Mussel	<u>Winger Mapleleaf</u>	<i>Quadrula fragosa</i>				FE-exterpaited
Aquatic Systems	Ohio River drainage	Great river			Fish	Harelip Sucker	<i>Lagochila lacera</i>	C	1893		Ex
Aquatic Systems	Ohio River drainage	Great river			Fish	Alabama Shad	<i>Alosa alabamae</i>	SW	1902		Ex
Aquatic Systems	Ohio River drainage	Great river			Fish	Stargazing Darter	<i>Percina uranidea</i>	SW	1920		Ex
Aquatic Systems	Ohio River drainage	Great river			Fish	Crystal Darter	<i>Crystallaria asprella</i>	S	1892-95		Ex
Aquatic Systems	Ohio River drainage	Great river			Fish	Carp	<i>Cyprinus carpio</i>	I	A		X
Aquatic Systems	Ohio River drainage	Great river			Fish	Emerald Shiner	<i>Notropis atherinoides</i>	I	A		
Aquatic Systems	Ohio River drainage	Great river			Fish	Gizzard Shad	<i>Dorosoma cepedianum</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River drainage	Great river			Fish	Channel Shiner	<i>Notropis wickliffi</i>	S	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Flathead Catfish	<i>Pylodictis olivaris</i>	I	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Freshwater Drum	<i>Aplodinotus grunniens</i>	I	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Longnose Gar	<i>Lepisosteus osseus</i>	I	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Mississippi Silvery Minnow	<i>Hybognathus nuchalis</i>	SC, SW	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	River Carpsucker	<i>Carpionodes carpio</i>	W, S	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	River Shiner	<i>Notropis blennioides</i>	W, S	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Silver Chub	<i>Macrhybopsis storeriana</i>	W	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Silverband Shiner	<i>Notropis shumardi</i>	SW	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Skipjack Herring	<i>Alosa chrysochloris</i>	W, S	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Smallmouth Buffalo	<i>Ictiobus bubalus</i>	W, S	C		

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<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River drainage	Great river			Fish	Steelcolor Shiner	<i>Cyprinella whipplei</i>	C, S	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Threadfin Shad	<i>Dorosoma petenense</i>	S	C		X
Aquatic Systems	Ohio River drainage	Great river			Fish	White Bass	<i>Morone chrysops</i>	W	C		
Aquatic Systems	Ohio River drainage	Great river			Fish	Bighead Carp	<i>Hypohthalmichthys nobilis</i>	SW	O	X	
Aquatic Systems	Ohio River drainage	Great river			Fish	Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Blue Catfish	<i>Ictalurus furcatus</i>	S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Bullhead Minnow	<i>Pimephales vigilax</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Freckled Madtom	<i>Noturus nocturnus</i>	W	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Ghost Shiner	<i>Notropis buchmanii</i>	NW, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Goldeye	<i>Hiodon alosoides</i>	S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Grass Carp	<i>Ctenopharyngodon idella</i>	NW, C, SE	O		X

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River drainage	Great river			Fish	Highfin Carpsucker	<i>Carpionodes velifer</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Mooneye	<i>Hiodon tergisus</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Mountain Madtom	<i>Noturus eleutherus</i>	W, C	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Paddlefish	<i>Polydon spathula</i>	W, SE	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	River Darter	<i>Percina shumardi</i>	C, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	River Redhorse	<i>Moxostoma carinatum</i>	C, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Shoal Chub (Formerly Speckled Chub)	<i>Macrhybopsis hyostoma</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Shortnose Gar	<i>Lepisosteus platostomus</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	Western Sand Darter	<i>Ammocrypta clara</i>	Nw, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	White Catfish	<i>Ameiurus catus</i>	S	O		X

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Aquatic Systems	Ohio River drainage	Great river			Fish	Yellow Bass	<i>Morone mississippiensis</i>	W, S	O		
Aquatic Systems	Ohio River drainage	Great river			Fish	American Eel	<i>Anguilla rostrata</i>	W, S	R		
Aquatic Systems	Ohio River drainage	Great river			Fish	Black Buffalo	<i>Ictiobus niger</i>	NW, S	R		
Aquatic Systems	Ohio River drainage	Great river			Fish	<u>Channel Darter</u>	<i>Percina copelandi</i>	C	R		ST
Aquatic Systems	Ohio River drainage	Great river			Fish	Inland Silverside	<i>Menidia beryllina</i>	S	R		X
Aquatic Systems	Ohio River drainage	Great river			Fish	<u>Lake Sturgeon</u>	<i>Acipenser fulvescens</i>	W, S	R		SE
Aquatic Systems	Ohio River drainage	Great river			Fish	Northern Madtom	<i>Noturus stigmosus</i>	W, C	R		
Aquatic Systems	Ohio River drainage	Great river			Fish	Saddleback Darter	<i>Percina vigil</i>	SW	R		
Aquatic Systems	Ohio River drainage	Great river			Fish	Silver Carp	<i>Hypophthalmichthys molitrix</i>	SE, SW	R		X
Aquatic Systems	Ohio River drainage	Great river			Fish	Striped Mullet	<i>Mugil cephalus</i>	S	R		X
Aquatic Systems	Ohio River drainage	Great river			Fish	<u>Tippecanoe Darter</u>	<i>Etheostoma tippecanoe</i>	C	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River drainage Rivers and Streams	Great river Ohio River drainage	Great river		Fish	Channel Catfish	<i>Ictalurus Punctatus</i>	I	C		
Aquatic Systems	Ohio River drainage Rivers and Streams	Great river Ohio River drainage	Great river		Fish	Sauger	<i>Sander canadense</i>	W,S	C		
Aquatic Systems	Ohio River drainage Rivers and Streams	Great river Ohio River drainage	Great river		Fish	<u>Blue Sucker</u>	<u><i>Cycleptus elongatus</i></u>	C, S	O		FC
Aquatic Systems	Ohio River drainage Rivers and Streams	Great river Ohio River drainage	Great river		Fish	Shovelnose Sturgeon	<i>Scaphirhynchus platorynchus</i>	W, SE	O		
Aquatic Systems	Ohio River Rivers and Streams	Great river Ohio River drainage	Great river		Mussel	<u>Fanshell</u>	<u><i>Cyprogenia stegaria</i></u>				FE
Aquatic Systems	Ohio River Rivers and Streams	Great river Ohio River drainage	Great river		Mussel	Hickorynut	<i>Obovaria olivaria</i>				

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Aquatic Systems	Ohio River Rivers and Streams	Great river Great Lakes drainage	Wadeable/large river		Mussel	<u>Rough Pigtoe</u>	<i>Pleurobema plenum</i>				FE
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Blackstripe Topminnow	<i>Fundulus notatus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Bluntnose Minnow	<i>Pimephales notatus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Creek Chub	<i>Semolitus atromaculatus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Green Sunfish	<i>Lepomis cyanellus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Johnny Darter	<i>Etheostoma nigrum</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	White Sucker	<i>Catostomus commersoni</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Fathead Minnow	<i>Pimephales promelas</i>	N, SE	C		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Grass Pickerel	<i>Esox americanus</i>		C		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Redfin Shiner	<i>Lythrurus umbratilis</i>	W, C	C		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Creek Chubsucker	<i>Erimyzon oblongus</i>	NW, C, SW	O		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	Least Brook Lamprey	<i>Lampetra aepyptera</i>	SW	R		
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Fish	<u>Redside Dace</u>	<i>Clinostomus elongatus</i>	E	R		ST
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Creeper	<i>Strophitus undulatus</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Elktoe	<i>Alasmidonta marginata</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Fatmucket	<i>Lampsilis siliquoidea</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Flutedshell	<i>Lasmigona costata</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Kidneyshel	<i>Ptychobranchus fasciolaris</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Lilliput	<i>Toxolasma parvus</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Little Spectaclecase</u>	<i>Villosa lienosa</i>				SC

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Northern Riffleshell</u>	<i>Epioblasma torulosa rangiana</i>				FE
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Pink Heelsplitter	<i>Potamilus alatus</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Pistolgrip	<i>Pistolgrip</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Plain Pocketbook	<i>Lampsilis cardium</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Purple Lilliput</u>	<i>Toxolasma lividus</i>				SC
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Purple Wartyback	<i>Cyclonaias tuberculata</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Rabbitsfoot	<i>Quadrula cylindrica</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Rayed Bean</u>	<i>Villosa fabalis</i>				SC
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Round Hickorynut</u>	<i>Obovaria subrotunda</i>				SC
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Round Pigtoe	<i>Pleurobema sintoxia</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Salamandar Mussel</u>	<i>Simpsonaias ambigua</i>				SC

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Sheepnose	<i>Plethobasus cyphus</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Snuffbox	<i>Epioblasma triquetra</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	Wabash Pigtoe	<i>Fusconaia flava</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	<u>Wavyrayed Lampmussel</u>	<i>Lampsilis fasciola</i>				SC
Aquatic Systems	Ohio River/E.C.-I.P.	headwater			Mussel	White Heelsplitter	<i>Lasmigona complanata</i>				
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Popeye Shiner	<i>Notropis ariommus</i>	WC	1894		Ex
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Black Bullhead	<i>Ameiurus melas</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Central Stoneroller	<i>Campostoma anomalum</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Golden Redhorse	<i>Moxostoma erythrurum</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Longear Sunfish	<i>Lepomis megalotis</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Sand Shiner	<i>Notropis stramineus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Spotfin Shiner	<i>Cyprinella spiloptera</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Striped Shiner	<i>Luxilus chrysocephalus</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Yellow Bullhead	<i>Ameiurus natalis</i>	I	A		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Banded Darter	<i>Etheostoma zonale</i>	NW, SE	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Bigeye Chub	<i>Hybopsis amblops</i>	NW	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Bigeye Shiner	<i>Notropis boops</i>	C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Black Redhorse	<i>Moxostoma duquesnei</i>	C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Blackside Darter	<i>Percina maculata</i>	I	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Dusky Darter	<i>Percina sciera</i>	C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Fantail Darter	<i>Etheostoma flabellare</i>	E, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Greenside Darter	<i>Etheostoma blennioides</i>	C, E	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Logperch Sunfish	<i>Percina caprodes</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Northern Studfish	<i>Fundulus catenatus</i>	C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Quillback	<i>Carpoides cyprinus</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Rainbow Darter	<i>Etheostoma caeruleum</i>	N, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	River Chub	<i>Nocomis micropogon</i>	NE, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Rosyface Shiner	<i>Notropis rubellus</i>	N, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Scarlet Shiner (Formerly Rosefin Shiner)	<i>Lythrurus ardens</i>	SE	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Silver Redhorse	<i>Moxostoma anisurum</i>	N, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Silverjaw Minnow	<i>Ericymba buccata</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Spotted Sucker	<i>Minytrema melanops</i>	NE, C	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Stonecat	<i>Noturus flavus</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Suckermouth Minnow	<i>Phenacobius mirabilis</i>	C, S	C		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	American Brook Lamprey	<i>Lampetra appendix</i>	NW	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Banded Sculpin	<i>Cottus carolinae</i>	SC, SW	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Brindled Madtom	<i>Noturus miuris</i>	C	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>	SW	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	<u>Gilt Darter</u>	<i>Percina evides</i>	C	O		SE
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Mimic Shiner	<i>Notropis volucellus</i>	E, C, S	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Orangespotted Sunfish	<i>Lepomis humilis</i>	N	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Silver Lamprey	<i>Ichthyomyzon unicuspis</i>	W, S	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Silver Shiner	<i>Notropis photogenis</i>	C, SE	O		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Bluebreast Darter	<i>Etheostoma camurum</i>	C	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Gravel Chub	<i>Erimystax x-punctatus</i>	W, S	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Harlequin Darter	<i>Etheostoma histrio</i>	S	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Ohio Lamprey	<i>Ichthyomyzon bdellium</i>	W, S	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Ohio River Muskellunge	<i>Esox masquinongy</i>	S	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	<u>Spotted Darter</u>	<i><u>Etheostoma maculatum</u></i>	C	R		SC
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Streamline Chub	<i>Erimystax dissimilis</i>	NW	R		
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	<u>Variegate Darter</u>	<i><u>Etheostoma variatum</u></i>	SE	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River/E.C.-I.P.	wadeable/large			Fish	Slenderhead Darter	<i>Percina phoxocephala</i>	C	S		
Aquatic Systems	Ohio River/E.C.-I.P. <i>Rivers and Streams</i>	wadeable/large <i>Ohio River drainage</i>	<i>Eastern corn belt/interior plateau ecoregions</i>	<i>Wadeable/large river</i>	Fish	Northern Hogsucker	<i>Hypentelium nigricans</i>	N, C	C		
Aquatic Systems	Ohio River/E.C.-I.P. <i>Rivers and Streams</i>	wadeable/large <i>Great Lakes drainage</i>	<i>Headwater</i>		Fish	Mottled Sculpin	<i>Cottus bairdi</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P. <i>Rivers and Streams</i>	headwater <i>Ohio River drainage</i>	<i>Eastern corn belt/interior plateau ecoregions</i>	<i>Headwater</i>	Fish	Orangethroat Darter	<i>Etheostoma spectabile</i>	C	A		
Aquatic Systems	Ohio River/E.C.-I.P. <i>Rivers and Streams</i>	wadeable/large <i>Ohio River drainage</i>	<i>Eastern corn belt/interior plateau ecoregions</i>	<i>Wadeable/large river</i>	Fish	<u>Eastern Sand Darter</u>	<u><i>Ammocrypta pellucida</i></u>	C, SW	O		SC, FC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	wadeable/large Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Wadeable/large river	Fish	Rock Bass	<i>Ambloplites rupestris</i>	I	C		
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Great Lakes drainage	Headwater		Mussel	Slippershell Mussel	<i>Alasmidonta viridis</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Headwater	Mussel	Cylindrical Papershell	<i>Anodontoides ferussacianus</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Wadeable/large river	Mussel	Spike	<i>Elliptio dilatata</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Great Lakes drainage	Great river		Mussel	Mucket	<i>Actinonaias ligamentina</i>				

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Great Lakes drainage	Wadeable/large river		Mussel	Rainbow	<i>Villosa iris</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Kankakee River	Headwater		Mussel	Creek Heelsplitter	<i>Lasmigona compressa</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Kankakee River	Wadeable/large river		Mussel	Threeridge	<i>Amblema plicata</i>				
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Headwater	Fish	Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	NW, C	O		
Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	headwater Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Wadeable/large river	Mussel	<u>Clubshell</u>	<i>Pleurobema clava</i>				FE

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/E.C.-I.P. Rivers and Streams	wadeable/large Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Wadeable/large river	Fish	Smallmouth Bass	<i>Micropterus dolomieu</i>	I	A		
Aquatic Systems	Ohio River/I.R.L.	headwater			Fish	Blackspotted Topminnow	<i>Fundulus olivaceus</i>	W, NE	R		
Aquatic Systems	Ohio River/I.R.L.	headwater			Fish	Pirate Perch	<i>Aphredoderus sayanus</i>	N, SW	C		
Aquatic Systems	Ohio River/I.R.L.	headwater			Fish	Pugnose Minnow	<i>Opsopoeodus emiliae</i>	N, SW	R		
Aquatic Systems	Ohio River/I.R.L.	headwater			Fish	Western Mosquitofish	<i>Gambusia affinis</i>	W	O		
Aquatic Systems	Ohio River/I.R.L.	wadeable/large			Fish	Mud Darter	<i>Etheostoma asprigene</i>	S	C		
Aquatic Systems	Ohio River/I.R.L.	wadeable/large			Fish	Bluntnose Darter	<i>Etheostoma chlorosoma</i>	W	R		
Aquatic Systems	Ohio River/I.R.L.	wadeable/large			Fish	<u>Pallid Shiner</u>	<i>Hybopsis amnis</i>	W	R		SE
Aquatic Systems	Ohio River/I.R.L.	wadeable/large			Fish	Ribbon Shiner	<i>Lythrurus fumeus</i>	SW	R		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Ohio River/I.R.L.	wadeable/large			Mussel	Texas Lilliput	<i>Toxolasma texasiensis</i>				
Aquatic Systems	Ohio River/I.R.L. Rivers and Streams	wadeable/large Ohio River drainage	<i>Interior river lowland</i>	<i>Wadeable/large river</i>	Mussel	Yellow Sandshell	<i>Lampsilis teres</i>				
Aquatic Systems	Ohio River/I.R.L. Rivers and Streams	headwater Ohio River drainage	<i>Interior river lowland</i>	<i>Headwater</i>	Fish	<u>Spottail Darter</u>	<i><u>Etheostoma squamiceps</u></i>	SW	R		SC
Aquatic Systems	Ohio River/I.R.L. Rivers and Streams	headwater Ohio River drainage	<i>Interior river lowland</i>	<i>Headwater</i>	Mussel	Pond Horn	<i>Uniomerus tetralasmus</i>				
Aquatic Systems	Ohio River/I.R.L. Rivers and Streams	wadeable/large Ohio River drainage	<i>Interior river lowland</i>	<i>Wadeable/large river</i>	Fish	Slough Darter	<i>Etheostoma gracile</i>	SW	O		
Aquatic Systems	Ohio River/I.R.L. Rivers and Streams	wadeable/large Ohio River drainage	<i>Interior river lowland</i>	<i>Wadeable/large river</i>	Fish	Spotted Bass	<i>Micropterus punctulatus</i>	S	A		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Oxbows				Bird	Wood Duck	<i>Aix sponsa</i>	I	C	R*	
Aquatic Systems	Oxbows	Oxbows/backwaters/ sloughs/embayments			Amphibian	Western Lesser Siren	<i>Siren intermedia</i>	W	O		
Aquatic Systems	Oxbows, etc.	Oxbows/backwaters/ sloughs/embayments			Fish	Flier	<i>Centrarchus macropterus</i>	SW	O		
Aquatic Systems	Oxbows, etc.	Oxbows/backwaters /sloughs/embayments			Fish	Redspotted Sunfish (Formerly Spotted Sunfish)	<i>Lepomis miniatus</i>	SW	R		
Aquatic Systems	Oxbows, etc.	Oxbows/backwaters/ sloughs/embayments			Mussel	Flat Floater	<i>Anodonta suborbiculata</i>				
Aquatic Systems	Oxbows, etc.				Fish	Alligator Gar	<i>Atractosteus spatula</i>	S	1976		Ex
Aquatic Systems	Oxbows, etc.				Fish	Banded Pygmy Sunfish	<i>Elassoma zonatum</i>	SW	R		
Aquatic Systems	Oxbows, etc.				Fish	Bantam Sunfish	<i>Lepomis symmetricus</i>	W	R		ST
Aquatic Systems	Oxbows, etc.				Fish	Cypress Darter	<i>Etheostoma proeliare</i>	SW	R		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Oxbows, etc.				Fish	Cypress Minnow	<i>Hybognathus hayi</i>	SW	R		
Aquatic Systems	Rivers and Streams	Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Headwater	Amphibian	Streamside Salamander	<i>Ambystoma barbouri</i>	SE	C		
Aquatic Systems	Rivers and Streams	Ohio River drainage	Eastern corn belt/interior plateau ecoregions	Headwater	Amphibian	Two-Lined Salamander	<i>Eurycea cirrigera</i>	C, S	A		
Aquatic Systems	Rivers and Streams	Great Lakes drainage	Great river		Fish	Smallmouth Bass	<i>Micropterus dolomieu</i>	I	A		
Aquatic Systems	Rivers and Streams	Great Lakes drainage	Wadeable/large river		Fish	Smallmouth Bass	<i>Micropterus dolomieu</i>	I	A		
Aquatic Systems	Rivers and Streams	Kankakee River	Wadeable/large river		Fish	Northern Pike	<i>Esox lucius</i>	N	O		
Aquatic Systems	Rivers and Streams	Ohio River drainage	Interior river lowland	Wadeable/large river	Reptile	<u>Alligator Snapping Turtle</u>	<u><i>Macrolemys temminckii</i></u>	SW	R		SE
Aquatic Systems	Rivers and Streams	Ohio River drainage	Interior river lowland	Wadeable/large river	Reptile	River Cooter	<i>Pseudemys concinna</i>	SW	1950		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Rivers and Streams	Ohio River drainage on rep. species list	Eastern corn belt/interior plateau ecoregions	Wadeable/large river	Amphibian	Hellbender	<i>Cryptobranchus alleganiensis</i>	S	R		SE, FC
Aquatic Systems	Rivers and Streams				Bird	Common Goldeneye	<i>Bucephala clangula</i>	I	C	W	
Aquatic Systems	Rivers and Streams				Bird	Ring-Billed Gull	<i>Larus delawarensis</i>	I	C	R*	
Aquatic Systems	Rivers and Streams				Bird	Wood Duck	<i>Aix sponsa</i>	I	C	R*	
Aquatic Systems	Rivers and Streams				Bird	Bank Swallow	<i>Riparia riparia</i>	I	O	S*	
Aquatic Systems	Rivers and Streams				Bird	Belted Kingfisher	<i>Ceryle alcyon</i>	I	O	R*	
Aquatic Systems	Rivers and Streams				Bird	Bonaparte's Gull	<i>Larus philadelphia</i>	I	O	M	
Aquatic Systems	Rivers and Streams				Bird	Bufflehead	<i>Bucephala albeola</i>	I	O	W	
Aquatic Systems	Rivers and Streams				Bird	Common Merganser	<i>Mergus merganser</i>	I	O	W	
Aquatic Systems	Rivers and Streams				Bird	Double-Crested Cormorant	<i>Phalacrocorax auritus</i>	I	O	M*	

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems	Rivers and Streams				Bird	Red-Breasted Merganser	<i>Mergus serrator</i>	I	O	M*	
Aquatic Systems	Rivers and Streams				Bird	Ruddy Duck	<i>Oxyura jamaicensis</i>	I	O	M*	
Aquatic Systems	Rivers and Streams				Mammal	Mink	<i>Mustela vison</i>	I	O		
Aquatic Systems	Rivers and Streams				Bird	American White Pelican	<i>Pelecanus erythrorhynchos</i>	I	R	A	
Aquatic Systems	Rivers and Streams				Bird	<u>Bald Eagle</u>	<i>Haliaeetus leucocephalus</i>	I	R	R*	SE, FT
Aquatic Systems	Rivers and Streams				Bird	Barrow's Goldeneye	<i>Bucephala islandica</i>	N	R	A	
Aquatic Systems	Rivers and Streams				Bird	<u>Least Tern</u>	<i>Sterna antillarum</i>	I	R	S*	SE, FE
Aquatic Systems	Rivers and Streams				Bird	<u>Osprey</u>	<i>Pandion haliaetus</i>	I	R	S*	SE
<i>Aquatic Systems</i>	<i>Unimpounded rivers and streams</i>				<i>Bird</i>	<i>Wood Duck</i>	<i>Aix sponsa</i>	<i>I</i>	<i>C</i>	<i>R*</i>	
Aquatic Systems					Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

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Aquatic Systems					Amphibian	American Toad	<i>Bufo americanus</i>	N, C, SE	C		
Aquatic Systems					Amphibian	Cave Salamander	<i>Eurycea lucifuga</i>	S	C		
Aquatic Systems					Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		
Aquatic Systems					Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Aquatic Systems					Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Aquatic Systems					Amphibian	Longtail Salamander	<i>Eurycea longicauda</i>	S	C		
Aquatic Systems					Amphibian	<u>Blue-Spotted Salamander</u>	<i>Ambystoma laterale</i>	N	O		SC
Aquatic Systems					Amphibian	Eastern Newt	<i>Notophthalmus viridescens</i>	I	O		
Aquatic Systems					Amphibian	Lesser Siren	<i>Siren intermedia</i>	W	O		
Aquatic Systems					Amphibian	<u>Mudpuppy</u>	<i>Necturus maculosus</i>	I	O		SC
Aquatic Systems					Amphibian	Northern Dusky Salamander	<i>Desmognathus fuscus</i>	SE	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems					Amphibian	Pickereel Frog	<i>Rana palustris</i>	E, C, WC	O		SC
Aquatic Systems					Amphibian	Four-Toed Salamander	<i>Hemidactylum scutatum</i>	N, C	R		ST
Aquatic Systems					Amphibian	Northern Red Salamander	<i>Pseudotriton ruber</i>	SC	R		SE
Aquatic Systems					Amphibian	Plains Leopard Frog	<i>Rana blairi</i>	W	R		SC
Aquatic Systems					Amphibian	Green Treefrog	<i>Hyla cinerea</i>				
<i>Aquatic Systems</i>					<i>Bird</i>	<i>Red-Winged Blackbird</i>	<i>Agelaius phoeniceus</i>	<i>I</i>	<i>A</i>	<i>R*</i>	
Aquatic Systems					Mammal	Beaver	<i>Castor canadensis</i>	I	C		reintroduced
<i>Aquatic Systems</i>					<i>Mammal</i>	<i>Mink</i>	<i>Mustela vison</i>	<i>I</i>	<i>O</i>		
Aquatic Systems					Mammal	River Otter	<i>Lutra canadensis</i>	I	R		reintroduced
Aquatic Systems					Reptile	Banded Water Snake	<i>Nerodia sipedon</i>	I	A		
Aquatic Systems					Reptile	Common Musk Turtle	<i>Sternotherus odoratus</i>	I	A		
Aquatic Systems					Reptile	Common Snapping Turtle	<i>Chelydra serpentina</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems					Reptile	Painted Turtle	<i>Chrysemys picta</i>	I	A		
Aquatic Systems					Reptile	Map Turtle	<i>Graptemys geographica</i>	I	C		
Aquatic Systems					Reptile	Queen Snake	<i>Regina Septemvittata</i>	E, C, WC, N	C		
Aquatic Systems					Reptile	Red-Eared Turtle	<i>Trachemys scripta</i>	S, WC	C		
Aquatic Systems					Reptile	Spiny Softshell	<i>Apalone spinifera</i>	I	C		
Aquatic Systems					Reptile	<u>Blanding's Turtle</u>	<i>Emydoidea blandingii</i>	N	O		SC
Aquatic Systems					Reptile	Diamondback Water Snake	<i>Nerodia rhombifer</i>	SW	O		
Aquatic Systems					Reptile	False Map Turtle	<i>Graptemys pseudogeographica</i>	W, S	O		
Aquatic Systems					Reptile	<u>Northern Copperbelly</u>	<i>Nerodia erythrogaster</i>	SW, NE, SC	O		ST, FC
Aquatic Systems					Reptile	Smooth Softshell	<i>Apalone mutica</i>	W, S	O		
Aquatic Systems					Reptile	<u>Spotted Turtle</u>	<i>Clemmys guttata</i>	N	O		ST

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Aquatic Systems					Reptile	<u>Cottonmouth</u>	<i>Agkistrodon piscivorus</i>	S	R		ST
Aquatic Systems					Reptile	<u>Eastern Mud Turtle</u>	<i>Kinosternon subrubrum</i>	NW, SW	R		ST
Aquatic Systems					Reptile	<u>Ouachita Map Turtle</u>	<i>Graptemys ouachitensis</i>				
Barren Lands					Amphibian	<u>Bullfrog</u>	<i>Rana catesbeiana</i>	I	A		
Barren Lands					Amphibian	<u>American Toad</u>	<i>Bufo americanus</i>	N, C, SE	C		
Barren Lands					Amphibian	<u>Cricket Frog</u>	<i>Acris crepitans</i>	I	C		
Barren Lands					Amphibian	<u>Fowler's Toad</u>	<i>Bufo fowleri</i>	I	C		
Barren Lands					Amphibian	<u>Green Frog</u>	<i>Rana clamitans</i>	I	C		
Barren Lands					Amphibian	<u>Crawfish Frog</u>	<i>Rana areolata</i>	W	O		ST
Barren Lands					Amphibian	<u>Northern Dusky Salamander</u>	<i>Desmognathus fuscus</i>	SE	O		
Barren Lands					Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Barren Lands					Reptile	Black Rat Snake	<i>Elaphe obsoleta</i>	I	C		
Barren Lands					Reptile	Eastern Milksnake	<i>Lampropeltis triangulum</i>	I	C		
Barren Lands					Reptile	Common (Black) Kingsnake	<i>Lampropeltis getula</i>	S	O		
Barren Lands	Active quarries				Bird	Bank Swallow	<i>Riparia riparia</i>	I	O	S*	
Barren Lands	Active quarries				Bird	N. Rough-Winged Swallow	<i>Stelgidopteryx serripennis</i>	I	O	S*	
<i>Barren Lands</i>	<i>Active quarries</i>				<i>Bird</i>	<i>Rough-Winged Swallow</i>	<i>Stelgidopteryx serripennis</i>	<i>I</i>	<i>O</i>	<i>S*</i>	
Barren Lands	Bare dunes				Bird	Lark Sparrow	<i>Chondestes grammacus</i>	I	R	S*	
Barren Lands	Bare dunes				Bird	<u>Piping Plover</u>	<u><i>Charadrius melodus</i></u>	I	R	A(*)	SE, FE
Barren Lands	<i>Bare dunes</i>				Reptile	<u>Six-Lined Racerunner</u>	<u><i>Cnemidophorus sexlineatus</i></u>	NW, SW	O		
Barren Lands	<i>Cliffs</i>				Amphibian	<u>Green Salamander</u>	<u><i>Aneides aeneus</i></u>	SE	R		SE

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Barren Lands	Cliffs				Bird	Black Vulture	<i>Coragyps atratus</i>	S	R	R*	
Barren Lands	Cliffs				Mammal	<u>Allegheny Woodrat</u>	<i>Neotoma magister</i>	SC	R		SE
Barren Lands	Rock outcrops				Bird	Eastern Phoebe	<i>Sayornis phoebe</i>	I	O	R*	
Barren Lands	Rock outcrops				Bird	N. Rough-Winged Swallow	<i>Stelgidopteryx serripennis</i>	I	O	S*	
Barren Lands	Rock outcrops				Mammal	<u>Allegheny Woodrat</u>	<i>Neotoma magister</i>	SC	R		SE
Developed Lands					Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Developed Lands					Amphibian	Tiger Salamander	<i>Ambystoma tigrinum</i>	I	C		
Developed Lands					Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Developed Lands					Bird	Northern Cardinal	<i>Cardinalis cardinalis</i>	I	A	R*	
Developed Lands					Bird	Rock Dove	<i>Columba livia</i>	I	A	R*	X
Developed Lands					Mammal	House Mouse	<i>Mus musculus</i>	I	A		X
Developed Lands					Mammal	Norway Rat	<i>Rattus norvegicus</i>	I	A		X

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Developed Lands					Reptile	Banded Water Snake	<i>Nerodia sipedon</i>	I	A		
Developed Lands					Reptile	Black Rat Snake	<i>Elaphe obsoleta</i>	I	C		
Developed Lands					Reptile	Brown Snake	<i>Storeria dekayi</i>	I	C		
Developed Lands					Reptile	Eastern Hognose Snake	<i>Heterodon platirhinos</i>	I	C		
Developed Lands					Reptile	Eastern Milksnake	<i>Lampropeltis triangulum</i>	I	C		
Developed Lands					Reptile	Western Fox Snake	<i>Elaphe vulpina</i>	NW	C		
Developed Lands					Reptile	Bull Snake	<i>Pituophis melanoleucus</i>	NW, SW	O		
Developed Lands					Reptile	Common (Black) Kingsnake	<i>Lampropeltis getula</i>	S	O		
Developed Lands					Reptile	<u>Kirtland's Snake</u>	<u>Clonophis kirtlandii</u>	N, C, SE	O		ST, FC
Developed Lands					Reptile	Prairie Kingsnake	<i>Lampropeltis calligaster</i>	W	O		
Developed Lands					Reptile	<u>Smooth Green Snake</u>	<i>Opheodrys vernalis</i>	NW	R		ST

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
<i>Developed Lands</i>	<i>Borrow pits</i>				<i>Bird</i>	<i>Canada Goose</i>	<i>Branta canadensis</i>	<i>I</i>	<i>A</i>	<i>R*</i>	
Developed Lands	<i>Borrow pits</i>				Bird	Mallard	<i>Anas platyrhynchos</i>	I	C	R*	
<i>Developed Lands</i>	<i>Golf courses</i>				<i>Bird</i>	<i>American Robin</i>	<i>Turdus migratorius</i>	<i>I</i>	<i>A</i>	<i>R*</i>	
<i>Developed Lands</i>	<i>Golf courses</i>				<i>Bird</i>	<i>Eastern Bluebird</i>	<i>Sialia sialis</i>	<i>I</i>	<i>C</i>	<i>R*</i>	
Developed Lands	Golf Courses				Mammal	Thirteen-Lined Ground Squirrel	<i>Spermophilus tridecemlineatus</i>	N	C		
Developed Lands	Industrial				Bird	Common Nighthawk	<i>Chordeiles minor</i>	I	O	S*	
Developed Lands	Industrial				Bird	<u>Peregrine Falcon</u>	<u>Falco peregrinus</u>	I	R	R*	SE
<i>Developed Lands</i>	<i>Industrial lands</i>				<i>Bird</i>	<i>European Starling</i>	<i>Sturnus vulgaris</i>	<i>I</i>	<i>A</i>	<i>R*</i>	<i>X</i>
<i>Developed Lands</i>	<i>Industrial lands</i>				<i>Bird</i>	<i>Rock Pigeon</i>	<i>Columba guinea</i>				
Developed Lands	Rights of way				Mammal	Franklin's Ground Squirrel	<i>Spermophilus franklinii</i>	NW	R		SE
Developed Lands	Roads/rails (bridges)				Bird	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	I	R	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Developed Lands	Roads/rails (bridges)				Bird	N. Rough-Winged Swallow	<i>Stelgidopteryx serripennis</i>	I	O	S*	
<i>Developed Lands</i>	<i>Storm water retention ponds</i>				<i>Bird</i>	<i>Canada Goose</i>	<i>Branta canadensis</i>	<i>I</i>	<i>A</i>	<i>R*</i>	
<i>Developed Lands</i>	<i>Storm water retention ponds</i>				<i>Bird</i>	<i>Mallards</i>	<i>Anas platyrhynchos</i>	<i>I</i>	<i>C</i>	<i>R*</i>	
Forests					Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Forests					Amphibian	Cope's Gray Treefrog	<i>Hyla chrysoscelis</i>	I	A		
Forests					Amphibian	Eastern Gray Treefrog	<i>Hyla versicolor</i>	I	A		
Forests					Amphibian	Redback Salamander	<i>Plethodon cinereus</i>	I	A		
Forests					Amphibian	Smallmouth Salamander	<i>Ambystoma texanum</i>	I	A		
Forests					Amphibian	Two-Lined Salamander	<i>Eurycea cirrigera</i>	C, S	A		
Forests					Amphibian	Cave Salamander	<i>Eurycea lucifuga</i>	S	C		

Appendix C: Guilds by Habitat and Sub-habitat

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Forests					Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Forests					Amphibian	Longtail Salamander	<i>Eurycea longicauda</i>	S	C		
Forests					Amphibian	Marbled Salamander	<i>Ambystoma opacum</i>	C, S	C		
Forests					Amphibian	Slimy Salamander	<i>Plethodon glutinosus</i>	S, C	C		
Forests					Amphibian	Southern Leopard Frog	<i>Rana utricularia</i>	S, C	C		
Forests					Amphibian	Spotted Salamander	<i>Ambystoma maculatum</i>	I	C		
Forests					Amphibian	Spring Peeper	<i>Pseudacris crucifer</i>	I	C		
Forests					Amphibian	Streamside Salamander	<i>Ambystoma barbouri</i>	SE	C		
Forests					Amphibian	Tiger Salamander	<i>Ambystoma tigrinum</i>	I	C		
Forests					Amphibian	Zigzag Salamander	<i>Plethodon dorsalis</i>	C, S	C		

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Forests					Amphibian	Blue-Spotted Salamander	<i>Ambystoma laterale</i>	N	O		SC
Forests					Amphibian	Eastern Newt	<i>Notophthalmus viridescens</i>	I	O		
Forests					Amphibian	Jefferson's Salamander	<i>Ambystoma jeffersonianum</i>	SC	O		
Forests					Amphibian	Northern Dusky Salamander	<i>Desmognathus fuscus</i>	SE	O		
Forests					Amphibian	Ravine Salamander	<i>Plethodon richmondi</i>	SE	O		
Forests					Amphibian	Wood Frog	<i>Rana sylvatica</i>	I	O		
Forests					Amphibian	Four-Toed Salamander	<i>Hemidactylium scutatum</i>	N, C	R		ST
Forests					Amphibian	Green Salamander	<i>Aneides aeneus</i>	SE	R		SE
Forests					Amphibian	Northern Red Salamander	<i>Pseudotriton ruber</i>	SC	R		SE
Forests					Bird	American Crow	<i>Corvus brachyrhynchos</i>	I	A	R*	

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Forests					Bird	Blue Jay	<i>Cyanocitta cristata</i>	I	A	R*	
Forests					Bird	Brown-Headed Cowbird	<i>Molothrus ater</i>	I	A	R*	
Forests					Bird	Chimney Swift	<i>Chaetura pelagica</i>	I	A	S*	
Forests					Bird	Mourning Dove	<i>Zenaida macroura</i>	I	A	R*	
Forests					Bird	Northern Cardinal	<i>Cardinalis cardinalis</i>	I	A	R*	
Forests					Bird	Red-Tailed Hawk	<i>Buteo jamaicensis</i>	I	A	R*	
Forests					Bird	American Kestrel	<i>Falco sparverius</i>	I	C	R*	
Forests					Bird	Black-Capped Chickadee	<i>Poecile atricapillus</i>	N	C	R*	
Forests					Bird	Blue-Gray Gnatcatcher	<i>Poliophtila caerulea</i>	I	C	S*	
Forests					Bird	Carolina Chickadee	<i>Poecile carolinensis</i>	S	C	R*	
Forests					Bird	Carolina Wren	<i>Thryothorus ludovicianus</i>	I	C	R*	
Forests					Bird	Chipping Sparrow	<i>Spizella passerina</i>	I	C	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Forests					Bird	Downy Woodpecker	<i>Picoides pubescens</i>	I	C	R*	
Forests					Bird	Eastern Bluebird	<i>Sialia sialis</i>	I	C	R*	
Forests					Bird	Eastern Kingbird	<i>Tyrannus tyrannus</i>	I	C	S*	
Forests					Bird	Eastern Screech-Owl	<i>Otus asio</i>	I	C	R*	
Forests					Bird	Eastern Wood-Pewee	<i>Contopus virens</i>	I	C	S*	
Forests					Bird	Golden-Crowned Kinglet	<i>Regulus satrapa</i>	I	C	W*	
Forests					Bird	Great Horned Owl	<i>Bubo virginianus</i>	I	C	R*	
Forests					Bird	Hairy Woodpecker	<i>Picoides villosus</i>	I	C	R*	
Forests					Bird	Northern Flicker	<i>Colaptes auratus</i>	I	C	R*	
Forests					Bird	Red-Bellied Woodpecker	<i>Melanerpes carolinus</i>	I	C	R*	
Forests					Bird	Rose-Breasted Grosbeak	<i>Pheucticus ludovicianus</i>	I	C	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Forests					Bird	Ruby-Throated Hummingbird	<i>Archilochus colubris</i>	I	C	S*	
Forests					Bird	Tennessee Warbler	<i>Vermivora peregrina</i>	I	C	M	
Forests					Bird	Turkey Vulture	<i>Cathartes aura</i>	I	C	R*	
Forests					Bird	Warbling Vireo	<i>Vireo gilvus</i>	I	C	S*	
Forests					Bird	White-Breasted Nuthatch	<i>Sitta carolinensis</i>	I	C	R*	
Forests					Bird	Yellow-Rumped Warbler	<i>Dendroica coronata</i>	I	C	W	
Forests					Bird	Acadian Flycatcher	<i>Empidonax vireescens</i>	I	O	S*	
Forests					Bird	American Redstart	<i>Setophaga ruticilla</i>	I	O	S*	
Forests					Bird	Barred Owl	<i>Strix varia</i>	I	O	R*	
Forests					Bird	Bay-Breasted Warbler	<i>Dendroica castanea</i>	I	O	M	
Forests					Bird	Black-And-White Warbler	<i>Mniotilta varia</i>	I	O	S*	SC
Forests					Bird	Blackburnian Warbler	<i>Dendroica fusca</i>	I	O	M*	
Forests					Bird	Blackpoll Warbler	<i>Dendroica striata</i>	I	O	M	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Black-Throated Blue Warbler	<i>Dendroica caerulescens</i>	I	O	M	
Forests					Bird	<u>Broad-Winged Hawk</u>	<i>Buteo platypterus</i>	I	O	S*	SC
Forests					Bird	Cape May Warbler	<i>Dendroica tigrina</i>	I	O	M	
Forests					Bird	Cedar Waxwing	<i>Bombycilla cedrorum</i>	I	O	R*	
Forests					Bird	Common Nighthawk	<i>Chordeiles minor</i>	I	O	S*	
Forests					Bird	Cooper's Hawk	<i>Accipiter cooperii</i>	I	O	R*	
Forests					Bird	Eastern Phoebe	<i>Sayornis phoebe</i>	I	O	R*	
Forests					Bird	Gray-Cheeked Thrush	<i>Catharus minimus</i>	I	O	M	
Forests					Bird	Great Crested Flycatcher	<i>Myiarchus crinitus</i>	I	O	S*	
Forests					Bird	Hermit Thrush	<i>Catharus guttatus</i>	I	O	W	
Forests					Bird	Magnolia Warbler	<i>Dendroica magnolia</i>	I	O	M*	
Forests					Bird	Nashville Warbler	<i>Verminvora ruficapilla</i>	I	O	M	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Northern Parula	<i>Parula americana</i>	I	O	S*	
Forests					Bird	Orange-Crowned Warbler	<i>Vermivora celata</i>	I	O	M	
Forests					Bird	Orchard Oriole	<i>Icterus spurius</i>	I	O	S*	
Forests					Bird	Ovenbird	<i>Seiurus aurocapillus</i>	I	O	S*	
Forests					Bird	Palm Warbler	<i>Dendroica palmarum</i>	I	O	M	
Forests					Bird	Pine Siskin	<i>Carduelis pinus</i>	I	O	W*	
Forests					Bird	Purple Finch	<i>Carpodacus purpureus</i>	I	O	W	
Forests					Bird	Red-Headed Woodpecker	<i>Melanerpes erythrocephalus</i>	I	O	R*	
Forests					Bird	Scarlet Tanager	<i>Piranga olivacea</i>	I	O	S*	
Forests					Bird	Summer Tanager	<i>Piranga rubra</i>	S	O	S*	
Forests					Bird	Swainson's Thrush	<i>Catharus ustulatus</i>	I	O	M	
Forests					Bird	Veery	<i>Catharus fuscescens</i>	I	O	S*	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Wild Turkey	<i>Meleagris gallopavo</i>	I	O	R*	
Forests					Bird	Wilson's Warbler	<i>Wilsonia pusilla</i>	I	O	M	
Forests					Bird	Winter Wren	<i>Troglodytes troglodytes</i>	I	O	W	
Forests					Bird	Yellow-Throated Vireo	<i>Vireo flavifrons</i>	I	O	S*	
Forests					Bird	Barn Owl	<i>Tyto alba</i>	I	R	R*	SE
Forests					Bird	Black Vulture	<i>Coragyps atratus</i>	S	R	R*	
Forests					Bird	Black-Backed Woodpecker	<i>Picoides arcticus</i>	N	R	A	
Forests					Bird	Black-Headed Grosbeak	<i>Pheucticus melanocephalus</i>	I	R	A	
Forests					Bird	Bohemian Waxwing	<i>Bombycilla garrulus</i>	N	R	W	
Forests					Bird	Canada Warbler	<i>Wilsonia canadensis</i>	N	R	M*	
Forests					Bird	Chuck-Will's-Widow	<i>Caprimulgus carolinensis</i>	S	R	S*	
Forests					Bird	Common Redpoll	<i>Carduelis flammea</i>	N	R	W	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	I	R	W	
Forests					Bird	Golden Eagle	<i>Aquila chrysaetos</i>	I	R	M	
Forests					Bird	Hoary Redpoll	<i>Carduelis hornemanni</i>	N	R	A	
Forests					Bird	<u>Hooded Warbler</u>	<i>Wilsonia citrina</i>	I	R	S*	SC
Forests					Bird	Least Flycatcher	<i>Empidonax minimus</i>	I	R	S*	
Forests					Bird	Long-Eared Owl	<i>Asio otus</i>	I	R	R*	
Forests					Bird	Merlin	<i>Falco columbarius</i>	I	R	M	
Forests					Bird	<u>Mississippi Kite</u>	<i>Ictinia mississippiensis</i>	I	R	A*	SC
Forests					Bird	Northern Goshawk	<i>Accipiter gentilis</i>	N, E	R	W	
Forests					Bird	Northern Saw-Whet Owl	<i>Aegolius acadicus</i>	I	R	W*	
Forests					Bird	Olive-Sided Flycatcher	<i>Contopus borealis</i>	I	R	M	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Philadelphia Vireo	<i>Vireo philadelphicus</i>	I	R	M	
Forests					Bird	Pine Grosbeak	<i>Pinicola enucleator</i>	N	R	W	
Forests					Bird	Red Crossbill	<i>Loxia curvirostra</i>	N	R	W*	
Forests					Bird	Ruby-Crowned Kinglet	<i>Regulus calendula</i>	I	R	M	
Forests					Bird	Rufous Hummingbird	<i>Selasphorus rufus</i>	I	R	A	
Forests					Bird	Rusty Blackbird	<i>Euphagus carolinus</i>	I	R	W	
Forests					Bird	Say's Phoebe	<i>Sayornis saya</i>	I	R	A	
Forests					Bird	Vermilion Flycatcher	<i>Pyrocephalus rubinus</i>	I	R	A	
Forests					Bird	Western Kingbird	<i>Tyrannus verticalis</i>	I	R	A*	
Forests					Bird	Western Wood-Pewee	<i>Contopus sordidulus</i>	W	R	A	
Forests					Bird	White-Winged Crossbill	<i>Loxia leucoptera</i>	N	R	W	
Forests					Bird	<u>Worm-Eating Warbler</u>	<i>Helminthos vermivorous</i>	I	R	S*	SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Bird	Yellow-Bellied Flycatcher	<i>Empidonax flaviventris</i>	I	R	M	
Forests					Bird	Yellow-Bellied Sapsucker	<i>Sphyrapicus varius</i>	I	R	M*	
Forests					Mammal	Big Brown Bat	<i>Eptesicus fuscus</i>	I	A		
Forests					Mammal	Eastern Chipmunk	<i>Tamias striatus</i>	I	A		
Forests					Mammal	Eastern Mole	<i>Scalopus aquaticus</i>	I	A		
Forests					Mammal	Fox Squirrel	<i>Sciurus niger</i>	I	A		
Forests					Mammal	House Mouse	<i>Mus musculus</i>	I	A		X
Forests					Mammal	Opossum	<i>Didelphis virginiana</i>	I	A		
Forests					Mammal	Raccoon	<i>Procyon lotor</i>	I	A		
Forests					Mammal	Red Bat	<i>Lasiurus borealis</i>	I	A		
Forests					Mammal	White-Footed Mouse	<i>Peromyscus leucopus</i>	I	A		
Forests					Mammal	White-Tailed Deer	<i>Odocoileus virginianus</i>	I	A		reintroduced

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Mammal	Coyote	<i>Canis latrans</i>	I	C		
Forests					Mammal	Eastern Pipistrelle	<i>Pipistrellus subflavus</i>	S	C		
Forests					Mammal	Gray Squirrel	<i>Sciurus carolinensis</i>	I	C		
Forests					Mammal	Little Brown Myotis	<i>Myotis lucifugus</i>	I	C		
Forests					Mammal	Masked Shrew	<i>Sorex cinereus</i>	N	C		
Forests					Mammal	Northern Myotis	<i>Myotis septentrionalis</i>	I	C		
Forests					Mammal	Red Squirrel	<i>Tamiasciurus hudsonicus</i>	N	C		
Forests					Mammal	Southern Flying Squirrel	<i>Glaucomys volans</i>	I	C		
Forests					Mammal	Striped Skunk	<i>Mephitis mephitis</i>	I	C		
Forests					Mammal	<u>Evening Bat</u>	<i>Nycticeius humeralis</i>	SC	O		FE
Forests					Mammal	Gray Fox	<i>Urocyon cinereoargenteus</i>	I	O		
Forests					Mammal	Hoary Bat	<i>Lasiurus cinereus</i>	I	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Mammal	Indiana Myotis	<i>Myotis sodalis</i>	I	O		FE
Forests					Mammal	Pygmy Shrew	<i>Sorex hoyi</i>	SC	O		
Forests					Mammal	Red Fox	<i>Vulpes vulpes</i>	I	O		
Forests					Mammal	Silver-Haired Bat	<i>Lasionycteris noctivagans</i>	I	O		
Forests					Mammal	Southeastern Shrew	<i>Sorex longirostris</i>	SC	O		
Forests					Mammal	Woodland Vole	<i>Microtus pinetorum</i>	I	O		
Forests					Mammal	<u>Bobcat</u>	<i>Lynx rufus</i>	I	R		SE
Forests					Mammal	<u>Least Weasel</u>	<i>Mustela nivalis</i>	N	R		SC
Forests					Mammal	<u>Rafinesque's Big-Eared Bat</u>	<i>Corynorhinus rafinesquii</i>	SC	R		SC
Forests					Reptile	Black Racer	<i>Coluber constrictor</i>	I	C		
Forests					Reptile	Black Rat Snake	<i>Elaphe obsoleta</i>	I	C		
Forests					Reptile	Eastern Box Turtle	<i>Terrapene carolina</i>	I	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Forests					Reptile	Eastern Fence Lizard	<i>Sceloporus undulatus</i>	S	C		
Forests					Reptile	Eastern Milksnake	<i>Lampropeltis triangulum</i>	I	C		
Forests					Reptile	Five-Lined Skink	<i>Eumeces fasciatus</i>	I	C		
Forests					Reptile	Broad-Headed Skink	<i>Eumeces laticeps</i>	C, S	O		
Forests					Reptile	Bull Snake	<i>Pituophis melanoleucus</i>	NW, SW	O		
Forests					Reptile	Common (Black) Kingsnake	<i>Lampropeltis getulus</i>	S	O		
Forests					Reptile	Ground Skink	<i>Scincella lateralis</i>	S	O		
Forests					Reptile	<u>Kirtland's Snake</u>	<i>Clonophis kirtlandii</i>	N, C, SE	O		ST, FC
Forests					Reptile	<u>Copperbelly Water Snake</u>	<i>Nerodia erythrogaster neglecta</i>	SW, NE, SC	O		ST, FC
Forests					Reptile	Northern Copperhead	<i>Agkistrodon contortrix</i>	S, WC	O		

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Forests					Reptile	Northern Ringneck Snake	<i>Diadophis punctatus</i>	S	O		
Forests					Reptile	Red-Bellied Snake	<i>Storeria occipitomaculata</i>	I	O		
Forests					Reptile	<u>Rough Green Snake</u>	<i>Opheodrys aestivus</i>	S	O		SC
Forests					Reptile	Western Earth Snake	<i>Virginia valeriae</i>	S	O		
Forests					Reptile	Worm Snake	<i>Carphophis amoenus</i>	S	O		
Forests					Reptile	<u>Crowned Snake</u>	<i>Tantilla coronata</i>	S	R		ST
Forests					Reptile	<u>Scarlet Snake</u>	<i>Cemophora coccinea</i>	S	R		ST
Forests					Reptile	<u>Smooth Green Snake</u>	<i>Opheodrys vernalis</i>	NW	R		ST
Forests	<i>Deciduous forest</i>				Bird	Red-Eyed Vireo	<i>Vireo olivaceus</i>	I	C	S*	
Forests	<i>Deciduous forest</i>				Bird	Wood Thrush	<i>Hylocichla mustelina</i>	I	C	S*	
Forests	Early Forest Stage				Bird	Indigo Bunting	<i>Passerina cyanea</i>	I	A	S*	

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Forests	Early Forest Stage				Bird	Brown Thrasher	<i>Toxostoma rufum</i>	I	C	R*	
Forests	Early Forest Stage				Bird	Common Yellowthroat	<i>Geothlypis trichas</i>	I	C	S*	
Forests	Early Forest Stage				Bird	Gray Catbird	<i>Dumetella carolinensis</i>	I	C	S*	
Forests	Early Forest Stage				Bird	Northern Mockingbird	<i>Mimus polyglottos</i>	I	C	R*	
Forests	Early Forest Stage				Bird	Whip-Poor-Will	<i>Caprimulgus vociferous</i>	I	C	S*	
Forests	Early Forest Stage				Bird	White-Eyed Vireo	<i>Vireo griseus</i>	I	C	S*	
Forests	Early Forest Stage				Bird	Yellow-Breasted Chat	<i>Icteria virens</i>	I	C	S*	
Forests	Early Forest Stage				Bird	American Woodcock	<i>Scolopax minor</i>	I	O	S*	
Forests	Early Forest Stage				Bird	Black-Billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	I	O	S*	
Forests	Early Forest Stage				Bird	Blue-Winged Warbler	<i>Verminvora pinus</i>	I	O	S*	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Early Forest Stage				Bird	Chestnut-Sided Warbler	<i>Dendroica pensylvanica</i>	N	O	M*	
Forests	Early Forest Stage				Bird	Prairie Warbler	<i>Dendroica discolor</i>	I	O	S*	
Forests	Early Forest Stage				Bird	Ruffed Grouse	<i>Bonasa umbellus</i>	S	O	R*	
Forests	Early Forest Stage				Bird	Yellow-Billed Cuckoo	<i>Coccyzus americanus</i>	I	O	S*	
Forests	Early Forest Stage				Bird	Golden-Winged Warbler	<i>Vermivora chrysoptera</i>	I	R	S*	SE
Forests	Early Forest Stage				Mammal	Cottontail Rabbit	<i>Sylvilagus floridanus</i>	I	A		
Forests	Early Forest Stage				Mammal	Woodchuck	<i>Marmota monax</i>	I	C		
Forests	Early Forest Stage <i>Pre-forest stage</i>				Bird	Field Sparrow	<i>Spizella pusilla</i>	I	C	R*	

Appendix C: Guilds by Habitat and Sub-habitat

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Forests	Early Forest Stage <i>Pre-forest stage</i>				Bird	Eastern Towhee	<i>Pipilo erythrophthalmus</i>	I	O	R*	
Forests	Evergreen				Bird	Black-Throated Green Warbler	<i>Dendroica virens</i>	I	O	S*	
Forests	Evergreen				Bird	Pine Warbler	<i>Dendroica pinus</i>	S	O	S*	
Forests	Evergreen				Bird	Red-Breasted Nuthatch	<i>Sitta canadensis</i>	I	O	W*	
Forests	Evergreen				Bird	Sharp-Shinned Hawk	<i>Accipiter striatus</i>	I	O	R*	
Forests	Evergreen				Bird	<u>Bachman's Sparrow</u>	<i>Aimophila aestivalis</i>	S	R	S(*)	SE
Forests	Evergreen				Bird	<u>Kirtland's Warbler</u>	<i>Dendroica kirtlandii</i>	I	R	M	SE, FE
Forests	Evergreen				Bird	Northern Saw-Whet Owl	<i>Aegolius acadicus</i>	I	R	W*	
Forests	<i>Floodplain forest</i>				Bird	<u>Cerulean Warbler</u>	<i>Dendroica cerulea</i>	I	O	S*	SC
Forests	<i>Floodplain forest</i>				Bird	<i>Yellow-Throated Warbler</i>	<i>Dendroica dominica</i>	I	O	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Forests	Forested wetlands				Bird	<u>Cerulean Warbler</u>	<u>Dendroica cerulea</u>	I	O	S*	SC
Forests	Forested wetlands				Bird	Yellow-Throated Warbler	<i>Dendroica dominica</i>	I	O	S*	
Forests	Forested wetlands				Bird	<u>Red-Shouldered Hawk</u>	<u>Buteo lineatus</u>	I	O	R*	SC
Forests	Mature or high canopy stage				Bird	Pileated Woodpecker	<i>Dryocopus pileatus</i>	I	O	R*	
Forests	Mature or high canopy stage				Bird	<u>Cerulean Warbler</u>	<u>Dendroica cerulea</u>	I	O	S*	SC
Forests	Mature or high canopy stage				Mammal	Cottontail Rabbit	<i>Sylvilagus floridanus</i>	I	A		
Forests	Mature or high canopy stage				Mammal	<u>Allegheny Woodrat</u>	<u>Neotoma magister</u>	SC	R		SE
Forests	Mature or high canopy stage				Reptile	<u>Timber Rattlesnake</u>	<u>Crotalus horridus</u>	S	R		ST
Forests	Old forest stage				Bird	<u>Cerulean Warbler</u>	<u>Dendroica cerulea</u>	I	O	S*	SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Old forest stage				Bird	Pileated Woodpecker	<i>Dryocopus pileatus</i>	I	O	R*	
Forests	Old Forest stage				Mammal	Allegheny Woodrat	<i>Neotoma magister</i>	SC	R		SE
Forests	Pole stage				Bird	Wood Thrush	<i>Hylocichla mustelina</i>	I	C	S*	
Forests	Pole stage				Bird	Tufted Titmouse	<i>Baeolophus bicolor</i>	I	C	R*	
Forests	Pole Stage				Mammal	Cottontail Rabbit	<i>Sylvilagus floridanus</i>	I	A		
Forests	Pole Stage				Mammal	Woodchuck	<i>Marmota monax</i>	I	C		
Forests	Pre-forest Stage				Mammal	Cottontail Rabbit	<i>Sylvilagus floridanus</i>	I	A		
Forests	Pre-forest Stage				Mammal	Woodchuck	<i>Marmota monax</i>	I	C		
Forests	Pre-forest Stage				Mammal	Long-Tailed Weasel	<i>Mustela frenata</i>	I	O		
Forests	Riparian wooded corridors/streams/counties				Bird	Common Grackle	<i>Quiscalus quiscula</i>	I	A	R*	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Riparian wooded corridors/steams/counties				Bird	Great Blue Heron	<i>Ardea herodias</i>	I	C	R*	
Forests	Riparian wooded corridors/steams/counties				Bird	Green Heron	<i>Butorides virescens</i>	I	C	S*	
Forests	Riparian wooded corridors/steams/counties				Bird	House Wren	<i>Troglodytes aedon</i>	I	C	S*	
Forests	Riparian wooded corridors/steams/counties				Bird	American Redstart	<i>Setophaga ruticilla</i>	I	O	S*	
Forests	Riparian wooded corridors/steams/counties				Bird	Barred Owl	<i>Strix varia</i>	I	O	R*	
Forests	Riparian wooded corridors/steams/counties				Bird	Brown Creeper	<i>Certhia americana</i>	I	O	R*	
Forests	Riparian wooded corridors/steams/counties				Bird	<u>Cerulean Warbler</u>	<u>Dendroica cerulea</u>	I	O	S*	SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Riparian wooded corridors/streams/counties				Bird	Great Egret	<i>Ardea alba</i>	I	O	S*	SC
Forests	Riparian wooded corridors/streams/counties				Bird	Hooded Merganser	<i>Lophodytes cucullatus</i>	I	O	R*	
Forests	Riparian wooded corridors/streams/counties				Bird	Kentucky Warbler	<i>Oporornis formosus</i>	I	O	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	Louisiana Waterthrush	<i>Seiurus motacilla</i>	I	O	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	Northern Parula	<i>Parula americana</i>	I	O	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	Prothonotary Warbler	<i>Protonotaria citrea</i>	I	O	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	Red-Headed Woodpecker	<i>Melanerpes erythrocephalus</i>	I	O	R*	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Riparian wooded corridors/steams/counties				Bird	<u>Red-Shouldered Hawk</u>	<i>Buteo lineatus</i>	I	O	R*	SC
Forests	Riparian wooded corridors/steams/counties				Bird	Yellow-Throated Warbler	<i>Dendroica dominica</i>	I	O	S*	
Forests	Riparian wooded corridors/steams/counties				Bird	<u>Bald Eagle</u>	<i>Haliaeetus leucocephalus</i>	I	R	R*	SE, FT
Forests	Riparian wooded corridors/steams/counties				Bird	<u>Black-Crowned Night-Heron</u>	<i>Nycticorax nycticorax</i>	I	R	S*	SE
Forests	Riparian wooded corridors/steams/counties				Bird	Cattle Egret	<i>Bubulcus ibis</i>	I	R	M*	
Forests	Riparian wooded corridors/steams/counties				Bird	Connecticut Warbler	<i>Oporornis agilis</i>	I	R	M	
Forests	Riparian wooded corridors/steams/counties				Bird	Fish Crow	<i>Corvus ossifragus</i>	SW	R	S	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Riparian wooded corridors/streams/counties				Bird	Little Blue Heron	<i>Egretta caerulea</i>	I	R	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	<u>Mississippi Kite</u>	<i>Ictinia mississippiensis</i>	I	R	A*	SC
Forests	Riparian wooded corridors/streams/counties				Bird	Mourning Warbler	<i>Oporornis philadelphia</i>	I	R	M	
Forests	Riparian wooded corridors/streams/counties				Bird	Northern Waterthrush	<i>Seiurus noveboracensis</i>	I	R	S*	
Forests	Riparian wooded corridors/streams/counties				Bird	<u>Osprey</u>	<i>Pandion haliaetus</i>	I	R	S*	SE
Forests	Riparian wooded corridors/streams/counties				Bird	Snowy Egret	<i>Egretta thula</i>	I	R	A*	
Forests	Riparian wooded corridors/streams/counties				Bird	Swainson's Warbler	<i>Limnothlypis swainsonii</i>	SW	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Forests	Riparian wooded corridors/streams/counties				Bird	Swallow-Tailed Kite	<i>Elanoides forficatus</i>	I	R	A(*)	
Forests	Riparian wooded corridors/streams/counties				Bird	Tricolored Heron	<i>Egretta tricolor</i>	I	R	A	
Forests	Riparian wooded corridors/streams/counties				Bird	<u>Yellow-Crowned Night-Heron</u>	<i>Nyctanassa violacea</i>	SW	R	S*	SE
Forests	Riparian wooded corridors/streams/counties				Mammal	<u>Gray Myotis</u>	<i>Myotis grisescens</i>	SC	R		FE
<i>Forests</i>	<i>Species Composition</i>				<i>Plants</i>	<i>Aspen/Birch</i>					
<i>Forests</i>	<i>Species Composition</i>				<i>Plants</i>	<i>Cherry/Ash/Yellow Poplar</i>					
<i>Forests</i>	<i>Species Composition</i>				<i>Plants</i>	<i>E Redcedar/Hardwoods</i>					
<i>Forests</i>	<i>Species Composition</i>				<i>Plants</i>	<i>Eastern Red Cedar</i>	<i>Juniperus virginiana</i>				

Appendix C: Guilds by Habitat and Sub-habitat

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Forests	Species Composition				Plants	Elm/Ash/Cottonwood					
Forests	Species Composition				Plants	Maple/Beech					
Forests	Species Composition				Plants	Oak/Gum/Cypress					
Forests	Species Composition				Plants	Oak/Hickory					
Forests	Species Composition				Plants	Oak/Pine					
Forests	Species Composition				Plants	Shortleaf/Virginia Pine					
Forests	Species Composition				Plants	White Pine	<i>Pinus strobus</i>				
Forests	Suburban forest				Bird	American Robin	<i>Turdus migratorius</i>	I	A	R*	
Forests	Suburban forest				Bird	Baltimore Oriole	<i>Icterus galbula</i>	I	O	S*	
Forests	Urban forest				Bird	American Robin	<i>Turdus migratorius</i>	I	A	R*	
Forests	Urban forest				Bird	Baltimore Oriole	<i>Icterus galbula</i>	I	O	S*	
Grasslands					Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Amphibian	American Toad	<i>Bufo americanus</i>	N, C,SE	C		
Grasslands					Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		
Grasslands					Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Grasslands					Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Grasslands					Amphibian	<u>Northern Leopard Frog</u>	<i>Rana pipiens</i>	N, E	C		SC
Grasslands					Amphibian	Tiger Salamander	<i>Ambystoma tigrinum</i>	I	C		
Grasslands					Amphibian	<u>Blue-Spotted Salamander</u>	<i>Ambystoma laterale</i>	N	O		SC
Grasslands					Amphibian	<u>Crawfish Frog</u>	<i>Rana areolata</i>	W	O		ST
Grasslands					Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Grasslands					Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC
Grasslands					Bird	Barn Swallow	<i>Hirundo rustica</i>	I	A	S*	
Grasslands					Bird	Brown-Headed Cowbird	<i>Molothrus ater</i>	I	A	R*	

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Bird	Dark-Eyed Junco	<i>Junco hyemalis</i>	I	A	W	
Grasslands					Bird	Eastern Meadowlark	<i>Sturnella magna</i>	I	A	R*	
Grasslands					Bird	Mourning Dove	<i>Zenaida macroura</i>	I	A	R*	
Grasslands					Bird	Red-Tailed Hawk	<i>Buteo jamaicensis</i>	I	A	R*	
Grasslands					Bird	Song Sparrow	<i>Melospiza melodia</i>	I	A	R*	
Grasslands					Bird	American Goldfinch	<i>Carduelis tristis</i>	I	C	R*	
Grasslands					Bird	American Kestrel	<i>Falco sparverius</i>	I	C	R*	
Grasslands					Bird	American Tree Sparrow	<i>Spizella arborea</i>	I	C	W	
Grasslands					Bird	Common Yellowthroat	<i>Geothlypis trichas</i>	I	C	S*	
Grasslands					Bird	Eastern Bluebird	<i>Sialia sialis</i>	I	C	R*	
Grasslands					Bird	Field Sparrow	<i>Spizella pusilla</i>	I	C	R*	
Grasslands					Bird	Horned Lark	<i>Eremophila alpestris</i>	I	C	R*	
Grasslands					Bird	Purple Martin	<i>Progne subis</i>	I	C	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Bird	Blue Grosbeak	<i>Passerina caerulea</i>	S	O	S*	
Grasslands					Bird	Fox Sparrow	<i>Passerella iliaca</i>	I	O	W	
Grasslands					Bird	Lapland Longspur	<i>Calcarius lapponicus</i>	I	O	W	
Grasslands					Bird	<u>Northern Harrier</u>	<u>Circus cyaneus</u>	I	O	R*	SE
Grasslands					Bird	Ring-Necked Pheasant	<i>Phasianus colchicus</i>	N	O	R*	X
Grasslands					Bird	Rough-Legged Hawk	<i>Buteo lagopus</i>	I	O	W	
Grasslands					Bird	Snow Bunting	<i>Plectrophenax nivalis</i>	I	O	W	
Grasslands					Bird	Tree Swallow	<i>Tachycineta bicolor</i>	I	O	S*	
Grasslands					Bird	Vesper Sparrow	<i>Pooecetes gramineus</i>	I	O	S*	
Grasslands					Bird	White-Crowned Sparrow	<i>Zonotrichia leucophrys</i>	I	O	W	
Grasslands					Bird	<u>American Bittern</u>	<u><i>Botaurus lentiginosus</i></u>	I	R	S*	SE

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Bird	American Pipit	<i>Anthus rubescens</i>	I	R	M	
Grasslands					Bird	Bachman's Sparrow	<i>Aimophila aestivalis</i>	S	R	S(*)	SE
Grasslands					Bird	Barn Owl	<i>Tyto alba</i>	I	R	R*	SE
Grasslands					Bird	Blue-Headed Vireo	<i>Vireo solitarius</i>	I	R	M*	
Grasslands					Bird	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	W	R	M*	
Grasslands					Bird	Buff-Breasted Sandpiper	<i>Tryngites subruficollis</i>	I	R	M	
Grasslands					Bird	Burrowing Owl	<i>Athene cunicularia</i>	W	R	A	
Grasslands					Bird	Cassin's Sparrow	<i>Aimophila cassinii</i>	I	R	A	
Grasslands					Bird	Cattle Egret	<i>Bubulcus ibis</i>	I	R	M*	
Grasslands					Bird	Clay-Colored Sparrow	<i>Spizella pallida</i>	I	R	A	
Grasslands					Bird	Ferruginous Hawk	<i>Buteo regalis</i>	W	R	A	
Grasslands					Bird	Franklin's Gull	<i>Larus pipixcan</i>	I	R	M	

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Bird	Golden Eagle	<i>Aquila chrysaetos</i>	I	R	M	
Grasslands					Bird	Gyr Falcon	<i>Falco rusticolis</i>	N	R	A	
Grasslands					Bird	Harris's Sparrow	<i>Zonotrichia querula</i>	I	R	W	
Grasslands					Bird	<u>Henslow's Sparrow</u>	<i>Ammodramus</i> <i>henslowii</i>	I	R	S*	SE
Grasslands					Bird	Lark Sparrow	<i>Chondestes</i> <i>grammacus</i>	I	R	S*	
Grasslands					Bird	Leconte's Sparrow	<i>Ammodramus</i> <i>leconteii</i>	I	R	W	
Grasslands					Bird	Lincoln's Sparrow	<i>Melospiza lincolnii</i>	I	R	M	
Grasslands					Bird	<u>Loggerhead Shrike</u>	<i>Lanius ludovicianus</i>	I	R	R*	SE, FC
Grasslands					Bird	Mccown's Longspur	<i>Calcarius mccownii</i>	I	R	A	
Grasslands					Bird	Northern Shrike	<i>Lanius excubitor</i>	N	R	W	
Grasslands					Bird	Prairie Falcon	<i>Falco mexicanus</i>	W	R	A	
Grasslands					Bird	Scissor-Tailed Flycatcher	<i>Tyrannus forficatus</i>	S	R	A*	

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Bird	<u>Sedge Wren</u>	<i>Cistothorus platensis</i>	I	R	S*	SE
Grasslands					Bird	<u>Short-Eared Owl</u>	<i>Asio flammeus</i>	I	R	R*	SE
Grasslands					Bird	Smith's Longspur	<i>Calcarius pictus</i>	I	R	M	
Grasslands					Bird	Snowy Owl	<i>Nyctea scandiac</i>	N	R	W	
Grasslands					Bird	Swainson's Hawk	<i>Buteo swainsoni</i>	W	R	A	
Grasslands					Bird	<u>Upland Sandpiper</u>	<i>Bartramia longicauda</i>	I	R	S*	SE
Grasslands					Bird	<u>Western Meadowlark</u>	<i>Sturnella neglecta</i>	N	R	R*	SC
Grasslands					Bird	Gray Partridge (Extirpated)	<i>Perdix perdix</i>	N		R*	X, Ex (1977)
Grasslands					Bird	Greater Prairie-Chicken (Extirpated)	<i>Tympanuchus cupido</i>	NW		R(*)	Ex (1972)
Grasslands					Mammal	Eastern Mole	<i>Scalopus aquaticus</i>	I	A		
Grasslands					Mammal	Opossum	<i>Didelphis virginiana</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

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Grasslands					Mammal	Raccoon	<i>Procyon lotor</i>	I	A		
Grasslands					Mammal	Coyote	<i>Canis latrans</i>	I	C		
Grasslands					Mammal	Meadow Vole	<i>Microtus pennsylvanicus</i>	I	C		
Grasslands					Mammal	<u>Plains Pocket Gopher</u>	<i>Geomys bursarius</i>	NW	C		SC
Grasslands					Mammal	Prairie Vole	<i>Microtus ochrogaster</i>	I	C		
Grasslands					Mammal	Striped Skunk	<i>Mephitis mephitis</i>	I	C		
Grasslands					Mammal	Thirteen-Lined Ground Squirrel	<i>Spermophilus tridecemlineatus</i>	N	C		
Grasslands					Mammal	Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	NW	C		
Grasslands					Mammal	Woodchuck	<i>Marmota monax</i>	I	C		
Grasslands					Mammal	Least Shrew	<i>Cryptotis parva</i>	I	O		
Grasslands					Mammal	Red Fox	<i>Vulpes vulpes</i>	I	O		
Grasslands					Mammal	Southern Bog Lemming	<i>Synaptomys cooperi</i>	I	O		
Grasslands					Mammal	<u>Badger</u>	<i>Taxidea taxus</i>	I	R		ST

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Grasslands					Mammal	Bobcat	<i>Lynx rufus</i>	I	R		SE
Grasslands					Mammal	Least Weasel	<i>Mustela nivalis</i>	N	R		SC
Grasslands					Reptile	Black Racer	<i>Coluber constrictor</i>	I	C		
Grasslands					Reptile	Black Rat Snake	<i>Elaphe obsoleta</i>	I	C		
Grasslands					Reptile	Brown Snake	<i>Storeria dekayi</i>	I	C		
Grasslands					Reptile	Eastern Hognose Snake	<i>Heterodon platirhinos</i>	I	C		
Grasslands					Reptile	Eastern Milksnake	<i>Lampropeltis triangulum</i>	I	C		
Grasslands					Reptile	Western Fox Snake	<i>Elaphe vulpina</i>	NW	C		
Grasslands					Reptile	Blanding's Turtle	<i>Emydoidea blandingii</i>	N	O		SC
Grasslands					Reptile	Bull Snake	<i>Pituophis melanoleucus</i>	NW, SW	O		
Grasslands					Reptile	Common (Black) Kingsnake	<i>Lampropeltis getulus</i>	S	O		
Grasslands					Reptile	Eastern Ribbon Snake	<i>Thamnophis sauritus</i>	I	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Grasslands					Reptile	<u>Kirtland's Snake</u>	<i>Clonophis kirtlandii</i>	N, C, SE	O		ST, FC
Grasslands					Reptile	<u>Ornate Box Turtle</u>	<i>Terrapene ornata</i>	NW, SW	O		SC
Grasslands					Reptile	Plains Garter Snake	<i>Thamnophis radix</i>	NW	O		
Grasslands					Reptile	Prairie Kingsnake	<i>Lampropeltis calligaster</i>	W	O		
Grasslands					Reptile	Six-Lined Racerunner	<i>Cnemidophorus sexlineatus</i>	NW, SW	O		
Grasslands					Reptile	<u>Spotted Turtle</u>	<i>Clemmys guttata</i>	N	O		ST
Grasslands					Reptile	<u>Western Ribbon Snake</u>	<i>Thamnophis proximus</i>	NW, SW	O		SC
Grasslands					Reptile	<u>Butler's Garter Snake</u>	<i>Thamnophis butleri</i>	NE, C	R		ST
Grasslands					Reptile	Slender Glass Lizard	<i>Ophisaurus attenuatus</i>	NW	R		
Grasslands					Reptile	<u>Smooth Green Snake</u>	<i>Opheodrys vernalis</i>	NW	R		ST

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Grasslands	Early Successional Area				Mammal	Cottontail Rabbit	<i>Sylvilagus floridanus</i>	I	A		
Grasslands	Early Successional Area				Mammal	Short-Tailed Shrew	<i>Blarina brevicauda</i>	I	A		
Grasslands	Early Successional Area				Mammal	Deer Mouse	<i>Peromyscus maniculatus</i>	I	C		
Grasslands	Early Successional Area				Mammal	<u>Franklin's Ground Squirrel</u>	<u><i>Spermophilus franklinii</i></u>	NW	R		SE
Grasslands	<i>Fescue</i>				Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Grasslands	<i>Farm Bill Program Lands (CRP, CP1, CP2, CP10)</i>				Bird	Northern Bobwhite	<i>Colinus virginianus</i>	I	C	R*	
Grasslands	<i>Early successional areas</i>				Bird	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	I	O	S*	
Grasslands	<i>Haylands</i>				Bird	Bobolink	<i>Dolichonyx oryzivorus</i>	I	O	S*	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Grasslands	Haylands				Bird	Dickcissel	<i>Spiza americana</i>	I	O	S*	
Grasslands	Historic				Mammal	Meadow Jumping Mouse	<i>Zapus hudsonius</i>	I	O		
Grasslands	Historic				Mammal	<u>Franklin's Ground Squirrel</u>	<i>Spermophilus franklinii</i>	NW	R		SE
Grasslands	Pasture				Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Grasslands	Prairies				Bird	Savannah Sparrow	<i>Passerculus sandwichensis</i>	I	O	S*	
Grasslands	Prairies				Mammal	<u>Franklin's Ground Squirrel</u>	<i>Spermophilus franklinii</i>	NW	R		SE
Grasslands	Reclaimed minelands				Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Grasslands	Savannah				Bird	Eastern Wood-Pewee	<i>Contopus virens</i>	I	C	S*	
Grasslands	Savannah				Bird	Red-Headed Woodpecker	<i>Melanerpes erythrocephalus</i>	I	O	R*	
Subterranean Systems					Amphibian	Two-Lined Salamander	<i>Eurycea cirrigera</i>	C, S	A		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Subterranean Systems					Amphibian	Northern Dusky Salamander	<i>Desmognathus fuscus</i>	SE	O		
Subterranean Systems					Amphibian	<u>Pickerel Frog</u>	<i>Rana palustris</i>	E, C, WC	O		SC
Subterranean Systems					Amphibian	<u>Green Salamander</u>	<i>Aneides aeneus</i>	SE	R		SE
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	Big Brown Bat	<i>Eptesicus fuscus</i>	I	A		
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	Eastern Pipistrelle	<i>Pipistrellus subflavus</i>	S	C		
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	Little Brown Myotis	<i>Myotis lucifugus</i>	I	C		
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	Northern Myotis	<i>Myotis septentrionalis</i>	I	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	<u>Indiana Myotis</u>	<u>Myotis sodalis</u>	I	O		FE
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	<u>Gray Myotis</u>	<u>Myotis grisescens</u>	SC	R		FE
Subterranean Systems	Cave aquatic and terrestrial features				Mammal	<u>Rafinesque's Big-Eared Bat</u>	<u>Corynorhinus rafinesquii</u>	SC	R		SC
Subterranean Systems	<u>Cave Entrances/Seeps</u>				Amphibian	<u>Cave Salamander</u>	<u>Eurycea lucifuga</u>	S	C		
Subterranean Systems	<u>Cave Entrances/Seeps</u>				Amphibian	<u>Longtail Salamander</u>	<u>Eurycea longicauda</u>	S	C		
Subterranean Systems	<u>Cave Entrances/Seeps</u>				Amphibian	<u>Four-Toed Salamander</u>	<u>Hemidactylium scutatum</u>	N, C	R		ST
Subterranean Systems	Caves				Fish	<u>Northern Cavefish</u>	<u>Amblyopsis spelaea</u>	S	R		SE, FC
Subterranean Systems	Caves				Fish	<u>Southern Cavefish</u>	<u>Typhlichthys subterraneus</u>	S	R		SE

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands					Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Wetlands	emergent				Bird	Red-Winged Blackbird	<i>Agelaius phoeniceus</i>	I	A	R*	
Wetlands	emergent				Bird	American Black Duck	<i>Anas rubripes</i>	I	C	R*	
Wetlands	emergent				Bird	Killdeer	<i>Charadrius vociferus</i>	I	C	R*	
Wetlands	emergent				Bird	Pied-Billed Grebe	<i>Podilymbus podiceps</i>	I	C	R*	
Wetlands	emergent				Bird	Wood Duck	<i>Aix sponsa</i>	I	C	R*	
Wetlands	emergent				Bird	Yellow Warbler	<i>Dendroica petechia</i>	I	C	S*	
Wetlands	emergent <i>Ephemeral</i>	<i>Emergent</i>			Bird	Common Yellowthroat	<i>Geothlypis trichas</i>	I	C	S*	
Wetlands	emergent <i>Ephemeral</i>	Emergent			Bird	Mallard	<i>Anas platyrhynchos</i>	I	C	R*	
Wetlands	emergent				Bird	American Coot	<i>Fulica americana</i>	I	O	R*	
Wetlands	emergent				Bird	American Wigeon	<i>Anas americana</i>	I	O	M(*)	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	emergent				Bird	<u>Black Tern</u>	<i>Chlidonias niger</i>	I	O	S*	SE
Wetlands	emergent				Bird	Black-Bellied Plover	<i>Pluvialis squatarola</i>	I	O	M	
Wetlands	emergent				Bird	Blue-Winged Teal	<i>Anas discors</i>	I	O	S*	
Wetlands	emergent				Bird	Dunlin	<i>Calidris alpina</i>	I	O	M	
Wetlands	emergent				Bird	Gadwall	<i>Anas strepera</i>	I	O	M*	
Wetlands	emergent				Bird	<u>Great Egret</u>	<i>Ardea alba</i>	I	O	S*	SC
Wetlands	emergent				Bird	Greater Yellowlegs	<i>Tringa melanoleuca</i>	I	O	M	
Wetlands	emergent				Bird	Green-Winged Teal	<i>Anas crecca</i>	I	O	M*	
Wetlands	emergent				Bird	Horned Grebe	<i>Podiceps auritus</i>	I	O	W(*)	
Wetlands	emergent				Bird	Least Sandpiper	<i>Calidris minutilla</i>	I	O	M	
Wetlands	emergent				Bird	Lesser Yellowlegs	<i>Tringa flavipes</i>	I	O	M	
Wetlands	emergent				Bird	Long-Billed Dowitcher	<i>Limnodromus scolopaceus</i>	I	O	M	
Wetlands	emergent				Bird	Mute Swan	<i>Cygnus olor</i>	I	O	R*	X

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands	emergent				Bird	Northern Pintail	<i>Anas Acuta</i>	I	O	M*	
Wetlands	emergent				Bird	Northern Shoveler	<i>Anas clypeata</i>	I	O	M*	
Wetlands	emergent				Bird	Pectoral Sandpiper	<i>Calidris melanotos</i>	I	O	M	
Wetlands	emergent				Bird	<u>Sandhill Crane</u>	<i>Grus canadensis</i>	I	O	M*	SC
Wetlands	emergent				Bird	Semipalmated Plover	<i>Charadrius semipalmatus</i>	I	O	M	
Wetlands	emergent				Bird	Semipalmated Sandpiper	<i>Calidris pusilla</i>	I	O	M	
Wetlands	emergent				Bird	Short-Billed Dowitcher	<i>Limnodromus griseus</i>	I	O	M	
Wetlands	emergent				Bird	Solitary Sandpiper	<i>Tringa solitaria</i>	I	O	M	
Wetlands	emergent				Bird	Spotted Sandpiper	<i>Actitis macularia</i>	I	O	S*	
Wetlands	emergent				Bird	Swamp Sparrow	<i>Melospiza georgiana</i>	I	O	R*	
Wetlands	emergent				Bird	Tree Swallow	<i>Tachycineta bicolor</i>	I	O	S*	

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands	emergent				Bird	Tundra Swan	<i>Cygnus columbianus</i>	I	O	M	
Wetlands	emergent				Bird	Western Sandpiper	<i>Calidris mauri</i>	I	O	M	
Wetlands	emergent				Bird	Wilson's Snipe	<i>Gallinago delicata</i>	I	O	R*	
Wetlands	emergent Ephemeral	Emergent			Bird	Sora	<i>Porzana carolina</i>	I	O	S*	
Wetlands	emergent				Bird	American Avocet	<i>Recurvirostra americana</i>	I	R	M(*)	
Wetlands	emergent				Bird	<u>American Bittern</u>	<u><i>Botaurus lentiginosus</i></u>	I	R	S*	SE
Wetlands	emergent				Bird	Baird's Sandpiper	<i>Calidris bairdii</i>	I	R	M	
Wetlands	emergent				Bird	<u>Black Rail</u>	<u><i>Laterallus jamaicensis</i></u>	I	R	A*	SE
Wetlands	emergent				Bird	<u>Black-Crowned Night-Heron</u>	<u><i>Nycticorax nycticorax</i></u>	I	R	S*	SE
Wetlands	emergent				Bird	Black-Necked Stilt	<i>Himantopus mexicanus</i>	I	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands	emergent				Bird	Cinnamon Teal	<i>Anas Cyanoptera</i>	I	R	A	
Wetlands	emergent				Bird	Common Crane	<i>Grus grus</i>	I	R	A	
Wetlands	emergent				Bird	Common Moorhen	<i>Gallinula chloropus</i>	I	R	S*	
Wetlands	emergent				Bird	Curlew Sandpiper	<i>Calidris ferruginea</i>	I	R	A	
Wetlands	emergent				Bird	Eurasian Wigeon	<i>Anas penelope</i>	I	R	A	
Wetlands	emergent				Bird	Fulvous Whistling-Duck	<i>Dendrocygna bicolor</i>	I	R	A	
Wetlands	emergent				Bird	Glossy Ibis	<i>Plegadis falcinellus</i>	I	R	A	
Wetlands	emergent				Bird	Hudsonian Godwit	<i>Limosa haemastica</i>	I	R	A	
Wetlands	emergent				Bird	<u>King Rail</u>	<i>Rallus elegans</i>	I	R	S*	SE
Wetlands	emergent				Bird	<u>Least Bittern</u>	<i>Ixobrychus exilis</i>	I	R	S*	SE
Wetlands	emergent				Bird	Little Blue Heron	<i>Egretta caerulea</i>	I	R	S*	
Wetlands	emergent				Bird	Marbled Godwit	<i>Limosa fedoa</i>	I	R	A	
Wetlands	emergent				Bird	<u>Marsh Wren</u>	<i>Cistothorus palustris</i>	I	R	S*	SE

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands	emergent				Bird	Nelson's Sharp-Tailed Sparrow	<i>Ammodramus nelsoni</i>	I	R	M	
Wetlands	emergent				Bird	Purple Gallinule	<i>Porphyrio martinica</i>	I	R	A	
Wetlands	emergent				Bird	Purple Sandpiper	<i>Calidris maritima</i>	I	R	W	
Wetlands	emergent				Bird	Red Phalarope	<i>Phalaropus fulicarius</i>	I	R	M	
Wetlands	emergent				Bird	Reddish Egret	<i>Egretta rufescens</i>	I	R	A	
Wetlands	emergent				Bird	Red-Necked Phalarope	<i>Phalaropus lobatus</i>	I	R	M	
Wetlands	emergent				Bird	Ruddy Turnstone	<i>Arenaria interpres</i>	I	R	M	
Wetlands	emergent				Bird	Ruff	<i>Philomachus pugnax</i>	I	R	A	
Wetlands	emergent				Bird	Sharp-Tailed Sandpiper	<i>Calidris acuminata</i>	I	R	A	
Wetlands	emergent				Bird	Snowy Egret	<i>Egretta thula</i>	I	R	A*	
Wetlands	emergent				Bird	Stilt Sandpiper	<i>Calidris himantopus</i>	I	R	M	
Wetlands	emergent				Bird	Tricolored Heron	<i>Egretta tricolor</i>	I	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

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Wetlands	emergent				Bird	<u>Virginia Rail</u>	<i>Rallus limicola</i>	I	R	R*	SE
Wetlands	emergent				Bird	Whimbrel	<i>Numenius phaeopus</i>	I	R	M	
Wetlands	emergent				Bird	White Ibis	<i>Eudocimus albus</i>	S	R	A	
Wetlands	emergent				Bird	White-Faced Ibis	<i>Plegadis chihi</i>	I	R	A	
Wetlands	emergent				Bird	White-Rumped Sandpiper	<i>Calidris fuscicollis</i>	I	R	M	
Wetlands	emergent				Bird	Willet	<i>Catoptrophorus semipalmatus</i>	I	R	M	
Wetlands	emergent				Bird	Wilson's Phalarope	<i>Phalaropus tricolor</i>	I	R	M(*)	
Wetlands	emergent				Bird	Wilson's Plover	<i>Charadrius wilsonia</i>	I	R	A	
Wetlands	emergent				Bird	<u>Wood Stork</u>	<i>Mycteria americana</i>	SW	R	A	FE
Wetlands	emergent				Bird	Yellow Rail	<i>Coturnicops noveboracensis</i>	I	R	M	
Wetlands	emergent				Bird	<u>Yellow-Crowned Night-Heron</u>	<i>Nyctanassa violacea</i>	SW	R	S*	SE

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	emergent				Bird	Yellow-Headed Blackbird	<i>Xanthocephalus</i> <i>xanthocephalus</i>	W, S	R	S*	SE
Wetlands	emergent				Bird	Trumpeter Swan	<i>Olor buccinator</i>				
Wetlands	emergent				Bird	Whooping Crane	<i>Grus americana</i>	N		M	SE,FE,Ex (1907)
Wetlands	emergent <i>Herbaceous</i> <i>Marsh</i>				Bird	Sedge Wren	<i>Cistothorus</i> <i>platensis</i>	I	R	S*	SE
Wetlands	emergent <i>Other</i>	<i>Potholes</i>			Bird	Canada Goose	<i>Branta canadensis</i>	I	A	R*	
Wetlands	emergent <i>Permanent</i>	<i>Forested</i>			Bird	Great Blue Heron	<i>Ardea herodias</i>	I	C	R*	
Wetlands	Ephemeral				Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Wetlands	Ephemeral				Amphibian	Cope's Gray Treefrog	<i>Hyla chrysoscelis</i>	I	A		
Wetlands	Ephemeral				Amphibian	Eastern Gray Treefrog	<i>Hyla versicolor</i>	I	A		
Wetlands	Ephemeral				Amphibian	Smallmouth Salamander	<i>Ambystoma</i> <i>texanum</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Ephemeral				Amphibian	Western Chorus Frog	<i>Pseudacris triseriata</i>	I	A		
Wetlands	Ephemeral				Amphibian	American Toad	<i>Bufo americanus</i>	N, C,SE	C		
Wetlands	Ephemeral				Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		
Wetlands	Ephemeral				Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Wetlands	Ephemeral				Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Wetlands	Ephemeral				Amphibian	Marbled Salamander	<i>Ambystoma opacum</i>	C, S	C		
Wetlands	Ephemeral				Amphibian	<u>Northern Leopard Frog</u>	<i>Rana pipiens</i>	N, E	C		SC
Wetlands	Ephemeral				Amphibian	Southern Leopard Frog	<i>Rana utricularia</i>	S, C	C		
Wetlands	Ephemeral				Amphibian	Spotted Salamander	<i>Ambystoma maculatum</i>	I	C		
Wetlands	Ephemeral				Amphibian	Spring Peeper	<i>Pseudacris crucifer</i>	I	C		
Wetlands	Ephemeral				Amphibian	Tiger Salamander	<i>Ambystoma tigrinum</i>	I	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Ephemeral				Amphibian	<u>Blue-Spotted Salamander</u>	<i>Ambystoma laterale</i>	N	O		SC
Wetlands	Ephemeral				Amphibian	<u>Crawfish Frog</u>	<i>Rana areolata</i>	W	O		ST
Wetlands	Ephemeral				Amphibian	Eastern Newt	<i>Notophthalmus viridescens</i>	I	O		
Wetlands	Ephemeral				Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Wetlands	Ephemeral				Amphibian	Jefferson's Salamander	<i>Ambystoma jeffersonianum</i>	SC	O		
Wetlands	Ephemeral				Amphibian	Lesser Siren	<i>Siren intermedia</i>	W	O		
Wetlands	Ephemeral				Amphibian	Wood Frog	<i>Rana sylvatica</i>	I	O		
Wetlands	Ephemeral	Forested			Mammal	<u>Bobcat</u>	<i>Lynx rufus</i>	I	R		SE
Wetlands	Ephemeral	Shrub/Scrub			Mammal	<u>Bobcat</u>	<i>Lynx rufus</i>	I	R		SE
Wetlands	Ephemeral				Amphibian	<u>Four-Toed Salamander</u>	<i>Hemidactylium scutatum</i>	N, C	R		ST
Wetlands	Ephemeral				Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Ephemeral				Amphibian	*Mole Salamander	<i>Ambystoma talpoideum</i>				
Wetlands	Ephemeral				Amphibian	Green Treefrog	<i>Hyla cinerea</i>				
Wetlands	Ephemeral				Mammal	Raccoon	<i>Procyon lotor</i>	I	A		
Wetlands	Ephemeral <i>(no sub-level habitat included on rep. species list)</i>				Mammal	<u>Star-Nosed Mole</u>	<u>Condylura cristata</u>	NE	R		SC
Wetlands	forested				Bird	Wood Duck	<i>Aix sponsa</i>	I	C	R*	
Wetlands	forested Ephemeral	<i>Forested</i>			Bird	Great Blue Heron	<i>Ardea herodias</i>	I	C	R*	
Wetlands	forested Ephemeral	Forested			Bird	Yellow-Throated Warbler	<i>Dendroica dominica</i>	I	O	S*	
Wetlands	Herbaceous Marsh				Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Wetlands	Herbaceous Marsh				Amphibian	Cope's Gray Treefrog	<i>Hyla chrysoscelis</i>	I	A		
Wetlands	Herbaceous Marsh				Amphibian	Eastern Gray Treefrog	<i>Hyla versicolor</i>	I	A		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Herbaceous Marsh				Amphibian	Western Chorus Frog	<i>Pseudacris triseriata</i>	I	A		
Wetlands	Herbaceous Marsh				Amphibian	American Toad	<i>Bufo americanus</i>	N, C, SE	C		
Wetlands	Herbaceous Marsh				Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		
Wetlands	Herbaceous Marsh				Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Wetlands	Herbaceous Marsh				Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Wetlands	Herbaceous Marsh				Amphibian	Southern Leopard Frog	<i>Rana utricularia</i>	S, C	C		
Wetlands	Herbaceous Marsh				Amphibian	Spring Peeper	<i>Pseudacris crucifer</i>	I	C		
Wetlands	Herbaceous Marsh				Amphibian	<u>Northern Leopard Frog</u>	<i>Rana pipiens</i>	N, E	C		F
Wetlands	Herbaceous Marsh				Amphibian	<u>Crawfish Frog</u>	<i>Rana areolata</i>	W	O		ST
Wetlands	Herbaceous Marsh				Amphibian	Eastern Newt	<i>Notophthalmus viridescens</i>	I	O		
Wetlands	Herbaceous Marsh				Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Wetlands	Herbaceous Marsh				Amphibian	Lesser Siren	<i>Siren intermedia</i>	W	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Herbaceous Marsh				Amphibian	Wood Frog	<i>Rana sylvatica</i>	I	O		
Wetlands	Herbaceous Marsh				Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC
Wetlands	Herbaceous Marsh				Amphibian	*Mole Salamander	<i>Ambystoma talpoideum</i>				
Wetlands	Herbaceous Marsh				Amphibian	Green Treefrog	<i>Hyla cinerea</i>				
<i>Wetlands</i>	<i>Herbaceous Marsh</i>				<i>Bird</i>	<i>Common Yellowthroat</i>	<i>Geothlypis trichas</i>	<i>I</i>	<i>C</i>	<i>S*</i>	
Wetlands	Herbaceous Marsh	native			Mammal	Southeastern Shrew	<i>Sorex longirostris</i>	SC	O		
Wetlands	Herbaceous Marsh <i>(no sub-level habitat included on rep. species list)</i>				Mammal	Muskrat	<i>Ondatra zibethicus</i>	I	A		
Wetlands	Herbaceous Marsh				Mammal	Mink	<i>Mustela vison</i>	I	O		
Wetlands	Herbaceous Marsh				Mammal	<u>River Otter</u>	<u><i>Lutra canadensis</i></u>	I	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Herbaceous Marsh				Mammal	<u>Star-Nosed Mole</u>	<i>Condylura cristata</i>	NE	R		SC
Wetlands	Herbaceous Marsh				Reptile	Banded Water Snake	<i>Nerodia sipedon</i>	I	A		
Wetlands	Herbaceous Marsh				Reptile	<u>Blanding's Turtle</u>	<i>Emydoidea blandingii</i>	N	O		SC
Wetlands	Herbaceous Marsh				Reptile	Eastern Ribbon Snake	<i>Thamnophis sauritus</i>	I	O		
Wetlands	Herbaceous Marsh				Reptile	<u>Copperbelly Water Snake</u>	<i>Nerodia erythrogaster</i>	SW, NE, SC	O		ST, FC
Wetlands	Herbaceous Marsh				Reptile	Plains Garter Snake	<i>Thamnophis radix</i>	NW	O		
Wetlands	Herbaceous Marsh				Reptile	<u>Spotted Turtle</u>	<i>Clemmys guttata</i>	N	O		ST
Wetlands	Herbaceous Marsh				Reptile	<u>Western Ribbon Snake</u>	<i>Thamnophis proximus</i>	NW, SW	O		SC
Wetlands	Herbaceous Marsh				Reptile	<u>Butler's Garter Snake</u>	<i>Thamnophis butleri</i>	NE, C	R		ST
Wetlands	Herbaceous Marsh				Reptile	<u>Cottonmouth</u>	<i>Agkistrodon piscivorus</i>	S	R		ST
Wetlands	Herbaceous Marsh				Reptile	<u>Eastern Massasauga</u>	<i>Sistrurus catenatus</i>	N	R		ST, FC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Mudflats <i>Other</i>	<i>Mudflats</i>			Bird	Killdeer	<i>Charadrius vociferus</i>	I	C	R*	
Wetlands	Mudflats				Bird	American Golden-Plover	<i>Pluvialis dominica</i>	I	O	M	
Wetlands	Mudflats				Bird	Black-Bellied Plover	<i>Pluvialis squatarola</i>	I	O	M	
Wetlands	Mudflats				Bird	Dunlin	<i>Calidris alpina</i>	I	O	M	
Wetlands	Mudflats				Bird	Greater Yellowlegs	<i>Tringa melanoleuca</i>	I	O	M	
Wetlands	Mudflats				Bird	Lesser Yellowlegs	<i>Tringa flavipes</i>	I	O	M	
Wetlands	Mudflats				Bird	Long-Billed Dowitcher	<i>Limnodromus scolopaceus</i>	I	O	M	
Wetlands	Mudflats				Bird	Pectoral Sandpiper	<i>Calidris melanotos</i>	I	O	M	
Wetlands	Mudflats				Bird	Semipalmated Plover	<i>Charadrius semipalmatus</i>	I	O	M	
Wetlands	Mudflats				Bird	Semipalmated Sandpiper	<i>Calidris pusilla</i>	I	O	M	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Mudflats				Bird	Short-Billed Dowitcher	<i>Limnodromus griseus</i>	I	O	M	
Wetlands	Mudflats				Bird	Solitary Sandpiper	<i>Tringa solitaria</i>	I	O	M	
Wetlands	Mudflats				Bird	Spotted Sandpiper	<i>Actitis macularia</i>	I	O	S*	
Wetlands	Mudflats				Bird	Western Sandpiper	<i>Calidris mauri</i>	I	O	M	
Wetlands	Mudflats				Bird	Wilson's Snipe	<i>Gallinago delicata</i>	I	O	R*	
Wetlands	Mudflats <i>Other</i>	<i>Mudflats</i>			Bird	Least Sandpiper	<i>Calidris minutilla</i>	I	O	M	
Wetlands	Mudflats				Bird	American Avocet	<i>Recurvirostra americana</i>	I	R	M(*)	
Wetlands	Mudflats				Bird	Baird's Sandpiper	<i>Calidris bairdii</i>	I	R	M	
Wetlands	Mudflats				Bird	Black-Necked Stilt	<i>Himantopus mexicanus</i>	I	R	A	
Wetlands	Mudflats				Bird	Buff-Breasted Sandpiper	<i>Tryngites subruficollis</i>	I	R	M	
Wetlands	Mudflats				Bird	Curlew Sandpiper	<i>Calidris ferruginea</i>	I	R	A	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Mudflats				Bird	Purple Sandpiper	<i>Calidris maritima</i>	I	R	W	
Wetlands	Mudflats				Bird	Ruff	<i>Philomachus pugnax</i>	I	R	A	
Wetlands	Mudflats				Bird	Sharp-Tailed Sandpiper	<i>Calidris acuminata</i>	I	R	A	
Wetlands	Mudflats				Bird	Stilt Sandpiper	<i>Calidris himantopus</i>	I	R	M	
Wetlands	Mudflats				Bird	White-Rumped Sandpiper	<i>Calidris fuscicollis</i>	I	R	M	
Wetlands	Mudflats				Bird	Willet	<i>Catoptrophorus semipalmatus</i>	I	R	M	
Wetlands	Mudflats				Bird	Wilson's Plover	<i>Charadrius wilsonia</i>	I	R	A	
<i>Wetlands</i>	<i>Other</i>	<i>Potholes</i>			<i>Bird</i>	<i>Mallard</i>	<i>Anas platyrhynchos</i>	<i>I</i>	<i>C</i>	<i>R*</i>	
<i>Wetlands</i>	<i>Permanent</i>	<i>Emergent</i>			<i>Bird</i>	<i>Common Yellowthroat</i>	<i>Geothlypis trichas</i>	<i>I</i>	<i>C</i>	<i>S*</i>	
<i>Wetlands</i>	<i>Permanent</i>	<i>Emergent</i>			<i>Bird</i>	<i>Mallard</i>	<i>Anas platyrhynchos</i>	<i>I</i>	<i>C</i>	<i>R*</i>	

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Permanent	Emergent			Bird	Sora	<i>Porzana carolina</i>	I	O	S*	
Wetlands	Permanent	Forested			Bird	Yellow-Throated Warbler	<i>Dendroica dominica</i>	I	O	S*	
Wetlands	Permanent	Forested			Mammal	Bobcat	<i>Lynx rufus</i>	I	R		SE
Wetlands	Permanent	Shrub/Scrub			Bird	Green Heron	<i>Butorides virescens</i>	I	C	S*	
Wetlands	Permanent	Shrub/Scrub			Bird	Willow Flycatcher	<i>Empidonax traillii</i>	I	O	S*	
Wetlands	Permanent	Shrub/Scrub			Mammal	Bobcat	<i>Lynx rufus</i>	I	R		SE
Wetlands	Permanent				Amphibian	Bullfrog	<i>Rana catesbeiana</i>	I	A		
Wetlands	Permanent				Amphibian	Cope's Gray Treefrog	<i>Hyla chrysoscelis</i>	I	A		
Wetlands	Permanent				Amphibian	Eastern Gray Treefrog	<i>Hyla versicolor</i>	I	A		
Wetlands	Permanent				Amphibian	Western Chorus Frog	<i>Pseudacris triseriata</i>	I	A		
Wetlands	Permanent				Amphibian	American Toad	<i>Bufo americanus</i>	N, C,SE	C		
Wetlands	Permanent				Amphibian	Cricket Frog	<i>Acris crepitans</i>	I	C		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Permanent				Amphibian	Fowler's Toad	<i>Bufo fowleri</i>	I	C		
Wetlands	Permanent				Amphibian	Green Frog	<i>Rana clamitans</i>	I	C		
Wetlands	Permanent				Amphibian	<u>Northern Leopard Frog</u>	<i>Rana pipiens</i>	N, E	C		SC
Wetlands	Permanent				Amphibian	Southern Leopard Frog	<i>Rana utricularia</i>	S, C	C		
Wetlands	Permanent				Amphibian	Spring Peeper	<i>Pseudacris crucifer</i>	I	C		
Wetlands	Permanent				Amphibian	Eastern Newt	<i>Notophthalmus viridescens</i>	I	O		
Wetlands	Permanent				Amphibian	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	S	O		
Wetlands	Permanent				Amphibian	Lesser Siren	<i>Siren intermedia</i>	W	O		
Wetlands	Permanent				Amphibian	Wood Frog	<i>Rana sylvatica</i>	I	O		
Wetlands	Permanent				Amphibian	<u>Four-Toed Salamander</u>	<i>Hemidactylum scutatum</i>	N, C	R		ST
Wetlands	Permanent				Amphibian	<u>Plains Leopard Frog</u>	<i>Rana blairi</i>	W	R		SC

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type</u> <u>Level I</u>	<u>Habitat Type</u> <u>Level II</u>	<u>Habitat Type</u> <u>Level III</u>	<u>Habitat Type</u> <u>Level IV</u>	<u>Habitat Type</u> <u>Level V</u>	<u>Species</u> <u>Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative</u> <u>Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Permanent				Amphibian	*Mole Salamander	<i>Ambystoma talpoideum</i>				
Wetlands	Permanent				Amphibian	Green Treefrog	<i>Hyla cinerea</i>				
Wetlands	Permanent				Mammal	Muskrat	<i>Ondatra zibethicus</i>	I	A		
Wetlands	Permanent				Mammal	Mink	<i>Mustela vison</i>	I	O		
Wetlands	Permanent				Mammal	<u>River Otter</u>	<i>Lutra canadensis</i>	I	R		SC
Wetlands	Permanent				Mammal	<u>Star-Nosed Mole</u>	<i>Condylura cristata</i>	NE	R		SC
Wetlands	Permanent				Mammal	<u>Swamp Rabbit</u>	<i>Sylvilagus aquaticus</i>	SW	R		SE
Wetlands	Permanent				Reptile	Banded Water Snake	<i>Nerodia sipedon</i>	I	A		
Wetlands	Permanent				Reptile	Painted Turtle	<i>Chrysemys picta</i>	I	A		
Wetlands	Permanent				Reptile	<u>Blanding's Turtle</u>	<i>Emydoidea blandingii</i>	N	O		SC
Wetlands	Permanent				Reptile	Diamondback Water Snake	<i>Nerodia rhombifer</i>	SW	O		

Appendix C: Guilds by Habitat and Sub-habitat

<u>Habitat Type Level I</u>	<u>Habitat Type Level II</u>	<u>Habitat Type Level III</u>	<u>Habitat Type Level IV</u>	<u>Habitat Type Level V</u>	<u>Species Group</u>	<u>Species</u>	<u>Scientific Name</u>	<u>Range</u>	<u>Relative Abundance</u>	<u>Season</u>	<u>Status</u>
Wetlands	Permanent				Reptile	<u>Copperbelly Water Snake</u>	<i>Nerodia erythrogaster</i>	SW, NE, SC	O		ST, FC
Wetlands	Permanent				Reptile	<u>Cottonmouth</u>	<i>Agkistrodon piscivorus</i>	S	R		ST
Wetlands	Permanent				Reptile	<u>Eastern Massasauga</u>	<i>Sistrurus catenatus</i>	N	R		ST, FC
<i>Wetlands</i>	<i>Permanent</i>				<i>Reptile</i>	<i><u>Copperbelly Water Snake</u></i>	<i><u>Nerodia erythrogaster</u></i>	<i>SW, NE, SC</i>	<i>O</i>		<i>ST, FC</i>
Wetlands	Shrub/Scrub				Bird	Alder Flycatcher	<i>Empidonax alnorum</i>	N	R	S*	
Wetlands	Shrub/Scrub				Bird	<u>Golden-Winged Warbler</u>	<i>Verminvora chrysoptera</i>	I	R	S*	SE
Wetlands	Shrub/Scrub Ephemeral	<i>Shrub/Scrub</i>			Bird	Green Heron	<i>Butorides virescens</i>	I	C	S*	
Wetlands	Shrub/Scrub Ephemeral	<i>Shrub/Scrub</i>			Bird	Willow Flycatcher	<i>Empidonax traillii</i>	I	O	S*	