

APPENDIX 19. SGCN grouped by major cover types/habitat classes

Table 19-1. Habitat Preferences of SGCN - Forest Habitat

Forest-Associated SGCN		
Group	Common Name	Comments
Amphibians		
1	Blue-spotted Salamander	Shallow, fish-free, woodland ponds for breeding
2	Smallmouth Salamander	Woodland pools
3	Tiger Salamander	Generalist
4	Eastern Newt	Well vegetated woodland pools
5	Fowler's Toad	Woodlands, open areas near woodland edge
6	Woodhouse's Toad	Loess Hills woodlands
7	Eastern Gray Treefrog	Forests and woodlands, especially along river valleys
Reptiles		
1	Wood Turtle	Floodplain forests, rivers
2	Common Five-lined Skink	Deciduous forests along bluffs of Mississippi River
3	Western Worm Snake	Forests and woodlands near rivers and streams
4	(Prairie) Ringneck Snake	Deciduous woodlands and adjacent prairies
5	Eastern Hognose Snake	Oak savannas, woodlands, grasslands, bluff prairies
6	Plainbelly (Copperbelly) Water Snake	Mississippi River and associated backwaters and wet woodland
7	Western Rat Snake	Forested riparian areas, arboreal
8	Smooth Earth Snake	Moist woods, riparian areas
9	Timber Rattlesnake	Deciduous forest with limestone outcrops
10	Copperhead	Rocky forested hillsides, river valleys
Birds		
1	Ruffed Grouse	Prefers large forests or woodlands containing areas of high stem density
2	Bald Eagle	Prefers riparian forest
3	Red-shouldered Hawk	Prefers riparian forest
4	Broad-winged Hawk	Large contiguous forest
5	American Woodcock	Prefers moist brushy woodlands w/openings
6	Yellow-billed Cuckoo	Prefers woodland thickets w/4' to 8' shrubs
7	Black-billed Cuckoo	Prefers woodland thickets w/2' to 6' shrubs
8	Eastern Screech-owl	Forests, woodlands
9	Long-eared Owl	Deciduous woodlands, savannas, edges
10	Chuck-will's-widow	Oak hickory woodlands, mixed deciduous woodlands
11	Whip-poor-will	Prefers un-grazed forest w/open understory
12	Red-headed Woodpecker	Open woodlands, savanna

Forest-Associated SGCN		
Group	Common Name	Comments
13	Northern Flicker	Open woodlands
14	American Kestrel	Open woodlands
15	Peregrine Falcon	Nests in rocky cliffs along major rivers
16	Eastern Wood-pewee	Forest and woodlands
17	Olive-sided Flycatcher (NB)	Feeds along forest openings and edges
18	Acadian Flycatcher	Prefers riparian areas of large, mature, un-fragmented forests
19	Veery	Prefers moist forests w/low tree & shrub understory
20	Wood Thrush	Prefers mature, moist forest w/closed canopy
21	Bohemian Waxwing (NB)	Coniferous or mixed forest
22	Worm-eating Warbler	Prefers large, un-fragmented forests w/shrub understory
23	Golden-winged Warbler	Prefers woodland openings w/brush and grass
24	Bay-breasted Warbler (NB)	Forests, woodlands
25	Canada Warbler (NB)	Prefers mature forest w/shrubby undergrowth
26	Prothonotary Warbler	Prefers swampy, mature riparian forest
27	Kentucky Warbler	Prefers riparian, ravine areas within forest understory
28	Cerulean Warbler	Prefers large, mature, un-fragmented forest
29	White-winged Crossbill (NB)	Dependent upon coniferous forest
Butterflies		
1	Pipevine Swallowtail	Old growth woodlands, SE corner of Iowa
2	Zebra Swallowtail	Mesic lowland forests. PawPaw is larval host
3	Spicebush Swallowtail	Preferred larval hostplant Spicebush, also prickly ash and sassafras
4	Harvester	Woodlands. Associated with woolly aphid colonies, which feed on alder.
5	Hickory Hairstreak	Oak hickory woodlands. Shagbark hickory is larval hostplant.
6	White M Hairstreak	Deciduous open woodlands, savannas. Oak is larval hostplant
7	Ozark Baltimore Checkerspot	Open, dry woodlands in far southeast Iowa
8	Compton Tortoiseshell	Large areas of mature forest in far Northeastern Iowa
9	Hayhurst's Scallopwing	Wooded groves, Loess Hills woodland, floodplain forest
10	Juvenal's Duskywing	Oak woodlands, oaks are larval hostplant
11	Columbine Duskywing	Rocky wooded ravines
Mammals		
1	Elliot's Short-tailed Shrew	Forests, woodlands, savannas, grasslands
2	Southern Short-tailed Shrew	Forests, shrublands, grasslands, wetlands
3	Northern Long-eared Bat	Forests and woodlands, forage in forest understory, roost in live or dead trees in

Forest-Associated SGCN		
Group	Common Name	Comments
		summer
4	Indiana Bat	Forage along forested riparian areas. Summer roosts in trees behind loose peeling bark.
5	Silver-haired Bat	Forage in woodland clearings and edges or along riparian areas. Roost in live or dead trees.
6	Eastern Pipistrelle	Forage along riparian areas and forest edges. Summer roosts in live trees or structures.
7	Evening Bat	Forage along forested riparian areas and forest edges. Summer roosts in trees or structures.
8	Southern Flying Squirrel	Mature oak-hickory forests, woodlands with snags
9	Woodland Vole	Deciduous forest with leaf litter
10	Gray Fox	Moderate to mature, diverse mixed forest
11	Spotted Skunk	Woodland, savanna, grassland
12	Ermine	Wooded river valleys
Terrestrial Snails		
1	Iowa Pleistocene Snail	Algific slopes
2	Minnesota Pleistocene Succinea	Moderate cliffs
3	Iowa Pleistocene Succinea	Moderate cliffs
4	Hubricht's Vertigo	Algific slopes
5	Bluff Vertigo	Limestone and dolomite cliffs and outcrops

SGCN Associated with Specific Forest Habitats

Table 19-1-A. Cliff and Algific Talus Slopes

SGCN Associated with Moderate Cliffs and Algific Talus Slopes		
Group	Common Name	Comments
Terrestrial Snails		
1	Iowa Pleistocene Snail	Algific slopes
2	Minnesota Pleistocene Succinea	Moderate cliffs
3	Iowa Pleistocene Succinea	Moderate cliffs
4	Hubricht's Vertigo	Algific slopes
5	Bluff Vertigo	Limestone and dolomite cliffs and outcrops

Table 19-1-B. Open Woodland and Savannah – areas of relatively less dense canopy cover (canopy cover ranging from ~25% in savanna, up to ~60% for open woodland)

SGCN Associated with Open Woodlands and Savannas		
Group	Common Name	Comments
Amphibians		
1	Cope's Gray Treefrog	Near wetlands in oak savannas, woodland edges, and grasslands
Reptiles		
1	Ornate Box Turtle	Savannas with sandy soil, sand prairies
2	Slender Glass Lizard	Savannas with sandy or loose soil
3	Common Five-lined Skink	Rocky woodland openings, bluff prairies within woodlands
4	Six-lined Racerunner	Sand prairie, bluff prairie, Loess Hills prairie, savanna
5	(Prairie) Ringneck Snake	Bluff prairies and adjacent deciduous woodlands, grassland/woodland edges.
6	Eastern Hognose Snake	Oak savannas, woodlands, grasslands, bluff prairies
7	Prairie Kingsnake	Oak savannas, sand prairies, woodland edges
8	Speckled Kingsnake	Oak savannas, grasslands, and woodlands
9	Smooth Green Snake	Oak savannas, grasslands
10	Gopher (Bull) Snake	Oak savannas, sand prairie, bluff prairie
11	Graham's Crayfish Snake	Wetlands or creeks within woodlands, sandy soils with abundant crayfish.
12	(Northern) Redbelly Snake	Grassland/woodland edges, dry sandy areas, near water sources
13	Timber Rattlesnake	Steep bluffs, goat prairie, oak savannas, oak-hickory woodlands
Birds		
1	Swainson's Hawk	Prefers savanna over woodland
2	Ruffed Grouse	Prefers large forests or woodlands containing areas of high stem density
3	American Woodcock	Moist brushy woodlands
4	Black-billed Cuckoo	Woodland thickets w/2'-6' shrubs
5	Yellow-billed Cuckoo	Prefers woodland thickets w/4' to 8' shrubs
6	Barn Owl	Prefers savanna over woodland
7	Long-eared Owl	Prefers areas of woodland-grassland interface
8	Chuck-will's-widow	Oak hickory woodlands, mixed deciduous woodlands
9	Eastern Whip-poor-will	Open woodlands, forests with open understory
10	Red-headed Woodpecker	Oak savannas preferred
11	Northern Flicker	Open woodlands, grassland/woodland edges
12	Eastern Kingbird	Grassland/woodland edges
13	Loggerhead Shrike	Thorny shrubs/trees in savanna/grasslands
14	Bell's Vireo	Thickets in savanna/grasslands
15	Bewick's Wren	Open woodlands, shrublands

SGCN Associated with Open Woodlands and Savannas		
Group	Common Name	Comments
16	Golden-winged Warbler	Prefers woodland openings with understory vegetation
17	Eastern Meadowlark	Prefers savanna over open grasslands
18	Baltimore Oriole	Open woodlands, woodland edges, parks
Butterflies		
1	Zebra Swallowtail	Riparian areas
2	Harvester	Woodlands, associated with wooly aphid colonies, which feed on alders
3	Edward's Hairstreak	Savannas, forest edge or clearings
4	Hickory Hairstreak	Oak-hickory woodlands. Shagbark hickory is larval hostplant.
5	Striped Hairstreak	Margins of woodlands - openings and edges of bedrock glades
6	White M Hairstreak	Oak savannas and woodlands, oaks are larval hostplants
7	Henry's Elfin	Open woodlands with redbud trees
8	Silvery Blue	Open, dry woodlands, and prairies
9	Ozark Baltimore Checkerspot	Open, dry woodlands in far southeast Iowa
10	Southern Cloudywing	Limestone and sandstone glades, sand prairies, Loess Hills prairies
11	Hayhurst's Scallopwing	Wooded groves near sand prairie
12	Dreamy Duskywing	Savanna, scrubland, far Northeast Iowa only
13	Sleepy Duskywing	Oak savanna or woodlands adjacent to dry prairie
14	Juvenal's Duskywing	Oak woodlands, oaks are larval hostplant
15	Columbine Duskywing	Limestone and sandstone glades
16	Northern Broken-dash	Grasslands near woodland edges, generalist
17	Pepper and Salt Skipper	Woodland edges, forest openings
Mammals		
1	Elliot's Short-tailed Shrew	Forests, woodlands, savannas and grasslands
2	Northern Long-eared Bat	Forests and woodlands, forage in forest understory, roost in live or dead trees in summer
3	Franklin's Ground Squirrel	Savannas and prairies
4	Spotted Skunk	Grasslands, savannas, woodlands

Table 19-1-C. Woodland Pools

SGCN Associated with Woodland Pools		
Group	Common Name	Comments
Amphibians		
1	Central Newt	Vicinity of woodland pools
2	Tiger Salamander	Generalist
3	Blue-spotted Salamander	Vicinity of woodland pools
4	Smallmouth Salamander	Vicinity of woodland pools

Table 19-2. Habitat Preferences of SGCN - Shrubland Habitat Class

Group	Common Name	Comments
Amphibians		
1	Tiger Salamander	Generalist
Reptiles		
1	Northern Prairie Skink	Open shrubland
2	Smooth Green Snake	Open shrubland
3	Eastern Massasauga Rattlesnake	Spring and fall
Birds		
1	Black-crowned Night Heron	Wetlands ringed with shrubs
2	Northern Bobwhite	Combination of grassland, brush, open woods
3	Sharp-tailed Grouse	Prefer grassland w/some shrubs
4	Yellow-billed Cuckoo	Woodland thickets, 4' to 8' shrubs
5	Black-billed Cuckoo	Woodland thickets, esp. riparian
6	Eastern Kingbird	Edges of open areas
7	Loggerhead Shrike	Thorny shrublands of open country or savanna
8	Bell's Vireo	Prefers brushy, tangled habitat often in savannas
9	Bewick's Wren	Shrublands preferred near woodland
10	Brown Thrasher	Thickets, areas of dense undergrowth
11	Golden-winged Warbler	Shrubby grassland/woodland
12	Field Sparrow	Favors brushy successional habitat, old fields
13	American Tree Sparrow (NB)	In winter - hedgerows, fields, yards
14	Harris's Sparrow (NB)	Winters in hedgerows, pastures, shelterbelts
Mammals		
1	Least Shrew	Riparian areas
2	Franklin's Ground Squirrel	Open areas near shrubland edges, fencerows, railroad rights-of-way.

Table 19-3. Habitat Preferences of SGCN - Grassland Habitat

Grassland-Associated SGCN		
Group	Common Name	Comments
Amphibians		
1	Tiger Salamander	Generalist
2	Great Plains Toad	Grasslands, prairies, farm fields, in vicinity of water
3	Fowler's Toad	Woodland edge, sandy areas
4	Woodhouse's Toad	Woodland edge, Loess Hills
5	Cope's Gray Treefrog	Grasslands, savannas, woodland edges near wetlands
6	Crawfish Frog	Vicinity of prairie marshes, pastures, prairies
7	Northern Leopard Frog	Grasslands, wet meadows during non-breeding season
8	Plains Spadefoot	Burrows in prairie (outside breeding season)
Reptiles		
1	Ornate Box Turtle	Sand prairie
2	Yellow Mud Turtle	Ephemeral wetlands in sand prairie
3	Slender Glass Lizard	Prairie with sandy or loose soil
4	Great Plains Skink	Rocky mixed and short grass prairie; prairie-forest edge
5	Northern Prairie Skink	Prairie-forest edge
6	Six-lined Racerunner	Sand prairie
7	(Prairie) Ringneck Snake	Bluff prairies, woodlands
8	Western Hognose Snake	Sand prairie
9	Eastern Hognose Snake	Grasslands, savannas, woodlands
10	Prairie Kingsnake	High quality prairie to oldfield
11	Speckled Kingsnake	Native prairie to oldfield
12	Smooth Green Snake	Wet prairie; oldfield
13	Western Rat Snake	Grasslands during summer near wooded valleys
14	Western Fox Snake	Generalist, grasslands, wetlands, wooded valleys
15	Gopher (Bull) Snake	Sand prairie, bluff prairie, tallgrass prairie, oak savanna, pasture
16	Redbelly Snake	Grasslands & woodland edges, near water sources
17	Plains Garter Snake	Generalist, including grasslands
18	Lined Snake	Grasslands, pastures, woodland edge
19	Eastern Massasauga Rattlesnake	Wet prairie, upland grassland adjacent to wetland
20	Timber Rattlesnake	Hill prairie
21	Prairie Rattlesnake	Mixed and short grass prairie
Birds		
1	Northern Pintail	Nests in grassland
2	Northern Bobwhite	Prefers medium ht. grasslands w/shrubs & forbs
3	Sharp-tailed Grouse (Ex)	Open prairie w/patches of trees or shrubs
4	Greater Prairie-Chicken	Prefers large grassland tracts +2,000 acres
5	Northern Harrier	Prefers large grassland tracts +100 acres

Grassland-Associated SGCN		
Group	Common Name	Comments
6	Swainson's Hawk	Open grasslands, pastures, crop fields
7	Yellow Rail (NB)	Wet meadows & fens w/sedges
8	Whooping Crane (NB)	Prefers large wetland complexes w/grasslands adjacent
9	Upland Sandpiper	Prefers short-to-medium ht. grasslands w/forbs.
10	Long-billed Curlew (NB)	Short, sparse grasslands
11	Pectoral Sandpiper (NB)	Uses wet grasslands, mudflats, and shorelines during migration
12	Buff-breasted Sandpiper (NB)	Uses short grasslands during migration
13	Wilson's Phalarope	Shallow marshes w/upland grass & forbs
14	Burrowing Owl	Prefers short height grasslands
15	Long-eared Owl	Forage in grasslands, also use mixed conifer/deciduous woodlands
16	Short-eared Owl	Prefers large grassland tracts +200 acres
17	Common Nighthawk	Grasslands w/bare areas for nesting
18	Northern Flicker	Open areas near woodland edges, yards, parks
19	American Kestrel	Open areas, woodland edge
20	Horned Lark	Sparse grasslands, agricultural fields
21	Purple Martin	Forage in open areas
22	Sedge Wren	Prefers tall grass infrequently disturbed
23	Sprague's Pipit (NB)	Open grasslands
24	Smith's Longspur (NB)	Winters in short grasslands
25	Common Yellowthroat	Grasslands, wet meadows, marshes
26	Field Sparrow	Prefers old grassland fields w/shrubs
27	Grasshopper Sparrow	Prefers short grass w/forbs
28	Henslow's Sparrow	Prefers tall grass and infrequent disturbance; weedy
29	Le Conte's Sparrow (NB)	Prefers grassy meadows; marsh edges
30	Harris's Sparrow (NB)	Winters in pastures, hedgerows
31	Dickcissel	Prefers medium high grass w/sparse forbs
32	Bobolink	Prefers medium height grass w/forbs
33	Eastern Meadowlark	Prefers trees in grass landscape
34	Western Meadowlark	Grasslands, meadows, pastures
Butterflies		
1	Olympia Marble	Prairies and grasslands
2	Reakirt's Blue	Native prairie
3	Silvery Blue	Open areas near woodlands, open woodlands
4	Melissa Blue	Prairies and grasslands
5	Aphrodite Fritillary	Native prairies, marshes and fens
6	Regal Fritillary	Prairie and open grasslands
7	Silver-bordered Fritillary	Wet meadows, wetlands
8	Gorgone Checkerspot	Xeric prairies
9	Common Ringlet	Prairies and open grassy areas
10	Eyed Brown	Wet meadows and wetlands

Grassland-Associated SGCN		
Group	Common Name	Comments
11	Monarch	Open areas and edges, where nectar is abundant
12	Southern Cloudywing	Open grasslands and woodland openings
13	Mottled Duskywing	Xeric prairie in Loess Hills, gravel ridges
14	Poweshiek Skipper	High quality prairie
15	Ottoo Skipper	Tallgrass prairie
16	Leonard's Skipper	Open grassy areas
17	Dakota Skipper	Tallgrass prairie
18	Crossline Skipper	Dry prairie, bluff prairie
19	Long Dash	Grasslands, wetland edges, roadsides
20	Northern Broken-dash	Grasslands, woodland edges, roadsides
21	Little Glassywing	Open fields, woodland edges
22	Arogos Skipper	Prairies and sand prairies
23	Byssus Skipper	Tallgrass prairie
24	Dusted Skipper	Bluestem grasslands and oldfields
25	Pepper and Salt Skipper	Grasslands, grassland/woodland edges
26	Common Roadside-Skipper	Xeric prairie
Crayfish		
1	Prairie Crayfish	Grasslands and prairies with poorly drained soils
Mammals		
1	Hayden's Shrew	Grasslands, wet meadows, riparian areas, wetlands
2	Elliot's Short-tailed Shrew	Forest, woodland, savanna, grassland
3	Least Shrew	Woodlands, savannas, grasslands, riparian areas
4	White-tailed Jackrabbit	Short grasslands
5	Franklin's Ground Squirrel	Tallgrass prairie, savanna and roadsides
6	Plains Pocket Mouse	Sand and Loess Hills prairies
7	Plains Pocket Gopher	Open grasslands, well drained soils
8	Southern Bog Lemming	Moist grasslands and pastures, wetland margins
9	Long-tailed Weasel	Generalist
10	Least Weasel	Grassland
11	Spotted Skunk	Grassland, savanna, forest, and farmsteads

SGCN Associated with Specific Grassland Habitats

Table 19-3-A. Goat and Bluff Prairies

SGCN Associated with Goat and Bluff Prairies		
Group	Common Name	Comments
Reptiles		
1	Common Five-lined Skink	Rocky woodland openings, bluff prairies within woodlands
2	Six-lined Racerunner	Sand prairie, bluff prairie, Loess Hills prairie, savanna

SGCN Associated with Goat and Bluff Prairies		
Group	Common Name	Comments
3	(Prairie) Ringneck Snake	Bluff prairies, adjacent woodlands
4	Eastern Hognose Snake	Oak savannas, woodlands, grasslands, bluff prairies
5	(Bull) Gopher Snake	Sand prairie, bluff prairie, tallgrass prairie, oak savanna, pasture
6	Timber Rattlesnake	Bluff prairies
Butterflies		
1	Olympia Marble	Prairies and grasslands
2	Edward's Hairstreak	Woodland clearings
3	Striped Hairstreak	Margins of woodlands - openings and edges of bedrock glades
4	Silvery Blue	Open areas near woodlands, open woodlands
5	Sleepy Duskywing	Dry prairie openings in oak woodlands
6	Columbine Duskywing	Limestone and sandstone glades
7	Ottoo Skipper	Dry prairies in Loess Hills and in NE in limestone and sandstone glades
8	Leonard's Skipper	Dry prairies in Loess Hills, in NE limestone glades
9	Crossline Skipper	Dry prairie, bluff prairie
10	Dusted Skipper	Dry prairie in Loess Hills, in NE limestone and sandstone glades
11	Common Roadside Skipper	Dry prairie

Table 19-3-B. Sand Prairies

SGCN Associated with Sand Prairies		
Group	Common Name	Comments
Reptiles		
1	Ornate Box Turtle	Sand prairies
2	Yellow Mud Turtle	Ephemeral wetlands in sand prairie
3	Slender Glass Lizard	Prairie with sandy or loose soil
4	Six-lined Racerunner	Sand prairie, bluff prairie, Loess Hills prairie, savanna
5	Western Hognose Snake	Shortgrass prairies with sandy soils
6	(Prairie) Kingsnake	Sand prairies, grasslands
7	(Bull) Gopher Snake	Sand prairie, bluff prairie, tallgrass prairie, oak savanna, pasture
Mammals		
1	Plains Pocket Mouse	Sand and Loess Hills prairies

Table 19-4. Habitat Preferences of SGCN - Wetlands Habitat

Wetland-Associated SGCN		
Group	Common name	Comments
Amphibians		
1	Smallmouth Salamander	Near woodlands
2	Tiger Salamander	Generalist
3	Eastern Newt	Well vegetated near woodland
4	Blanchard's Cricket Frog	Generalist (but near permanent water source)
5	Crawfish Frog	With abundant crayfish burrows
6	Plains Spadefoot	Ephemeral pools for breeding
7	Northern Leopard Frog	Use wetlands, prairies, and forests
8	Southern Leopard Frog	Use wetlands, ponds, backwaters, impoundments
Reptiles		
1	Snapping Turtle	Generalist in permanent water sources
2	Blanding's Turtle	Shallow, vegetated wetlands and ponds with mud bottoms
3	Yellow Mud Turtle	Ephemeral with sandy soil
4	Eastern Musk Turtle	Oxbows, backwaters, wetlands, ponds that are permanent, mud bottom, near Mississippi River
5	Northern Prairie Skink	Wetland edge
6	Plainbelly Water Snake	Backwaters, woodland ponds, in and near Miss. River
7	Diamondback Water Snake	Well-vegetated rivers, oxbows, backwaters, ponds
8	Common Water Snake	Ponds, wetlands, backwaters, and lakes
9	Smooth Green Snake	Wetland edge
10	Western Fox Snake	Wetland edge
11	Graham's Crayfish Snake	Ponds, wetlands, floodplains, creeks, sandy bottoms, with abundant crayfish burrows
12	Western Ribbon Snake	Ponds, wetlands, rivers and streams
13	Eastern Massasauga Rattlesnake	Sedge meadow, open marsh edge, near large rivers, backwaters
Birds		
1	Trumpeter Swan	Large prairie marshes w/emergent vegetation
2	American Wigeon	Wetlands and shallow ponds
3	Blue-winged Teal	Wetlands and shallow ponds
4	Northern Pintail	Prairie marshes w/upland vegetation
5	Canvasback	Bulrush & cattail prairie marsh
6	Redhead	Cattail & bulrush hemi-marshes
7	Ring-necked Duck	Wetlands, small lakes and ponds
8	Greater Scaup (NB)	Lakes, rivers, wetlands
9	Red-necked Grebe	Wetlands and shallow lakes
10	Eared Grebe	Shallow lakes or ponds
11	American White Pelican	Riparian areas w/islands
12	American Bittern	Large prairie marshes w/upland grassland

Wetland-Associated SGCN		
Group	Common name	Comments
13	Little Blue Heron (NB)	Mudflats, shallow water, dredge spoil islands in rivers
14	Black-crowned Night-Heron	Prairie marshes w/emergent veg. and/or shrubs/trees
15	White-faced Ibis	Wetlands
16	Northern Harrier	Prairie/grasslands assoc. w/marshes
17	Yellow Rail (NB)	Wet meadows & fens w/sedges
18	Black Rail (NB)	Wetlands
19	King Rail	Sedge meadow zones of wetland edges
20	Common Gallinule	Prairie hemi-marshes
21	Whooping Crane (NB)	Large wetland complex w/wet meadows/hay fields
22	Black-bellied Plover (NB)	Wetland
23	American Golden-Plover (NB)	Mud flats, shallow wetlands
24	Piping Plover	Riparian open, sandy beaches & sandbars
25	Lesser Yellowlegs (NB)	Shallow wetlands
26	Whimbrel (NB)	Mudflats
27	Hudsonian Godwit (NB)	Moderate vegetated shorelines of marsh
28	Marbled Godwit (NB)	Moderate vegetated shorelines of marsh
29	Ruddy Turnstone (NB)	Rocky and sandy shores, mudflats
30	Red Knot (NB)	
31	Stilt Sandpiper (NB)	Sheltered muddy wetland pools
32	Sanderling (NB)	Mudflats
33	White-rumped Sandpiper (NB)	
34	Buff-breasted Sandpiper (NB)	Short-grass areas near water
35	Pectoral Sandpiper (NB)	Wetlands and grasslands
36	Semipalmated Sandpiper (NB)	Shorelines
37	Short-billed Dowitcher (NB)	Mudflats & shallow ponds
38	Long-billed Dowitcher (NB)	Wetlands
39	Wilson's Snipe	Rivers, streams, wetlands
40	Wilson's Phalarope	Shallow marshes w/upland grass & forbs
41	Franklin's Gull	Wetlands, sandy beaches
42	Least Tern	Open sandy beaches, sandbars of riparian areas
43	Caspian Tern (NB)	Shorelines, riverine islands
44	Black Tern	Large prairie marsh w/emergent vegetation
45	Forster's Tern	Large prairie marsh w/emergent vegetation
46	Sedge Wren	Tall rank grassland ringing marsh
47	Le Conte's Sparrow (NB)	Prefers grassy meadows; marsh edges
Butterflies		
1	Purplish Copper	Wet-mesic prairies, marshes and wet meadows
2	Acadian Hairstreak	Wet prairies, fens, sedge meadows and marshes
3	Aphrodite Fritillary	Prairie, prairie wetlands, fens
4	Siver-bordered Fritillary	Fens, wet meadows and marshes
5	Baltimore Checkerspot	Fens, wet meadows and marshes

Wetland-Associated SGCN		
Group	Common name	Comments
6	Eyed Brown	Marshes, fens, wet prairies
7	Northern Broken-dash	Generalist, including fens, prairies, woodlands
8	Mulberry Wing	Marshes and fens
9	Long Dash	In NE Iowa, associated with fens and wet prairies, although uses dry prairies in NW Iowa
10	Broad-winged Skipper	Marshes and fens
11	Two-spotted Skipper	Fens, wet meadows
12	Black Dash	Fens, wet prairies, marshes
13	Dion Skipper	Wetlands with sedges, fens
Crayfish		
1	Calico Crayfish	Sloughs, floodplains
Dragonflies & Damselflies		
1	Spotted Spreadwing	Wetlands, ephemeral and permanent
2	Amber-winged Spreadwing	Wetlands and ponds
3	Sweetflag Spreadwing	Wetlands
4	Boreal Bluet	
5	Canada Darner	Generalist
6	Swamp Darner	Wooded backwaters
7	Plains Emerald	
8	Carolina Saddlebags	
Fish		
1	Starhead Topminnow	Oxbows
2	Topeka Shiner	Oxbows
Mammals		
1	Hayden's Shrew	Grasslands, wet meadows, wetlands, riparian areas
2	Southern Bog Lemming	Moist grassland
3	Spotted Skunk	
4	Plains Pocket Gopher	Wet meadows
5	Long-tailed Weasel	Wetlands, grasslands & woodlands near water
6	Least Weasel	Grassland/wetland margins

SGCN Associated with Specific Wetland Habitats

Table 19-4-A. Fens

SGCN Associated with Fens		
Group	Common Name	Comments
Birds		
1	Yellow Rail (NB)	Fens, wet sedge meadows
Butterflies		
1	Acadian Hairstreak	Wet prairies, fens, sedge meadows and marshes

SGCN Associated with Fens		
Group	Common Name	Comments
2	Aphrodite fritillary	Prairies, wetlands, fens
3	Silver-bordered fritillary	Fens, wet prairie, and meadows
4	Baltimore Checkerspot	Wetlands, fens, and bogs
5	Eyed Brown	Fens, wet prairies, and marshes
6	Long Dash	Fens, wet prairies in Northeast (dry prairie in West)
7	Northern Broken-dash	Fens, xeric prairie, forest/woodland
8	Mulberry Wing	Wetlands, fens
9	Broad-winged Skipper	Wetlands, fens
10	Dion Skipper	Sedge wetlands, fens
11	Black Dash	Fens, wet prairies, marshes
12	Two-spotted Skipper	Sedge meadows and marshes, fens

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Table 19-5. Habitat Preferences of SGCN - Agricultural Lands

SGCN Associated with Agricultural Lands		
Group	Common Name	Comments
Amphibians		
1	Tiger Salamander	Generalist
2	Crayfish Frog	Flooded fields, pasture
3	Great Plains Toad	Pasture
4	Plains Spadefoot	Ephemeral pools in ag fields
Reptiles		
1	Ornate Box Turtle	Pasture and agricultural fields with sandy soil
2	Slender Glass Lizard	Pasture
3	Six-lined Racerunner	Sandy soil
4	Prairie Kingsnake	Hayfields and field edges
5	(Bull) Gopher Snake	Hayfields and pasture
6	Plains Garter Snake	Uplands- grasslands, farm areas, suburban areas
7	Lined Snake	Grasslands including pastures, suburban areas
8	Eastern Massasauga Rattlesnake	Grassed waterways, field edges
Birds		
1	Northern Pintail	Nests in grassland
2	Northern Bobwhite	Prefers medium height grasslands w/shrubs & forbs
3	Sharp-tailed Grouse (Ex)	Open prairie w/patches of trees or shrubs
4	Greater Prairie-Chicken	Prefers large grassland tracts +2,000 acres, pastureland interspersed with native grassland
5	Northern Harrier	Prefers large grassland tracts +100 acres
6	Swainson's Hawk	Pastures, grasslands, cropfields
7	Yellow Rail (NB)	Wet meadows & fens w/sedges
8	Whooping Crane (NB)	Prefers large wetland complexes w/grasslands adjacent
9	Upland Sandpiper	Prefers short-to-medium height grasslands w/forbs, will use soybean fields
10	Buff-breasted Sandpiper (NB)	Short-grass areas near water
11	Wilson's Phalarope	Shallow marshes w/upland grass & forbs
12	Burrowing Owl	Prefers short height grasslands
13	Short-Eared Owl	Prefers large grassland tracts +200 acres
14	Common Nighthawk	Grasslands w/bare areas for nesting
15	Chimney Swift	Declining preference as more chimney availability is reduced
16	Horned Lark	Sparse grasslands and agricultural fields
17	Sedge Wren	Prefers tall grass infrequently disturbed
18	Field Sparrow	Prefers old grassland fields w/shrubs
19	Grasshopper Sparrow	Prefers short grass w/forbs
20	Henslow's Sparrow	Prefers tall grass and infrequent disturbance; weedy
21	Le Conte's Sparrow (NB)	Prefers grassy meadows, marsh edges

SGCN Associated with Agricultural Lands		
Group	Common Name	Comments
22	Dickcissel	Prefers medium high grass w/sparse forbs
23	Bobolink	Prefers medium height grass w/forbs
24	Eastern Meadowlark	Prefers trees in grass landscape
25	Western Meadowlark	Grasslands, meadows, pastures
Butterflies		
1	Pipevine Swallowtail	Roadsides
2	Purplish Copper	Open fields, pastures
3	Gorgone checkerspot	Oldfields, pastures, roadsides
4	Regal Fritillary	Open grasslands, CRP areas
5	Monarch	Open areas and edges, where nectar is abundant, CRP areas
6	Dusted Skipper	Oldfields
Mammals		
1	White-tailed Jackrabbit	Fields of small grain, short grass
2	Franklin's Ground Squirrel	
3	Spotted Skunk	farmsteads
4	Plains Pocket Gopher	alfalfa fields

Table 19-6. Habitat Preferences of SGCN - River Habitat (including Mississippi River pools, and including riparian corridors/floodplains)

SGCN Associated with River Habitat		
Group	Common Name	Comments
Amphibians		
1	Mudpuppy	Clean rivers and streams
2	Blanchard's Cricket Frog	Mud banks of rivers, streams, lakes and wetlands
3	Pickerel Frog	Cold water rivers and streams
4	Northern Leopard Frog	Generalist using many types of water bodies
Reptiles		
1	Snapping Turtle	Generalist using many types of water bodies
2	Wood Turtle	With adjacent floodplain forest
3	Northern Map Turtle	Rivers and streams
4	Southern Map Turtle	Mississippi River and associated oxbows
5	False Map Turtle	Slow moving portions of large rivers
6	Common Musk Turtle	Slow moving, mud bottom
7	Smooth Softshell	Large rivers
8	Spiny Softshell	Rivers, streams, large lakes
9	Plainbelly (Copperbelly) Water Snake	Mississippi River and associated backwaters
10	Diamondback Water Snake	Rivers, backwaters, oxbows, ponds
11	Western Ribbon Snake	Wetlands, ponds, rivers, streams
12	Eastern Massasauga	Wetlands adjoining rivers
13	Western Massasauga	Wetlands adjoining rivers
Birds		
1	Greater Scaup (NB)	Rivers, wetlands
2	Lesser Scaup	Mississippi River
3	Common Loon (NB)	In winter - Rivers, lakes, open water
4	American White Pelican	Islands within river corridors
5	Little Blue Heron (NB)	Mudflats, shallow water, dredge spoil islands
6	Black-crowned Night-Heron	Rivers, streams, wetlands
7	Bald Eagle	Riparian forest
8	Red-shouldered Hawk	Riparian forest
9	Black-bellied Plover (NB)	Shorelines, flooded fields
10	American Golden-Plover (NB)	Shorelines, agricultural fields, mudflats, beaches, shortgrass grasslands during migration
11	Piping Plover	Sandy beaches, sand bars, Missouri River
12	Lesser Yellowlegs (NB)	Shallow water
13	Whimbrel (NB)	Shorelines, beaches
14	Hudsonian Godwit (NB)	Shorelines, mudflats, flooded fields during migration
15	Marbled Godwit (NB)	Shorelines, mudflats, beaches during migration
16	Ruddy Turnstone (NB)	Rocky shorelines during migration
17	Red Knot (NB)	Shorelines

SGCN Associated with River Habitat		
Group	Common Name	Comments
18	Sanderling (NB)	Shorelines
19	Semipalmated Sandpiper (NB)	Shorelines
20	White-rumped Sandpiper (NB)	Shorelines
21	Pectoral Sandpiper (NB)	Shorelines
22	Stilt Sandpiper (NB)	Shorelines
23	Buff-breasted Sandpiper (NB)	Shorelines
24	Short-billed Dowitcher (NB)	Shorelines
25	Long-billed Dowitcher (NB)	Shorelines
26	Wilson's Snipe	Rivers, streams, wetlands
27	American Woodcock	Wooded riparian areas, woodlands
28	Least Tern	Shoreline, sandy beaches, Missouri River
29	Caspian Tern (NB)	Shoreline, riverine islands
30	Belted Kingfisher	Rivers, streams, wetlands
31	Peregrine Falcon	Riparian forest, Mississippi River bluffs
32	Bank Swallow	Rivers and streams
33	Veery	Deciduous wooded riparian areas
34	Prothonotary Warbler	Bottomland forest
Crayfish		
1	Calico Crayfish	Floodplains of rivers, sloughs
2	Golden Crayfish	Rivers, streams
3	Virile Crayfish	Rivers, streams, ponds
Dragonflies & Damselflies		
1	Midland Clubtail	Rivers, streams
2	Pale Snaketail	Rivers & streams with fast flow & cobble substrate
3	Brimstone Clubtail	Fast flowing, open rivers & streams
4	Elusive Clubtail	Rivers and streams with sandy substrate
5	Arrow Clubtail	Rivers with sandy substrate
6	Stream Cruiser	Medium to large streams & rivers
7	Royal River Cruiser	Rivers, streams, lakes
8	Smoky Shadowdragon	Rivers and larger sized streams with fast flow
9	Stygian Shadowdragon	Mississippi River
Fish		
1	Chestnut lamprey	Rivers, including Mississippi
2	Silver lamprey	
3	Lake sturgeon	Large rivers and lakes with sand, cobble and rock substrate
4	Palid sturgeon	Missouri River. Turbid waters with sand and gravel substrate
5	Shovelnose sturgeon	Large rivers, turbid waters
6	Paddlefish	Medium to large rivers, backwater, and impoundments
7	American Eel	Rivers, large streams and lakes
8	Skipjack herring	Medium to large rivers and large impoundments

SGCN Associated with River Habitat		
Group	Common Name	Comments
		with sand and gravel substrate
9	Gravel chub	Large streams and rivers with gravel substrate
10	Plains minnow	Silt bottom
11	Pallid shiner	Rivers and streams, sand and muck bottom
12	Redfin shiner	Rivers and streams, sand and muck bottom
13	Shoal chub	Rivers, sand, cobble and silt substrate
14	Sturgeon chub	Warm, turbid rivers
15	Sicklefin chub	Large, turbid rivers with sand and gravel substrate
16	Ghost shiner	Rivers, streams
17	Blacknose shiner	Cool vegetated waters with sand bottom
18	Ozark minnow	Gravel and rock substrate
19	Silverband shiner	Open channels/swift currents, tolerates silt
20	Weed shiner	Rivers, streams, sand substrate
21	Topeka shiner	Rivers, streams with clear waters, off-channel areas
22	Channel shiner	
23	Pugnose minnow	Clear vegetated waters with silt, sand and gravel substrate
24	Flathead chub	Turbid rivers
25	Longnose dace	Clear waters with gravel and rock substrate
26	Blue sucker	Large rivers
27	Black buffalo	Rivers, impoundments, backwaters
28	Spotted sucker	Rivers, streams, firm substrate
29	River redhorse	Clear rivers and streams with no silt
30	Black redhorse	Rivers, streams, gravel and rock substrate
31	Blue catfish	Rivers, backwaters
32	Slender madtom	Rivers, streams
33	Tadpole madtom	Vegetated rivers, streams, lakes, impoundments, backwaters with slow flow & muck substrate
34	Freckled madtom	Rivers, streams
35	Brook trout	Cool rivers and streams with sand, gravel, cobble or rock substrate and moderate to fast flow
36	Trout perch	Rivers, streams, sand substrate
37	Burbot	Deep, cold rivers & lakes
38	Northern (longear) sunfish (??)	
39	Western sand darter	Rivers with sand substrate, slow to moderate flow
40	Crystal darter	Streams, small rivers with sand and gravel substrate
41	Mud darter	Rivers, backwaters, sand and muck substrate
42	Bluntnose darter	Streams, small to medium rivers, backwaters, sand, muck substrate, slow flow
43	Orangethroat darter	Streams to small rivers with sand, cobble, gravel and bedrock substrate and moderate to fast flow
44	Banded darter	Rivers, streams, cobble and gravel substrate

SGCN Associated with River Habitat		
Group	Common Name	Comments
45	Loggerperch	Rivers, streams, lakes, impoundments, sand and gravel substrate
46	Blackside darter	Rivers, streams, sand and gravel substrate
47	Slenderhead darter	Rivers, streams, cobble, gravel and bedrock substrate
48	River darter	Large rivers, gravel and rock substrate
Mammals		
1	Indiana Bat	Wooded riparian areas
2	Silver-haired Bat	Wooded riparian areas
3	Eastern Pipistrelle	Wooded riparian areas
4	Evening Bat	Wooded riparian areas
5	Ermine	Wooded riparian areas
Mussels		
1	Mucket	Medium to large rivers, firm gravel substrate
2	Three Ridge	Small to large rivers and lakes with gravel, sand or mud substrate
3	Flat floater	Rivers, lakes, ponds, mud and silt substrate, slow or no flow
4	Rock pocketbook	Medium to large rivers, mud and sand substrate
5	Spectacle case	Large rivers, mud and sand substrate
6	Purple wartyback	Medium to large rivers, gravel substrate
7	Butterfly	Large rivers, sand and gravel substrate
8	Elephant ear	Large rivers, mud, sand, and gravel substrate
9	Snuffbox	Medium to large rivers, gravel substrate
10	Ebonyshell	Large, deep rivers, sand and gravel substrate
11	Higgins' eye pearl mussel	Large rivers, sand and gravel substrate
12	Fatmucket	Small to large rivers and streams, lakes, reservoirs
13	Yellow sandshell	Medium to large rivers, sand and gravel substrate
14	White heelsplitter	Medium to large rivers, mud, gravel substrate
15	Fluted shell	Medium to large rivers, mud sand and gravel substrate
16	Black sandshell	Medium to large rivers, gravel, firm sand substrate
17	Washboard	Large rivers, gravel, mud substrate
18	Threehorn wartyback	Medium to large rivers, gravel substrate
19	Hickorynut	Large rivers, sand and gravel substrate
20	Bullhead (Sheepnose)	Medium to large rivers, sand and gravel substrate
21	Pyramid pigtoe	Large rivers, gravel-sand substrate
22	Round pigtoe	Rivers, streams, firm sand and gravel substrate
23	Pink heelsplitter	Medium to large rivers
24	Pink papershell	Medium to large rivers
25	Monkeyface	Medium to large rivers, gravel substrate
26	Wartyback	Large rivers, sand and gravel substrate
27	Pimpleback	Rivers, streams
28	Mapleleaf	Medium to large rivers, gravel, sand substrates

SGCN Associated with River Habitat		
Group	Common Name	Comments
29	Salamander mussel	Rivers
30	Pistolgrip	Medium to large rivers, mud, sand and gravel substrate
31	Fawnsfoot	Medium to large rivers , sand and gravel substrate
32	Deertoe	Medium to large rivers, mud, sand, and gravel substrates
33	Pondhorn	Inland rivers, streams, ponds, muck and sand substrate
34	Paper pondshell	Mud substrate

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Table 19-7. Habitat Preferences of SGCN - Stream Habitat (including riparian corridors/floodplains)

SGCN Associated with Stream Habitat		
Group	Common Name	Comments
Amphibians		
1	Common Mudpuppy	Permanent rivers & streams with gravel bottoms
2	Blanchard's Cricket frog	Mud banks of rivers, streams, lakes and wetlands
3	Crawfish Frog	Streams or ponds within grasslands (presumed extirpated)
4	Pickerel Frog	Cold water streams, rivers, and impoundments
5	Northern Leopard Frog	All aquatic habitat types
Reptiles		
1	Snapping turtle	Uses many types of water bodies
2	Wood turtle	Rivers and streams and adjacent floodplains
3	Northern map turtle	Rivers and streams
4	Spiny softshell	Rivers, streams, large lakes
5	Western worm snake	Wooded riparian areas
6	Common water snake	Streams, backwaters, ponds, marshes, lakes
7	Western fox snake	Wooded riparian areas
8	Graham's crayfish snake	Floodplains of streams, creeks, wetlands, sloughs
9	Western ribbon snake	Rivers, streams, wetlands, ponds
10	Smooth earth snake	Wooded river valleys
Birds		
1	Little Blue Heron (NB)	Mudflats, shallow water, dredge spoil islands
2	Black-crowned Night-Heron	Rivers, streams, wetlands
3	Bald Eagle	Riparian forest
4	Red-shouldered Hawk	Riparian forest
5	Black-bellied Plover (NB)	Shorelines, flooded fields
6	American Golden-Plover (NB)	Shorelines, agricultural fields, mudflats, beaches, shortgrass grasslands during migration
7	Lesser Yellowlegs (NB)	Shallow water
8	Whimbrel (NB)	Shorelines, beaches
9	Hudsonian Godwit (NB)	Shorelines, mudflats, flooded fields during migration
10	Marbled Godwit (NB)	Shorelines, mudflats, beaches during migration
11	Ruddy Turnstone (NB)	Rocky shorelines during migration
12	Red Knot (NB)	Shorelines
13	Sanderling (NB)	Shorelines
14	Semipalmated Sandpiper (NB)	Shorelines
15	White-rumped Sandpiper (NB)	Shorelines
16	Pectoral Sandpiper (NB)	Shorelines
17	Stilt Sandpiper (NB)	Shorelines
18	Buff-breasted Sandpiper (NB)	Shorelines
19	Short-billed Dowitcher (NB)	Shorelines
20	Long-billed Dowitcher (NB)	Shorelines

SGCN Associated with Stream Habitat		
Group	Common Name	Comments
21	Wilson's Snipe	Rivers, streams, wetlands
22	American Woodcock	Wooded riparian areas, woodlands
23	Caspian Tern (NB)	Shoreline, riverine islands
24	Belted Kingfisher	Rivers, streams, wetlands
25	Peregrine Falcon	Riparian forest, Mississippi River bluffs
26	Acadian Flycatcher	Deciduous, wooded riparian areas
27	Bank Swallow	Rivers and streams
28	Veery	Deciduous wooded riparian areas
29	Prothonotary Warbler	Bottomland forest
Butterflies		
1	Zebra Swallowtail	Riparian woodlands
2	Harvester	Wooded streams
3	Acadian Hairstreak	Riparian areas in woodlands or grasslands
4	Striped Hairstreak	Streamside prairies, woodland openings & edges
5	Hayhurst's Scallopwing	Floodplain forest
Crayfish		
1	Devil Crayfish	Streams, creeks
2	Calico Crayfish	Floodplains, sloughs
3	Golden Crayfish	Rivers, streams and creeks
4	Northern Clearwater Crayfish	Cool water streams
5	Virile Crayfish	Rivers, streams, and ponds
Dragonflies & Damselflies		
1	Paiute dancer	Small streams, marshy springs
2	Boreal bluet	Streams with slow flow, fishless ponds, lakes
3	Western forktail	Heavily vegetated ponds, lakes, and slow flow streams with mud substrate
4	Variable darner	Lakes, ponds, streams
5	Midland clubtail	Rivers and streams
6	Sulpher-tipped clubtail	Ponds, lakes, streams, and creeks with mud substrate
7	Rapids clubtail	Rocky creeks
8	Rusty snaketail	Sandy or rocky creeks
9	Pale snaketail	Rivers and streams with fast flow and cobble substrate
10	Sioux snaketail	Streams with sandy bottoms
11	Westfall's snaketail	Clear forest streams with strong riffles and cobble substrate
12	Brimstone clubtail	Strong-flowing, open streams and rivers
13	Elusive clubtail	Rivers and streams with sandy substrate
14	Arrow clubtail	Rivers with sandy substrate
15	Stream cruiser	Rivers and streams
16	Smoky shadowdragon	Fast-flowing rivers and streams
17	Plains emerald	Streams

SGCN Associated with Stream Habitat		
Group	Common Name	Comments
Fish		
1	Northern brook lamprey	Streams with muck bottoms
2	American brook lamprey	Small to medium rivers & streams
3	American eel	Rivers, large streams, lakes
4	Largescale stoneroller	Clear, medium to large streams, gravel substrate
5	Gravel chub	Large streams and rivers, gravel substrate
6	Plains minnow	Rivers and streams with slow flows, silt bottoms
7	Redfin shiner	Rivers, streams, and creeks
8	Ghost shiner	Rivers, streams
9	Blacknose shiner	Cool water streams, sand substrate
10	Ozark minnow	Fast moving streams with gravel or rock substrate
11	Weed shiner	Rivers and streams with sand bottoms
12	Topeka shiner	Slow-flowing rivers & streams with clear water, off-channel areas
13	Pugnose minnow	Vegetated lakes, impoundments, streams with slow flow
14	Southern redbelly dace	
15	Longnose dace	Fast moving rivers and streams with clear water and gravel or rock bottoms
16	River redhorse	Large streams and rivers with clear water
17	Black redhorse	Rivers and streams with gravel or rock bottoms
18	Brown bullhead	Slow moving streams, lakes, ponds, backwaters, impoundments
19	Slender madtom	Rivers and streams with moderate to fast flow
20	Tadpole madtom	Slow moving rivers and streams, backwaters, impoundments, vegetated lakes
21	Freckled madtom	Rivers and streams with moderate to slow flow
22	Central mudminnow	Vegetated streams and backwaters
23	Brook trout	Cold and cool water streams and rivers with moderate to fast flow and sand, gravel or rock substrate
24	Trout perch	Rivers and streams with sand substrate
25	Banded killifish	Lakes, ponds, streams with slow flow
26	Starhead topminnow	Backwaters, streams and creeks with muck bottoms and slow to no flow
27	Blackstripe topminnow	Turbid streams
28	Plains topminnow	Clear prairie streams with moderate flow
29	Mottled sculpin	Clear, cool water rivers and streams with sand, gravel or rock substrate
30	Slimy sculpin	Cold, fast flowing streams with rock substrate
31	Bluntnose darter	Rivers, streams, and backwaters with sand or muck bottoms
32	Iowa darter	Cool water streams, ponds and lakes with no or slow flow and muck or sand bottoms

SGCN Associated with Stream Habitat		
Group	Common Name	Comments
33	Least darter	Vegetated creeks with slow flow
34	Orangethroat darter	Rivers and streams with moderate to fast flow and sand, coble, gravel or bedrock substrate
35	Banded darter	Large streams and rivers with moderate flow and gravel or cobble substrate
36	Loggerhead	Rivers and streams, lakes and impoundments, sand or gravel substrate
37	Blackside darter	Small rivers and streams with slow flow and sand or gravel substrate
38	Slenderhead darter	Rivers and streams with moderate to fast flow and cobble, gravel or bedrock substrate
Mammals		
1	Indiana Bat	Wooded riparian areas
2	Silver-haired Bat	Wooded riparian areas
3	Eastern Pipistrelle	Wooded riparian areas
4	Evening Bat	Wooded riparian areas
5	Ermine	Wooded riparian areas
Mussels		
1	Elktoe	Streams, sand and gravel substrate
2	Slippershell	Streams and creeks, mud and sand substrate
3	Clylinder	Small creeks, mud and sand substrate
4	Spike	Streams and lakes, firm sand and gravel substrate
5	Wabash pigtoe	Rivers, streams, creeks, gravel and sand substrate
6	Fatmucket	Rivers, streams, resevoirs
7	Creek heelsplitter	Streams and creeks, sand and gravel substrate
8	Pondmussel	Small creeks and ponds, sand and muck substrate
9	Round pigtoe	Rivers and streams, firm sand and gravel substrate
10	Pimpleback	Small streams to large rivers
11	Strange floater	Small to medium streams, mud, sand and gravel substrate
12	Deertoe	Medium streams to large rivers, mud, gravel sand substrate
13	Pondhorn	Ponds, creeks, streams, rivers, muck and sand substrate
14	Ellipse	Small to medium streams, sand and gravel substrate

Table 19-8. Habitat Preferences of SGCN – Lakes, Flood Control Reservoirs, On-stream Impoundments, and Surface Mines. (This table includes species using shoreline and immediately adjacent uplands.)

SGCN Associated with Lakes, Reservoirs, Impoundments & Surface Mines		
Group	Common Name	Comments
Amphibians		
1	Tiger salamander	Generalist
2	Common mudpuppy	On-stream impoundments with gravel bars for reproduction
3	Blanchard's cricket frog	Rivers, streams, lakes, wetlands
4	Pickerel frog	On-stream impoundments, cold water rivers, streams
5	Northern Leopard Frog	All aquatic habitats
6	Southern Leopard Frog	On-stream impoundments, wetlands, ponds, backwaters
Reptiles		
1	Snapping turtle	All aquatic habitat types
2	Spiny softshell	Large lakes, rivers, streams
3	Prairie skink	Grasslands with loose soil and rocky areas adjacent to marshes or lakes
4	Speckled kingsnake	Grassy uplands adjacent to lakes and large ponds
5	Common water snake	Lakes, ponds, wetlands, streams, backwaters
6	Smooth green snake	Grassy uplands adjacent to lakes and impoundments
7	Western fox snake	Grassy uplands adjacent to lakes and wetlands
8	(Northern) Redbelly snake	Grassy uplands adjacent to lakes and wetlands
Birds		
1	Greater Scaup (NB)	Rivers, lakes, wetlands
2	Common Loon (NB)	In winter - Rivers, lakes, open water
3	American White Pelican	Reservoirs, impoundments, rivers
4	Little Blue Heron (NB)	Mudflats, shallow water, dredge spoil islands
5	Bald Eagle	Reservoirs, impoundments with forested edges
6	Black-bellied Plover (NB)	Shorelines, flooded fields
7	American Golden-Plover (NB)	Shorelines, agricultural fields, mudflats, beaches, shortgrass grasslands during migration
8	Lesser Yellowlegs (NB)	Shallow water
9	Whimbrel (NB)	Shorelines, beaches
10	Hudsonian Godwit (NB)	Shorelines, mudflats, flooded fields during migration
11	Marbled Godwit (NB)	Shorelines, mudflats, beaches during migration
12	Ruddy Turnstone (NB)	Rocky shorelines during migration
13	Red Knot (NB)	Shorelines
14	Sanderling (NB)	Shorelines

SGCN Associated with Lakes, Reservoirs, Impoundments & Surface Mines		
Group	Common Name	Comments
15	Semipalmated Sandpiper (NB)	Shorelines
16	White-rumped Sandpiper (NB)	Shorelines
17	Pectoral Sandpiper (NB)	Shorelines
18	Stilt Sandpiper (NB)	Shorelines
19	Buff-breasted Sandpiper (NB)	Short-grass areas near water
20	Short-billed Dowitcher (NB)	Shorelines
21	Long-billed Dowitcher (NB)	Shorelines
22	Caspian Tern (NB)	Shoreline, riverine islands
23	Bank Swallow	Reservoirs, quarries, exposed banks near water
Dragonflies & Damselflies		
1	Boreal bluet	Ponds, lakes
2	Western forktail	Vegetated ponds, lakes, and slow flow streams with mud substrate
3	Variable darner	Lakes, ponds, streams
4	Sulphur-tipped clubtail	Ponds, lakes, streams with mud substrate
5	Royal river cruiser	Lakes, rivers
6	Slender baskettail	Lakes, ponds, backwaters
Fish		
1	Silver lamprey	Rivers, impoundments, lakes
2	Lake sturgeon	Large rivers and lakes
3	Paddlefish	Impoundments
4	American eel	Rivers, large streams and lakes
5	Skipjack herring	Large rivers and impoundments
6	Pearl dace	Ponds and small lakes
7	Pugnose shiner	Clear, vegetated lakes
8	Blacknose shiner	Cool water rivers, streams and lakes
9	Pugnose minnow	Vegetated lakes, impoundments, and streams
10	Black buffalo	Rivers, impoundments, backwaters
11	Brown bullhead	Ponds, lakes, backwaters, impoundments, streams
12	Tadpole madtom	Vegetated lakes, impoundments, backwaters, rivers and streams
13	Redfin (Grass) pickerel	Vegetated backwaters, ponds, and small lakes
14	Pirate perch	Vegetated lakes, ponds, and backwaters
15	Burbot	Deep, cold lakes and rivers
16	Banded killifish	Lakes, ponds, and streams
17	Iowa darter	Cool creeks, ponds, and lakes
18	Logperch	Rivers, streams, lakes and impoundments
Mussels		
1	Fatmucket	Rivers, streams, lakes, reservoirs
2	Paper pondshell	Lakes, ponds, rivers, impoundments

Table1 19-9. Habitat Preferences of SGCN – Backwater and Oxbow Habitats

SGCN Associated with Backwater and Oxbow Habitats		
Group	Common Name	Comments
Amphibians		
1	Tiger salamander	Generalist
2	Northern leopard frog	Generalist using many types of water bodies
3	Southern leopard frog	Wetlands, ponds, backwaters, impoundments
Reptiles		
1	Snapping turtle	Generalist
2	Southern map turtle	Mississippi River and associated oxbows
3	False map turtle	Slow portions of large rivers
4	Eastern musk turtle	Herbaceous wetlands, backwaters, and spring fed ponds adjacent to sandy uplands
5	Plainbelly (Copperbelly) Water Snake	Mississippi River and associated backwaters and wet woodland
6	Diamondback Water Snake	Rivers, ponds, backwaters, oxbows
7	Common water snake	Lakes, ponds, marshes, streams, backwaters
Dragonflies & Damselflies		
1	Slender baskettail	Lakes, ponds, backwaters
Fish		
1	Paddlefish	Medium to large rivers, backwater, and impoundments
2	Western silvery minnow	Backwaters with sand or muck substrate
3	Mississippi silvery minnow	Backwaters
4	Topeka shiner	Rivers, streams, oxbows
5	Black buffalo	Backwaters, rivers, and impoundments
6	Brown bullhead	Ponds, lakes, backwaters, impoundments, and streams
7	Blue catfish	Rivers and backwaters
8	Tadpole madtom	Vegetated lakes, impoundments, backwaters, creeks, and rivers
9	Grass pickerel	Vegetated backwaters, ponds, and small lakes
10	Central mudminnow	Vegetated streams and backwaters
11	Pirate perch	Vegetated lakes, ponds, and backwaters
12	Starhead topminnow	Heavily vegetated creeks, oxbows, and backwaters, muck bottoms
13	Blackstripe topminnow	Turbid backwaters and streams
14	Plains topminnow	Clear, quiet, vegetated backwaters
15	Mud darter	Rivers and backwaters
16	Bluntnose darter	Medium or smaller sized rivers, streams, backwaters

Table 19-10. Habitat Preferences of SGCN - Pond Habitat

SGCN Associated with Pond Habitat		
Group	Common Name	Comments
Amphibians		
1	Tiger salamander	Generalist
2	Blanchard's cricket frog	Mud banks of ponds, lakes, streams, wetlands
3	Crawfish frog (Ex)	Ponds & streams within grasslands and with abundant crayfish
4	Pickerel frog	Cold water streams, rivers, impoundments and ponds
5	Northern leopard frog	All aquatic habitat types
6	Southern leopard frog	Wetlands, ponds, backwaters, impoundments
Reptiles		
1	Snapping turtle	Aquatic habitat generalist
2	Blanding's turtle	Well-vegetated, shallow wetlands. Ponds have more limited use in Iowa by Blanding's.
3	Eastern musk turtle	Spring fed ponds near sandy uplands
4	Prairie kingsnake	Grasslands near lakes or large ponds
5	Diamondback water snake	Rivers, backwaters, oxbows, ponds
6	Common water snake	Lakes, ponds, marshes, streams, backwaters
7	Graham's crayfish snake	Ponds, sloughs, wetlands, floodplains, creeks
8	(Northern) Redbelly Snake	Woodland and adjacent grasslands near water
9	Western ribbon snake	Herbaceous wetland, ponds, streams, rivers
Birds		
1	Trumpeter Swan	Wetlands, ponds
2	Purple Martin	Ponds near towns
Crayfish		
1	Virile crayfish	Rivers, streams, ponds lacking predatory fish
Dragonflies & Damselflies		
1	Spotted spreadwing	Ponds
2	Amber-winged spreadwing	Shallow ponds and wetlands
3	Sweetflag spreadwing	
4	Prairie bluet	
5	Taiga bluet	Ponds and wetlands
6	Boreal bluet	Fishless ponds, lakes, and slow flow streams
7	Alkali bluet	Ponds and lakes
8	Western forktail	Heavily vegetated ponds, lakes, and slow flow streams with mud substrate
9	Sedge sprite	Ponds and wetlands
10	Canada darner	Wetlands, pond edges
11	Variable darner	Lakes, ponds, streams
12	Sulphur-tipped clubtail	Ponds, lakes, streams with mud substrate
13	Slender baskettail	Lakes, ponds, and backwaters
Fish		

SGCN Associated with Pond Habitat		
Group	Common Name	Comments
1	Pearl dace	Ponds and small lakes
2	Brown bullhead	Ponds, lakes, backwaters, impoundments, and streams
3	Grass pickerel	Vegetated backwaters, ponds, and small lakes
4	Pirate perch	Vegetated lakes, ponds, and backwaters
5	Banded killifish	Lakes, ponds, streams
6	Iowa darter	Cool creeks, ponds, and lakes
Mussels		
1	Flat floater	Ponds, lakes, rivers
2	Pondmussel	Small creeks and ponds
3	Pondhorn	Ponds, creeks, streams, rivers
4	Paper pondshell	Ponds, lakes, impoundments, rivers

Table 19-11. Summary of Habitat Preferences of SGCN by Habitat Class. Individual species are assigned to more than one habitat type if appropriate, so the total number of species exceeds the total number of SCCN.

Habitat Class	Amphibians	Reptiles	Birds	Butterflies	Crayfish	Dragonflies & Damselflies	Fish	Mammals	Mussels	Terrestrial Snails	Total
Terrestrial Habitat Classes	28	55	149	56	2	8	2	35	0	5	340
Forests	7	10	29	11	-	-	-	12	-	5	74
Shrubland	1	3	14	-	-	-	-	2	-	-	20
Grasslands	8	21	34	26	1	-	-	11	-	-	101
Wetlands	8	13	47	13	1	8	2	6	-	-	98
Agricultural Lands	4	8	25	6	-	-	-	4	-	-	47
Aquatic Habitat Classes	23	47	88	5	9	46	126	10	54	0	408
River	4	13	34	-	3	9	48	5	34	-	150
Stream	5	10	29	5	5	17	38	5	14	-	128
Lake, Reservoir, Impoundment	6	8	23	-	-	6	18	-	2	-	63
Backwater/Oxbow	2	7	-	-	-	1	16	-	-	-	26
Pond	6	9	2	-	1	13	6	-	4	-	41
Total	51	102	237	61	11	54	128	45	54	5	748