

## Appendix F. Relative Abundance and Trends in Abundance of Indiana SGCN

### Key

Change in abundance since 2005 <sup>1</sup>		Predicted change in abundance by 2025 <sup>1</sup> (if current conditions and practices continue)		Relative Abundance <sup>2</sup>	
–	Remained constant	–	Will remain constant	C	Common
↑↑	Slight increase (5-25%)	↑↑	Will increase slightly (5-25%)	O	Occasional
↑↑↑	Great increase (25-50%)	↑↑↑	Will increase greatly (25-50%)	R	Rare
↑↑↑↑	Dramatic increase (>50%)	↑↑↑↑	Will increase dramatically (>50%)	E	Extirpated
↓↓	Slight decline (5-25%)	↓↓	Will decline slightly (5-25%)	U	Unknown
↓↓↓	Serious decline (25-50%)	↓↓↓	Will decline seriously (25-50%)		
↓↓↓↓	Dramatic decline (>50%)	↓↓↓↓	Will decline dramatically (>50%)		
U	Unknown	U	Unknown		

<sup>1</sup>Averaged over all Species Survey respondents

<sup>2</sup>As noted in Whitaker and Amlaner (2012) or the 2005 Comprehensive Wildlife Strategy

M = Migratory; generally Indiana only considered stopover habitat

**Table F-1.** Relative abundance and trends in abundance for all Indiana's SGCN.

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
<b>Birds</b>					
	<i>Cranes</i>				
		Whooping Crane (M)	R	↑↑	–
		Sandhill Crane	O	↑↑	↑↑
	<i>Herons, Egrets, &amp; Bitterns</i>				
		Great Egret	O	↑↑	↑↑
		American Bittern	O	↑↑	–
		Least Bittern	O	–	–
		Yellow-crowned Night-heron	R	↓↓	–
		Black-crowned Night-heron	O	↑↑	–
	<i>Nightjars</i>				

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
		Eastern Whip-poor-will	O	⇓⇓	⇓
		Common Nighthawk	C	⇓	⇓
	<i>Rails</i>				
		Common Moorhen	R	U	U
		Black Rail (M)	R	↑↑	–
		King Rail	R	↑↑	↑↑
		Virginia Rail	R	–	–
	<i>Raptors</i>				
		Sharp-shinned Hawk	O	⇓	⇓
		Short-eared Owl	R	⇓	⇓
		Red-shouldered Hawk	C	⇓	⇓
		Broad-winged Hawk	O	U	U
		Northern Harrier	O	U	U
		Peregrine Falcon	R	↑↑	↑↑
		Bald Eagle	O	↑↑	↑↑
		Mississippi Kite	R	U	U
		Osprey	R	↑↑	↑↑
		Barn Owl	R	–	–
	<i>Shorebirds</i>				
		Ruddy Turnstone (M)	O	U	U
		Upland Sandpiper	R	↑↑	↑↑
		Buff-breasted Sandpiper (M)	R	↑↑	–
		Piping Plover	R	↑↑	↑↑

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
		Short-billed Dowitcher (M)	O	U	U
		Wilson's Phalarope (M)	R	-	↑↑
		American Golden-plover (M)	O	-	-
		Greater Yellowlegs (M)	O	-	-
		Solitary Sandpiper (M)	C	-	-
	<i>Songbirds</i>				
		Henslow's Sparrow	O	↓↓	↓↓
		Marsh Wren	O	-	↓↓
		Sedge Wren	O	U	U
		Worm-eating Warbler	O	-	↑↑
		Loggerhead Shrike	R	↓↓	⇓⇓
		Black-and-white Warbler	O	-	↑↑
		Cerulean Warbler	O	↓↓	↓↓
		Kirtland's Warbler	R	U	U
		Hooded Warbler	R	-	↑↑
		Western Meadowlark	R	U	U
		Golden-winged Warbler	R	-	-
		Yellow-headed Blackbird	R	U	U
	<i>Terns</i>				
		Black Tern	O	-	-
		Least Tern	R	↑↑	↑↑

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
	<i>Waterfowl</i>				
		Trumpeter Swan (M)	R	↑↑	↑↑
<b>Fish</b>					
	<i>Carp &amp; Minnows</i>				
		Redside Dace	R	↑↑	–
		Pallid Shiner	R	U	U
		Pugnose Shiner	R	U	U
		Bigmouth Shiner	R	U	U
		Longnose Dace	O	–	–
	<i>Catfish</i>				
		Northern Madtom	R	↓↓	–
	<i>Cavefish</i>				
		Northern Cavefish	R	–	–
	<i>Lampreys</i>				
		Northern Brook Lamprey	R	–	–
	<i>Perches</i>				
		Western Sand Darter	O	–	–
		Spotted Darter	R	–	–
		Cypress Darter	R	–	–
		Tippecanoe Darter	R	–	↓↓
		Variagate Darter	R	–	↓↓
		Channel Darter	R	–	–
		Gilt Darter	O	–	–

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
	<i>Pikes</i>				
		Ohio River Muskellunge	R	U	U
	<i>Pygmy Sunfish</i>				
		Banded Pygmy Sunfish	R	↑↑	–
	<i>Sculpins</i>				
		Slimy Sculpin	R	↓↓	–
	<i>Sturgeons</i>				
		Lake Sturgeon	R	–	–
	<i>Suckers</i>				
		Longnose Sucker	R	U	U
		Greater Redhorse	R	–	–
	<i>Sunfish</i>				
		Bantam Sunfish	R	–	–
	<i>Trout-perches</i>				
		Trout-perch	R	–	–
	<i>Trouts &amp; Salmons</i>				
		Cisco	R	↓↓	↓↓
		Lake Whitefish	C	↑↑	↑↑
<b>Herps</b>					
	<i>Aquatic Salamanders</i>				
		Hellbender	R	⇅⇅	⇅⇅
		Common Mudpuppy	O	–	–
	<i>Frogs</i>				
		Northern Cricket Frog	U	–	↓↓
		Crawfish Frog	O	↓↓	↓↓
		Plains Leopard Frog	R	↓↓	–

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
		Northern Leopard Frog	C	–	–
	<i>Salamanders</i>				
		Streamside Salamander	U	⇓	⇓
		Blue-spotted Salamander	O	–	⇓
		Mole Salamander	U	–	–
		Green Salamander	R	–	–
		Four-toed Salamander	R	–	–
		Red Salamander	R	–	–
	<i>Snakes</i>				
		Cottonmouth	R	⇓⇓	⇓⇓
		Scarletsnake	R	⇓	⇓
		Kirtland's Snake	O	–	⇑
		Timber Rattlesnake	R	–	–
		Red-bellied Mudsucker	R	–	–
		Copper-bellied Watersnake	O	–	⇓
		Rough Greensnake	O	–	–
		Smooth Greensnake	R	⇓	⇓
		Massasauga	R	⇓	⇓
		Southeastern Crowned Snake	R	–	⇓
		Butler's Gartersnake	R	U	U
		Western Ribbonsnake	O	–	⇓

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
	<i>Turtles</i>				
		Spotted Turtle	O	↓↓	↓↓
		Blanding's Turtle	O	↓↓	↓↓
		Eastern Mud Turtle	R	U	U
		Alligator Snapping Turtle	R	U	U
		River Cooter	R	–	–
		Eastern Box Turtle	U	↓↓	↓↓
		Ornate Box Turtle	O	↓↓	↓↓
<b>Mammals</b>					
	<i>Bats</i>				
		Rafinesque's Big-eared Bat	R	–	–
		Silver-haired Bat	O	–	–
		Eastern Red Bat	C	–	↓↓
		Hoary Bat	O	–	–
		Southeastern Myotis	E	–	–
		Gray Myotis	R	↑↑	↓↓
		Eastern Small-footed Myotis	U	–	↓↓
		Little Brown Myotis	C	↓↓	↓↓
		Northern Long-eared Myotis	C	⇅⇅	↓↓
		Indiana Myotis	O	↓↓	↓↓
		Evening Bat	O	–	–
		Tri-colored Bat (Eastern Pipistrelle)	C	⇅⇅	↓↓

Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
	<i>Mustelids</i>				
		Least Weasel	R	↓↓	↓↓
		American Badger	R	–	–
	<i>Rabbits</i>				
		Swamp Rabbit	R	↓↓	↓↓
	<i>Rodents</i>				
		Plains Pocket Gopher	C	↓↓	↓↓
		Allegheny Woodrat	R	↑↑	↓↓
		Franklin's Ground Squirrel	R	↓↓	↓↓
	<i>Shrews &amp; Moles</i>				
		Star-nosed Mole	R	↓↓	↓↓
		Smoky Shrew	O	–	–
		American Pygmy Shrew	O	–	–
<b>Mollusks</b>					
	<i>River Mussels</i>				
		Fanshell	R	↓↓	↓↓
		White Catspaw	R	↓↓	↓↓
		Northern Riffleshell	R	U	U
		Tubercled Blossom	E	U	U
		Snuffbox	R	–	↑↑
		Longsolid	R	U	U
		Pink Mucket	R	U	U
		Wavyrayed Lampmussel	C	–	–
		Round Hickorynut	R	⇕⇕	↓↓



Taxon	Subgroup	Species	Relative Abundance	Since 2005	Predicted
		White Wartyback	R	U	U
		Orangefoot Pimpleback	R	U	U
		Sheepnose	R	⇓	⇓
		Clubshell	R	⇓	⇓
		Ohio Pigtoe	O	U	U
		Rough Pigtoe	R	U	U
		Pyramid Pigtoe	R	U	U
		Fat Pocketbook	O	–	–
		Kidneyshell	O	–	–
		Rabbitsfoot	R	⇓	⇓
		Salamander Mussel	R	–	–
		Purple Lilliput	R	U	U
		Ellipse	C	–	–
		Rayed Bean	R	U	U
		Little Spectaclecase	O	⇓	⇓
	<i>Snails</i>				
		Pointed Campeloma	U	U	U
		Swamp Lymnaea	U	U	U

**Table F-2.** Relative abundance and seasonal occurrence for SGCN birds.

<b>Subgroup</b>	<b>Common Name</b>	<b>Nesting</b>	<b>Migration</b>	<b>Winter</b>
<b><i>Cranes</i></b>				
	Whooping Crane		R	R
	Sandhill Crane	R	C	
<b><i>Hérons, Egrets, and Bitterns</i></b>				
	Great Egret	R	O	
	American Bittern	R	R	
	Least Bittern	R	R	
	Yellow-crowned Night-heron	R	R	
	Black-crowned Night-heron	O	O	
<b><i>Nightjars</i></b>				
	Eastern Whip-poor-will	O	R	
	Common Nighthawk	O	O	
<b><i>Rails</i></b>				
	Common Gallinule	R	R	
	Black Rail	R	R	
	King Rail	R	R	

Subgroup	Common Name	Nesting	Migration	Winter
	Virginia Rail	R	O	
<b>Raptors</b>				
	Sharp-shinned Hawk	R	C	C
	Short-eared Owl	EX	O	O
	Red-shouldered Hawk	O	C	O
	Broad-winged Hawk	R	O	
	Northern Harrier	R	O	
	Peregrine Falcon	R	R	R
	Bald Eagle	O	O	O
	Mississippi Kite	R	R	
	Osprey	R	O	
	Barn Owl	R	R	R
<b>Shorebirds</b>				
	Ruddy Turnstone		R	
	Upland Sandpiper	R	R	
	Buff-breasted Sandpiper		R	
	Piping Plover	EX	R	

Subgroup	Common Name	Nesting	Migration	Winter
	Short-billed Dowitcher		O	
	Wilson's Phalarope	R	R	
	American Golden-plover		O	
	Greater Yellowlegs		O	
	Solitary Sandpiper		C	
<b>Songbirds</b>				
	Henslow's Sparrow	R	R	
	Marsh Wren	O	O	
	Sedge Wren	R	O	
	Worm-eating Warbler	R	R	
	Loggerhead Shrike	R	R	R
	Black-and-white Warbler	R	C	
	Cerulean Warbler	R	R	
	Hooded Warbler	R	R	
	Kirtland's Warbler		R	
	Western Meadowlark	R	R	R

<b>Subgroup</b>	<b>Common Name</b>	<b>Nesting</b>	<b>Migration</b>	<b>Winter</b>
	Golden-winged Warbler	EX	R	
	Yellow-headed Blackbird	R	R	
<b><i>Terns</i></b>				
	Black Tern	EX	O	
	Interior Least Tern	R	R	
<b><i>Waterfowl</i></b>				
	Trumpeter Swan	EX	R	R