



THE IOWA WILDLIFE ACTION PLAN



Securing a Future for Fish and Wildlife

A Conservation Legacy for Iowans



Securing a Future for Fish and Wildlife

A Conservation Legacy for Iowans

The Iowa Wildlife Action Plan Appendices

2025

Iowa Department of Natural Resources

Kayla Lyon, Director



To love a place is not enough. We must find ways to heal it.

— Robin Wall Kimmerer

Iowa Wildlife Action Plan

First Edition - May 2006

Author: James J. Zohrer, E Resources Group

Editors: Dr. Terry W. Little, Iowa DNR Wildlife Research Supervisor, and
Douglas C. Harr, Iowa DNR Wildlife Diversity Program Coordinator

Second Edition - August 2012 (Major Revision)

Editor: Katy Reeder, Iowa DNR Wildlife Action Plan Manager

Third Edition - 2015 (Comprehensive Review and Revision)

Editors: Katy Reeder, Iowa DNR Wildlife Action Plan Manager, and
Julia Clymer, Wildlife Action Plan Outreach Assistant

Fourth Edition - 2025 (Comprehensive Review and Revision)

Editors: Katy Fullin Iowa DNR Wildlife Action Plan Manager, and Karen Kinkead, Iowa DNR Wildlife Diversity Program
Manager

Cover Photo Credits:

Southern Plains Bumble Bee: Carter Oliver; North American Racer: MSIM photo; People in prairie: Adam Janke; Widow Skimmer: Harley Davis, MSIM photo; Sedge Wren: Stephen J. Dinsmore; Gophersnake: Stephen J. Dinsmore; American Goldfinch: Carter Oliver; Baltimore Checkerspot: MSIM photo; Cerulean Warbler: Stephen J. Dinsmore; Blanding's Turtle: Stephen J. Dinsmore; Butterfly: MSIM photo.

Suggested Citation:

Iowa Department of Natural Resources. 2025. *Iowa's Wildlife Action Plan: Securing a future for fish and wildlife*. 4th Edition. K Fullin and K Kinkead, eds. Iowa Department of Natural Resources, Des Moines, Iowa, USA.

Acknowledgements

2025 Edition:

This comprehensive review and revision of the Iowa Wildlife Action Plan would not have been possible without the expertise and dedication of many individuals. Please visit Appendix 1 for a list of contributors. I am so grateful for their donation of time to complete assessments and attend meetings, it is humbling and greatly appreciated. Gerald Selby helped keep track of too many details to count and made sure that we kept moving forward. Dr. Adam Janke and Julia Baker jumped in with both feet when the wheels were at risk of falling off. Thank you especially to Dr. Karen Kinkead, without whom this revision effort would not have been possible. You recognized the need and immediately took on a huge share of the responsibility, and I am extremely grateful.

I thank those that originally put the wheels of this Plan in motion in the early 2000s, many of which are listed in Appendix 2. I am also appreciative of the people of Iowa, whom this Plan was developed by, and to whom this Plan belongs. Their collective “Vision for Iowa in 2030” is an inspiration.

Katy Fullin

Iowa Wildlife Action Plan Manager, 2025

Table of Contents

Appendix 1. Iowa Wildlife Action Plan (IWAP) Implementation Committee, Work Group & Subcommittee Members and contributors to the Plan.....	A-1
Appendix 2. Attendees at the IWAP Advisory Group meeting (2004).....	A-5
Appendix 3. List of Iowa Amphibians Evaluated by the IWAP.....	A-8
Appendix 4. List of Iowa Reptiles Evaluated by the IWAP.....	A-10
Appendix 5. List of Iowa Breeding Birds Evaluated by the IWAP.....	A-13
Appendix 6. List of Non-breeding Birds Evaluated by the IWAP.....	A-19
Appendix 7. List of Mammals Evaluated by the IWAP.....	A-26
Appendix 8. List of Iowa Fish Evaluated by the IWAP.....	A-30
Appendix 9. List of Iowa Mussels Evaluated by the IWAP.....	A-37
Appendix 10. List of Iowa Terrestrial Snails Evaluated by the IWAP.....	A-40
Appendix 11. List of Iowa Bumble Bees Evaluated by the IWAP.....	A-44
Appendix 12. List of Iowa Butterflies Evaluated by the IWAP.....	A-46
Appendix 13. List of Iowa Moth Species Evaluated by the IWAP.....	A-51
Appendix 14. List of Iowa Dragonflies and Damselflies Evaluated by the IWAP.....	A-54
Appendix 15. List of Iowa Crayfish Evaluated by the IWAP.....	A-59
Appendix 16. Iowa Threatened and Endangered Animal Species.....	A-60
Appendix 17. Species Status Assessment Criteria.....	A-74
Methodology for Fauna SGCN Selection.....	A-74
Status Assessment Criteria.....	A-74
Range-wide Factor.....	A-74
Iowa-Only Factors.....	A-74
Methodology for Plant SGCN Selection.....	A-75
Appendix 18. Habitat Preferences for SGCN.....	A-77
Appendix 20. Additional Resources.....	A-92
Natural Resource Management & Scientific Agencies in Iowa.....	A-92
Partnerships and Coalitions.....	A-92
Non-governmental Fish and Wildlife Conservation and Scientific Organizations with a Presence in Iowa.....	A-93
Websites.....	A-94
Plans and Strategies.....	A-96

Appendix 1. Iowa Wildlife Action Plan (IWAP) Implementation Committee, Work Group & Subcommittee Members and contributors to the Plan.

Individuals listed below contributed to the revision of this edition of the IWAP

Name	Title	Affiliation	Plan Contributions
Todd Bishop	Wildlife Bureau Chief	DNR Wildlife	Plan Director
Katy Fullin	Wildlife Action Plan Coordinator	DNR Wildlife	Plan Coordinator
Dr. Karen Kinkead	Wildlife Diversity Program Manager	DNR Wildlife	Chair, Wildlife Working Group, overall content, data analyses
Terry VanDeWalle	Senior Ecologist	Stantec	Chair, Amphibian & Reptile Subcommittee
Dr. Steve Dinsmore	Professor of Natural Resource Ecology & Management (NREM)	Iowa State University, Iowa Ornithologist's Union	Chair, Bird Subcommittee
Dr. Mike Rentz	Assistant Professor	Iowa State University	Chair, Mammal Subcommittee
George Scholten	Supervisor of Statewide Programs	DNR Fisheries	Co-Chair, Fish Subcommittee
Gregory Gelwicks	Interior Rivers Research Biologist	DNR Fisheries	Co-Chair, Fish Subcommittee
Dr. Kevin Roe	Associate Professor	Iowa State University	Chair, Mussel Subcommittee and Terrestrial Snail Subcommittee
Dr. Amy Toth	Professor	Iowa State University	Co-Chair, Bumble Bee Subcommittee
Dr. Ai Wen	Associate Professor	University of Northern Iowa	Co-Chair, Bumble Bee Subcommittee
Stephanie Shepherd	Wildlife Diversity Biologist	DNR Wildlife	Chair, Butterfly Subcommittee and Moth Subcommittee, bees
Ryan Rasmussen	Biologist, consultant	Stantec	Chair, Dragonfly & Damselfly Subcommittee, butterflies, mussels
Dr. Michael Moore	Assistant Unit Leader, Fisheries	Iowa Cooperative Fish & Wildlife Research Unit	Chair, Crayfish Subcommittee, fish
John Pearson	Plant Ecologist	DNR Lands & Waters	Chair, Plant Committee, Natural Areas Inventory Program
Gerald Selby	Ecologist, consultant	Ecological & GIS Services	Contracted Wildlife Action Plan revision facilitator & butterflies
Monica Thelen	Land Management Coordinator	DNR Wildlife	GIS, mapping, land cover analyses
Dr. Adam Janke	Associate Professor, Wildlife Extension Specialist	Iowa State University	Content and formatting improvements
Julia Baker	Natural Resources Program Specialist / Industry Extension Specialist II	Iowa State University	Content and formatting improvements

Name	Title	Affiliation	Plan Contributions
Emma Buckardt	Multiple Species Inventory & Monitoring (MSIM) Biologist	Iowa State University	MSIM data analyses, amphibians & reptiles, and overall meeting facilitation
Paul Frese	Wildlife Diversity Technician	DNR Wildlife	Reptiles & amphibians, dragonflies & damselflies, crayfish, mammals
Kelly Poole	Endangered Species Coordinator	DNR Lands & Waters	T&E Species, Natural Areas Inventory Program, mussels
Michael Rohde	Graduate Assistant	Iowa State University	Species distribution modelling
Dan Kaminski	Wildlife Research Biologist	DNR Wildlife	Land cover analyses
Nate Barnett	Port Louisa National Wildlife Refuge	US Fish & Wildlife Service	Amphibians and reptiles
Dr. Paul Bartelt	Professor	Waldorf College	Amphibians and reptiles
Dr. Neil Bernstein	Retired Professor	Mt. Mercy College	Amphibians and reptiles
Chad Dolan	Fisheries Biologist	DNR Fisheries	Amphibians and reptiles
Dan Fogell	Instructor & scientific journal editor	Southeast Community College	Amphibians and reptiles
Dale Maxson	Eastern Iowa Land Steward	The Nature Conservancy	Amphibians and reptiles
Dr. Josh Otten	Assistant Professor	Cornell College	Amphibians and reptiles, dragonflies & damselflies
Dr. Rachel Ruden	Wildlife Veterinarian	DNR Wildlife / ISU Vet Diagnostic Laboratory	Amphibians and reptiles, wildlife health
Brock Struecker	Protected Species Biologist	Iowa Department of Transportation	Amphibians and reptiles
Dr. Jeff Tamplin	Professor	University of Northern Iowa	Amphibians and reptiles
Derek Ballard	Biologist	Ducks Unlimited	Birds, especially waterfowl
John Bissell	Independent bird expert	Iowa Ornithologists Union	Birds
Anna Buckardt	Avian Ecologist	DNR Wildlife	Birds, full life cycle conservation
Bruce Ehresman	Retired Avian Ecologist	Retired DNR Wildlife	Birds, wildlife diversity
Dr. Tyler Harms	Wildlife Biometrician	DNR Wildlife	Birds, grasslands, statistical analyses
Doug Harr	President	Iowa Audubon (and retired DNR Wildlife)	Birds, wildlife diversity
Orrin Jones	Waterfowl Biologist	DNR Wildlife	Birds, especially waterfowl
Eli Kenyon	Independent bird expert	USDA Wildlife Services	Birds
Dr. Robert Klaver	Cooperative Fish & Wildlife Research Unit Leader	US Geological Survey / Iowa State University	Birds, spatial analysis, wildlife research
Dr. Gunnar Kramer	Assistant Professor	Iowa State University	Birds
Dr. Anna Tucker	Cooperative Fish & Wildlife Research Unit Leader	US Geological Survey / Iowa State University	Birds, statistical analysis, wildlife research, bees
Riggs Wilson	Wildlife Diversity Technician	Wildlife Management Institute	Birds, wildlife diversity, wildlife research
Dr. Russ Benedict	Professor	Central College	Mammals
Dr. Phoebe Edwards	Assistant Professor	Iowa State University	Mammals

Name	Title	Affiliation	Plan Contributions
Vince Evelsizer	Furbearer & Wetland Biologist	DNR Wildlife	Mammals, wetland wildlife
Dr. Pete Eyheralde	Associate Professor	William Penn University	Mammals
Tayah Lande	Graduate Student	Iowa State University	Mammals
Dr. David McCullough	Professor	Wartburg College	Mammals
Lincoln Oliver	Fish & Wildlife Biologist	US Fish & Wildlife Service	Mammals, T&E species
Dr. Ryan Rehmeier	Professor & Chair of Department of Biology & Environmental Science	Simpson College	Mammals
Dr. Peter Berendzen	Professor and Head of Department of Biology	University of Northern Iowa	Fish
Scott Gritters	Retired Fisheries Biologist	Retired, DNR Fisheries	Aquatics (fish, mussels, & crayfish), Mississippi River ecology
Ken Krier	Environmental Specialist Senior	DNR Water Quality Monitoring and Assessment Section	Fish, water quality assessment, biological data analysis
Travis Kueter	Fisheries Technician	DNR Fisheries	Fish, Mississippi River ecology
Samuel Nutting	Environmental Specialist	DNR Water Quality Monitoring and Assessment Section	Fish, water quality assessment, biological data analysis
John Olson	Retired Environmental Specialist Senior	Retired from DNR Water Quality Monitoring & Assessment Section	Fish, rare fish, water quality assessment, MSIM
Greg Simmons	Fisheries Technician	DNR Fisheries	Fish, interior rivers & streams
Ben Wallace	Fisheries Biologist	DNR Fisheries	Fish, fisheries management
Dr. Mike Weber	Professor	Iowa State University	Fish
Karen Wilke	Associate Director of Freshwater	The Nature Conservancy	Fish, watershed restoration
Jen Kurth	Natural Resources Biologist	DNR Water Quality Improvement Section	Mussels, statewide mussel survey
Mike Arduser	Independent bee expert	Missouri	Bees
Erika Ibarra-Garibay	Graduate Assistant	Iowa State University	Bees
Dr. Michael Killewald	Agricultural Specialist (Entomologist)	Iowa State University	Bees
Dr. Katherine Kral-O'Brien	Assistant Professor	Iowa State University	Bees, butterflies, pollinator conservation
Kirk Larsen	Entomologist, Professor	Luther College	Bees, entomology
Abigail Miller	Graduate Assistant	Iowa State University	Bees
Sarah Nizzi	Pollinator Conservation Specialist, NRCS Partner Biologist	The Xerces Society for Invertebrate Conservation	Bees, pollinator conservation
Dr. Matt O'Neal	Professor	Iowa State University	Bees, entomology
Dr. Genevieve Pugsek	Conservation Biologist	The Xerces Society for Invertebrate Conservation	Bees, Midwest Bumble Bee Atlas
Tamara Tyner-Swanson	Graduate Assistant	Iowa State University	Bees

Name	Title	Affiliation	Plan Contributions
Aaron Brees	Attorney	DNR Legal Services	Butterflies, moths, dragonflies
Nathan Brockman	Director of Entomology, Reiman Gardens	Reiman Gardens, Iowa State University	Butterflies, insect curation, community science
Jim Durbin	Independent master lepidopterist	Insects of Iowa website	Butterflies, moths, data & website management
Frank Olsen	Independent master lepidopterist		Butterflies
Dr. Shane Patterson	Consultant	Tetra Tech	Butterflies
Anita Westphal	Assistant Curator, Butterfly Wing	Reiman Gardens, Iowa State University	Butterflies
Dr. Keith Summerville	Levitt Distinguished Professor of Environmental Science, Paul and Claudia Schickler Executive Director, Jay N. Darling Institute	Drake University	Lepidoptera
Dr. Greg Courtney	Professor, Curator of Iowa State Insect Collection, Director of Insect Zoo	Iowa State University	Dragonflies and damselflies, aquatic insects, taxonomy
Jay Gilliam	Independent odonata expert		Dragonflies and damselflies
Kim Bogenschutz	Aquatic Invasive Species Program Coordinator	DNR Fisheries	Crayfish, aquatic nuisance species
Dalton Clayton	Graduate Assistant	Iowa State University	Crayfish
Dr. Paul Weihe	Associate Professor	Central College	Crayfish
Dr. Thomas Rosburg	Professor, Curator of the Drake University Herbarium	Drake University	Plants

Appendix 2. Attendees at the IWAP Advisory Group meeting (2004)

Table Appendix 2-1. Attendees at the IWAP Advisory Group meeting in 2004, and their titles and affiliations at that time. In order to accurately display the representation at the forum, no updates have been made to this list to reflect name changes, retirements, or other changes since the original edition of the Plan.

Last Name	First Name	Affiliation	Title	Address
Anderson-Cruz	Jennifer	Natural Resources Conservation Service	Biologist	Des Moines, IA
Andrews	Ron	Iowa DNR Wildlife	Furbearer Specialist & Wildlife Diversity Program	Clear Lake, IA
Bishop	Richard	Iowa DNR Wildlife	ex-Wildlife Bureau Chief	Des Moines, IA
Bogenschutz	Kim	Iowa DNR Fisheries	Aquatic Nuisance Species Coordinator	Boone, IA
Bonneau	Don	Iowa DNR Fisheries	Fisheries Research Supervisor	Moines, IA
Brandrup	Mike	Iowa DNR Cons & Rec.	Division Administrator	Des Moines, IA
Brown	Larry	Ruffed Grouse Society	Representative	Radcliffe IA
Bruce	Angi	Iowa DNR Wildlife	District Wildlife Supervisor	Lewis, IA
Burk	John	National Wild Turkey Federation	Biologist	Fulton, MO 65251
Cancilla	Jodeane	MacBride Raptor Center		Cedar Rapids, IA
Christiansen	Scott	Prairie Edge Sustainable Forestry Cooperative		Edgewood, IA
Clark	Jane	Sierra Club	Chair	Des Moines, IA
Conover	Marion	Iowa DNR Fisheries	Fisheries Bureau Chief	Des Moines, IA
Deaver	Steve	Linn County Conservation Bd.	Resource Technician	Marion, IA
DeGeus	Dave	The Nature Conservancy	Director of Conservation Programs	Des Moines, IA
Dinsmore	James	Iowa Audubon	Representative	Ames, IA
Dolan	Robert	Iowa DNR Wildlife	District Wildlife Supervisor	Manchester, IA
Downing	John	Iowa State University	Professor	Ames, IA
Ehresman	Marlene	IA Natural Heritage Foundation	Program Planning Associate	Des Moines, IA
Ehresman	Bruce	Iowa DNR Wildlife	Wildlife Diversity Program Biologist	Boone, IA
Farrar	Eugenia	EEOB Iowa State University	Professor	Ames, IA
Flynn	Chris	Iowa DNR	Conservation Officer	Birmingham, IA
Ford-Shivvers	Diane	Iowa DNR Cons & Rec.	Asst. Div. Administrator	Des Moines, IA
Francisco	Kim	Natural Resources Commission	Chair	Lucas, IA
Fritzell	Peter	Iowa DNR Wildlife	Assistant Biometrician	Boone, IA
Garner	Dale	Iowa DNR Wildlife	Wildlife Bureau Chief	Des Moines, IA
Gengerke	Tom	Iowa DNR Fisheries	District Fisheries Supervisor	Spirit Lake, IA
Gilbertson	Nancy	US Fish & Wildlife Service	Biologist	Prairie City, IA
Gilliam	Jay	Iowa Ornithologist's Union	Conservation Committee Chair	
Gosselink	Todd	Iowa DNR Wildlife	Wild Turkey Biologist	Chariton, IA

Last Name	First Name	Affiliation	Title	Address
Griffin	Mike	Iowa DNR Wildlife	Mississippi River Coordinator	Bellevue, IA
Gritters	Scott	American Fisheries Society	President	Guttenberg, IA
Hall	Jeff	Representative Boswell's Staff	Staff member	Des Moines, IA
Hansen	Steve	Iowa Woodland Owners Association		Des Moines, IA
Harr	Doug	Iowa DNR Wildlife	Wildlife Diversity Coordinator	Boone, IA
Harson	Greg	Iowa DNR Enforcement	Conservation Officer	Little Rock, IA
Heiser	Neil	Iowa DNR Wildlife	District Wildlife Supervisor	Spirit Lake, IA
Hendricks	Ace	Woodland Growers		Ackworth, IA
Hey	Jane	Morningside College		
Hill	Spencer	Iowa Trappers Association	President	Kanawha, IA
Holland	Steve	Iowa DOT		Ames, IA
Howell	Daryl	Iowa DNR Parks	Senior Environmental Specialist	Des Moines, IA
Hummel	Steve	Ida Co. Cons Bd	Board Member	Lake View, IA
Johnson	Ann	IA Odonata Society	Vice-Chair	Norwalk, IA
Johnson	Chuck	Loess Hills Audubon	Representative	Sioux City, IA
Kane	Kevin	Iowa State University	GIS Facility Director	Ames, IA
Klaas	Erv	Iowa State University (retired)	Professor Emeritus	Ames, IA
Kline	Don	Iowa DNR Fisheries	Natural Resource Biologist	Brighton, IA
Koenig	Darwin	Iowa Audubon		Ankeny IA
Koford	Rolf	Iowa Coop Unit	Professor	Ames, IA
Lamb	Inger	IA Prairie Network, IA Native Lands	President	
Lampe	Richard	Biology Department Buena Vista University	Professor	Storm Lake, IA
Lancaster	Jennifer	Iowa DNR Enforcement	District Law Enforcement Supervisor	Manchester, IA
Larson	Chris	Iowa DNR Fisheries	Natural Resource Technician	Lewis, IA
LeClere	Jeff		Consultant	St Paul, MN
Leopold	Rich	Iowa Environmental Council	Chair	Des Moines, IA
Little	Terry	Iowa DNR Wildlife	Wildlife Research Supervisor Wildlife Diversity Supervisor	Des Moines, IA
MacInroy	Mark	Iowa DNR Wildlife	Wildlife Diversity Technician	Boone, IA
Major	Annabelle	Iowa State University	Grad Student	Ames, IA
Moritz	Bob	Loess Hills Alliance	Chair	Sioux City, IA
Neumann	Kay	Iowa Rehabilitator's Association	President	Dedham, IA
O'Brien	Jason	Iowa NatureMapping	Prog. Coord.	Ames, IA
Olsen	Frank	Lepidopterist		
Otis	Dave	Iowa Cooperative Fish & Wildlife Research Unit	Professor	Ames, IA

Last Name	First Name	Affiliation	Title	Address
Parmalee	Jeff	Simpson College	Professor	Indianola, IA
Poole	Kelly	Iowa Department of Transportation	Aquatic Ecologist	Ames, IA
Roberts	Steve	Iowa DNR - Wildlife	Biometrician	Boone, IA
Robinson	Rick	Iowa Farm Bureau Federation	Environmental Coordinator	West Des Moines, IA
Rovang	Rodney	U.S. Park Service	Resource Manager	Harper's Ferry, IA
Sand	Duane	INHF		Norwalk, IA
Schlarbaum	Pat	Iowa DNR Wildlife	Wildlife Diversity Program Technician	Boone, IA
Schlict	Dennis		Biology Teacher	Center Point, IA
Schwager	Marty	Iowa Pork Producer's Association	Executive Director	Clive, IA
Skibbe	Jessica	Iowa State University	Grad student	Ames, IA
Skold	Steve	Safari Club International	Regional Rep.	West Des Moines, IA
Smith	Kelly	Iowa DNR Wildlife	Landowner Incentive Program Coordinator	Des Moines, IA
Sproul	Tim	Harrison CCB	Director	Woodbine, IA
Steffen	Chuck	The Wildlife Society	President	Ottumwa, IA
Suchy	Willie	Iowa DNR Wildlife	Deer Biologist	Chariton, IA
Sweet	Mike	US Fish & Wildlife Service	Biologist	Ft. Snelling MN
Sweet	Craig	Iowa Trappers Association		IA
Swinton	Rod	Iowa Tree Farm Committee		Waterloo, IA
Szcodronski	Kevin	Iowa DNR Parks	Bureau Chief	Des Moines, IA
VanDeWalle	Terry	EarthTech	Biologist	Waterloo, IA
VanWaus	Dave	Pheasants Forever	Regional Director	Colo, IA
Walkowiak	John	Iowa DNR Forestry	Bureau Chief	Des Moines, IA
Weedum	Joe	Hawkeye Flyfishing Association	President	Altoona, IA
Whittlesey	Dave	National Wild Turkey Federation	Supervisor	Woodburn, IA
Wooley	Jim	Pheasants Forever	State Director	Chariton, IA
Zarwell	Rick	Iowa Audubon	Important Bird Area Coordinator	Lansing, IA
Zenner	Guy	Iowa DNR - Wildlife	Waterfowl Biologist	Clear Lake, IA
Ziemer	Kathleen	Butterfliz of Iowa		Des Moines, IA
Zohrer	Jim	E Resources, Inc.	Private Consultant	West Des Moines, IA

Appendix 3. List of Iowa Amphibians Evaluated by the IWAP.

Taxonomic order and scientific names derived from: The [Society for the Study of Amphibians and Reptiles Standard English and Scientific Names](#) Document.

Nicholson, KE. (ed.). 2025. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding. Ninth Edition. Society for the Study of Amphibians and Reptiles. 87pp.

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Order: Caudata - Salamanders					
Family: Ambystomatidae – Mole Salamanders					
1	Blue-spotted Salamander	<i>Ambystoma laterale</i>	Y	I-E	R
2	Small-mouthed Salamander	<i>Ambystoma texanum</i>	Y	I-SC	
3	Eastern Tiger Salamander	<i>Ambystoma tigrinum</i>	Y		
Family: Salamandridae – Eastern Newts					
4	Eastern Newt	<i>Notophthalmus viridescens</i>	Y	I-T	WA
Family: Proteidae - Mudpuppies and Waterdogs					
5	Mudpuppy	<i>Necturus maculosus</i>	Y	I-T	R
Order: Anura - Frogs					

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Family: Scaphiophidae - Western Spadefoots					
6	Plains Spadefoot	<i>Spea bombifrons</i>	Y	I-SC	
Family: Hylidae - Treefrogs					
7	Blanchard's Cricket Frog	<i>Acris blanchardi</i>			R
8	Cope's Gray Treefrog	<i>Dryophytes chrysoscelis</i>			
9	Eastern Gray Treefrog	<i>Dryophytes versicolor</i>			
10	Spring Peeper	<i>Pseudacris crucifer</i>			
11	Boreal Chorus Frog	<i>Pseudacris maculata</i>			
Family: Bufonidae – North American Toads					
12	American Toad	<i>Anaxyrus americanus</i>			WA
13	Great Plains Toad	<i>Anaxyrus cognatus</i>	Y		
14	Fowler's Toad	<i>Anaxyrus fowleri</i>			WA
15	Woodhouse's Toad	<i>Anaxyrus woodhousii</i>			
Family: Ranidae – North American Water Frogs					
16	Crawfish Frog*	<i>Lithobates areolatus</i>	Y		R
17	Plains Leopard Frog	<i>Lithobates blairi</i>			
18	North American Bullfrog	<i>Lithobates catesbeianus</i>			
19	North American Green Frog	<i>Lithobates clamitans</i>			
20	Pickerel Frog	<i>Lithobates palustris</i>			WA
21	Northern Leopard Frog	<i>Lithobates pipiens</i>			WA
22	Southern Leopard Frog	<i>Lithobates sphenoccephalus</i>			

*Extirpated from Iowa, but reintroduction is a possibility.

Other Species That Have Been Recorded in Iowa - most of these are likely released pets.

Common Name	Scientific Name	Explanation
Dusky Salamander	<i>Desmognathus spp</i>	There appears to be an established population in Northeast Iowa
Green Tree Frog	<i>Dryophytes cinereus</i>	
Eastern Narrow-mouthed Toad	<i>Gastrophryne carolinensis</i>	

Presumed Extirpated from Iowa

Common Name	Scientific Name	Explanation
Crawfish Frog	<i>Lithobates areolatus</i>	This species has not been documented in Iowa since the 1940s. Iowa is at the northern edge of the species range.

Appendix 4. List of Iowa Reptiles Evaluated by the IWAP.

Taxonomic order and scientific names derived from: The [Society for the Study of Amphibians and Reptiles Standard English and Scientific Names](#) Document.

Nicholson, KE. (ed.). 2025. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding. Ninth Edition. Society for the Study of Amphibians and Reptiles. 87pp.

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status refers to whether a species is listed as either state or federally Endangered or Threatened, at the time of this plan's publication. For up-to-date state listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Order: Squamata - Suborder: Lacertilia					
Family: Anguidae - Glass Lizards					
1	Slender Glass Lizard	<i>Ophisaurus attenuatus</i>	Y	I-T	WA
Family: Scincidae - Skinks					
2	Common Five-lined Skink	<i>Plestiodon faciatus</i>	Y		
3	Great Plains Skink	<i>Plestiodon obsoletus</i>	Y	I-E	
4	Prairie Skink	<i>Plestiodon septentrionalis</i>			WA
Family: Teiidae - Racerunners and Whiptails					
5	Six-lined Racerunner	<i>Aspidoscelis sexlineata</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Order: Squamata - Suborder: Serpentes					
	Family: Colubridae - Harmless Snakes				
6	Western Wormsnake	<i>Carphophis vermis</i>	Y	I-T	
7	North American Racer	<i>Coluber constrictor</i>	Y		
8	Ring-necked Snake	<i>Diadophis punctatus</i>	Y		
9	Western Hog-nosed Snake	<i>Heterodon nasicus</i>	Y	I-E	R
10	Eastern Hog-nosed Snake	<i>Heterodon platirhinos</i>	Y		WA
11	Prairie Kingsnake	<i>Lampropeltis calligaster</i>	Y	I-SC	
12	Speckled Kingsnake	<i>Lampropeltis holbrooki</i>	Y	I-T	
13	Eastern Milksnake	<i>Lampropeltis triangulum</i>			
14	Plain-bellied Watersnake*	<i>Nerodia erythrogaster</i>	Y	I-T	R
15	Diamond-backed Watersnake	<i>Nerodia rhombifer</i>	Y	I-T	
16	Common Watersnake	<i>Nerodia sipedon</i>			
17	Smooth Greensnake	<i>Opheodrys vernalis</i>	Y	I-SC	R
18	Western Ratsnake	<i>Pantherophis obsoletus</i>	Y		
19	Western Foxsnake	<i>Pantherophis ramspotti</i>			WA
20	Gophersnake	<i>Pituophis catenifer</i>		I-T	
21	Graham's Crayfish Snake	<i>Regina grahamii</i>	Y	I-T	
22	Dekay's Brownsnake	<i>Storeria dekayi</i>			
23	Red-bellied Snake	<i>Storeria occipitomaculata</i>			
24	Western Ribbonsnake	<i>Thamnophis proximus</i>	Y		
25	Plains Gartersnake	<i>Thamnophis radix</i>			WA
26	Common Gartersnake	<i>Thamnophis sirtalis</i>			
27	Lined Snake	<i>Tropidoclonion lineatum</i>	Y		
28	Smooth Earthsnake	<i>Virginia valeriae</i>	Y		
	Family: Viperidae - Vipers				
29	Eastern Copperhead	<i>Agkistrodon contortrix</i>	Y	I-E	
30	Timber Rattlesnake	<i>Crotalus horridus</i>	Y	I-SC	R
31	Prairie Rattlesnake	<i>Crotalus viridis</i>	Y	I-E	
32	Eastern Massasauga	<i>Sistrurus catenatus</i>	Y	I-E, F-E	R
33	Western Massasauga	<i>Sistrurus tergeminus</i>	Y	I-E	R
Order: Testudines - Suborder: Cryptodira					
	Family: Chelydridae - Snapping Turtles				
34	North American Snapping Turtle	<i>Chelydra serpentina</i>	Y		
	Family: Emydidae - Freshwater Turtles				
35	Painted Turtle	<i>Chrysemys picta</i>			
36	Blanding's Turtle	<i>Emydoidea blandingii</i>	Y	I-T	R
37	Wood Turtle	<i>Glyptemys insculpta</i>	Y	I-E	R
38	Northern Map Turtle	<i>Graptemys geographica</i>	Y	I-SC	
39	Ouachita Map Turtle	<i>Graptemys ouachitensis</i>	Y	I-SC	WA

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
40	False Map Turtle	<i>Graptemys pseudogeographica</i>	Y	I-SC	
41	Ornate Box Turtle	<i>Terrapene ornata</i>	Y	I-T	WA
42	Pond Slider	<i>Trachemys scripta elegans</i>			
Family: Kinosternidae - Mud and Musk Turtles					
43	Yellow Mud Turtle	<i>Kinosternon flavescens</i>	Y	I-E	R
44	Eastern Musk Turtle	<i>Sternotherus odoratus</i>	Y	I-T	
Family: Trionychidae - Softshells					
45	Smooth Softshell	<i>Apalone mutica</i>	Y	I-SC	
46	Spiny Softshell	<i>Apalone spinifera</i>			

*The Copperbelly Watersnake (*Nerodia erythrogaster neglecta*) was renamed Plain-bellied Watersnake (*Nerodia erythrogaster*) after the subspecies designation was removed. However, the northern Distinct Population Segment (DPS) of the Copperbelly Water Snake (*Nerodia erythrogaster neglecta*) is still federally listed as threatened (status not yet updated to show taxonomic name change). This DPS includes northern Indiana, Michigan, and Ohio, and does not include Iowa populations.

Other Species That Have Been Recorded in Iowa - most likely released pets.

Common Name	Scientific Name	Explanation
Three-toed Box Turtle	<i>Terrapene triunguis</i>	This species does not appear to be surviving or reproducing in Iowa

Appendix 5. List of Iowa Breeding Birds Evaluated by the IWAP.

Taxonomic order and nomenclature derived from: The [American Ornithological Society Check-List of North American Birds](#).

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

R2R Refers to Road to [Recovery Tipping Point Species List](#).

- Red Alert Species: Very High Urgency (perilously low population size, steeply declining or unknown population trend)
- Orange Alert Species: (large population loss, continued or accelerated decline, conservation reliant)
- Yellow Alert List: Moderate Urgency (large population loss, but now relatively stable, still conservation reliant)

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
1	Black-bellied Whistling-Duck	<i>Dendrocygna autumnalis</i>				
2	Canada Goose	<i>Branta canadensis</i>				
3	Trumpeter Swan	<i>Cygnus buccinator</i>				
4	Wood Duck	<i>Aix sponsa</i>				
5	Blue-winged Teal	<i>Spatula discors</i>				
6	Northern Shoveler	<i>Spatula clypeata</i>				
7	Gadwall	<i>Mareca strepera</i>				
8	American Wigeon	<i>Mareca americana</i>	Y			
9	Mallard	<i>Anas platyrhynchos</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
10	American Black Duck	<i>Anas rubripes</i>	Y			
11	Northern Pintail	<i>Anas acuta</i>	Y	I-SC		Yellow
12	Green-winged Teal	<i>Anas crecca</i>				
13	Canvasback	<i>Aythya valisineria</i>	Y			
14	Redhead	<i>Aythya americana</i>				
15	Ring-necked Duck	<i>Aythya collaris</i>				
16	Lesser Scaup	<i>Aythya affinis</i>	Y			
17	Hooded Merganser	<i>Lophodytes cucullatus</i>				
18	Ruddy Duck	<i>Oxyura jamaicensis</i>				
19	Northern Bobwhite	<i>Colinus virginianus</i>	Y		R	
20	Wild Turkey	<i>Meleagris gallopavo</i>				
21	Ruffed Grouse	<i>Bonasa umbellus</i>	Y	I-SC		
22	Greater Prairie-Chicken	<i>Tympanuchus cupido</i>	Y		R	Red
23	Pied-billed Grebe	<i>Podilymbus podiceps</i>				
24	Red-necked Grebe	<i>Podiceps grisegena</i>	Y	I-SC		
25	Eared Grebe	<i>Podiceps nigricollis</i>				
26	Western Grebe	<i>Aechmophorus occidentalis</i>	Y	I-SC		
27	White-winged Dove	<i>Zenaida asiatica</i>				
28	Mourning Dove	<i>Zenaida macroura</i>				
29	Yellow-billed Cuckoo	<i>Coccyzus americanus</i>				
30	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Y		R	
31	Common Nighthawk	<i>Chordeiles minor</i>	Y			
32	Chuck-will's-widow	<i>Antrostomus carolinensis</i>	Y	I-T		
33	Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	Y	I-SC	R	Yellow
34	Chimney Swift	<i>Chaetura pelagica</i>	Y	I-SC	R	Orange
35	Ruby-throated Hummingbird	<i>Archilochus colubris</i>				
36	King Rail	<i>Rallus elegans</i>	Y	I-T	WA	Orange
37	Virginia Rail	<i>Rallus limicola</i>				
38	Sora	<i>Porzana carolina</i>				
39	Common Gallinule	<i>Gallinula galeata</i>				
40	American Coot	<i>Fulica americana</i>				
41	Sandhill Crane	<i>Antigone canadensis</i>				
42	Black-necked Stilt	<i>Himantopus mexicanus</i>	Y			
43	Killdeer	<i>Charadrius vociferus</i>				
44	Piping Plover	<i>Charadrius melodus</i>	Y	I-E, F-E	R	Orange
45	Upland Sandpiper	<i>Bartramia longicauda</i>			R	
46	American Woodcock	<i>Scolopax minor</i>				
47	Wilson's Snipe	<i>Gallinago delicata</i>	Y	I-SC		
48	Spotted Sandpiper	<i>Actitis macularius</i>				
49	Wilson's Phalarope	<i>Phalaropus tricolor</i>	Y			
50	Franklin's Gull	<i>Leucophaeus pipixcan</i>	Y	I-SC		
51	Ring-billed Gull	<i>Larus delawarensis</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
52	Least Tern	<i>Sterna antillarum</i>	Y	I-T, F-E*	R	Orange
53	Black Tern	<i>Chlidonias niger</i>	Y	I-T	R	
54	Forster's Tern	<i>Sterna forsteri</i>	Y	I-T		
55	Double-crested Cormorant	<i>Nannopterum auritum</i>				
56	American White Pelican	<i>Pelecanus erythrorhynchos</i>	Y			
57	Least Bittern	<i>Botaurus exilis</i>				
58	American Bittern	<i>Botaurus lentiginosus</i>	Y			
59	Yellow-crowned Night Heron	<i>Nyctanassa violacea</i>	Y			
60	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Y			
61	Green Heron	<i>Butorides virescens</i>				
62	Great Egret	<i>Ardea albus</i>				
63	Western Cattle-Egret	<i>Ardea ibis</i>				
64	Great Blue Heron	<i>Ardea herodias</i>				
65	White-faced Ibis	<i>Plegadis chihi</i>	Y			
66	Turkey Vulture	<i>Cathartes aura</i>				
67	Osprey	<i>Pandion haliaetus</i>				
68	Northern Harrier	<i>Circus hudsonius</i>				
69	Sharp-shinned Hawk	<i>Accipiter striatus</i>				
70	Cooper's Hawk	<i>Accipiter cooperii</i>				
71	Bald Eagle	<i>Haliaeetus leucocephalus</i>				
72	Mississippi Kite	<i>Ictinia mississippiensis</i>				
73	Red-shouldered Hawk	<i>Buteo lineatus</i>				
74	Broad-winged Hawk	<i>Buteo platypterus</i>				
75	Swainson's Hawk	<i>Buteo swainsoni</i>	Y			
76	Red-tailed Hawk	<i>Buteo jamaicensis</i>				
77	American Barn Owl	<i>Tyto furcata</i>	Y			
78	Eastern Screech-Owl	<i>Megascops asio</i>	Y			
79	Great Horned Owl	<i>Bubo virginianus</i>				
80	Burrowing Owl	<i>Athene cunicularia</i>	Y			
81	Barred Owl	<i>Strix varia</i>				
82	Long-eared Owl	<i>Asio otus</i>	Y	I-T		
83	Short-eared Owl	<i>Asio flammeus</i>	Y	I-T	R	
84	Belted Kingfisher	<i>Megaceryle alcyon</i>				
85	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>			R	
86	Red-bellied Woodpecker	<i>Melanerpes carolinus</i>				
87	Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>				
88	Downy Woodpecker	<i>Dryobates pubescens</i>				
89	Hairy Woodpecker	<i>Dryobates villosus</i>				
90	Northern Flicker	<i>Colaptes auratus</i>				
91	Pileated Woodpecker	<i>Dryocopus pileatus</i>				
92	American Kestrel	<i>Falco sparverius</i>	Y			
93	Merlin	<i>Falco columbarius</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
94	Peregrine Falcon	<i>Falco peregrinus</i>				
95	Great Crested Flycatcher	<i>Myiarchus crinitus</i>				
96	Western Kingbird	<i>Tyrannus verticalis</i>				
97	Eastern Kingbird	<i>Tyrannus tyrannus</i>				
98	Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	Y	I-SC		
99	Eastern Wood-Pewee	<i>Contopus virens</i>				
100	Acadian Flycatcher	<i>Empidonax virescens</i>				
101	Alder Flycatcher	<i>Empidonax alnorum</i>				
102	Willow Flycatcher	<i>Empidonax traillii</i>				
103	Least Flycatcher	<i>Empidonax minimus</i>				
104	Eastern Phoebe	<i>Sayornis phoebe</i>				
105	Say's Phoebe	<i>Sayornis saya</i>	Y			
106	White-eyed Vireo	<i>Vireo griseus</i>				
107	Bell's Vireo	<i>Vireo bellii</i>				
108	Yellow-throated Vireo	<i>Vireo flavifrons</i>				
109	Warbling Vireo	<i>Vireo gilvus</i>				
110	Red-eyed Vireo	<i>Vireo olivaceus</i>				
111	Loggerhead Shrike	<i>Lanius ludovicianus</i>	Y	I-SC	R	
112	Blue Jay	<i>Cyanocitta cristata</i>				
113	American Crow	<i>Corvus brachyrhynchos</i>				
114	Black-capped Chickadee	<i>Poecile atricapillus</i>				
115	Tufted Titmouse	<i>Baeolophus bicolor</i>				
116	Horned Lark	<i>Eremophila alpestris</i>				
117	Bank Swallow	<i>Riparia riparia</i>	Y		WA	
118	Tree Swallow	<i>Tachycineta bicolor</i>				
119	Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>				
120	Purple Martin	<i>Progne subis</i>	Y			
121	Barn Swallow	<i>Hirundo rustica</i>				
122	Cliff Swallow	<i>Petrochelidon pyrrhonota</i>				
123	Cedar Waxwing	<i>Bombycilla cedrorum</i>				
124	Red-breasted Nuthatch	<i>Sitta canadensis</i>				
125	White-breasted Nuthatch	<i>Sitta carolinensis</i>				
126	Brown Creeper	<i>Certhia americana</i>				
127	Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>				
128	Bewick's Wren	<i>Thryomanes bewickii</i>	Y			
129	Carolina Wren	<i>Thryothorus ludovicianus</i>				
130	Northern House Wren	<i>Troglodytes aedon</i>				
131	Winter Wren	<i>Troglodytes hiemalis</i>				
132	Sedge Wren	<i>Cistothorus stellaris</i>				
133	Marsh wren	<i>Cistothorus palustris</i>				
134	Gray Catbird	<i>Dumetella carolinensis</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
135	Brown Thrasher	<i>Toxostoma rufum</i>				
136	Northern Mockingbird	<i>Mimus polyglottos</i>				
137	Eastern Bluebird	<i>Sialia sialis</i>				
138	Veery	<i>Catharus fuscescens</i>	Y			
139	Wood Thrush	<i>Hylocichla mustelina</i>			WA	Yellow
140	American Robin	<i>Turdus migratorius</i>				
141	House Finch	<i>Haemorhous mexicanus</i>				
142	Red Crossbill	<i>Loxia curvirostra</i>				
143	Pine Siskin	<i>Spinus pinus</i>				
144	American Goldfinch	<i>Spinus tristis</i>				
145	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Y		R	
146	Lark Sparrow	<i>Chondestes grammacus</i>				
147	Chipping Sparrow	<i>Spizella passerina</i>				
148	Clay-colored Sparrow	<i>Spizella pallid</i>				
149	Field Sparrow	<i>Spizella pusilla</i>			WA	Yellow
150	Vesper Sparrow	<i>Poocetes gramineus</i>				
151	Henslow's Sparrow	<i>Centronyx henslowii</i>			R	Yellow
152	Savannah Sparrow	<i>Passerculus sandwichensis</i>				
153	Song Sparrow	<i>Melospiza melodia</i>				
154	Swamp Sparrow	<i>Melospiza georgiana</i>				
155	Eastern Towhee	<i>Pipilo erythrophthalmus</i>				Orange
156	Yellow-breasted Chat	<i>Icteria virens</i>				
157	Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>				
158	Bobolink	<i>Dolichonyx oryzivorus</i>	Y	I-SC	R	Orange
159	Eastern Meadowlark	<i>Sturnella magna</i>			R	
160	Western Meadowlark	<i>Sturnella neglecta</i>	Y	I-SC	R	
161	Orchard Oriole	<i>Icterus spurius</i>				
162	Baltimore Oriole	<i>Icterus galbula</i>				
163	Red-winged Blackbird	<i>Agelaius phoeniceus</i>				
164	Brown-headed Cowbird	<i>Molothrus ater</i>				
165	Common Grackle	<i>Quiscalus quiscula</i>				
166	Great-tailed Grackle	<i>Quiscalus mexicanus</i>				
167	Ovenbird	<i>Seiurus aurocapilla</i>				
168	Worm-eating Warbler	<i>Helmitheros aurocapilla</i>				
169	Louisiana Waterthrush	<i>Parkesia motacilla</i>				
170	Blue-winged Warbler	<i>Vermivora cyanoptera</i>	Y			
171	Black-and-white Warbler	<i>Mniotilta varia</i>				
172	Prothonotary Warbler	<i>Protonotaria citrea</i>			WD (SE)	
173	Kentucky Warbler	<i>Geothlypis formosus</i>			WD (SE)	
174	Common Yellowthroat	<i>Geothlypis trichas</i>				
175	Hooded Warbler	<i>Setophaga citrina</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
176	American Redstart	<i>Setophaga ruticilla</i>				
177	Cerulean Warbler	<i>Setophaga cerulea</i>	Y		R	Yellow
178	Northern Parula	<i>Setophaga americana</i>				
179	Yellow Warbler	<i>Setophaga petechia</i>				
180	Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>				
181	Pine Warbler	<i>Setophaga pinus</i>				
182	Yellow-throated Warbler	<i>Setophaga dominica</i>				
183	Prairie Warbler	<i>Setophaga discolor</i>			WD (SE)	
184	Summer Tanager	<i>Piranga rubra</i>				
185	Scarlet Tanager	<i>Piranga olivacea</i>				
186	Northern Cardinal	<i>Cardinalis cardinalis</i>				
187	Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>				
188	Blue Grosbeak	<i>Passerina caerulea</i>				
189	Indigo Bunting	<i>Passerina cyanea</i>				
190	Dickcissel	<i>Spiza americana</i>				

*In 2021, the Interior Least Tern population (including Iowa) was delisted. Other populations of Least Terns remain on the list of federally Threatened species.

Appendix 6. List of Non-breeding Birds Evaluated by the IWAP.

Taxonomic order and nomenclature derived from: The [American Ornithological Society Check-List of North American Birds](#).

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status refers to whether a species is listed as either state or federally Endangered or Threatened, at the time of this plan's publication. For up-to-date state listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).

R2R Refers to [Road to Recovery Tipping Point Species List](#).

- Red Alert Species: Very High Urgency (perilously low population size, steeply declining or unknown population trend)
- Orange Alert Species: (large population loss, continued or accelerated decline, conservation reliant)
- Yellow Alert List: Moderate Urgency (large population loss, but now relatively stable, still conservation reliant)

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
1	Snow Goose	<i>Anser caerulescens</i>				
2	Ross's Goose	<i>Anser rossii</i>				
3	Greater White-fronted Goose	<i>Anser albifrons</i>				
4	Cackling Goose	<i>Branta hutchinsii</i>				
5	Tundra Swan	<i>Cygnus columbianus</i>				
6	Greater Scaup	<i>Aythya marila</i>	Y			
7	Bufflehead	<i>Bucephala albeola</i>				
8	Common Goldeneye	<i>Bucephala clangula</i>				
9	Common Merganser	<i>Mergus merganser</i>				
10	Red-breasted Merganser	<i>Mergus serrator</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
11	Horned Grebe	<i>Podiceps auritus</i>	Y			Yellow
12	Yellow Rail	<i>Coturnicops noveboracensis</i>	Y		R	Yellow
13	Black Rail	<i>Laterallus jamaicensis</i>				Red
14	Whooping Crane	<i>Grus americana</i>	Y	F-E	R	Orange
15	American Avocet	<i>Recurvirostra americana</i>				
16	Black-bellied Plover	<i>Pluvialis squatarola</i>	Y			Orange
17	American Golden-Plover	<i>Pluvialis dominica</i>	Y			Orange
18	Semipalmated Plover	<i>Charadrius semipalmatus</i>	Y		WA	
19	Whimbrel	<i>Numenius phaeopus</i>	Y			Orange
20	Long-billed Curlew	<i>Numenius americanus</i>	Y			
21	Hudsonian Godwit	<i>Limosa haemastica</i>	Y			Red
22	Marbled Godwit	<i>Limosa fedoa</i>	Y		R	
23	Ruddy Turnstone	<i>Arenaria interpres</i>	Y			Orange
24	Red Knot	<i>Calidris canutus</i>	Y	F-T*		Orange
25	Stilt Sandpiper	<i>Caladris himantopus</i>	Y			Orange
26	Sanderling	<i>Calidris alba</i>	Y			Orange
27	Dunlin	<i>Calidris alpina</i>	Y			
28	Baird's Sandpiper	<i>Calidris bairdii</i>				
29	Least Sandpiper	<i>Calidris minutilla</i>				
30	White-rumped Sandpiper	<i>Calidris fuscicollis</i>	Y			
31	Buff-breasted Sandpiper	<i>Calidris subruficollis</i>	Y		R	Orange
32	Pectoral Sandpiper	<i>Calidris melanotos</i>	Y			Orange
33	Semipalmated Sandpiper	<i>Calidris pusilla</i>				Orange
34	Western Sandpiper	<i>Calidris mauri</i>				
35	Short-billed Dowitcher	<i>Limnodromus griseus</i>	Y			Orange
36	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	Y			Orange
37	Solitary Sandpiper	<i>Tringa solitaria</i>				
38	Lesser Yellowlegs	<i>Tringa flavipes</i>				Orange
39	Willet	<i>Tringa semipalmatus</i>			WA	
40	Greater Yellowlegs	<i>Tringa melanoleuca</i>				Orange
41	Red-necked Phalarope	<i>Phalaropus lobatus</i>				
42	Bonaparte's Gull	<i>Chroicocephalus philadelphia</i>	Y			
43	Herring Gull	<i>Larus argentatus</i>	Y			
44	Glaucous Gull	<i>Larus hyperboreus</i>				Orange
45	Caspian Tern	<i>Hydroprogne caspia</i>				
46	Common Tern	<i>Sterna hirundo</i>	Y			
47	Common Loon	<i>Gavia immer</i>	Y			
48	Little Blue Heron	<i>Egretta caerulea</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
49	Snowy Egret	<i>Egretta thula</i>				
50	Glossy Ibis	<i>Plegadis falcinellus</i>				
51	Golden Eagle	<i>Aquila chrysaetos</i>				
52	American Goshawk	<i>Accipiter atricapillus</i>				
53	Rough-legged Hawk	<i>Buteo lagopus</i>				
54	Snowy Owl	<i>Bubo scandiaca</i>				
55	Northern Saw-whet Owl	<i>Aegolius acadicus</i>				
56	Prairie Falcon	<i>Falco mexicanus</i>				
57	Olive-sided Flycatcher	<i>Contopus cooperi</i>	Y			Yellow
58	Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	Y			
59	Blue-headed Vireo	<i>Vireo solitarius</i>				
60	Philadelphia Vireo	<i>Vireo philadelphicus</i>	Y			
61	Northern Shrike	<i>Lanius borealis</i>	Y			
62	Ruby-crowned Kinglet	<i>Corthylio calendula</i>				
63	Golden-crowned Kinglet	<i>Regulus satrapa</i>				
64	Bohemian Waxwing	<i>Bombycilla garrulus</i>	Y			
65	Townsend's Solitaire	<i>Myadestes townsendi</i>				
66	Gray-cheeked Thrush	<i>Catharus minimus</i>				
67	Swainson's Thrush	<i>Catharus ustulatus</i>				
68	Hermit Thrush	<i>Catharus guttatus</i>				
69	American Pipit	<i>Anthus rubescens</i>				
70	Sprague's Pipit	<i>Anthus spragueii</i>	Y	F-C	R	Orange
71	Purple Finch	<i>Haemorhous purpureus</i>				
72	Redpoll	<i>Acanthis flammea</i>	Y			
73	White-winged Crossbill	<i>Loxia leucoptera</i>	Y			
74	Lapland Longspur	<i>Calcarius lapponicus</i>	Y			
75	Smith's Longspur	<i>Calcarius pictus</i>			WD (SE)	
76	Snow Bunting	<i>Plectrophenax nivalis</i>				
77	Fox Sparrow	<i>Passerella iliaca</i>				
78	American Tree Sparrow	<i>Spizelloides arborea</i>				
79	Dark-eyed Junco	<i>Junco hyemalis</i>				
80	White-crowned Sparrow	<i>Zonotrichia leucophrys</i>				
81	Harris's Sparrow	<i>Zonotrichia querula</i>				
82	White-throated Sparrow	<i>Zonotrichia albicollis</i>				
83	Le Conte's Sparrow	<i>Ammodramus leconteii</i>			R	Orange
84	Nelson's Sparrow	<i>Ammodramus nelsoni</i>			R	
85	Lincoln's Sparrow	<i>Melospiza lincolnii</i>				
86	Spotted Towhee	<i>Pipilo maculatus</i>				

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	R2R
87	Rusty Blackbird	<i>Euphagus carolinus</i>			R	
88	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>				
89	Northern Waterthrush	<i>Parkesia noveboracensis</i>				
90	Golden-winged Warbler	<i>Vermivora chrysoptera</i>	Y			Yellow
91	Tennessee Warbler	<i>Leiothlypis peregrina</i>				
92	Orange-crowned Warbler	<i>Leiothlypis celata</i>				
93	Nashville Warbler	<i>Leiothlypis ruficapilla</i>				
94	Connecticut Warbler	<i>Oporornis agilis</i>	Y		R	
95	Mourning Warbler	<i>Geothlypis philadelphia</i>				
96	Cape May Warbler	<i>Setophaga tigrina</i>				
97	Magnolia Warbler	<i>Setophaga magnolia</i>				
98	Bay-breasted Warbler	<i>Setophaga castanea</i>	Y			
99	Blackburnian Warbler	<i>Setophaga fusca</i>				
100	Blackpoll Warbler	<i>Setophaga striata</i>				
101	Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	Y			
102	Palm Warbler	<i>Setophaga palmarum</i>				
103	Yellow-rumped Warbler	<i>Setophaga coronata</i>				
104	Black-throated Green Warbler	<i>Setophaga virens</i>				
105	Canada Warbler	<i>Cardellina canadensis</i>				
106	Wilson's Warbler	<i>Cardellina pusilla</i>				

*Red Knot - only the subspecies *Calidris canutus rufa* is listed as federally threatened; this subspecies does not occur in Iowa.

Vagrant Species - These species are considered stray or vagrant in Iowa. They have confirmed documentation of occurrence in the state but do not have established populations within Iowa. In some years, populations of these species expand into portions of the state.

	Common Name	Scientific Name	Notes
1	Taiga Bean-Goose	<i>Anser fabalis</i>	
2	Brant	<i>Branta bernicla</i>	
3	Garganey	<i>Spatula querquedula</i>	
4	Cinnamon Teal	<i>Spatula cyanoptera</i>	
5	Eurasian Wigeon	<i>Mareca penelope</i>	
6	King Eider	<i>Somateria spectabilis</i>	R2R - Orange
7	Common Eider	<i>Somateria mollissima</i>	
8	Harlequin Duck	<i>Histrionicus histrionicus</i>	
9	Surf Scoter	<i>Melanitta perspicillata</i>	
10	White-winged Scoter	<i>Melanitta deglandi</i>	
11	Black Scoter	<i>Melanitta americana</i>	R2R - Yellow
12	Long-tailed Duck	<i>Clangula hyemalis</i>	R2R - Orange
13	Barrow's Goldeneye	<i>Bucephala islandica</i>	
14	Clark's Grebe	<i>Aechmophorus clarkii</i>	
15	Common Ground-Dove	<i>Columbina passerina</i>	

	Common Name	Scientific Name	Notes
16	Groove-billed Ani	<i>Crotophaga sulcirostris</i>	
17	Rufous Hummingbird	<i>Selasphorus rufus</i>	
18	Purple Gallinule	<i>Porphyrio martinicus</i>	
19	Snowy Plover	<i>Anarhynchus nivosus</i>	
20	Ruff	<i>Calidris pugnax</i>	
21	Curlew Sandpiper	<i>Calidris ferruginea</i>	
22	Red Phalarope	<i>Phalaropus fulicarius</i>	
23	Pomarine Jaeger	<i>Stercorarius pomarinus</i>	
24	Parasitic Jaeger	<i>Stercorarius parasiticus</i>	
25	Long-tailed Jaeger	<i>Stercorarius longicaudus</i>	
26	Thick-billed Murre	<i>Uria lomvia</i>	
27	Long-billed Murrelet	<i>Brachyramphus perdix</i>	
28	Ancient Murrelet	<i>Synthliboramphus antiquus</i>	
29	Black-legged Kittiwake	<i>Rissa tridactyla</i>	
30	Ivory Gull	<i>Pagophila eburnea</i>	
31	Sabine's Gull	<i>Xema sabini</i>	
32	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	
33	Little Gull	<i>Hydrocoloeus minutus</i>	
34	Ross's Gull	<i>Rhodostethia rosea</i>	
35	Laughing Gull	Larus <i>Leucophaeus atricilla</i>	
36	Common Gull	<i>Larus canus</i>	
37	California Gull	<i>Larus californicus</i>	
38	Iceland Gull	<i>Larus glaucoides</i>	Merged with Thayer's
39	Lesser Black-backed Gull	<i>Larus fuscus</i>	
40	Slaty-backed Gull	<i>Larus schistisagus</i>	
41	Great Black-backed Gull	<i>Larus marinus</i>	R2R - Orange
42	Arctic Tern	<i>Sterna pardisaea</i>	
43	Red-throated Loon	<i>Gavia stellata</i>	
44	Pacific Loon	<i>Gavia pacifica</i>	
45	Yellow-billed Loon	<i>Gavia adamsii</i>	R2R - Red
46	Wood Stork	<i>Mycteria americana</i>	
47	Magnificent Frigatebird	<i>Fregata magnificens</i>	
48	Anhinga	<i>Anhinga anhinga</i>	
49	Brown Pelican	<i>Pelecanus occidentalis</i>	
50	Tricolored Heron	<i>Egretta tricolor</i>	
51	Reddish Egret	<i>Egretta rufescens</i>	R2R - Yellow
52	White Ibis	<i>Eudocimus albus</i>	
53	Roseate Spoonbill	<i>Platalea ajaja</i>	
54	Black Vulture	<i>Coragyps atratus</i>	
55	Swallow-tailed Kite	<i>Elanoides forficatus</i>	
56	Ferruginous Hawk	<i>Buteo regalis</i>	
57	Northern Hawk Owl	<i>Surnia ulula</i>	
58	Great Gray Owl	<i>Strix nebulosa</i>	

	Common Name	Scientific Name	Notes
59	Lewis's Woodpecker	<i>Melanerpes lewis</i>	R2R - Yellow
60	Black-backed Woodpecker	<i>Picoides arcticus</i>	
61	Gyr Falcon	<i>Falco rusticolus</i>	
62	Western Wood-Pewee	<i>Contopus sordidulus</i>	
63	Western Flycatcher	<i>Empidonax difficilis</i>	
64	Vermilion Flycatcher	<i>Pyrocephalus rubinus</i>	
65	Canada Jay	<i>Perisoreus canadensis</i>	
66	Pinyon Jay	<i>Gymnorhinus cyanocephalus</i>	
67	Clark's Nutcracker	<i>Nucifraga columbiana</i>	
68	Black-billed Magpie	<i>Pica pica</i>	
69	Fish Crow	<i>Corvus ossifragus</i>	
70	Sharp-tailed Sandpiper	<i>Calidris acuminata</i>	
71	Common Raven	<i>Corvus corax</i>	
72	Boreal Chickadee	<i>Poecile hudsonicus</i>	
73	Pygmy Nuthatch	<i>Sitta pygmaea</i>	
74	Rock Wren	<i>Salpinctes obsoletus</i>	
75	Curve-billed Thrasher	<i>Toxostoma curvirostre</i>	
76	Sage Thrasher	<i>Oreoscoptes montanus</i>	
77	Mountain Bluebird	<i>Sialia currucoides</i>	
78	Varied Thrush	<i>Ixoreus naevia</i>	
79	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	
80	Pine Grosbeak	<i>Pinicola enucleator</i>	
81	Gray-crowned Rosy-Finch	<i>Leucosticte tephrocotis</i>	
82	Lesser Goldfinch	<i>Spinus psaltria</i>	
83	Chestnut-collared Longspur	<i>Calcarius ornatus</i>	WA; R2R- Red
84	Black-throated Sparrow	<i>Amphispiza bilineata</i>	
85	Lark Bunting	<i>Calamospiza melanocorys</i>	WD (West)
86	Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	
87	Green-tailed Towhee	<i>Pipilo chlorurus</i>	
88	Bullock's Oriole	<i>Icterus bullockii</i>	
89	MacGillivray's Warbler	<i>Geothlypis tolmiei</i>	
90	Black-throated Gray Warbler	<i>Setophaga nigrescens</i>	
91	Townsend's Warbler	<i>Setophaga townsendi</i>	
92	Western Tanager	<i>Piranga ludoviciana</i>	
93	Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	
94	Lazuli Bunting	<i>Passerina amoena</i>	
95	Painted Bunting	<i>Passerina ciris</i>	

Data Deficient Breeding Bird Species - Species evaluated by Bird subcommittee for which insufficient information was available to conduct a conservation status assessment.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	American Black Duck	<i>Anas rubripes</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
2	Say's Phoebe	<i>Sayornis saya</i>	Y		

Data Deficient Non-Breeding Bird Species - Species evaluated by Bird subcommittee for which insufficient information was available to conduct a conservation status assessment.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Red Knot	<i>Calidris canutus</i>	Y	F-T*	WD (NE & SE); R2R (Orange)
2	Bohemian Waxwing	<i>Bombycilla garrulus</i>	Y		
3	Redpoll	<i>Carduelis flammea</i>	Y		
4	White-winged Crossbill	<i>Loxia leucoptera</i>	Y		

*Only the subspecies *Calidris canutus rufa* is listed as threatened; this subspecies does not occur in Iowa.

Presumed Extirpated

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Sharp-tailed Grouse	<i>Tympanuchus phasianellus</i>			WA

Extinct

	Common Name	Scientific Name
1	Passenger Pigeon	<i>Ectopistes migratorius</i>
2	Eskimo Curlew	<i>Numenius borealis</i>
3	Carolina Parakeet	<i>Conuropsis carolinensis</i>

Introduced Species - Species for which a conservation status assessment was not conducted, because these species were introduced by humans, either accidentally or intentionally.

	Common Name	Scientific Name	Notes
1	Mute Swan	<i>Cygnus olor</i>	Not established as a breeding bird but wanders in from neighboring states
2	Gray Partridge	<i>Perdix perdix</i>	
3	Ring-necked Pheasant	<i>Phasianus colchicus</i>	
4	Rock Pigeon	<i>Columba livia</i>	
5	Eurasian Collared-dove	<i>Streptopelia decaocto</i>	
6	European Starling	<i>Sturnus vulgaris</i>	
7	House Sparrow	<i>Passer domesticus</i>	
8	Eurasian Tree Sparrow	<i>Passer montanus</i>	

Citations:

Chesser, RT, SM Billerman, KJ Burns, C Cicero, JL Dunn, BE Hernández-Baños, RA Jiménez, O Johnson, AW Kratter, NA Mason, and PC Rasmussen. 2024. Check-list of North American Birds (online). American Ornithological Society. <https://checklist.americanornithology.org/>

Appendix 7. List of Mammals Evaluated by the IWAP.

Taxonomic order derived from: The [American Society of Mammalogist's Mammal Diversity Database](#). (2025). Mammal Diversity Database (Version 2.0) [Data set]. [Zenodo](#).

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

Native, Extant Species

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Virginia Opossum	<i>Didelphis virginiana</i>			
2	White-tailed Jackrabbit	<i>Lepus townsendii</i>	Y	I-T	R
3	Eastern Cottontail	<i>Sylvilagus floridanus</i>			
4	Southern Flying Squirrel	<i>Glaucomys volans</i>			
5	Eastern Gray Squirrel	<i>Sciurus carolinensis</i>			
6	Eastern Fox Squirrel	<i>Sciurus niger</i>			
7	North American Red Squirrel	<i>Tamiasciurus hudsonicus</i>			
8	Thirteen-lined Ground Squirrel	<i>Ictidomys tridecemlineatus</i>			
9	Woodchuck	<i>Marmota monax</i>			
10	Franklin's Ground Squirrel	<i>Poliocitellus franklinii</i>	Y		R
11	Eastern Chipmunk	<i>Tamias striatus</i>			
12	Plains Pocket Gopher	<i>Geomys bursarius</i>	Y	I-T	WA
13	Plains Pocket Mouse	<i>Perognathus flavescens</i>	Y	I-PT	WA

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
14	North American Beaver	<i>Castor canadensis</i>			
15	Northern Meadow Jumping Mouse	<i>Zapus hudsonius</i>			
16	Prairie Vole	<i>Microtus ochrogaster</i>			WA
17	Eastern Meadow Vole	<i>Microtus pennsylvanicus</i>			
18	Woodland Vole	<i>Microtus pinetorum</i>	Y		WA
19	Southern Bog Lemming	<i>Synaptomys cooperi</i>	Y	I-E	
20	Common Muskrat	<i>Ondatra zibethicus</i>	Y		
21	Northern Grasshopper Mouse	<i>Onychomys leucogaster</i>			
22	White-footed Deermouse	<i>Peromyscus leucopus</i>			
23	Eastern Deermouse	<i>Peromyscus maniculatus</i>			
24	Western Harvest Mouse	<i>Reithrodontomys megalotis</i>			
25	Northern Short-tailed Shrew	<i>Blarina brevicauda</i>			
26	Elliot's Short-tailed Shrew	<i>Blarina hylophaga</i>			WA
27	North American Least Shrew	<i>Cryptotis parvus</i>	Y	I-T	WA
28	Masked Shrew	<i>Sorex cinereus</i>			
29	Prairie Shrew	<i>Sorex haydenii</i>	Y		
30	Eastern Mole	<i>Scalopus aquaticus</i>			
31	Little Brown Myotis	<i>Myotis lucifugus</i>	Y	I-T	R
32	Northern Myotis (Northern long-eared bat)	<i>Myotis septentrionalis</i>	Y	I-E, F-E	R
33	Indiana Myotis (Indiana Bat)	<i>Myotis sodalis</i>	Y	I-E, F-E	R
34	Big Brown Bat	<i>Eptesicus fuscus</i>			
35	Silver-haired Bat	<i>Lasionycteris noctivagans</i>			R
36	Eastern Red Bat	<i>Lasiurus borealis</i>			R
37	Northern Hoary Bat	<i>Lasiurus cinereus</i>			R
38	North American Evening Bat	<i>Nycticeius humeralis</i>			
39	Tricolored Bat	<i>Perimyotis subflavus</i>	Y	I-T, F-PE	R
40	Striped Skunk	<i>Mephitis mephitis</i>			
41	Plains Spotted Skunk	<i>Spilogale interrupta</i>	Y	I-E	R
42	North American River Otter	<i>Lontra canadensis</i>			
43	Long-tailed Weasel	<i>Neogale frenata</i>	Y		
44	Least Weasel	<i>Mustela nivalis</i>	Y		
45	American Ermine	<i>Mustela richardsonii</i>	Y		
46	American Mink	<i>Neogale vison</i>			
47	American Badger	<i>Taxidea taxus</i>			
48	Northern Raccoon	<i>Procyon lotor</i>			
49	Coyote	<i>Canis latrans</i>			
50	Northern Gray Fox	<i>Urocyon cinereoargenteus</i>	Y	I-SC	WA
51	Red Fox	<i>Vulpes vulpes</i>			
52	Bobcat	<i>Lynx rufus</i>			
53	White-tailed Deer	<i>Odocoileus virginianus</i>			

Data Deficient Species - Species evaluated by mammal subcommittee for which insufficient information was available to conduct a conservation status assessment. These species are considered SGCN because additional research and/or monitoring is needed in order to determine their conservation status. (Also listed above.)

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN	Explanation
1	Franklin's Ground Squirrel	<i>Poliocitellus franklinii</i>	Y		R	This species is difficult to monitor and therefore data is lacking to assess status and trends.
2	Woodland Vole	<i>Microtus pinetorum</i>	Y		WA	This species is difficult to trap for monitoring, making it difficult to evaluate status and trends.
3	North American Least Shrew	<i>Cryptotis parvus</i>	Y	I-T	WA	Only a small number of verified records exist for this species in Iowa.
4	Prairie Shrew	<i>Sorex haydeni</i>	Y			This is difficult to distinguish from the other species of <i>Sorex</i> , making it difficult to evaluate status and trends.
5	Long-tailed Weasel	<i>Neogale frenata</i>	Y			Harvest data for this species is lumped across 3 Iowa mustelid species, making it difficult to evaluate status and trends.
6	Least Weasel	<i>Mustela nivalis</i>	Y			Harvest data for this species is lumped across 3 Iowa mustelid species, making it difficult to evaluate status and trends.
7	American Ermine	<i>Mustela richardsonii</i>	Y			Harvest data for this species is lumped across 3 Iowa mustelid species, making it difficult to evaluate status and trends.

Occasional Visitors to Iowa - These species are considered stray in Iowa meaning that there has been confirmed documentation of occurrence in the state but the species do not have established populations within Iowa. In some years, individuals of these species may expand into portions of the state.

	Common Name	Scientific Name	Explanation
1	Southern Long-nosed Armadillo	<i>Dasypus novemcinctus</i>	Occasional individuals have wandered north from MO
2	Hispid Cotton Rat	<i>Sigmodon hispidus</i>	Live individuals have been documented in Fremont Co.
3	Peale's Free-tailed Bat	<i>Nyctinomops macrotis</i>	
4	Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>	
5	Wolverine	<i>Gulo gulo</i>	Historical record unclear on presence in Iowa
6	Fisher	<i>Pekania pennanti</i>	Starting to observe more individuals in recent years
7	American Black Bear	<i>Ursus americanus</i>	Occasional individuals have been documented in Iowa
8	Gray Wolf	<i>Canis lupus</i>	Formerly considered extirpated
9	Swift Fox	<i>Vulpes velox</i>	Formerly considered extirpated until road kill record from Lyon County
10	Puma	<i>Puma concolor</i>	Occasionally individuals wander into or through Iowa
11	Moose	<i>Alces alces</i>	Occasional individuals have wandered south from MN
12	Mule Deer	<i>Odocoileus hemionus</i>	

Removed from List of Iowa Species

	Common Name	Scientific Name	Explanation
1	Black-tailed Prairie Dog	<i>Cynomys ludovicianus</i>	Mistakenly included in first edition of IWAP
2	Richardson's Ground Squirrel	<i>Urocitellus richardsonii</i>	Not in Iowa
3	Southern Short-tailed Shrew	<i>Blarina carolinensis</i>	Due to taxonomists splitting this species, this species has been removed from Iowa's species list.

Introduced and Domesticated Species - These species have been documented or have established breeding populations within the state of Iowa but were excluded from consideration as SGCN due to the fact that they were introduced to Iowa by humans.

	Common Name	Scientific Name	Classification
1	Coyote	<i>Myocaster coypus</i>	Introduced
2	House Mouse	<i>Mus musculus</i>	Introduced
3	Brown Rat	<i>Rattus norvegicus</i>	Introduced
4	Domestic Dog	<i>Canis familiaris</i>	Domesticated
5	Domestic Cat	<i>Felis catus</i>	Domesticated
6	Eurasian Wild Pig	<i>Sus scrofa</i>	Domesticated

Extirpated Species

	Common Name	Scientific Name	Notes
1	North American Porcupine	<i>Erethizon dorsatum</i>	
2	Southern Red-backed Vole	<i>Clethrionomys gapperi</i>	
3	Eastern Woodrat	<i>Neotoma floridana</i>	Based on fossil evidence
4	Northeastern Marsh Rice Rat	<i>Oryzomys palustris</i>	Based on fossil evidence
5	Eastern Pygmy Shrew	<i>Sorex hoyi</i>	
6	American Marten	<i>Martes americana</i>	
7	Canadian Lynx	<i>Lynx canadensis</i>	
8	Pronghorn	<i>Antilocapra americana</i>	
9	American Bison	<i>Bos bison</i>	No free-ranging populations
10	Wapiti (Elk)	<i>Cervus canadensis</i>	

Appendix 8. List of Iowa Fish Evaluated by the IWAP.

Taxonomy and nomenclature from: American Fisheries Society. 2023. *Common and Scientific Names of Fishes from the United States, Canada, and Mexico*, 8th Edition (2023). American Fisheries Society, Special Publication 37, Bethesda, MD. <https://fisheries.org/bookstore/all-titles/special-publications/namesoffishes8/>

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species proposed for Endangered, Threatened or Delisting status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Lampreys: Petromyzontidae					
1	Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>	Y	I-T	
2	Northern Brook Lamprey	<i>Ichthyomyzon fossor</i>			
3	Silver Lamprey	<i>Ichthyomyzon unicuspis</i>			
4	American Brook Lamprey	<i>Lethenteron appendix</i>			
Sturgeons: Acipenseridae					
5	Lake Sturgeon	<i>Acipenser fulvescens</i>	Y	I-E	R
6	Pallid Sturgeon	<i>Scaphirhynchus albus</i>	Y	I-E, F-E	R
7	Shovelnose Sturgeon	<i>Scaphirhynchus platyrhynchus</i>			
Paddlefishes: Polyodontidae					
8	Paddlefish	<i>Polyodon spathula</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Gars: Lepisosteidae					
9	Spotted Gar	<i>Lepisosteus oculatus</i>			
10	Longnose Gar	<i>Lepisosteus osseus</i>			
11	Shortnose Gar	<i>Lepisosteus platostomus</i>			
Bowfins: Amiidae					
12	Bowfin	<i>Amia calva</i>			
13	Emerald Bowfin	<i>Amia ocellicauda</i>	Y		
Freshwater eels: Anguillidae					
14	American Eel	<i>Anguilla rostrata</i>	Y	I-T	WA
Mooneyes: Hiodontidae					
15	Goldeye	<i>Hiodon alosoides</i>			
16	Mooneye	<i>Hiodon tergisus</i>			
Shads: Alosidae					
17	Skipjack Herring	<i>Alosa chrysochloris</i>	Y	I-T	
Thread herrings: Dorosomatidae					
18	Gizzard Shad	<i>Dorosoma cepedianum</i>			
Suckers: Catostomidae					
19	River Carpsucker	<i>Carpionodes carpio</i>			
20	Quillback	<i>Carpionodes cyprinus</i>			
21	Highfin Carpsucker	<i>Carpionodes velifer</i>			
22	White Sucker	<i>Catostomus commersonii</i>			
23	Blue Sucker	<i>Cycleptus elongatus</i>	Y		
24	Lake Chubsucker	<i>Erimyzon sucetta</i>	Y		
25	Northern Hog Sucker	<i>Hypentelium nigricans</i>			
26	Smallmouth Buffalo	<i>Ictiobus bubalus</i>			
27	Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>			
28	Black Buffalo	<i>Ictiobus niger</i>	Y		
29	Spotted Sucker	<i>Minytrema melanops</i>	Y		
30	Silver Redhorse	<i>Moxostoma anisurum</i>	Y		
31	River Redhorse	<i>Moxostoma carinatum</i>	Y		
32	Black Redhorse	<i>Moxostoma duquesnei</i>		I-SC	
33	Golden Redhorse	<i>Moxostoma erythrurum</i>			
34	Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>			
35	Pealip Redhorse	<i>Moxostoma pisolabrum</i>	Y		
36	Greater Redhorse	<i>Moxostoma valenciennesi</i>	Y		
Carp: Cyprinidae					
37	Goldfish	<i>Carassius auratus</i>	Introduced	Not Scored	
38	Common Carp	<i>Carassius carpio</i>	Introduced	Not Scored	
Sharpbellies: Xenocyprididae					
39	Grass Carp	<i>Ctenopharyngodon idella</i>	Introduced	Not Scored	
40	Silver Carp	<i>Hypophthalmichthys molitrix</i>	Introduced	Not Scored	
41	Bighead Carp	<i>Hypophthalmichthys nobilis</i>	Introduced	Not Scored	

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Minnows: Leuciscidae					
42	River Shiner	<i>Alburnops blennius</i>	Y		
43	Ironcolor Shiner	<i>Alburnops chalybaeus</i>			
44	Weed Shiner	<i>Alburnops texanus</i>	Y	I-T	
45	Central Stoneroller	<i>Campostoma anomalum</i>			
46	Largescale Stoneroller	<i>Campostoma oligolepis</i>	Y		
47	Southern Redbelly Dace	<i>Chrosomus erythrogaster</i>	Y		
48	Redside Dace	<i>Clinostomus elongatus</i>			R
49	Lake Chub	<i>Couesius plumbeus</i>			
50	Red Shiner	<i>Cyprinella lutrensis</i>			
51	Spotfin Shiner	<i>Cyprinella spiloptera</i>			
52	Bigmouth Shiner	<i>Ericymba dorsalis</i>			
53	Gravel Chub	<i>Erimystax x-punctatus</i>	Y		WA
54	Spottail Shiner	<i>Hudsonius hudsonius</i>			
55	Western Silvery Minnow	<i>Hybognathus argyritis</i>	Y	I-E	R
56	Brassy Minnow	<i>Hybognathus hankinsoni</i>			
57	Mississippi Silvery Minnow	<i>Hybognathus nuchalis</i>	Y		
58	Plains Minnow	<i>Hybognathus placitus</i>	Y		WA
59	Pallid Shiner	<i>Hybopsis amnis</i>	Y		
60	Common Shiner	<i>Luxilus cornutus</i>			
61	Redfin Shiner	<i>Lythrurus umbratilis</i>	Y	I-T	
62	Sturgeon Chub	<i>Macrhybopsis gelida</i>	Y	I-E	R
63	Shoal Chub	<i>Macrhybopsis hyostoma</i>	Y		
64	Sicklefin Chub	<i>Macrhybopsis meeki</i>	Y	I-E	R
65	Silver Chub	<i>Macrhybopsis storeriana</i>			
66	Northern Pearl Dace	<i>Margariscus nachtriebi</i>	Y	I-E	WA
67	Pugnose Shiner	<i>Miniellus anogenus</i>	Y	I-E	R
68	Blackchin Shiner	<i>Miniellus heterodon</i>			
69	Ozark Minnow	<i>Miniellus nubilus</i>	Y		
70	Sand Shiner	<i>Miniellus stramineus</i>			
71	Topeka Shiner	<i>Miniellus topeka</i>	Y	I-T, F-E	R
72	Hornyhead Chub	<i>Nocomis biguttatus</i>			
73	Golden Shiner	<i>Notemigonus crysoleucas</i>			
74	Emerald Shiner	<i>Notropis atherinoides</i>			
75	Blacknose Shiner	<i>Notropis heterolepis</i>		I-E	R
76	Carmine Shiner	<i>Notropis percobromus</i>			
77	Pugnose Minnow	<i>Opsopoeodus emiliae</i>	Y	I-T	
78	Ghost Shiner	<i>Paranotropis buchanani</i>	Y	I-E	
79	Silverband Shiner	<i>Paranotropis shumardi</i>			
80	Mimic Shiner	<i>Paranotropis volucellus</i>	Y		
81	Channel Shiner	<i>Paranotropis wickliffi</i>			
82	Suckermouth Minnow	<i>Phenacobius mirabilis</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
83	Bluntnose Minnow	<i>Pimephales notatus</i>			
84	Fathead Minnow	<i>Pimephales promelas</i>			
85	Bullhead Minnow	<i>Pimephales vigilax</i>			
86	Flathead Chub	<i>Platygobio gracilis</i>	Y		R
87	Blacknose Dace	<i>Rhinichthys atratulus</i>			
88	Longnose Dace	<i>Rhinichthys cataractae</i>	Y		
89	Creek Chub	<i>Semotilus atromaculatus</i>			
North American Catfishes: Ictaluridae					
90	Black Bullhead	<i>Ameiurus melas</i>			
91	Yellow Bullhead	<i>Ameiurus natalis</i>			
92	Brown Bullhead	<i>Ameiurus nebulosus</i>	Y		
93	Blue Catfish	<i>Ictalurus furcatus</i>			
94	Channel Catfish	<i>Ictalurus punctatus</i>			
95	Slender Madtom	<i>Noturus exilis</i>			
96	Stonecat	<i>Noturus flavus</i>			
97	Tadpole Madtom	<i>Noturus gyrinus</i>	Y		
98	Freckled Madtom	<i>Noturus nocturnus</i>		I-T	
99	Flathead Catfish	<i>Pylodictis olivaris</i>			
Pikes: Esocidae					
100	Redfin (Grass) Pickerel	<i>Esox americanus</i>	Y	I-T	
101	Northern Pike	<i>Esox lucius</i>	Y		
102	Muskellunge	<i>Esox masquinongy</i>			
103	Central Mudminnow	<i>Umbra limi</i>	Y		
Trouts and salmon: Salmonidae					
104	Rainbow Trout	<i>Oncorhynchus mykiss</i>	Introduced	Not Scored	
105	Brown Trout	<i>Salmo trutta</i>	Introduced	Not Scored	
106	Brook Trout	<i>Salvelinus fontinalis</i>			
Smelts: Osmeridae					
107	Rainbow Smelt	<i>Osmerus mordax</i>	Introduced	Not Scored	
Trout-perches: Percopsidae					
108	Trout-perch	<i>Percopsis omiscomaycus</i>	Y	I-T	
Pirate perches: Aphredoderidae					
109	Pirate Perch	<i>Aphredoderus sayanus</i>		I-T	
Cods: Gadidae					
110	Burbot	<i>Lota lota</i>		I-T	
New World silversides: Atherinopsidae					
111	Brook Silverside	<i>Labidesthes sicculus</i>	Y		
Topminnows: Fundulidae					
112	Banded Killifish	<i>Fundulus diaphanus</i>	Y	I-T	
113	Starhead Topminnow	<i>Fundulus dispar</i>	Y	I-E	R
114	Blackstripe Topminnow	<i>Fundulus notatus</i>			
115	Plains Topminnow	<i>Fundulus sciadicus</i>	Y	I-E	R

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Livebearers: Poeciliidae					
116	Western Mosquitofish	<i>Gambusia affinis</i>			
Sunfishes: Centrarchidae					
117	Rock Bass	<i>Ambloplites rupestris</i>			
118	Green Sunfish	<i>Lepomis cyanellus</i>			
119	Pumpkinseed	<i>Lepomis gibbosus</i>			
120	Warmouth	<i>Lepomis gulosus</i>	Y		
121	Orangespotted Sunfish	<i>Lepomis humilis</i>			
122	Bluegill	<i>Lepomis macrochirus</i>			
123	Longear Sunfish†	<i>Lepomis megalotis</i>			
124	Redear Sunfish	<i>Lepomis microlophus</i>			
125	Northern Sunfish†	<i>Lepomis peltastes</i>	Y		WA
126	Smallmouth Bass	<i>Micropterus dolomieu</i>			
127	Largemouth Bass	<i>Micropterus nigricans</i>			
128	Spotted Bass	<i>Micropterus punctulatus</i>	Introduced	Not Scored	
129	White Crappie	<i>Pomoxis annularis</i>			
130	Black Crappie	<i>Pomoxis nigromaculatus</i>			
Sculpins: Cottidae					
131	Mottled Sculpin	<i>Cottus bairdii</i>	Y	I-T	
132	Slimy Sculpin	<i>Cottus cognatus</i>	Y		
Temperate basses: Moronidae					
133	White Bass	<i>Morone chrysops</i>			
134	Yellow Bass	<i>Morone mississippiensis</i>			
135	Striped Bass	<i>Morone saxatilis</i>	Introduced	Not Scored	
Perches & Darters: Percidae					
136	Western sand Darter	<i>Ammocrypta clara</i>	Y	I-T	R
137	Crystal Darter	<i>Crystallaria asprella</i>	Y	I-E	R
138	Mud Darter	<i>Etheostoma asprigene</i>	Y		
139	Rainbow Darter	<i>Etheostoma caeruleum</i>	Y		
140	Bluntnose Darter	<i>Etheostoma chlorosoma</i>	Y	I-E	
141	Iowa Darter	<i>Etheostoma exile</i>	Y		
142	Fantail Darter	<i>Etheostoma flabellare</i>			
143	Least Darter	<i>Etheostoma microperca</i>	Y	I-E	WA
144	Johnny Darter	<i>Etheostoma nigrum</i>			
145	Orangethroat Darter	<i>Etheostoma spectabile</i>	Y	I-SC	
146	Banded Darter	<i>Etheostoma zonale</i>			
147	Yellow Perch	<i>Perca flavescens</i>			
148	Logperch	<i>Percina caprodes</i>			
149	Gilt Darter	<i>Percina evides</i>			WA
150	Blackside Darter	<i>Percina maculata</i>	Y		
151	Slenderhead Darter	<i>Percina phoxocephala</i>			
152	River Darter	<i>Percina shumardi</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
153	Sauger	<i>Sander canadensis</i>			
154	Walleye	<i>Sander vitreus</i>			
Drums and croakers: Sciaenidae					
155	Freshwater Drum	<i>Aplodinotus grunniens</i>			
Sticklebacks: Gasterosteidae					
156	Brook Stickleback	<i>Culaea inconstans</i>			

*In 2010 the Shovelnose Sturgeon was listed as Threatened under the Similarity of Appearance Provisions of the Endangered Species Act. The purpose of this is to protect pallid sturgeon by treating shovelnose sturgeon as a threatened species where their ranges overlap.

†Until the publication of Page et al. (2013), the Northern Sunfish (*Lepomis peltastes*) was called the Longear Sunfish (*L. megalotis*). But, in Page et al. (2013), the name of the form of the Longear Sunfish known to have occurred in Iowa was changed to Northern Sunfish (*L. peltastes*). There are no native occurrences of the Longear Sunfish (*L. megalotis*) in Iowa.

Data Deficient Species - Species evaluated by fish subcommittee for which insufficient information was available to conduct a conservation status assessment. These species are considered SGCN because additional research and/or monitoring is needed in order to determine their conservation status.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Lake Chubsucker	<i>Erimyzon succetta</i>	Y		
2	Pealip Redhorse	<i>Moxostoma pisolabrum</i>	Y		
3	Greater Redhorse	<i>Moxostoma valenciennesi</i>	Y		
4	Crystal Darter	<i>Crystallaria asprella</i>	Y	I-E	R
5	Northern Sunfish	<i>Lepomis peltastes</i>	Y		

Introduced Species - These species have been documented or have established breeding populations within the state of Iowa but were excluded from consideration as SGCN due to the fact that they were introduced to Iowa by humans.

	Common Name	Scientific Name
1	Goldfish	<i>Carassius auratus</i>
2	Grass Carp	<i>Ctenopharyngodon idella</i>
3	Common Carp	<i>Cyprinus carpio</i>
4	Silver Carp	<i>Hypophthalmichthys molitrix</i>
5	Bighead Carp	<i>Hypophthalmichthys nobilis</i>
6	Rainbow Trout	<i>Oncorhynchus mykiss</i>
7	Brown Trout	<i>Salmo trutta</i>
8	Spotted Bass	<i>Micropterus punctulatus</i>
9	Striped Bass	<i>Morone saxatilis</i>
10	Longear Sunfish	<i>Lepomis megalotis</i>
11	Redear Sunfish	<i>Lepomis microlophus</i>
12	Muskellunge	<i>Esox masquinongy</i>
13	Spotted Gar	<i>Lepisosteus oculatus</i>

Presumed Extirpated

	Common Name	Scientific Name	T/E Status	Explanation
1	Silverband Shiner	<i>Notropis shumardi</i>		
2	Redside Dace	<i>Clinostomus elongatus</i>		

	Common Name	Scientific Name	T/E Status	Explanation
3	Lake Chub	<i>Couesius plumbeus</i>		
4	Ironcolor Shiner	<i>Notropis chalybaeus</i>		Not seen since 19 th century
5	Blackchin Shiner	<i>Notropis heterodon</i>		
6	Blacknose Shiner	<i>Notropis heterolepis</i>	I-E	
7	Gilt Darter	<i>Percina evides</i>		Not seen since 19 th century

Appendix 9. List of Iowa Mussels Evaluated by the IWAP.

Taxonomic order derived from: DD Turgeon, JF Quinn Jr., AE Bogan, EV Coan, FG Hochberg Jr., WG Lyons, PM Mikkelsen, RJ Neves, CFE Roper, G Rosenberg, B Roth, A Scheltema, FG Thompson, M Vecchione & JD Williams. 1998. *Common and scientific names of aquatic invertebrates from the United States and Canada: Mollusks. 2nd Edition.* American Fisheries Society, Special Publication 26, Bethesda, Maryland. ix + 526 pp

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Order: Unionoida					
	Family: Unionidae				
1	Mucket	<i>Actinonaias ligamentina</i>	Y	I-T	
2	Elktoe	<i>Alasmodonta marginata</i>	Y	I-SC	R
3	Slippershell	<i>Alasmodonta viridis</i>	Y	I-E	WA
4	Three Ridge	<i>Amblema plicata</i>	Y		
5	Cylinder (Cylindrical Papershell)	<i>Anodontoides ferussacianus</i>	Y	I-SC	
6	Rock Pocketbook	<i>Arcidens confragosus</i>	Y		WA
7	Spectaclecase	<i>Cumberlandia monodonta</i>	Y	I-E, F-E	R
8	Wartyback	<i>Cyclonaias nodulata</i>	Y	I-SC	
9	Pimpleback	<i>Cyclonaias pustulosa</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
10	Purple Wartyback	<i>Cyclonaias tuberculata</i>	Y	I-E	R
11	Butterfly	<i>Ellipsaria lineolata</i>	Y	I-SC	R
12	Elephant Ear	<i>Elliptio crassidens</i>	Y		R
13	Snuffbox	<i>Epioblasma triquetra</i>	Y		R
14	Spike	<i>Eurynia dilatata</i>	Y	I-E	
15	Wabash Pigtoe	<i>Fusconaia flava</i>	Y		
16	Plain Pocketbook	<i>Lampsilis cardium</i>			
17	Higgins' Eye Pearlymussel	<i>Lampsilis higginsii</i>	Y	I-T, F-E	R
18	Canary Kingshell	<i>Lampsilis sietmani</i>	Y		PW
19	Fatmucket	<i>Lampsilis siliquoidea</i>	Y		
20	Yellow Sandshell	<i>Lampsilis teres</i>	Y	I-T	R
21	White Heelsplitter	<i>Lasmigona camplanata</i>	Y		
22	Creek Heelsplitter	<i>Lasmigona compressa</i>	Y	I-SC	R
23	Flutedshell	<i>Lasmigona costata</i>	Y	I-SC	
24	Black Sandshell	<i>Ligumia recta</i>	Y		R
25	Washboard	<i>Megaloniais nervosa</i>	Y		
26	Threehorn Wartyback	<i>Obliquaria reflexa</i>	Y		
27	Hickorynut	<i>Obovaria olivaria</i>	Y		
28	Sheepnose	<i>Plethobasus cyphus</i>	Y	I-E, F-E	R
29	Round Pigtoe	<i>Pleurobema sintoxia</i>	Y	I-E	WA
30	Pink Heelsplitter	<i>Potamilus alatus</i>	Y		
31	Fat Pocketbook	<i>Potamilus capax</i>	Y	F-E	
32	Fragile Papershell	<i>Potamilus fragilis</i>			
33	Scaleshell	<i>Potamilus leptodon</i>	Y		
34	Pink Papershell	<i>Potamilus ohioensis</i>			
35	Giant Floater	<i>Pyganodon grandis</i>			
36	Lake Floater	<i>Pyganodon lacustris</i>	Y		
37	Winged Mapleleaf	<i>Quadrula fragosa</i>	Y		
38	Mapleleaf	<i>Quadrula quadrula</i>	Y		
39	Ebonyshele	<i>Reginaia ebena</i>	Y		
40	Pondmussel	<i>Sagittunio subrostratus</i>	Y		
41	Salamander Mussel	<i>Simpsonaias ambigua</i>	Y	I-E	R
42	Creeper (formerly Strange Floater)	<i>Strophitus undulatus</i>			
43	Monkeyface	<i>Theliderma metanevra</i>	Y	I-T	
44	Lilliput	<i>Toxolasma parvum</i>			
45	Gulf Mapleleaf	<i>Tritogonia nobilis</i>	Y		
46	Pistolgrip	<i>Tritogonia verrucosa</i>	Y	I-T	
47	Fawnsfoot	<i>Truncilla donaciformis</i>	Y	I-SC	WA
48	Deertoe	<i>Truncilla truncata</i>	Y		
49	Pondhorn	<i>Uniomerus tetralasmus</i>	Y		
50	Paper Pondshell	<i>Utterbackia imbecillis</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
51	Flat Floater	<i>Utterbackiana suborbiculata</i>	Y		
52	Ellipse	<i>Venustaconcha ellipsiformis</i>	Y	I-T	R

Data Deficient Species - Species evaluated by mussel subcommittee for which insufficient information was available to conduct a conservation status assessment

	Common Name	Scientific Name	SGCN	Explanation
1	Canary Kingshell	<i>Lampsilis sietmani</i>	Y	This species was described within the past 10 years. It was formerly considered a subspecies of Slough Sandshell.
2	Pondhorn	<i>Unio merus tetralasmus</i>	Y	Only a few records for the state. Iowa may just be on the northern edge of the species range.

Presumed Extirpated Species

	Common Name	Scientific Name	Explanation
1	Elephant Ear	<i>Elliptio crassidens</i>	Formerly common in Mississippi River, now not found above the dam at Keokuk.
2	Snuffbox	<i>Epioblasma triquetra</i>	Considered extirpated from Iowa. Federally endangered.
3	Fat Pocketbook	<i>Potamilus capax</i>	
4	Scaleshell	<i>Potamilus leptodon</i>	
5	Lake Floater	<i>Pygandon lacustris</i>	Recorded from Iowa in 1912 in Clear Lake
6	Winged Mapleleaf	<i>Quadrula fragosa</i>	Presumed extirpated, but a fresh dead specimen was recorded near Lansing in 2024.
7	Gulf Mapleleaf	<i>Tritogonia nobilis</i>	Presumed to occur in Iowa historically, based on relic shells in the Mississippi.

Other species or groups of clams/mussels not evaluated

	Common Name	Scientific Name	Explanation
1	Ozark Pigtoe	<i>Fusconaia ozarkensis</i>	Single known specimen was misidentified
2	Slough Sandshell	<i>Lampsilis teres teres</i>	Formerly separate from Yellow Sandshell - now considered to be same species
3	Fingernail clams	-	Includes multiple species of clams

Exotic Species - Species evaluated by mussel subcommittee for which a conservation status assessment was not conducted due to non-native status in Iowa

	Common Name	Scientific Name
1	Asiatic Clam	<i>Corbicula fluminea</i>
2	Zebra Mussel	<i>Dreissena polymorpha</i>

Appendix 10. List of Iowa Terrestrial Snails Evaluated by the IWAP.

Taxonomic order and nomenclature derived from: DD Turgeon, JF Quinn Jr, AE Bogan, EV Coan, FG Hochberg Jr, WG Lyons, PM Mikkelsen, RJ Neves, CFE Roper, G Rosenberg, B Roth, A Scheltema, FG Thompson, M Vecchione and JD Williams. 1998. *Common and scientific names of aquatic invertebrates from the United States and Canada: Mollusks*. 2nd Edition. American Fisheries Society, Special Publication 26, Bethesda, Maryland. ix + 526 pp

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status only. Other information is provided as a reference. Updates to State Wildlife Action Plans, Federal T&E Status, and State T&E Status are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord.

	Common Name	Scientific Name	SGCN	T/E Status
Helicinidae				
1	Cherrystone Drop	<i>Hendersonia occulta</i>		
2	Slender Walker	<i>Pomatiopsis lapidaria</i>		
3	Brown Walker	<i>Pomatiopsis cincinnatiensis</i>		
Carychiidae				
4	Obese Thorn	<i>Carychium exiguum</i>		
5	Ice Thorn	<i>Carychium exile exile</i>		
Cochlicopidae				
6	Thin Pillar	<i>Cochlicopa lubricella</i>		
7	Glossy Pillar	<i>Cocjlicopa lubrica</i>		
Valloniidae				
8	Lovely Vallonia	<i>Vallonia pulchella</i>		
9	Costale Vallonia	<i>Vallonia costata</i>		
10	Trumpet Vallonia	<i>Vallonia parvula</i>		
11	Multirib Vallonia	<i>Vallonia gracilicosta</i>		
12	Thin-lip Vallonia	<i>Vallonia perspectiva</i>		
Pupillidae				
13	Widespread Column	<i>Pupilla muscorum muscorum</i>		
14	White-lip Dagger	<i>Pupoides nitinulus</i>		

	Common Name	Scientific Name	SGCN	T/E Status
Vertiginidae				
15	Plains Snaggletooth	<i>Gastrocopta abbreviata</i>		
16	Armed Snaggletooth	<i>Gastrocopta armifera</i>		
17	Bottleneck Snaggletooth	<i>Gastrocopta contracta</i>		
18	Bark Snaggletooth	<i>Gastrocopta corticaria</i>		
19	Lamda Snaggletooth	<i>Gastrocopta holzingeri</i>		
20	Comb Snaggletooth	<i>Gastrocopta pentodon</i>		
21	Wing Snaggletooth	<i>Gastrocopta procera</i>		
22	Rogers Snaggletooth Snail	<i>Gastrocopta rogersensis</i>		
23	Great Lakes Snaggletooth	<i>Gastrocopta similis</i>		
24	White Snaggletooth	<i>Gastrocopta tappaniana</i>		
25	Delicate Vertigo	<i>Vertigo bollesiana</i>		
26	Midwest Pleistocene Vertigo	<i>Vertigo arthuri</i>	Y	I-T
27	Blade Vertigo	<i>Vertigo milium</i>		
28	Six-whorl Vertigo	<i>Vertigo morsei</i>		
29	Ovate Vertigo	<i>Vertigo ovata</i>		
30	Crested Vertigo	<i>Vertigo pygmaea</i>		
31	Tapered Vertigo	<i>Vertigo elatior</i>		
32	Honey Vertigo	<i>Vertigo tridentata</i>		
33	Variable Vertigo	<i>Vertigo gouldi</i>		
34	Cross Vertigo	<i>Vertigo modesta modesta</i>		
35	Bluff Vertigo	<i>Vertigo meramecensis</i>	Y	I-E
36	Mellow Column	<i>Columnella columnella alticola</i>		
37	High-spire Column	<i>Columnella simplex</i>		
38	Toothless Column	<i>Columnella edentula</i>		
Strobilopsidae				
39	Bronze Pinecone	<i>Strobilops aeneus</i>		
40	Maze Pinecone	<i>Strobilops labyrinthicus</i>		
Succineidae				
41	Frigid Ambersnail*	<i>Catinella gelida</i>		
42	Blunt Ambersnail	<i>Oxyloma retusum</i>		
43	Oval Ambersnail	<i>Novisuccinea ovalis</i>		
44	Minnesota Pleistocene Succinea	<i>Novasuccinea n. Sp. Minnesota a</i>		
45	Iowa Pleistocene Succinea	<i>Novasuccinea n. Sp. Minnesota b</i>		
46	Spotted Ambersnail	<i>Succinea forsheyi</i>		
47	Suboval Ambersnail	<i>Mediappendix vermeta</i>		
48	Slope Ambersnail	<i>Mediappendix wandae</i>		
Discidae				
49	Flamed Tigersnail	<i>Anguispira alternata</i>		
50	Angular Disc	<i>Discus catskillensis</i>		

	Common Name	Scientific Name	SGCN	T/E Status
51	Iowa Pleistocene Snail	<i>Discus macclintocki</i>	Y	I-E, F-E
52	Domed Disc	<i>Discus patulus</i>		
53	Striate Disc	<i>Discus shimeki</i>		
54	Forest Disc	<i>Discus whitneyi</i> (=cronkhitei)		
Heliodiscidae				
55	Compound Coil	<i>Helicodiscus parallelus</i>		
56	Temperate Coil	<i>Helicodiscus shimeki</i>		
Punctidae				
57	Small Spot	<i>Punctum minutissimum</i>		
58	Glass Spot	<i>Punctum vitreum</i>		
Limacidae				
59	Meadow Slug	<i>Deroceras laeve</i>		
Philomycidae				
60	Changeable Mantleslug	<i>Megapallifera mutabilis</i>		
61	Pale Mantleslug	<i>Pallifera dorsalis</i>		
62	Redfoot Mantleslug	<i>Pallifera ohioensis</i>		
63	Carolina Mantleslug	<i>Philomycus carolinianus</i>		
Cionellidae				
64	Glossy Pillar	<i>Cochlicopa lubrica</i>		
65	Thin Pillar	<i>Cochlicopa lubricella</i>		
66	Appalachian Pillar	<i>Cochlicopa morseana</i>		
Helicarionidae				
67	Brown Hive	<i>Euconulus fulvus</i>		
68	Brilliant Granule Snail	<i>Guppya sterkii</i>		
Zonitidae				
69	Carved Glyph	<i>Glyphyalinia indentata</i>		
70	Minute Gem	<i>Hawaiiia miniscula</i>		
71	Amber Glass	<i>Nesovitrea electrina</i>		
72	Fine-ribbed Striate	<i>Striatura milium</i>		
73	Quick Gloss	<i>Zonitoides arboreus</i>		
74	Dull Gloss	<i>Zonitoides limatulus</i>		
75	Black Gloss	<i>Zonitoides nitidus</i>		
Haplotrematidae				
76	Gray-foot Lancetooth	<i>Haplotrema concavum</i>		
Polygyridae				
77	Broad-banded Forestsnail	<i>Allogona profunda</i>		
78	Upland Pillsnail	<i>Euchemotrema fraternum</i>		
79	Lowland Pillsnail	<i>Euchemotrema leai</i>		
80	Yellow Globelet	<i>Mesodon clausus</i>		
81	White-lip Globe	<i>Mesodon thyroidus</i>		
82	Whitelip	<i>Neohelix albolabris</i>		
83	Western Whitelip	<i>Neohelix alleni</i>		

	Common Name	Scientific Name	SGCN	T/E Status
84	Smooth Bladetooth	<i>Patera laevior</i>		
85	Proud Globelet	<i>Patera pennsylvanica</i>		
86	Bristled Slitmouth	<i>Stenotrema barbatum</i>		
87	Hairy Slitmouth	<i>Stenotrema hirsutum</i>		
88	Striped Whitelip	<i>Webbhelix multilineata</i>		
89	Bladetooth Wedge	<i>Xolotrema fosteri</i>		

*No longer considered a valid, extant species; known as a pleistocene fossil only.

Non-native Species

Common Name	Scientific Name
Gray Fieldslug	<i>Deroceras reticulatum</i>

Appendix 11. List of Iowa Bumble Bees Evaluated by the IWAP.

Taxonomic order and scientific names derived from: Williams, PH, RW Thorp, LL Richardson, and SR Colla. (2014). Bumble Bees of North America: An identification guide. Princeton University Press.

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Rusty Patched Bumble Bee	<i>Bombus affinis</i>	Y	I-E, F-E	R
2	Black and Gold Bumble Bee	<i>Bombus auricomus</i>	Y		PR
3	Two-spotted Bumble Bee	<i>Bombus bimaculatus</i>			
4	Ashton's Cuckoo Bumble Bee	<i>Bombus bohemicus</i> *	Y		R
5	Northern Amber Bumble Bee	<i>Bombus borealis</i>	Y		
6	Lemon Cuckoo Bumble Bee	<i>Bombus citrinus</i>	Y		
7	Yellow Bumble Bee	<i>Bombus fervidus</i>	Y		
8	Southern Plains Bumble Bee	<i>Bombus fraternus</i>	Y	F – Under Review	R
9	Brown-belted Bumble Bee	<i>Bombus griseocollis</i>			
10	Common Eastern Bumble Bee	<i>Bombus impatiens</i>			
11	American Bumble Bee	<i>Bombus pensylvanicus</i>	Y	F – Under Review	R
12	Red-belted Bumble Bee	<i>Bombus rufocinctus</i>	Y		
13	Tri-colored Bumble Bee	<i>Bombus ternarius</i>	Y		
14	Half-black Bumble Bee	<i>Bombus vagans</i>	Y		
15	Variable Cuckoo Bumble Bee	<i>Bombus variabilis</i>	Y	F – Under Review	R

*also referred to as *B. ashtonii*. Not the same as the *B. bohemicus* as referred to in Europe.

Species with ranges very close to Iowa

Common Name	Scientific Name	Explanation
Confusing Bumble Bee	<i>Bombus perplexus</i>	Bee surveyors should be aware of the potential for this species to occur in Northeast Iowa
Yellow-banded Bumble Bee	<i>Bombus terricola</i>	Bee surveyors should be aware of the potential for this species to occur in Northern Iowa

Unconfirmed Species

Common Name	Scientific Name	Explanation
Frigid Bumble Bee	<i>Bombus frigidus</i>	Unconfirmed records
Morrison Bumble Bee	<i>Bombus morrisoni</i>	Unconfirmed records

Appendix 12. List of Iowa Butterflies Evaluated by the IWAP.

Taxonomic order and scientific names derived from: Pelham, JP. (2023). [A catalogue of the butterflies of the United States and Canada](#).

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species proposed for Endangered, Threatened or Delisting status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Family: Hesperiidae- Skippers					
Subfamily: Eudaminae- Dicot Skippers					
1	Southern Cloudywing	<i>Cecropterus bathyllus</i>	Y		WA
2	Northern Cloudywing	<i>Cecropterus pylades</i>			WA
3	Silver-spotted Skipper	<i>Epargyreus clarus</i>			
Subfamily: Pyrginae- Spread-wing Skippers					
4	Common Sootywing	<i>Pholisora catullus</i>			
5	Hayhurst's Sootywing	<i>Staphylus hayhurstii</i>	Y		
6	Common Checkered-Skipper	<i>Burnsius communis</i>			
7	Dreamy Duskywing	<i>Erynnis icelus</i>	Y	I-SC	
8	Sleepy Duskywing	<i>Erynnis brizo</i>			
9	Mottled Duskywing	<i>Gesta martialis</i>	Y	I-E	R
10	Juvenal's Duskywing	<i>Gesta juvenalis</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
11	Horace's Duskywing	<i>Gesta horatius</i>			
12	Wild Indigo Duskywing	<i>Gesta baptisiae</i>			
13	Columbine Duskywing	<i>Gesta lucilius</i>	Y	I-SC	WA
Subfamily: Hesperinae- Grass-skipper					
14	Black Dash	<i>Euphyes conspicua</i>			
15	Dion Skipper	<i>Euphyes dion</i>	Y		
16	Two-spotted Skipper	<i>Euphyes bimacula</i>	Y	I-T	R
17	Dun Skipper	<i>Euphyes vestris</i>			
18	Delaware Skipper	<i>Anatrytone logan</i>			
19	Arogos Skipper	<i>Atrytone arogos</i>	Y	I-E	R
20	Byssus Skipper	<i>Atrytone byssus</i>	Y	I-SC	WA
21	Fiery Skipper	<i>Hylephila phyleus</i>			
22	Crossline Skipper	<i>Limochares origenes</i>	Y	I-T	
23	Long Dash	<i>Limochares mystic</i>			
24	Tawny-edged Skipper	<i>Polites themistocles</i>			
25	Peck's Skipper	<i>Polites coras</i>			
26	Northern Broken-Dash	<i>Polites egeremet</i>			
27	Little Glassywing	<i>Vernia verna</i>			
28	Casachem	<i>Atalopedes campestris</i>			
29	Leonard's Skipper	<i>Hesperia leonardus</i>	Y	I-T	R
29a	Leonard's Skipper	<i>Hesperia leonardus leonardus</i>	Y		R
29b	Pawnee Skipper	<i>Hesperia leonardus pawnee</i>	Y		R
30	Ottoo Skipper	<i>Hesperia ottoe</i>	Y	I-E	R
31	Dakota Skipper	<i>Hesperia dacotae</i>	Y	I-E, F-T	
32	Mulberry Wing	<i>Poanes massasoit</i>	Y	I-E	
33	Broad-winged Skipper	<i>Poanes viator</i>	Y		
34	Hobomok Skipper	<i>Lon hobomok</i>			
35	Zabulon Skipper	<i>Lon zabulon</i>			
36	Dusted Skipper	<i>Atrytonopsis hianna</i>	Y	I-E	R
37	Pepper and Salt Skipper	<i>Amblyscirtes hegon</i>	Y	I-SC	
38	Common Roadside Skipper	<i>Amblyscirtes vialis</i>			
39	Swarthy Skipper	<i>Nastra lherminier</i>	Y		
40	Poweshiek Skipper	<i>Oarisma poweshiek</i>	Y	I-E, F-E	R
41	Least Skipper	<i>Ancyloxypha numitor</i>			
Family: Papilionidae- Swallowtails					
Subfamily: Papilioninae- Swallowtails					
42	Zebra Swallowtail	<i>Eurytides marcellus</i>			
43	Pipevine Swallowtail	<i>Battus philenor</i>			
44	Black Swallowtail	<i>Papilio polyxenes</i>			
45	Eastern Giant Swallowtail	<i>Heraclides cresphontes</i>			
46	Spicebush Swallowtail	<i>Pterourus Troilus</i>			
47	Eastern Tiger Swallowtail	<i>Pterourus glaucus</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Family: Pieridae- Whites and Sulphurs					
Subfamily: Pierinae- Whites					
48	Olympia Marble	<i>Euchloe Olympia</i>	Y	I-T	
49	Checkered White	<i>Pontia protodice</i>			
Subfamily: Coliadinae- Sulphurs					
50	Dainty Sulphur	<i>Nathalis iole</i>			
51	Little Yellow	<i>Pyrisitia lisa</i>			
52	Clouded Sulphur	<i>Colias philodice</i>			
53	Orange Sulphur	<i>Colias eurytheme</i>			
54	Southern Dogface	<i>Zerene cesonia</i>			
55	Cloudless Sulphur	<i>Phoebis sennae</i>			
Family: Lycaenidae- Gossamer-wings					
Subfamily: Miletinae- Harvesters					
56	Harvester	<i>Feniseca Tarquinius</i>			
Subfamily: Lycaeninae- Coppers					
57	American Copper	<i>Lycaena hypophlaeas</i>			
58	Bronze Copper	<i>Tharsalea hyllus</i>			
59	Purplish Copper	<i>Tharsalea helloides</i>			
60	Gray Copper	<i>Tharsalea dione</i>			
Subfamily: Theclinae- Hairstreaks					
61	Juniper Hairstreak	<i>Callophrys gryneus</i>			
62	Henry's Elfin	<i>Callophrys Henrici</i>			
63	Coral Hairstreak	<i>Satyrium titus</i>			
64	Striped Hairstreak	<i>Satyrium liparops</i>			
65	Hickory Hairstreak	<i>Satyrium caryaevorum</i>			
66	Banded Hairstreak	<i>Satyrium calanus</i>			
67	Edwards' Hairstreak	<i>Satyrium edwardsii</i>	Y		WA
68	Acadian Hairstreak	<i>Satyrium acadica</i>	Y		
69	Gray Hairstreak	<i>Strymon melinus</i>			
70	White M Hairstreak	<i>Parrhasius m-album</i>			
Subfamily: Polyommatae- Blues					
71	Silvery Blue	<i>Glauopsyche lygdamus</i>	Y	I-SC	
72	Spring Azure	<i>Celastrina ladon</i>			
73	Summer Azure	<i>Celastrina neglecta</i>			
74	Eastern-tailed Blue	<i>Cupido comyntas</i>			
75	Reakirt's Blue	<i>Echinargus isola</i>			
76	Melissa Blue	<i>Plebejus melissa</i>			
Family: Nymphalidae- Brushfoots					
Subfamily: Libytheinae- Snouts					
77	American Snout	<i>Libytheana carinenta</i>			
Subfamily: Danainae- Monarchs					
78	Monarch	<i>Danaus plexippus</i>	Y	F-PT	R

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Subfamily: Heliconiinae- Heliconians and Fritillaries					
79	Variegated Fritillary	<i>Euptoieta claudia</i>			
80	Meadow Fritillary	<i>Boloria bellona</i>			
81	Silver-bordered Fritillary	<i>Boloria myrina</i>	Y	I-SC	
82	Western Regal Fritillary	<i>Argynnis idalia occidentalis</i>	Y	I-T	R
83	Great Spangled Fritillary	<i>Argynnis cybele</i>			
84	Aphrodite Fritillary	<i>Argynnis aphrodite</i>	Y	I-SC	WA
Subfamily: Limenitidinae- Admirals and Relatives					
85	Viceroy	<i>Limenitis archippus</i>			
86	Red-spotted Purple	<i>Limenitis arthemis astyanax</i>			
Subfamily: Apaturinae- Emperors					
87	Hackberry Emperor	<i>Asterocampa celtis</i>			
88	Tawny Emperor	<i>Asterocampa clyton</i>			
Subfamily: Nymphalinae- True Brushfoots					
89	Milbert's Tortoiseshell	<i>Aglais milberti</i>	Y		
90	Compton Tortoiseshell	<i>Nymphalis l-album</i>	Y		
91	Mourning Cloak	<i>Nymphalis antiopa</i>			
92	Question Mark	<i>Polygonia interrogationis</i>			
93	Comma Anglewing	<i>Polygonia comma</i>			
94	Gray Anglewing	<i>Polygonia progne</i>			
95	American Lady	<i>Vanessa virginiensis</i>			
96	Painted Lady	<i>Vanessa cardui</i>			
97	Red Admiral	<i>Vanessa Atalanta</i>			
98	Buckeye	<i>Junonia coenia</i>			
99a	Baltimore Checkerspot	<i>Euphydryas phaeton</i>	Y	I-T	
99b	Baltimore Checkerspot 'Ozark'	<i>Euphydryas phaeton ozarkae</i>	Y		
100	Gorgone Checkerspot	<i>Chlosyne gorgone</i>			
101	Silvery Checkerspot	<i>Chlosyne nycteis</i>			
102	Pearl Crescent	<i>Phyciodes tharos</i>			
103	Tawny Crescent	<i>Phyciodes batesii</i>			R
Subfamily: Satyrinae- Satyrs					
104	Common Ringlet	<i>Coenonympha tullia</i>			
105	Common Wood-Nymph	<i>Cercyonis pegala</i>			
106	Northern Pearly Eye	<i>Lethe anthedon</i>			
107	Eyed Brown	<i>Lethe eurydice</i>	Y		
108	Little Wood-Satyr	<i>Megisto cymela</i>			

Data Deficient Species - Species evaluated by butterfly subcommittee for which insufficient information was available to conduct a conservation status assessment. These species are considered SGCN because additional research and/or monitoring is needed in order to determine their conservation status.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Hayhurst's Sootywing	<i>Staphylus hayhurstii</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
2	Dreamy Duskywing	<i>Erynnis icelus</i>	Y		
3	Swarthy Skipper	<i>Nastra lherminier</i>	Y		
4	Milbert's Tortoiseshell	<i>Aglaia milberti</i>	Y		
5	Baltimore Checkerspot 'Ozark'	<i>Euphydryas phaeton ozarkae</i>	Y		

Occasional Visitors to Iowa - These species are considered stray in Iowa meaning that there has been confirmed documentation of occurrence in the state but the species do not have established populations within Iowa. In some years, individuals of these species may expand into portions of the state.

	Common Name	Scientific Name
1	Hoary Edge	<i>Cecropterus lyciades</i>
2	Funereal Duskywing	<i>Gesta funeralis</i>
3	Persius Duskywing	<i>Gesta persius</i>
4	Eufala Skipper	<i>Lerodea eufala</i>
5	Ocola Skipper	<i>Panoquina ocola</i>
6	Sleepy Orange	<i>Abaeis nicippe</i>
7	Mexican Yellow	<i>Abaeis mexicana</i>
8	Red-banded Hairstreak	<i>Calycopis cecrops</i>
9	Marine Blue	<i>Leptotes marina</i>
10	Queen	<i>Danaus gilippus</i>
11	Gulf Fritillary	<i>Dione incarnata</i>
12	White Admiral	<i>Limenitis arthemis arthemis</i>
13	Goatweed Leafwing	<i>Anaea andria</i>

Introduced Species - These species have established breeding populations within the state of Iowa but were excluded from consideration as SGCN due to the fact that they were introduced to Iowa by humans.

	Common Name	Scientific Name
1	European Skipper	<i>Thymelicus lineola</i>
2	Cabbage White	<i>Pieris rapae</i>

Not Iowa Species

Common Name	Scientific Name	Explanation
Uncas Skipper	<i>Hesperia uncas</i>	Unclear why this was included in initial plan
Greenish Blue	<i>Icaricia saepiolus</i>	Unclear why this was included in initial plan
Swamp Metalmark	<i>Calephelis muticum</i>	The single record for Iowa has since been determined to be in error.
Northern Crescent	<i>Phyciodes coccyta</i>	These can be easily confused with other species so there are some records for this species in Iowa but these records are not confirmed.

Extirpated and Presumed Extirpated Species

Common Name	Scientific Name	Explanation
Arogos Skipper	<i>Atrytone arogos</i>	Presumed Extirpated - RSGCN
Dakota Skipper	<i>Hesperia dacotae</i>	Presumed Extirpated - RSGCN
Poweshiek Skipper	<i>Oarisma poweshiek</i>	Presumed Extirpated - RSGCN
Purplish Copper	<i>Tharsalea helloides</i>	Extirpated
Common Ringlet	<i>Coenonympha tullia</i>	Extirpated

Appendix 13. List of Iowa Moth Species Evaluated by the IWAP.

Taxonomic order and scientific names derived from: [BugGuide](#) website.

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Family: Saturniidae					
1	Eastern Buckmoth	<i>Hemileuca maia</i>	Y		
Family: Elachistidae- Grass Miner Moths					
2	a gelechioid moth	<i>Agonopterix lythrella</i>	Y		WA
Family: Gelechiidae- Twirler Moths					
3	Early Leadplant Leaf-twirler Moth	<i>Anacampsis wikeri</i>	Y		R
Family: Gracillariidae- Leaf Blotch Miner Moths					
4	Marbleseed Leafminer	<i>Acrocercops pnosmodiella</i>	Y		PR
Family: Erebididae- Underwing, Tiger, Tussock and Allied Moths					
5	Abbreviated Underwing	<i>Catocala abbreviatella</i>	Y		R
6	Whitney's Underwing	<i>Catocala whitneyi</i>	Y		R
Family: Noctuididae- Owlet Moths					
7	a noctuid moth	<i>Bagisara gulfare</i>	Y		R
8	Grote's Black-tipped Quaker	<i>Dichagyris grotei</i>	Y		
9	Red Sedge Borer Moth	<i>Globia laeta</i>	Y		
10	Starry Campion Moth	<i>Hadena ectypa</i>	Y		R

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
11	Fingered Lemmeria Moth	<i>Lemmeria digitalis</i>	Y		
12	Franclemont's Lithophane	<i>Lithophane franclemonti</i>	Y		PR
13	Newman's Brocade	<i>Meropleon ambifusca</i>	Y		
14	Blazing Star Stem Borer	<i>Papaipema beeriana</i>	Y		R
15	Golden Borer Moth	<i>Papaipema cerina</i>	Y		R
16	Rattlesnake-master Borer Moth	<i>Papaipema eryngii</i>	Y		R
17	Eupatorium Borer Moth	<i>Papaipema eupatoria</i>	Y		
18	Ash tip Borer Moth	<i>Papaipema furcata</i>	Y		
19	Turtle Head Borer Moth	<i>Papaipema nepheleptena</i>	Y		WA
20	Culver's Root Borer	<i>Papaipema sciata</i>	Y		R
21	Silphium Borer Moth	<i>Papaipema silphii</i>	Y		R
22	a noctuid moth	<i>Plagiomimicus heitzmani</i>	Y		
23	Bina flower Moth	<i>Schinia bina</i>	Y		R
24	Leadplant Flower Moth	<i>Schinia lucens</i>	Y		R
25	Bleeding Flower Moth	<i>Schinia sanguinea</i>	Y		
26	Northern Flower Moth	<i>Schinia septentrionalis</i>	Y		
27	Marked Noctuid	<i>Tricholita notata</i>	Y		R
Family: Crambidae- Grass Moths					
28	a crambid snout moth	<i>Neodactria murellus</i>	Y		WA
Family: Pyralidae- Pyralid Moths					
29	Sand Dune Panic Grass Moth	<i>Coenochroa bipunctella</i>	Y		WA
Family: Tortricidae- Leafroller Moths					
30	a tortricid moth	<i>Aethes patricia</i>	Y		WA
31	a tortricid moth	<i>Ancylis semiovana</i>	Y		R
32	Two-lined Eucosma	<i>Eucosma bilineana</i>	Y		

Data Deficient Species - Species evaluated by butterfly subcommittee for which insufficient information was available to conduct a conservation status assessment. These species are considered SGCN because additional research and/or monitoring is needed in order to determine their conservation status.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	a gelechioid moth	<i>Agonopterix lythrella</i>	Y		WA
2	Early Leadplant Leaf-twirler Moth	<i>Anacamptis wikeri</i>	Y		R
3	Marbleseed Leafminer	<i>Acrocercops pnosmodiella</i>	Y		PR
4	a noctuid moth	<i>Bagisara gulfare</i>	Y		R
5	Grote's Black-tipped Quaker	<i>Dichagyris grotei</i>	Y		
6	Red Sedge Borer Moth	<i>Globia laeta</i>	Y		
7	Fingered Lemmeria Moth	<i>Lemmeria digitalis</i>	Y		
8	Franclemont's Lithophane	<i>Lithophane franclemonti</i>	Y		PR
9	Newman's Brocade	<i>Meropleon ambifusca</i>	Y		
10	Eupatorium Borer Moth	<i>Papaipema eupatoria</i>	Y		

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
11	Ash Tip Borer Moth	<i>Papaipema furcata</i>	Y		
12	a noctuid moth	<i>Plagiomimicus heitzmani</i>	Y		
13	Bleeding Flower Moth	<i>Schinia sanguinea</i>	Y		
14	Northern Flower Moth	<i>Schinia septentrionalis</i>	Y		
15	a crambid snout moth	<i>Neodactria murellus</i>	Y		WA
16	Sand Dune Panic Grass Moth	<i>Coenochroa bipunctella</i>	Y		WA
17	a tortricid moth	<i>Aethes patricia</i>	Y		WA
18	a tortricid moth	<i>Ancylis semiovana</i>	Y		R
19	Two-lined Eucosma	<i>Eucosma bilineana</i>	Y		

Appendix 14. List of Iowa Dragonflies and Damselflies Evaluated by the IWAP.

Taxonomic order and scientific names derived from: Paulson, DR, SW Dunkle, and JT Johnson eds. 2024. [A Checklist of North American Odonata](#).

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Spreadwings: Lestidae					
1	Great Spreadwing	<i>Archilestes grandis</i>		I-SC	
2	Southern Spreadwing	<i>Lestes australis</i>			
3	Spotted Spreadwing	<i>Lestes congener</i>			
4	Emerald Spreadwing	<i>Lestes dryas</i>			
5	Amber-winged Spreadwing	<i>Lestes eurinus</i>			
6	Sweetflag Spreadwing	<i>Lestes forcipatus</i>	Y		
7	Elegant Spreadwing	<i>Lestes inaequalis</i>			
8	Slender Spreadwing	<i>Lestes rectangularis</i>			
9	Lyre-tipped Spreadwing	<i>Lestes unguiculatus</i>			
Broad-winged damsels: Calopterygidae					
10	River Jewelwing	<i>Calopteryx aequabilis</i>			
11	Ebony Jewelwing	<i>Calopteryx maculata</i>			
12	American Rubyspot	<i>Hetaerina americana</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
13	Smoky Rubyspot	<i>Hetaerina titia</i>			
Pond Damself: Coenagrionidae					
14	Eastern Red Damself	<i>Amphiagrion saucium</i>	Y	I-SC	
15	Paiute Dancer	<i>Argia alberta</i>	Y	I-SC	
16	Blue-fronted Dancer	<i>Argia apicalis</i>			
17	Variable Dancer	<i>Argia fumipennis</i>			
18	Springwater Dancer	<i>Argia funebris</i>			WA
19	Powdered Dancer	<i>Argia moesta</i>			
20	Blue-tipped Dancer	<i>Argia tibialis</i>			
21	Prairie Bluet	<i>Coenagrion angulatum</i>	Y	I-E	
22	Taiga Bluet	<i>Coenagrion resolutum</i>	Y	I-T	
23	River Bluet	<i>Enallagma anna</i>			
24	Northern Bluet	<i>Enallagma annexum</i>			
25	Rainbow Bluet	<i>Enallagma antennatum</i>			
26	Azure Bluet	<i>Enallagma aspersum</i>			
27	Double-striped Bluet	<i>Enallagma basidens</i>			
28	Boreal Bluet	<i>Enallagma boreale</i>	Y		
29	Tule Bluet	<i>Enallagma carunculatum</i>			
30	Familiar Bluet	<i>Enallagma civile</i>			
31	Alkali Bluet	<i>Enallagma clausum</i>	Y		
32	Marsh Bluet	<i>Enallagma ebrium</i>			
33	Stream Bluet	<i>Enallagma exsulans</i>			
34	Skimming Bluet	<i>Enallagma geminatum</i>			
35	Hagen's Bluet	<i>Enallagma hageni</i>			
36	Orange Bluet	<i>Enallagma signatum</i>			
37	Slender Bluet	<i>Enallagma traviatum</i>			
38	Vesper Bluet	<i>Enallagma vesperum</i>			
39	Citrine Forktail	<i>Ischnura hastata</i>			
40	Western Forktail	<i>Ischnura perparva</i>	Y		
41	Fragile Forktail	<i>Ischnura posita</i>			
42	Eastern Forktail	<i>Ischnura verticalis</i>			
43	Sedge Sprite	<i>Nehalennia irene</i>			
Darners: Aeshnidae					
44	Canada Darner	<i>Aeshna canadensis</i>			
45	Lance-tipped Darner	<i>Aeshna constricta</i>			
46	Variable Darner	<i>Aeshna interrupta</i>			
47	Shadow Darner	<i>Aeshna umbrosa</i>			
48	Common Green Darner	<i>Anax junius</i>			
49	Fawn Darner	<i>Boyeria vinosa</i>			
50	Swamp Darner	<i>Epiaeschna heros</i>			
51	Cyrano Darner	<i>Nasiaeschna pentacantha</i>			
52	Blue-eyed Darner	<i>Rhionaeschna multicolor</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
Clubtails: Gomphidae					
53	Horned Clubtail	<i>Arigomphus cornutus</i>			WA
54	Jade Clubtail	<i>Arigomphus submedianus</i>			
55	Flag-tailed Spinyleg	<i>Dromogomphus spoliatus</i>			
56	Plains Clubtail	<i>Gomphurus externus</i>			
57	Midland Clubtail	<i>Gomphurus fraternus</i>			
58	Cobra Clubtail	<i>Gomphurus vastus</i>			
59	Skillet Clubtail	<i>Gomphurus ventricosus</i>	Y		R
60	Rusty Snaketail	<i>Ophiogomphus rupinsulensis</i>			
61	Pale Snaketail	<i>Ophiogomphus severus</i>			
62	Sioux Snaketail	<i>Ophiogomphus smithi</i>	Y	I-T	R
63	Westfall's Snaketail	<i>Ophiogomphus westfalli</i>	Y	I-T	WA
64	Pronghorn Clubtail	<i>Phanogomphus graslinellus</i>			
65	Sulphur-tipped Clubtail	<i>Phanogomphus militaris</i>			
66	Rapids Clubtail	<i>Phanogomphus quadricolor</i>	Y	I-SC	
67	Common Sanddragon	<i>Progomphus obscurus</i>			
68	Riverine Clubtail	<i>Stylurus amnicola</i>			R
69	Brimstone Clubtail	<i>Stylurus intricatus</i>	Y	I-SC	
70	Elusive Clubtail	<i>Stylurus notatus</i>			R
71	Russet-tipped Clubtail	<i>Stylurus plagiatu</i>			WA
72	Arrow Clubtail	<i>Stylurus spiniceps</i>	Y		
Cruisers: Macromiidae					
73	Stream Cruiser	<i>Didymops transversa</i>			
74	Swift River Cruiser	<i>Macromia illinoensis</i>			
75	Royal River Cruiser	<i>Macromia taeniolata</i>			
Emeralds: Corduliidae					
76	Racket-tailed Emerald	<i>Dorocordulia libera</i>	Y		
77	Slender Baskettail	<i>Epithea costalis</i>			
78	Common Baskettail	<i>Epithea cynosura</i>			
79	Prince Baskettail	<i>Epithea princeps</i>			
80	Smoky Shadowdragon	<i>Neurocordulia molesta</i>			
81	Stygian Shadowdragon	<i>Neurocordulia yamaskanensis</i>	Y		
82	Plains Emerald	<i>Somatochlora ensigera</i>	Y	I-T	R
83	Mocha Emerald	<i>Somatochlora linearis</i>	Y		
Skimmers: Libellulidae					
84	Calico Pennant	<i>Celithemis elisa</i>			
85	Halloween Pennant	<i>Celithemis eponina</i>			
86	Eastern Pondhawk	<i>Erythemis simplicicollis</i>			
87	Dot-tailed Whiteface	<i>Leucorrhinia intacta</i>			
88	Spangled Skimmer	<i>Libellula cyanea</i>			
89	Slaty Skimmer	<i>Libellula incesta</i>			
90	Widow Skimmer	<i>Libellula luctuosa</i>			

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
91	Twelve-spotted Skimmer	<i>Libellula pulchella</i>			
92	Four-spotted Skimmer	<i>Libellula quadrimaculata</i>			
93	Blue Dasher	<i>Pachydiplax longipennis</i>			
94	Wandering Glider	<i>Pantala flavescens</i>			
95	Spot-winged Glider	<i>Pantela hymenaea</i>			
96	Eastern Amberwing	<i>Perithemis tenera</i>			
97	Common Whitetail	<i>Plathemis lydia</i>			
98	Blue-faced Meadowhawk	<i>Sympetrum ambiguum</i>			
99	Variegated Meadowhawk	<i>Sympetrum corruptum</i>			
100	Saffron-winged Meadowhawk	<i>Sympetrum costiferum</i>			
101	Black Meadowhawk	<i>Sympetrum danae</i>			
102	Cherry-faced Meadowhawk	<i>Sympetrum internum</i>			
103	White-faced Meadowhawk	<i>Sympetrum obtrusum</i>			
104	Ruby Meadowhawk	<i>Sympetrum rubicundulum</i>			
105	Band-winged Meadowhawk	<i>Sympetrum semicinctum</i> (sub species = <i>occidentale</i>)			
106	Autumn Meadowhawk	<i>Sympetrum vicinum</i>			
107	Carolina Saddlebags	<i>Tamea carolina</i>	Y		
108	Black Saddlebags	<i>Tamea lacerata</i>			
109	Red Saddlebags	<i>Tamea onusta</i>			

Data Deficient Species - Species evaluated by Dragonfly & Damselfly subcommittee for which insufficient information was available to conduct a conservation status assessment.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Sweetflag Spreadwing	<i>Lestes forcipatus</i>	Y	I-SC	
2	Alkali Bluet	<i>Enallagma clausum</i>	Y		
3	Western Forktail	<i>Ischnura perparva</i>	Y		
4	Skillet Clubtail	<i>Gomphurus ventricosus</i>	Y		R
5	Brimstone Clubtail	<i>Stylurus intricatus</i>	Y	I-SC	
6	Racket-tailed Emerald	<i>Dorocordulia libera</i>	Y		
7	Stygian Shadowdragon	<i>Neurocordulia yamaskanensis</i>	Y		

Occasional Visitors to Iowa - These species are considered stray in Iowa. They have confirmed documentation of occurrence in the state but do not have established populations within Iowa. In some years, populations of these species expand into portions of the state.

	Common Name	Scientific Name	Explanation
1	Emma's Dancer	<i>Argia emma</i>	Only seen once in a single location
2	Canada Darner	<i>Aeshna canadensis</i>	
3	Variable Darner	<i>Aeshna interrupta</i>	
4	Black-tipped Darner	<i>Aeshna tuberculifera</i>	
5	Green-striped Darner	<i>Aeshna verticalis</i>	
6	Spatterdock Darner	<i>Rhionaeshna mutata</i>	Only recorded once; RSGCN
7	Golden-winged Skimmer	<i>Libellula auripennis</i>	Few specimens

	Common Name	Scientific Name	Explanation
8	Painted Skimmer	<i>Libellula semifasciata</i>	Only documented in two locations - no established population
9	Great Blue Skimmer	<i>Libellula vibrans</i>	Only documented in one location - no established population
10	Black Meadowhawk	<i>Sympetrum danae</i>	Species occurs to north of Iowa, not clear that it's a resident species
11	Striped Saddlebags	<i>Tamea darwini</i>	Southern stray - no established population
12	Band-winged Dragonlet	<i>Erythrodiplax umbrata</i>	
13	White-faced Meadowhawk	<i>Sympetrum obtrusum</i>	

Appendix 15. List of Iowa Crayfish Evaluated by the IWAP

Taxonomic order and scientific names derived from: Bloomer, CC and CA Taylor (2020). [American Crayfish Atlas](#). Internet.

SGCN refers to Species of Greatest Conservation Need (SGCN) status as determined through IWAP species conservation status assessments. Y: Yes, species is SGCN. Blank: No, species is not SGCN.

T/E Status: Refers to whether a species is federally listed as Endangered, Threatened, or Candidate at the time of this plan's publication. It also refers to those species with Endangered or Threatened status at the state level. For up-to-date state of Iowa listing information, please see the Threatened and Endangered Species Program page on the [DNR website](#).

- I-E: State listed as Endangered in Iowa (from Iowa Code Chapter 77)
- I-T: State listed as Threatened in Iowa (from Iowa Code Chapter 77)
- I-SC: Special Concern in Iowa
- F-E: Federally listed as Endangered in the United States
- F-E: Federally listed as Threatened in the United States
- F-C: Federally listed as a Candidate in the United States
- F-P: Proposed for federal listing as an Endangered or Threatened species.

Regional SGCN: To access more information about this effort and for the updated list of [Regional SGCN](#).

- R: Species is considered a Regional Species of Greatest Conservation Need in the Midwest.
- W: Watchlist. This is a list of species for which there was concern but insufficient information or differing trends across the region (WA: Watchlist - Assessment Priority). For some species this is because there is a different region of the country that is more important to the species than the Midwest (WD: Watchlist - Defer to adjacent region).
- PR: R: Species is proposed as a Regional Species of Greatest Conservation Need in the Midwest, if a Midwest state lists the species as SGCN.

Assessments of species conservation status undertaken as part of the IWAP are used to determine SGCN status. Other information is provided as a reference. Updates to State Wildlife Action Plans, Regional SGCN lists, Federal T&E Status, etc., are each independent processes, undertaken by different entities with differing timeframes. As such, the various listings or status ranks for a given species at a given point in time may not always appear to be in accord. Please visit the links above for updated information.

	Common Name	Scientific Name	SGCN	T/E Status	Regional SGCN
1	Calico crayfish	<i>Faxonius immunis</i>			
2	Golden crayfish	<i>Faxonius luteus</i>	Y	I-SC	WA
3	Northern clearwater crayfish	<i>Faxonius propinquus</i>	Y		R
4	Virile crayfish	<i>Faxonius virilis</i>			
5	Great plains mudbug (formerly Devil crayfish)	<i>Lacunicambarus nebrascensis</i>	Y		
6	Prairie crayfish	<i>Procambarus gracilis</i>	Y		
7	White River crayfish	<i>Procambrus acutus</i>			

Introduced Species - A conservation status assessment was not conducted due to non-native status in Iowa

	Common Name	Scientific Name
1	Rusty crayfish	<i>Faxonius rusticus</i>

Appendix 16. Iowa Threatened and Endangered Animal Species

Due to independent timeframes for updates to Federal Threatened and Endangered (T&E) Status, State T&E Status, and SGCN Status, the statuses for a given species at a given point in time may not always appear to be in accord. Iowa Administrative Code 571 - Chapter 77 lists State Endangered and Threatened Species. The SGCN scoring criteria are intended to provide a conservation status index; additional information and recommendations from taxonomic experts may be included in T&E listing decisions on a case by case basis.

Appendix Table 16-1. State and Federally Listed Animal Species

Species common and scientific names as well as species concept is presented here as presented within Iowa code. However, the final rule may be updated to reflect the currently accepted scientific and common names. Additions to the 'Common Name' and 'Scientific Name' columns (in parentheses) are added by the Plan authors for clarification. An update to the State of Iowa T&E species was in process in 2025 during plan submission, and finalized in June of 2026. The Iowa T&E species are presented below in the 3rd column. The 4th column displays federal listing status as of July 2026. For up-to-date state of Iowa species listing information, please visit the Threatened and Endangered Species Program Page on the [DNR website](#). For up-to-date information federal species listing information, please visit the U.S. Fish and Wildlife Service's [Environmental Conservation Online System](#).

T = Threatened, E = Endangered, C = Candidate (federal only), P = Proposed

Common Name	Scientific Name	IA T/E	Fed T/E/C
Amphibians			
Blue-spotted Salamander	<i>Ambystoma laterale</i>	E	
Mudpuppy	<i>Necturus maculosus</i>	T	
Eastern Newt	<i>Notophthalmus viridescens</i>	T	
Reptiles			
Slender Glass Lizard	<i>Ophisaurus attenuatus</i>	T	
Great Plains Skink	<i>Plestiodon obsoletus</i>	E	
Western Wormsnake	<i>Carphophis vermis</i>	T	
Western Hog-nosed Snake	<i>Heterodon nasicus</i>	E	
Speckled Kingsnake	<i>Lampropeltis holbrooki</i>	T	
Plain-bellied Watersnake	<i>Nerodia erythrogaster</i>	T	
Diamond-backed Watersnake	<i>Nerodia rhombifer</i>	T	
Gophersnake (Bullsnake)	<i>Pituophis catenifer</i>	T	
Graham's Crayfish Snake	<i>Regina grahamii</i>	T	
Eastern Copperhead	<i>Agkistrodon contortrix</i>	E	
Prairie Rattlesnake	<i>Crotalus viridis</i>	E	
Eastern Massasauga	<i>Sistrurus catenatus</i>	E	T
Western Massasauga	<i>Sistrurus tergeminus</i>	E	
Blanding's Turtle	<i>Emydoidea blandingii</i>	T	
Wood Turtle	<i>Glyptemis insculpta</i>	E	
Ornate Box Turtle	<i>Terrapene ornata</i>	T	
Yellow Mud Turtle	<i>Kinosternon flavescens</i>	E	
Eastern Musk Turtle	<i>Sternotherus odoratus</i>	T	
Breeding Birds			
Chuck-will's-widow	<i>Antrostomus carolinensis</i>	T	
King Rail	<i>Rallus elegans</i>	T	
Eastern Black Rail*	<i>Laterallus jamaicensis</i>		T
Whooping Crane**	<i>Grus americana</i>		E

Common Name	Scientific Name	IA T/E	Fed T/E/C
Amphibians			
Piping Plover	<i>Charadrius melodus</i>	E	T
Rufa Red Knot***	<i>Calidris canutus rufa</i>		T
Least Tern	<i>Sterna antillarum</i>	T	
Black Tern	<i>Chlidonias niger</i>	T	
Forster's Tern	<i>Sterna forsteri</i>	T	
Long-eared Owl	<i>Asio otus</i>	T	
Short-eared Owl	<i>Asio flammeus</i>	T	
Mammals			
White-tailed Jackrabbit	<i>Lepus townsendii</i>	T	
Plains Pocket Gopher	<i>Geomys bursarius</i>	T	
Plains Pocket Mouse	<i>Perognathus flavescens</i>	T	
Southern Bog Lemming	<i>Synaptomys cooperi</i>	E	
North American Least Shrew	<i>Cryptotis parvus</i>	T	
Little Brown Myotis	<i>Myotis lucifugus</i>	T	
Northern Myotis	<i>Myotis septentrionalis</i>	E	E
Indiana Myotis	<i>Myotis sodalis</i>	E	E
Tricolored Bat	<i>Perimyotis subflavus</i>	T	P-E
Plains Spotted Skunk	<i>Spilogale interrupta</i>	E	
Fishes			
Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>	T	
Lake Sturgeon	<i>Acipenser fulvescens</i>	E	
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	E	E
American Eel	<i>Anguilla rostrata</i>	T	
Skipjack Herring	<i>Alosa chrysochloris</i>	T	
Weed Shiner	<i>Alburnops texanus</i>	T	
Western Silvery Minnow	<i>Hybognathus argyritis</i>	E	
Redfin Shiner	<i>Lythrurus umbratilis</i>	T	
Sturgeon Chub	<i>Macrhybopsis gelida</i>	E	
Sicklefin Chub	<i>Macrhybopsis meeki</i>	E	
Northern Pearl Dace	<i>Margariscus nachtriebi</i>	E	
Pugnose Shiner	<i>Miniellus anogenus</i>	E	
Topeka Shiner	<i>Miniellus topeka</i>	T	E
Blacknose Shiner	<i>Notropis heterolepis</i>	E	
Pugnose Minnow	<i>Opsopoeodus emiliae</i>	T	
Ghost Shiner	<i>Paranotropis buchanani</i>	E	
Freckled Madtom	<i>Noturus nocturnus</i>	T	
Grass (Redfin) Pickerel	<i>Esox americanus</i>	T	
Trout-perch	<i>Percopsis omiscomaycus</i>	T	
Pirate Perch	<i>Aphredoderus sayanus</i>	T	
Burbot	<i>Lota lota</i>	T	
Banded Killifish	<i>Fundulus diaphanus</i>	T	
Starhead Topminnow	<i>Fundulus dispar</i>	E	

Common Name	Scientific Name	IA T/E	Fed T/E/C
Amphibians			
Plains Topminnow	<i>Fundulus sciadicus</i>	E	
Mottled Sculpin	<i>Cottus bairdii</i>	T	
Western Sand Darter	<i>Ammocrypta clara</i>	T	
Crystal Darter	<i>Crystallaria asprella</i>	E	
Bluntnose Darter	<i>Etheostoma chlorosomum</i>	E	
Least Darter	<i>Etheostoma microperca</i>	E	
Freshwater Mussels			
Mucket	<i>Actinonaias ligamentina</i>	T	
Slippershell	<i>Alasmodonta viridis</i>	E	
Spectaclecase	<i>Cumberlandia monodonta</i>	E	E
Purple Wartback	<i>Cyclonaias tuberculata</i>	E	
Spike	<i>Eurynia dilatata</i>	E	
Higgins' Eye Pearlymussel	<i>Lampsilis higginsii</i>	T	E
Yellow Sandshell	<i>Lampsilis teres</i>	T	
Sheepnose	<i>Plethobasus cyphus</i>	E	E
Round Pigtoe	<i>Pleurobema sintoxia</i>	E	
Fat Pocketbook ^a	<i>Potamilus capax</i>		E
Salamander Mussel	<i>Simpsonaias ambigua</i>	E	P-E
Monkeyface	<i>Theliderma metanevra</i>	T	
Pistolgrip	<i>Tritogonia verrucosa</i>	T	
Ellipse	<i>Venustaconcha ellipsiformis</i>	T	
Terrestrial Snails			
Midwest Pleistocene Vertigo	<i>Vertigo arthuri</i>	T	
Bluff Vertigo	<i>Vertigo meramecensis</i>	E	
Iowa Pleistocene Snail	<i>Discus macclintocki</i>	E	E
Bumble Bees			
Rusty Patched Bumble Bee	<i>Bombus affinis</i>	E	E
Butterflies			
Mottled Duskywing	<i>Gesta martialis</i>	E	
Two-spotted Skipper	<i>Euphyes bimacla</i>	T	
Arogos Skipper	<i>Atrytone arogos</i>	E	
Crossline Skipper	<i>Limochores origenes</i>	T	
Leonard's Skipper†	<i>Hesperia leonardus</i>	T	
Ottoe Skipper	<i>Hesperia ottoe</i>	E	
Dakota Skipper††	<i>Hesperia dacotae</i>	E	T
Mulberry Wing	<i>Poanes massasoit</i>	E	
Dusted Skipper	<i>Atrytonopsis hianna</i>	E	
Poweshiek Skipperling††	<i>Oarisma poweshiek</i>	E	E
Olympia Marble	<i>Euchloe olympia</i>	T	
Monarch	<i>Danaus plexippus</i>		P-T
(Western) Regal Fritillary	<i>Argynnis idalia (occidentalis)</i>	T	P-T
Baltimore Checkerspot	<i>Euphydryas phaeton</i>	T	

Common Name	Scientific Name	IA T/E	Fed T/E/C
Amphibians			
Dragonflies and Damselflies			
Prairie Bluet	<i>Coenagrion angulatum</i>	E	
Taiga Bluet	<i>Coenagrion resolutum</i>	T	
Sioux Snaketail	<i>Ophiogomphus smithi</i>	T	
Westfall's Snaketail	<i>Ophiogomphus westfalli</i>	T	
Plains Emerald	<i>Somatochlora ensigera</i>	T	

* Eastern Black Rail - Only the subspecies *Laterallus jamaicensis jamaicensis* is listed as federally threatened; this subspecies is considered an accidental species in Iowa by the Fish & Wildlife Service.

** Whooping Cranes which are occasionally observed in Iowa are part of a Non-essential, Experimental Population. See this link for a definition: <https://ipac.ecosphere.fws.gov/status/list#EXPN>

*** Rufa Red Knot - only the subspecies *Calidris canutus rufa* is listed as federally threatened; this subspecies does not occur in Iowa.

^α Fat Pocketbook is now considered to be extirpated from Iowa.

† The current list includes both the Leonard's Skipper and Pawnee Skipper as subspecies.

†† Dakota Skipper and Poweshiek Skipperling are now considered extirpated from Iowa, but remain state-listed in case re-introduction becomes a possibility.

Appendix Table 16-2. State and Federally Listed Plant Species

Species common and scientific names as well as species concept is presented here as presented within Iowa code. However, the final rule may be updated to reflect the currently accepted scientific and common names. Additions to the 'Common Name' and 'Scientific Name' columns (in parentheses) are added by the Plan authors for clarification. An update to the State of Iowa T&E species was in process in 2025 during plan submission, and finalized in June of 2026. The Iowa T&E species are presented below in the 3rd column. The 4th column displays federal listing status as of July 2026.

T = Threatened, E = Endangered, SC = Special Concern (Iowa only), C = Candidate (Federal Only)

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Balsam fir	<i>Abies balsamea</i>	SC	
Three-seeded mercury	<i>Acalypha gracilens</i>	T	
Red maple	<i>Acer rubrum</i>	SC	
Mountain maple	<i>Acer spicatum</i>	SC	
American bird's-foot trefoil	<i>Acmispon americanus</i>	SC	
Northern wild monkshood	<i>Aconitum noveboracense</i>	T	T
Allegheny vine	<i>Adlumia fungosa</i>	SC	
Round-stemmed false foxglove	<i>Agalinis gattingeri</i>	T	
Pale false foxglove	<i>Agalinis skinneriana</i>	E	
Blue giant hyssop	<i>Agastache foeniculum</i>	SC	
Nodding wild onion	<i>Allium cernuum</i>	SC	
Saskatoon serviceberry	<i>Amelanchier alnifolia</i>	SC	
Low serviceberry	<i>Amelanchier humilis</i>	SC	
Inland serviceberry	<i>Amelanchier interior</i>	T	
Allegheny serviceberry	<i>Amelanchier laevis</i>	SC	
Roundleaf serviceberry	<i>Amelanchier sanguinea</i>	E	
Fragrant false indigo	<i>Amorpha nana</i>	T	
Raccoon grape	<i>Ampelopsis cordata</i>	E	
Pearly everlasting	<i>Anaphalis margaritacea</i>	E	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Sand bluestem	<i>Andropogon hallii</i>	E	
Round-lobed hepatica	<i>Anemone americana</i>	E	
Carolina anemone	<i>Anemone caroliniana</i>	E	
Bearberry	<i>Arctostaphylos uva-ursi</i>	E	
Virginia snakeroot	<i>Aristolochia serpentaria</i>	E	
Black chokeberry	<i>Aronia melanocarpa</i>	E	
Fringed sagewort	<i>Artemisia frigida</i>	E	
Woolly milkweed	<i>Asclepias lanuginosa</i>	T	
Mead's milkweed	<i>Asclepias meadii</i>	E	T
Oval-leaved milkweed	<i>Asclepias ovalifolia</i>	T	
Showy milkweed	<i>Asclepias speciosa</i>	E	
Narrow-leaved milkweed	<i>Asclepias stenophylla</i>	T	
Green antelopehorn	<i>Asclepias viridis</i>	E	
Pawpaw	<i>Asimina triloba</i>	T	
Wall-rue	<i>Asplenium ruta-muraria</i>	E	
Field milkvetch	<i>Astragalus agrestis</i>	E	
Bent milkvetch	<i>Astragalus distortus</i>	SC	
Slender milkvetch	<i>Astragalus flexuosus</i>	SC	
Prairie milkvetch	<i>Astragalus laxmannii</i>	E	
Missouri milkvetch	<i>Astragalus missouriensis</i>	SC	
Fern-leaved false foxglove	<i>Aureolaria pedicularia</i>	E	
Mexican mosquito fern	<i>Azolla mexicana</i>	SC	
Blue wild indigo	<i>Baptisia australis</i>	SC	
Water parsnip	<i>Berula erecta</i>	T	
Kittentails	<i>Besseyia bullii</i>	SC	
Bog birch	<i>Betula pumila</i>	SC	
Water marigold	<i>Bidens beckii</i>	E	
Pagoda plant	<i>Blephilia ciliata</i>	SC	
Purple rockcress	<i>Boechera grahamii</i>	SC	
Green rockcress	<i>Boechera missouriensis</i>	SC	
Prairie bulrush	<i>Bolboschoenus maritimus</i>	SC	
Prairie moonwort	<i>Botrychium campestre</i>	SC	
Matricary grape fern	<i>Botrychium matricariifolium</i>	E	
Little grapefern	<i>Botrychium simplex</i>	E	
Swamp moonwort	<i>Botrychium tenebrosum</i>	E	
Buffalograss	<i>Bouteloua dactyloides</i>	SC	
Watershield	<i>Brasenia schreberi</i>	T	
Satin brome	<i>Bromus nottawayanus</i>	SC	
Poppy mallow	<i>Callirhoe alcaeoides</i>	SC	
Poppy mallow	<i>Callirhoe triangulata</i>	T	
Water-starwort	<i>Callitriche heterophylla</i>	T	
Vernal water-starwort	<i>Callitriche palustris</i>	SC	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Terrestrial water-starwort	<i>Callitriche terrestris</i>	SC	
Oklahoma grass-pink	<i>Calopogon oklahomensis</i>	SC	
Tuberous grass-pink	<i>Calopogon tuberosus</i>	SC	
Low bindweed	<i>Calystegia spithamea</i>	T	
Prairie hyacinth	<i>Camassia angusta</i>	SC	
Wild hyacinth	<i>Camassia scilloides</i>	SC	
White-tinged sedge	<i>Carex albicans</i>	E	
Foxtail sedge	<i>Carex alopecoidea</i>	SC	
Assiniboine sedge	<i>Carex assininboinensis</i>	T	
Back's sedge	<i>Carex backii</i>	E	
Carey's sedge	<i>Carex careyana</i>	T	
Cordroot sedge	<i>Carex chordorrhiza</i>	E	
Fibrous-root sedge	<i>Carex communis</i>	T	
Field sedge	<i>Carex conoidea</i>	SC	
Fringed sedge	<i>Carex crinita</i>	E	
Raven's-foot sedge	<i>Carex crus-corvi</i>	E	
Dewey's sedge	<i>Carex deweyana</i>	SC	
Lesser tussock sedge	<i>Carex diandra</i>	SC	
Needleleaf sedge	<i>Carex duriscula</i>	SC	
Star sedge	<i>Carex echinata</i>	E	
Fescue sedge	<i>Carex festucacea</i>	SC	
Slender sedge	<i>Carex gracilescens</i>	SC	
Shoreline sedge	<i>Carex hyalenolepis</i>	E	
Bladder sedge	<i>Carex intumescens</i>	SC	
Wiregrass sedge	<i>Carex lasiocarpa</i>	SC	
Spreading sedge	<i>Carex laxiculmis</i>	T	
Delicate sedge	<i>Carex leptalea</i>	T	
Mud sedge	<i>Carex limosa</i>	SC	
Hoplike sedge	<i>Carex lupuliformis</i>	E	
Yellow sedge	<i>Carex lurida</i>	T	
Poor sedge	<i>Carex magellanica</i>	SC	
Intermediate sedge	<i>Carex media</i>	E	
Peck's sedge	<i>Carex peckii</i>	SC	
Plantain-leaved sedge	<i>Carex plantaginea</i>	E	
Drooping sedge	<i>Carex prasina</i>	E	
Cyperus-like sedge	<i>Carex pseudocyperus</i>	E	
Reflexed sedge	<i>Carex retroflexa</i>	E	
Rocky Mountain sedge	<i>Carex saximontana</i>	E	
Dry-spike sedge	<i>Carex siccata</i>	SC	
Sterile sedge	<i>Carex sterilis</i>	T	
Swan's sedge	<i>Carex swanii</i>	SC	
Quill sedge	<i>Carex tenera</i>	T	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Shaved sedge	<i>Carex tonsa</i>	T	
Tuckerman's sedge	<i>Carex tuckermanii</i>	SC	
Wood's sedge	<i>Carex woodii</i>	T	
Pignut hickory	<i>Carya glabra</i>	SC	
Fireweed	<i>Chamaenerion angustifolium</i>	E	
Inland oats	<i>Chamaenerion angustifolium</i>	SC	
Pink turtlehead	<i>Chelone obliqua</i>	T	
Red goosefoot	<i>Chenopodium rubrum</i>	SC	
Pipsissewa	<i>Chimaphila umbellata</i>	E	
Iowa golden saxifrage	<i>Chrysosplenium iowense</i>	SC	
Drooping woodreed	<i>Cinna latifolia</i>	E	
Hill's thistle	<i>Cirsium pumilum</i>	SC	
Wavy-leaved thistle	<i>Cirsium undulatum</i>	SC	
Purple clematis	<i>Clematis occidentalis</i>	E	
Blue-eyed mary	<i>Collinsia verna</i>	E	
Marsh cinquefoil	<i>Comarum palustre</i>	T	
Dayflower	<i>Commelina erecta</i>	T	
Cancer root	<i>Conopholis americana</i>	SC	
Spotted coralroot	<i>Corallorhiza maculata</i>	E	
Bunchberry	<i>Cornus canadensis</i>	T	
Golden corydalis	<i>Corydalis aurea</i>	E	
Large-bracted corydalis	<i>Corydalis curvisiliqua</i>	E	
Pale corydalis	<i>Corydalis flavula</i>	E	
Pink corydalis	<i>Corydalis sempervirens</i>	E	
Fireberry hawthorn	<i>Crataegus chrysocarpa</i>	T	
Hillside hawthorn	<i>Crataegus collina</i>	SC	
Dodge's hawthorn	<i>Crataegus dodgei</i>	SC	
River hawthorn	<i>Crataegus fluviatilis</i>	SC	
Large-seeded hawthorn	<i>Crataegus macrosperma</i>	SC	
Washington hawthorn	<i>Crataegus phaenopyrum</i>	SC	
Waxy-fruited hawthorn	<i>Crataegus pruinosa</i>	T	
Hawksbeard	<i>Crepis runcinata</i>	SC	
Prairie tea	<i>Croton monanthogynus</i>	SC	
Slender cliff brake	<i>Cryptogramma stelleri</i>	SC	
Waxweed	<i>Cuphea viscosissima</i>	SC	
Largeseed dodder	<i>Cuscuta indecora</i>	SC	
Bigfruit dodder	<i>Cuscuta umbrosa</i>	SC	
Small white lady's slipper	<i>Cypripedium candidum</i>	SC	
Showy lady's-slipper	<i>Cypripedium reginae</i>	T	
Fragile fern	<i>Cystopteris fragilis</i>	SC	
Laurentian fragile fern	<i>Cystopteris laurentiana</i>	SC	
Tennessee bladder fern	<i>Cystopteris tennesseensis</i>	SC	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Silky prairie-clover	<i>Dalea villosa</i>	E	
Shrubby cinquefoil	<i>Dasiphora fruticosa</i>	T	
Swamp loosestrife	<i>Decodon verticillatus</i>	SC	
Tree clubmoss	<i>Dendrolycopodium dendroideum</i>	E	
Silvery spleenwort	<i>Deparia acrostichoides</i>	T	
Sessile-leaved tick trefoil	<i>Desmodium sessilifolium</i>	E	
Northern panic-grass	<i>Dichanthelium boreale</i>	T	
Slim-leaved panic-grass	<i>Dichanthelium linearifolium</i>	T	
Fingergrass	<i>Digitaria filiformis</i>	SC	
Persimmon	<i>Diospyros virginiana</i>	SC	
Crowfoot clubmoss	<i>Diphasiastrum digitatum</i>	SC	
Narrow-leaved spleenwort	<i>Diplazium pynocarpon</i>	T	
Jeweled shooting star	<i>Dodecatheon amethystinum</i>	SC	
Roundleaved sundew	<i>Drosera rotundifolia</i>	E	
Glandular wood fern	<i>Dryopteris intermedia</i>	T	
Marginal shield fern	<i>Dryopteris marginalis</i>	E	
Purple coneflower	<i>Echinacea purpurea</i>	E	
Waterwort	<i>Elatine rubella</i>	SC	
Purple spikerush	<i>Eleocharis atropurpurea</i>	SC	
Dwarf spikerush	<i>Eleocharis coloradoensis</i>	SC	
Elliptic spikerush	<i>Eleocharis elliptica</i>	E	
Green spikerush	<i>Eleocharis flavescens</i>	SC	
Intermediate spikerush	<i>Eleocharis intermedia</i>	SC	
Oval spikerush	<i>Eleocharis ovata</i>	T	
Few-flowered spikerush	<i>Eleocharis pauciflora</i>	E	
Wolf's spikerush	<i>Eleocharis wolfii</i>	E	
Diverseglume wildrye	<i>Elymus diversiglumis</i>	SC	
Southeastern wildrye	<i>Elymus glabriflorus</i>	SC	
Wiegand's wildrye	<i>Elymus wiegandii</i>	E	
Downy willowherb	<i>Epilobium strictum</i>	E	
Meadow horsetail	<i>Equisetum pratense</i>	SC	
Dwarf scouring rush	<i>Equisetum scirpoides</i>	SC	
Woodland horsetail	<i>Equisetum sylvaticum</i>	T	
Ponygrass	<i>Eragrostis reptans</i>	SC	
Slender cottongrass	<i>Eriophorum gracile</i>	E	
Tawny cottongrass	<i>Eriophorum virginicum</i>	E	
Yellow trout lily	<i>Erythronium americanum</i>	T	
Midland fawnlily	<i>Erythronium mesochoreum</i>	SC	
Upland boneset	<i>Eupatorium sessilifolium</i>	T	
Wood spurge	<i>Euphorbia commutata</i>	E	
Six-angled spurge	<i>Euphorbia hexagona</i>	SC	
Forked aster	<i>Eurybia furcata</i>	E	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Large-leaved aster	<i>Eurybia macrophylla</i>	E	
Schreber's aster	<i>Eurybia schreberi</i>	E	
Grass-leaved goldenrod	<i>Euthamia graminifolia</i>	SC	
Queen of the prairie	<i>Filipendula rubra</i>	E	
Slender fimbry	<i>Fimbristylis autumnalis</i>	T	
False mermaid	<i>Floerkea proserpinacoides</i>	E	
Blue ash	<i>Fraxinus quadrangulata</i>	T	
Umbrella grass	<i>Fuirena simplex</i>	SC	
Rough bedstraw	<i>Galium asprellum</i>	E	
Bog bedstraw	<i>Galium labradoricum</i>	T	
Three-petal bedstraw	<i>Galium trifidum</i>	SC	
Early cudweed	<i>Gamochaeta purpurea</i>	SC	
Black Huckleberry	<i>Gaylussacia baccata</i>	E	
Northern cranesbill	<i>Geranium bicknellii</i>	SC	
Oak fern	<i>Gymnocarpium dryopteris</i>	T	
Nahanni oak fern	<i>Gymnocarpium jessoense</i>	SC	
Limestone oak fern	<i>Gymnocarpium robertianum</i>	SC	
Sweet Indian plantain	<i>Hasteola suaveolens</i>	SC	
Needle-and-thread grass	<i>Hesperostipa comata</i>	T	
Mud plantain	<i>Heteranthera limosa</i>	SC	
Water stargrass	<i>Heteranthera multiflora</i>	SC	
Hairy goldenaster	<i>Heterothecia villosa</i>	E	
American alumroot	<i>Heuchera americana</i>	SC	
Common mare's-tail	<i>Hippuris vulgaris</i>	SC	
Povertygrass	<i>Hudsonia tomentosa</i>	E	
Shining clubmoss	<i>Huperzia lucidula</i>	SC	
Rock clubmoss	<i>Huperzia porophila</i>	E	
Green violet	<i>Hybanthus concolor</i>	T	
Canadian St. Johnswort	<i>Hypericum canadense</i>	E	
Drummond St. Johnswort	<i>Hypericum drummondii</i>	SC	
Pinweed	<i>Hypericum gentianoides</i>	E	
Winterberry	<i>Ilex verticillata</i>	T	
Flax-leaved aster	<i>Ionactis linariifolia</i>	E	
White morning-glory	<i>Ipomoea lacunosa</i>	E	
Black-based quillwort	<i>Isoetes melanopoda</i>	E	
Sumpweed	<i>Iva annua</i>	SC	
Twinleaf	<i>Jeffersonia diphylla</i>	T	
Butternut	<i>Juglans cinerea</i>	SC	
Alpine rush	<i>Juncus alpinoarticulatus</i>	E	
Toad rush	<i>Juncus bufonius</i>	SC	
Soft rush	<i>Juncus effusus</i>	SC	
Green rush	<i>Juncus greenii</i>	T	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Edged rush	<i>Juncus marginatus</i>	E	
Vasey's rush	<i>Juncus vaseyi</i>	E	
Creeping juniper	<i>Juniperus horizontalis</i>	E	
Water willow	<i>Justicia americana</i>	SC	
Dwarf dandelion	<i>Krigia virginica</i>	T	
Intermediate pinweed	<i>Lechea intermedia</i>	E	
Hairy pinweed	<i>Lechea mucronata</i>	E	
Minute duckweed	<i>Lemna perpusilla</i>	SC	
Prairie bush clover	<i>Lespedeza leptostachya</i>	T	T
Creeping bush clover	<i>Lespedeza repens</i>	SC	
Cleft conobea	<i>Leucospora multifida</i>	T	
Lanceleaf blazingstar	<i>Liatris lancifolia</i>	SC	
Twinflower	<i>Linnaea borealis</i>	T	
Wild flax	<i>Linum medium</i>	SC	
Brook lobelia	<i>Lobelia kalmii</i>	SC	
Whiskbroom parsley	<i>Lomatium foeniculaceum</i>	T	
Western parsley	<i>Lomatium orientale</i>	T	
Wild lupine	<i>Lupinus perennis</i>	E	
Bog clubmoss	<i>Lycopodiella inundata</i>	E	
Running clubmoss	<i>Lycopodium clavatum</i>	T	
Adder's-mouth orchid	<i>Malaxis unifolia</i>	SC	
Globe mallow	<i>Malvastrum hispidum</i>	SC	
Hairy waterclover	<i>Marsilea vestita</i>	E	
Bunchflower	<i>Melanthium virginicum</i>	T	
Ten-petaled blazingstar	<i>Mentzelia decapetala</i>	T	
Bog buckbean	<i>Menyanthes trifoliata</i>	T	
Northern lungwort	<i>Mertensia paniculata</i>	T	
Millet grass	<i>Milium effusum</i>	E	
Sensitive briar	<i>Mimosa nuttallii</i>	E	
Yellow monkeyflower	<i>Mimulus glabratus</i>	SC	
Rock sandwort	<i>Minuartia michauxii</i>	T	
Partridge berry	<i>Mitchella repens</i>	E	
Naked miterwort	<i>Mitella nuda</i>	E	
Pinesap	<i>Monotropa hypopithys</i>	T	
Water miner's-lettuce	<i>Montia chamissoi</i>	SC	
Scratchgrass	<i>Muhlenbergia asperifolia</i>	SC	
Mat muhly	<i>Muhlenbergia richardsonis</i>	E	
Water milfoil	<i>Myriophyllum heterophyllum</i>	SC	
Rough water milfoil	<i>Myriophyllum pinnatum</i>	SC	
Water milfoil	<i>Myriophyllum verticillatum</i>	SC	
Slender lip fern	<i>Myriopteris gracilis</i>	SC	
Glade mallow	<i>Napaea dioica</i>	SC	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Small sundrops	<i>Oenothera perennis</i>	E	
Southern adder's-tongue	<i>Ophioglossum vulgatum</i>	T	
Eastern pricklypear	<i>Opuntia cespitosa</i>	SC	
Fragile prickly-pear	<i>Opuntia fragilis</i>	E	
Bigroot pricklypear	<i>Opuntia macrorhiza</i>	SC	
Frenchgrass	<i>Orbexilum onobrychis</i>	E	
Clustered broomrape	<i>Orobanche fasciculata</i>	E	
Louisiana broomrape	<i>Orobanche ludoviciana</i>	SC	
One-sided shinleaf	<i>Orthilia secunda</i>	E	
Rough-leaved ricegrass	<i>Oryzopsis asperifolia</i>	E	
Royal fern	<i>Osmunda regalis</i>	T	
Cinnamon fern	<i>Osmundastrum cinnamomeum</i>	E	
False golden ragwort	<i>Packera pseud aurea</i>	SC	
Philadelphia panic grass	<i>Panicum philadelphicum</i>	E	
Purple cliffbrake	<i>Pellaea atropurpurea</i>	T	
Arrow arum	<i>Peltandra virginica</i>	E	
White beardtongue	<i>Penstemon albidus</i>	T	
Cobaea beardtongue	<i>Penstemon cobaea</i>	E	
Slender beardtongue	<i>Penstemon gracilis</i>	E	
Tube beardtongue	<i>Penstemon tubaeiflorus</i>	E	
Wild dill	<i>Perideridia americana</i>	E	
Long beechfern	<i>Phegopteris connectilis</i>	E	
Broad beech fern	<i>Phegopteris hexagonoptera</i>	T	
Fameflower	<i>Phemeranthus parviflorus</i>	E	
Rough-seeded fameflower	<i>Phemeranthus rugospermus</i>	E	
Cleft phlox	<i>Phlox bifida</i>	SC	
Missouri ground-cherry	<i>Physalis missouriensis</i>	SC	
Annual ground-cherry	<i>Physalis pubescens</i>	SC	
Silvery bladderpod	<i>Physaria ludoviciana</i>	SC	
Mountain ricegrass	<i>Piptatherum pungens</i>	E	
Heart-leaved plantain	<i>Plantago cordata</i>	SC	
Northern bog orchid	<i>Platanthera aquilonis</i>	T	
Wood orchid	<i>Platanthera clavellata</i>	E	
Pale green orchid	<i>Platanthera flava</i>	SC	
Hooker's orchid	<i>Platanthera hookeri</i>	E	
Green fringed orchid	<i>Platanthera lacera</i>	E	
Eastern prairie fringed orchid	<i>Platanthera leucophaea</i>	E	T
Western prairie fringed orchid	<i>Platanthera praeclara</i>	T	T
Purple fringed orchid	<i>Platanthera psycodes</i>	T	
Plains bluegrass	<i>Poa arida</i>	SC	
Chapman's bluegrass	<i>Poa chapmaniana</i>	SC	
Bog bluegrass	<i>Poa paludigena</i>	T	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Woodland Bluegrass	<i>Poa saltuensis</i>	E	
Meadow bluegrass	<i>Poa wolfii</i>	SC	
Clammyweed	<i>Polansia jamesii</i>	E	
Crossleaf milkwort	<i>Polygala cruciata</i>	E	
Pink milkwort	<i>Polygala incarnata</i>	E	
Purple milkwort	<i>Polygala polygama</i>	E	
Hairy Solomon's-seal	<i>Polygonatum pubescens</i>	E	
Jointweed	<i>Polygonella articulata</i>	E	
Douglas' knotweed	<i>Polygonum douglasii</i>	SC	
Large-leaved pondweed	<i>Potamogeton amplifolius</i>	SC	
Ribbonleaf pondweed	<i>Potamogeton epihydrus</i>	SC	
Blunt-leaved pondweed	<i>Potamogeton friesii</i>	SC	
White-stemmed pondweed	<i>Potamogeton praelongus</i>	E	
Spiralled pondweed	<i>Potamogeton spirillus</i>	SC	
Tussock pondweed	<i>Potamogeton strictifolius</i>	SC	
Vasey's pondweed	<i>Potamogeton vaseyi</i>	SC	
Silverweed	<i>Potentilla anserina</i>	E	
Pennsylvania cinquefoil	<i>Potentilla pensylvanica</i>	E	
Brook cinquefoil	<i>Potentilla rivalis</i>	SC	
Nodding rattlesnake-root	<i>Prenanthes crepidinea</i>	T	
Bird's-eye primrose	<i>Primula mistassinica</i>	SC	
Mermaid-weed	<i>Proserpinaca palustris</i>	SC	
Hortulan plum	<i>Prunus hortulana</i>	SC	
Mexican plum	<i>Prunus mexicana</i>	SC	
Canada plum	<i>Prunus nigra</i>	T	
Sand cherry	<i>Prunus pumila</i>	T	
Lemon scurfpea	<i>Psoralegium lanceolatum</i>	SC	
Pink shinleaf	<i>Pyrola asarifolia</i>	T	
Gmelin's crowfoot	<i>Ranunculus gmelinii</i>	SC	
Lanceleaf buckthorn	<i>Rhamnus lanceolata</i>	SC	
Meadow beauty	<i>Rhexia virginica</i>	T	
Dwarf sumac	<i>Rhus copallinum</i>	SC	
Beaked rush	<i>Rhynchospora capillacea</i>	SC	
Northern currant	<i>Ribes hudsonianum</i>	T	
Lakecress	<i>Rorippa aquatica</i>	SC	
Curvepod yellowcress	<i>Rorippa curvipes</i>	SC	
Yellow cress	<i>Rorippa sinuata</i>	SC	
Prickly rose	<i>Rosa acicularis</i>	SC	
Wood's rose	<i>Rosa woodsii</i>	T	
Tooth cup	<i>Rotala ramosior</i>	SC	
Garden dewberry	<i>Rubus aboriginum</i>	T	
Stem flower dewberry	<i>Rubus caulifloris</i>	E	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Washington dewberry	<i>Rubus celer</i>	E	
Short-stalked dewberry	<i>Rubus curtipes</i>	T	
Southern dewberry	<i>Rubus enslenii</i>	T	
Iron River dewberry	<i>Rubus ferrofluvius</i>	T	
Common dewberry	<i>Rubus flagellaris</i>	T	
Fuller's bristly dewberry	<i>Rubus fulleri</i>	T	
Swamp dewberry	<i>Rubus hispidus</i>	E	
Missouri bristle-berry	<i>Rubus missouricus</i>	SC	
Recurved blackberry	<i>Rubus recurvans</i>	E	
Downy dewberry	<i>Rubus satis</i>	T	
New England blackberry	<i>Rubus semisetosus</i>	E	
Bottomland dewberry	<i>Rubus serratus</i>	E	
Big Horseshoe Lake bristle-berry	<i>Rubus stipulatus</i>	SC	
Uniform bristleberry	<i>Rubus uniformis</i>	E	
Western dock	<i>Rumex occidentalis</i>	SC	
Widgeon grass	<i>Ruppia cirrhosa</i>	T	
Prairie rose gentian	<i>Prairie rose gentian</i>	SC	
Crested arrowhead	<i>Crested arrowhead</i>	SC	
Shining willow	<i>Salix lucida</i>	E	
Bog willow	<i>Salix pedicellaris</i>	T	
Silky willow	<i>Salix sericea</i>	SC	
Sassafras	<i>Sassafras albidum</i>	SC	
Leathery grapefern	<i>Sceptridium multifidum</i>	T	
Tumblegrass	<i>Schedonnardus paniculatus</i>	SC	
Scheuchzeria	<i>Scheuchzeria palustris</i>	SC	
Hall's bulrush	<i>Schoenoplectiella hallii</i>	SC	
Smith's bulrush	<i>Schoenoplectiella smithii</i>	E	
Torrey's bulrush	<i>Schoenoplectus torreyi</i>	SC	
Pedicelled bulrush	<i>Scirpus pedicellatus</i>	SC	
Low nutrush	<i>Scleria verticillata</i>	T	
Downy skullcap	<i>Scutellaria incana</i>	E	
Veined skullcap	<i>Scutellaria nervosa</i>	E	
Wild stonecrop	<i>Sedum ternatum</i>	E	
Meadow spikemoss	<i>Selaginella eclipses</i>	E	
Rock spikemoss	<i>Selaginella rupestris</i>	SC	
Knotweed bristlegrass	<i>Setaria parviflora</i>	E	
Buffaloberry	<i>Sheperdia argentea</i>	T	
Annual skeletonweed	<i>Shinneroseris rostrata</i>	E	
Three-toothed cinquefoil	<i>Sibbaldiopsis tridentata</i>	E	
Needle-pointed blue-eyed grass	<i>Sisyrinchium mucronatum</i>	E	
Rough-leaved goldenrod	<i>Solidago patula</i>	E	
Bog goldenrod	<i>Solidago uliginosa</i>	E	

Common Name	Scientific Name	IA T/E/SC	Fed T/E/C
Burreed	<i>Sparganium angrocladum</i>	SC	
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	T	
Yellow-lipped ladies-tresses	<i>Spiranthes lucida</i>	E	
Hooded ladies-tresses	<i>Spiranthes romanzoffiana</i>	E	
Little ladies-tresses	<i>Spiranthes tuberosa</i>	E	
Spring ladies-tresses	<i>Spiranthes vernalis</i>	E	
Clandestine dropseed	<i>Sporobolus clandestinus</i>	SC	
Rough-leaved hedge-nettle	<i>Stachys aspera</i>	E	
Rosy twisted-stalk	<i>Streptopus lanceolatus</i>	SC	
Pickering morning-glory	<i>Stylisma pickeringii</i>	E	
Snowberry	<i>Symphoricarpos albus</i>	E	
Rush aster	<i>Symphyotrichum boreale</i>	T	
Ricebutton aster	<i>Symphyotrichum dumosum</i>	SC	
Curved aster	<i>Symphyotrichum falcatum</i>	SC	
Prairie aster	<i>Symphyotrichum turbinellum</i>	SC	
Waxy meadowrue	<i>Thalictrum amphibolum</i>	E	
Western spiderwort	<i>Tradescantia occidentalis</i>	E	
Spiderwort	<i>Tradescantia virginiana</i>	SC	
Buffalo clover	<i>Trifolium reflexum</i>	SC	
Large arrowgrass	<i>Triglochin maritima</i>	T	
Small arrowgrass	<i>Triglochin palustris</i>	T	
Humped bladderwort	<i>Utricularia gibba</i>	SC	
Flat-leaved bladderwort	<i>Utricularia intermedia</i>	SC	
Small bladderwort	<i>Utricularia minor</i>	E	
Sessile-leaf bellwort	<i>Uvularia sessilifolia</i>	E	
Low sweet blueberry	<i>Vaccinium angustifolium</i>	E	
Velvetleaf blueberry	<i>Vaccinium myrtilloides</i>	E	
American brookline	<i>Veronica americana</i>	E	
Marsh speedwell	<i>Veronica scutellata</i>	SC	
Maple-leaved arrowwood	<i>Viburnum acerifolium</i>	E	
Black arrowwood	<i>Viburnum molle</i>	T	
Black haw	<i>Viburnum prunifolium</i>	SC	
Spurred violet	<i>Viola adunca</i>	E	
Large-leaved violet	<i>Viola blanda</i>	E	
Lance-leaved violet	<i>Viola lanceolata</i>	T	
Macloskey's violet	<i>Viola macloskeyi</i>	T	
Kidney-leaved violet	<i>Viola renifolia</i>	T	
Summer grape	<i>Vitis aestivalis</i>	T	
Frost grape	<i>Vitis vulpina</i>	E	
Rusty woodsia	<i>Woodsia ilvensis</i>	E	
Oregon woodsia	<i>Woodsia oregana</i>	E	
Yellow-eyed grass	<i>Xyris torta</i>	T	

Appendix 17. Species Status Assessment Criteria

Methodology for Fauna SGCN Selection

To assess the conservation status of all native, extant Iowa species in the fauna taxa groups included in this Plan, we utilized 8 criteria. The Wildlife Working Group developed a scoring process in which each criterion was weighted according to our understanding of the relative contribution of each factor to a species' overall conservation status. The theoretical potential score for an individual species ranges from 0 - 3.75. Individual species scores ranged from 0.57 (for the Snuffbox Mussel, which may be extirpated) to 3.75 (for several species of low conservation concern that have been expanding their range within Iowa). The cutoff value was set at 2.844, meaning that if a species score was a 2.844 or lower, it was categorized as Species of Greatest Conservation Need.

Status Assessment Criteria

Species with 2 or more fields that are unknown went into a separate "Data Deficient" category of species for which information requirements are high. Data Deficient Species will be categorized as SGCN. If a species has been extirpated from the state, it was also put into a separate category for further discussion; some extirpated species may be included as SGCN and others may not, depending on whether the species is a candidate for restoration activities within the state.

Range-wide Factor

Criteria 1: Range Extent - Area encompassing all known and projected occurrences, excluding vagrancy. This includes the entire range, not just the range extent within Iowa. (Breeding range only for migratory species)

Rank Value	Range in km ²	Range in square miles	Examples of Comparable Size
0	no occurrences believed to be extant; species presumed extinct	NA	NA
1	<1000 km ²	<about 400 square miles	Rocky Mountain Natl Park
2	1,000 -5000 km ²	400 - 2,000 square miles	Prince Edward Island
3	5,000 - 100,000 km ²	2,000 - 40,000 square miles	Kentucky
4	100,000 - 2,50,000 km ²	40,000 - 1,000,000 square miles	Alaska + Texas
5	>2,500,000 km ²	>1,000,000 square miles	>Alaska + Texas

(Note - This is not intended to be an estimate of the amount of occupied or potential habitat. The use of this parameter is to determine the degree to which risks from threatening factors are spread spatially across the geographic distribution of the species.)

Iowa-Only Factors

Criteria 2: Area of Occupancy

- Extent of historical range within Iowa which currently supports the species. (Breeding and Migratory Range)
 - 0 = Species known from <10% historic range
 - 1 = Species known from 11-25% historic range
 - 2 = Species known from 26-50% historic range
 - 3 = Species known from 51-75% historic range
 - 4 = Species known from 76-100% historic range
 - 5 = Species known from >100% historic range

Criteria 3: Long-term Trend

- Can be population numbers, density, or area occupied since time of European settlement in Iowa (Breeding and migratory range)
 - 0 = Species has declined by >90%

- 1 = Species has declined by 68 - 89%
- 2 = Species has declined by 41 - 67%
- 3 = Species has declined by 11- 40%
- 4 = Species has declined by 0 - 10%
- 5 = Species has increased

Criteria 4: Short-term Trend

- Can be population numbers, density or area occupied for past ten years in Iowa.
 - 0 = Species has declined by >90%
 - 1 = Species has declined by 68 - 89%
 - 2 = Species has declined by 41 - 67%
 - 3 = Species has declined by 11- 40%
 - 4 = Species has declined by 0 - 10%
 - 5 = Species has increased

Criteria 5: Ecological Specialization (Population Concentration)

- Degree to which individuals within populations congregate or aggregate seasonally or daily in Iowa (e.g. hibernacula, breeding sites, migration focal points).
 - 0 = Majority of individuals congregate at a single location
 - 1 = Individuals concentrate at 1-25 locations
 - 2 = Individuals congregate at over 25 sites or do not concentrate

Criteria 6: Ecological Specialization (Dietary)

- Relates to the primary way in which local populations respond to decreases in availability of preferred food type.
 - 0 = Number of individuals declines, no shift in diet
 - 1 = Some shift in diet, population suffers but stabilizes
 - 2 = Species shifts to different diet, no impact to population

Criteria 7: Ecological Specialization (General)

- Species has some unique life history requirement not addressed above (e.g. hibernacula requirements; narrow ambient temperature limits; specific roosting structure)
 - 0 = Highly specialized
 - 1 = Moderately specialized
 - 2 = Not specialized

Criteria 8: Threat Not Addressed Above

- List and rank any threat not addressed above (e.g. mussels lack of recruitment; butterflies uni- or multi-voltine) If no threat, score as 4, if 0-3, articulate what threat is.
 - 0 = Severe threat to species endurance
 - 1 = High threat to species endurance
 - 2 = Medium threat to species endurance
 - 3 = Low threat to species endurance
 - 4 = no threat to species endurance

Methodology for Plant SGCN Selection

Taxonomy primarily from the Flora of North America (FNA) with exceptions for the genus *Rubus* (Widrechner, 1998), and the federally listed species of Northern Wild Monkshood (*Aconitum novaboracense*) and Hall's Bulrush (*Schoenoplectiella hallii*) as presented in the Federal Register.

This effort grew from the committee work done to revise the Iowa Threatened and Endangered Species list (571, Chapter 77 (Endangered & Threatened Plant and Animal Species) as described in Iowa Code Chapter 481B; B.3.1).

The core committee was comprised of:

John Pearson, Iowa DNR State Ecologist
Deborah Lewis, retired, Iowa State University Ada Hayden Herbarium, Curator
Thomas Rosburg, Drake University
Mark Widrlechner, retired, USDA Agricultural Research Service
Dean Roosa, retired, Iowa DNR State Ecologist
Mark Leoschke, Iowa DNR Botanist
William Norris, Western New Mexico University & Iowa State University

With specialist assistance from:

Donald Farrar, retired, Iowa State University (ferns)
Peter van der Linden, retired, Iowa Lakeside Laboratory (shrubs & trees)
Scott Zagar, Wildlife Ecological Services (sedges)
Lynn Clark, Iowa State University (grasses)
Gary Phillips, retired, Iowa Lakes Community College (aquatic plants)
Darcy Cashatt, Iowa DNR Fisheries Technician (aquatic plants)

The Committee met every month or every other month between March 2020 and December 2024. The primary purpose was to revise the State Threatened and Endangered Species list. They evaluated 519 species, representing approximately 33% of the native flora of Iowa. Those species considered included the ones that were on the Endangered, Threatened, and Special Concern list since 1994, species that have been reclassified by science (splitting and lumping of various species), new state records, and species nominated from the state experts.

Work included examining data from the Natural Areas Inventory database which is inclusive of records from comprehensive herbarium inventories, extensive field work, and literature review. In-depth discussions included species where new information suggested they were more common than previously documented or new populations had been documented, as well as the opposite, where species were more common historically but have been documented less frequently in recent years.

Decisions were based upon:

- Endangered = 5 or fewer records since 1980
- Threatened = 6-20 records since 1980
- Special Concern included three groupings:
 - Species of uncertain status (similar to data deficient)
 - 21-40 records since 1980
 - Presumed extirpated (all pre-1980 records)

References Cited:

- Flora of North America Editorial Committee, eds. 1993+, Flora of North America North of Mexico [On-line]. 25+vols, New York and Oxford. Vol. 1, 1993; vol. 2, 1993; vol. 3, 1997; vol. 4, 2003; vol. 5, 2005; vol. 6, 2015; vol. 7, 2010; vol. 8, 2009; vol. 9, 2014; vol. 10, 2021; vol. 11, 2023, vol. 12, 2016; vol. 13, 2024; vol. 14, 2023; vol. 17, 2019; vol. 19, 2006; vol. 20, 2006; vol. 21, 2006; vol. 22, 2000; vol. 23, 2002; vol. 24, 2007; vol. 25, 2003; vol. 26, 2002; vol. 27, 2007; vol. 28, 2014. <http://beta.floranorthamerica.org>. Accessed [Aug. 1, 2025].
- U.S. Federal Register. Final Determination that Eleven Plant Taxa are Endangered and Two Plant Taxa are Threatened. 43 FR 17910 (April 26, 1978). Accessed at: <https://www.federalregister.gov/citation/43-FR-17910>
- U.S. Fish and Wildlife Service. 2020. Species Status Assessment for Hall's Bulrush (*Schoenoplectiella hallii*). March 2020 (Version 1.0). U.S. Fish and Wildlife Service Great Lakes Region. Bloomington, Minnesota. Accessed at: https://www.fws.gov/sites/default/files/documents/SSA_Hall%27sBulrush_202007.pdf
- Widrlechner, MP. 1998. The genus *Rubus* in Iowa. *Castanea* 63(4):415-465.

Appendix 18. Habitat Preferences for SGCN

Appendix Table 18-1. Habitat Preferences of SGCN Amphibians

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Great Plains Toad	<i>Anaxyrus cognatus</i>	Grasslands & Savanna	Western border Loess Hills
2	Crawfish Frog	<i>Lithobates areolatus</i>	Prairies, pastures, occasionally floodplains	Five southeastern counties
3	Plains Spadefoot	<i>Spea bombifrons</i>	Grassland	Western border
4	Blue-spotted Salamander	<i>Ambystoma laterale</i>	Forested - wooded wetlands	Cedar River Basin - Linn & Blackhawk Counties
5	Smallmouth Salamander	<i>Ambystoma texanum</i>	Woodlands, wetlands	Southern 1/3
6	Tiger Salamander	<i>Ambystoma tigrinum</i>	All aquatic habitat types, esp. lentic wetlands	Statewide
7	Mudpuppy	<i>Necturus maculosus</i>	Rivers, streams	Mississippi, Cedar, Wapsipinicon, Des Moines, Skunk, Raccoon, Boone, Shell Rock, Upper Iowa Rivers
8	Eastern Newt	<i>Notophthalmus viridescens</i>	Woodland wetlands	Cedar and Wapsipinicon Basins

Appendix Table 18-2. Habitat Preferences of SGCN Reptiles

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Slender Glass Lizard	<i>Ophisaurus attenuatus</i>	Prairie, pastures, woodland edge, savanna	South
2	Common Five-lined Skink	<i>Plestiodon fasciatus</i>	Deciduous forests along bluffs of Mississippi & large eastern Iowa rivers	East
3	Great Plains Skink	<i>Plestiodon obsoletus</i>	Loess Hills/prairie	Three counties along southwest border
4	Prairie Skink	<i>Plestiodon septentrionalis</i>	Grasslands with loose soil and rocky areas adjacent to marshes or lakes	West and Central
5	Six-Lined Racerunner	<i>Aspidocelis sexlineatus</i>	Sand/loess prairie, savanna	East and Southwest
6	Western Worm Snake	<i>Carphophis vermis</i>	Savanna & woodlands near rivers, creeks, or streams	Southern 1/3 (Records from 13 counties)
7	North American Racer	<i>Coluber constrictor</i>	Grasslands, wetlands, wooded edges	Southern ¾ and Northeast
8	Ring-necked Snake	<i>Diadophis punctatus</i>	Woodlands, savanna, and adjacent grasslands	Scattered throughout state except in north-central
9	Western Hog-nosed Snake	<i>Heterodon nasicus</i>	Shortgrass prairie with sandy/gravelly soils	Clinton, Muscatine, and Louisa Counties
10	Eastern Hog-nosed Snake	<i>Heterodon platirhinos</i>	Woodland, savanna, grassland	Eastern and western borders, and south
11	Prairie Kingsnake	<i>Lampropeltis calligaster</i>	Sand prairie, grasslands, savanna & woodland edge	Southern 1/3
12	Speckled Kingsnake	<i>Lampropeltis holbrooki</i>	Grasslands near lakes or large ponds, savanna	South-eastern 1/3 (Records from 15 counties)
13	Plain-bellied Watersnake	<i>Nerodia erythrogaster</i>	Mississippi River and associated backwaters and wet woodland	South-east near Mississippi River (Scott, Muscatine, Louisa counties)
14	Diamond-backed Watersnake	<i>Nerodia rhombifer</i>	Rivers, ponds, backwaters, oxbows	Southeast (records from 6 counties)

	Common Name	Scientific Name	Habitat Preference	Distribution
15	Smooth Greensnake	<i>Opheodrys vernalis</i>	Wet prairie and grasslands adjacent to lakes and impoundments, savanna	Scattered throughout the state
16	Gophersnake (Bullsnake)	<i>Pituophus catenifer</i>	Sand and bluff prairie, savanna, pasture	Statewide
17	Western Ratsnake	<i>Pantherophus obsoletus</i>	Heavily wooded bluffslands along rivers	Mississippi River and south
18	Graham's Crayfish Snake	<i>Regina grahamii</i>	Ponds, sloughs, marshes, floodplains, creeks	South and central
19	Western Ribbonsnake	<i>Thamnophis proximus</i>	Herbaceous wetland, ponds, streams, rivers	Southern half
20	Lined snake	<i>Tropidoclonion lineatum</i>	Grassland, pasture, woodland edge	Northwest and south
21	Smooth Earthsnake	<i>Virginia valeriae</i>	Wet woodland in river valleys	Along Des Moines and Chariton Rivers in southeast and central
22	Eastern Copperhead	<i>Agkistrodon contortrix</i>	Forested, rocky hillsides	Des Moines, Lee, Van Buren and Davis counties
23	Timber Rattlesnake	<i>Crotalus horridus</i>	Forested areas with rock outcrops, esp. woodland, bluff prairie	Northeast, southeast, and Madison County
24	Prairie Rattlesnake	<i>Crotalus viridis</i>	Prairie	Plymouth County
25	Eastern Massasauga	<i>Sistrurus catenatus</i>	Prairie wetland close to rivers and adjacent upland prairie	Wapsipinicon and Iowa Rivers in east
26	Prairie (Western) Massasauga	<i>Sistrurus turgeminus</i>	Prairie wetland close to rivers and adjacent upland prairie	Mills County
27	North American Snapping Turtle	<i>Chelydra serpentina</i>	All aquatic habitat types, wetlands	Statewide
28	Blanding's Turtle	<i>Emydoidea blandingii</i>	Shallow, well-vegetated permanent wetlands & marshes	Statewide
29	Wood Turtle	<i>Glyptemys insculpta</i>	Floodplain forest, rivers, riparian savanna	North-central (only found in Eastern IA Drift Plains ecoregion)
30	Northern Map Turtle	<i>Graptemys geographica</i>	Rivers and streams	Eastern border
31	Ouachita Map Turtle	<i>Graptemys ouachitensis</i>	Mississippi River and associated oxbows	Mississippi River
32	False Map Turtle	<i>Graptemys pseudogeographica</i>	Slow portions of large rivers	Mississippi and Missouri Rivers (occasionally move west from Mississippi)
33	Ornate Box Turtle	<i>Terrapene ornata</i>	Sand/loess prairie, savanna	Records from 36 counties in East and southwest
34	Yellow Mud Turtle	<i>Kinosternon flavescens</i>	Shallow, ephemeral pools/herbaceous wetlands near sand soils	Southeast
35	Eastern Musk Turtle	<i>Sternotherus odoratus</i>	Herbaceous wetlands, backwaters, and spring fed ponds adjacent to sandy uplands	East
36	Smooth Softshell	<i>Apalone mutica</i>	Boundary rivers, large rivers in south	South

Appendix Table 18-3. Habitat Preferences of SGCN Breeding Birds

	Common Name	Scientific Name	Habitat Preference	Distribution
1	American Wigeon	<i>Mareca americana</i>	Wetland	Statewide
2	American Black Duck	<i>Anas rubripes</i>	Wetlands, shallow lakes	
3	Northern Pintail	<i>Anas acuta</i>	Wetland, grassland	Northern half
4	Canvasback	<i>Aythya valisineria</i>	Wetland	Northwest and north-central
5	Lesser Scaup	<i>Aythya affinis</i>	Wetland, grassland	Statewide
6	Northern Bobwhite	<i>Colinus virginianus</i>	Grassland, shrubland	Southern 3/4
7	Ruffed Grouse	<i>Bonasa umbellus</i>	Open woodland, dense forest	Northeast, southeast, and south-central
8	Greater Prairie-Chicken	<i>Tympanuchus cupido</i>	Large, landscape-scale grassland	Southwest, south-central
9	Red-necked Grebe	<i>Podiceps grisegena</i>	Wetland, hemi-marsh	Scattered statewide except southwest
10	Western Grebe	<i>Aechmophorus occidentalis</i>	Large lakes & wetlands	
11	Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Forest, shrubland, open riparian woodland	Statewide
12	Common Nighthawk	<i>Chordeiles minor</i>	Grassland, savanna, bluffland with flat rock outcrops, nests primarily on flat pea-gravel roof-tops in larger towns and cities with rivers	Statewide
13	Chuck-will's-widow	<i>Antrostomus carolinensis</i>	Open woodland, savanna	Southern Iowa
14	Eastern Whip-poor-will	<i>Antrostomus vociferus</i>	Deciduous forest, open woodland with grass component	Statewide
15	Chimney Swift	<i>Chaetura pelagica</i>	Older growth forests, woodlands, savanna, towns	Statewide
16	King Rail	<i>Rallus elegans</i>	Sedge meadow, wetland	East and Prairie Pothole Region
17	Black-necked Stilt	<i>Himantopus mexicanus</i>	Shallow wetlands, mudflats	
18	Piping Plover	<i>Charadrius melodus</i>	Rivers, sandbars	Missouri River
19	Wilson's Snipe	<i>Gallinago delicata</i>	Hemi-marsh, rivers	Statewide
20	Wilson's Phalarope	<i>Phalaropus tricolor</i>	Wetland, grassland	Northern half
21	Franklin's Gull	<i>Leucophaeus pipixcan</i>	Wetland	Prairie Pothole Region
22	Least Tern	<i>Sterna antillarum</i>	Wetland, rivers with sandbars	Missouri River
23	Black Tern	<i>Chlidonias niger</i>	Wetland	Statewide
24	Forster's Tern	<i>Sterna forsteri</i>	Permanent wetland, hemi-marsh	Prairie Pothole Region & Missouri River floodplain
25	American White Pelican	<i>Pelecanus erythrorhynchos</i>	Wetlands and lakes, riparian areas	Statewide
26	American Bittern	<i>Botaurus lentiginosus</i>	Wetland, grassland	Northern 2/3
27	Yellow-crowned Night Heron	<i>Nyctanassa violacea</i>	Wooded riparian wetlands	Scattered, along major rivers
28	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	Wetland, wet shrubland	Statewide, esp. in Prairie Pothole Region
29	White-faced Ibis	<i>Plegadis chihi</i>	Marsh	Prairie Pothole Region and Fremont County
30	Swainson's Hawk	<i>Buteo swainsoni</i>	Grassland, savannah, ag	Statewide except SE

	Common Name	Scientific Name	Habitat Preference	Distribution
31	American Barn Owl	<i>Tyto furcata</i>	Savanna, prairie-grassland with trees	Statewide, primarily southern Iowa
32	Eastern Screech-owl	<i>Megascops asio</i>	Riparian forest/ woodland, savanna, suburban areas	Statewide
33	Burrowing Owl	<i>Athene cunicularia</i>	Grassland	Statewide
34	Long-eared Owl	<i>Asio otus</i>	Open woodland, savanna, coniferous & deciduous forest	Statewide
35	Short-eared Owl	<i>Asio flammeus</i>	Very large grassland	Scattered statewide
36	American Kestrel	<i>Falco calumbarius</i>	Savanna, open woodland	Statewide
37	Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	Savanna, open areas with patchy trees/shrubs	Scattered statewide
38	Say's Phoebe	<i>Sayornis saya</i>	Grassland	Nested in Sioux and Plymouth counties
39	Loggerhead Shrike	<i>Lanius ludovicianus</i>	Grassland-shrub, savannas	Scattered statewide
40	Bank Swallow	<i>Riparia riparia</i>	Rivers and streams with cutbanks	Statewide
41	Purple Martin	<i>Progne subis</i>	Towns, parks, ponds	Statewide
42	Bewick's Wren	<i>Thryomanes bewickii</i>	Savanna, open woodland, shrubland	Southern Iowa, esp. Southeast
43	Veery	<i>Catharus fuscescens</i>	Shrubby riparian forest	Scattered statewide (less common in southwest)
44	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Short grassland	Statewide
45	Bobolink	<i>Dolichonyx oryzivorus</i>	Medium height grassland	Statewide
46	Western Meadowlark	<i>Sturnella neglecta</i>	Grassland	Statewide (most abundant in west)
47	Blue-winged Warbler	<i>Vermivora cyanoptera</i>	Open woodland, shrubland, thicket	
48	Cerulean Warbler	<i>Setophaga cerulea</i>	Large older-growth deciduous forest	Primarily in eastern IA and along Des Moines River in central IA

Appendix Table 18-4. Habitat Preferences of SGCN Non-Breeding Birds (habitat preferences listed are for migratory or wintering periods in Iowa rather than breeding ground habitat associations)

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Greater scaup	<i>Aythya marila</i>	Lakes, rivers, wetlands	Scattered statewide
2	Horned Grebe	<i>Podiceps auritus</i>	Lakes, ponds, rivers	
3	Yellow Rail	<i>Coturnicops noveboracensis</i>	Wetland, grassland	Scattered statewide
4	Black Rail	<i>Laterallus jamaicensis</i>	Marsh	East central, central, and northwest
5	Whooping Crane	<i>Grus americana</i>	Wetland, grassland	Northeast/north-central, southwest, and Polk County
6	Black-bellied Plover	<i>Pluvialis squatarola</i>	Wet prairie, shorelines, flooded fields	Scattered statewide
7	American Golden-Plover	<i>Pluvialis dominica</i>	Grasslands, mudflats, shorelines	Scattered statewide
8	Semipalmated Plover	<i>Charadrius semipalmatus</i>	Wetland	Statewide
9	Whimbrel	<i>Numenius phaeopus</i>	Wetland, shorelines, beaches	West, central, and three counties in east
10	Long-billed Curlew	<i>Numenius americanus</i>	Grassland-wetland	Western half and Jefferson County

	Common Name	Scientific Name	Habitat Preference	Distribution
11	Hudsonian Godwit	<i>Limosa haemastica</i>	Wetland, moderately vegetated marsh shorelines	Scattered statewide (less common in eastern ¼)
12	Marbled Godwit	<i>Limosa fedoa</i>	Wetland, mudflats, beaches	Scattered statewide
13	Ruddy Turnstone	<i>Arenaria interpres</i>	Grassland - wetland, shorelines	Scattered statewide (more common in north-central)
14	Red Knot	<i>Calidris canutus</i>	Wetland, shorelines	Southern half and Kossuth and Dickinson Counties
15	Stilt Sandpiper	<i>Caladris himantopus</i>	Wetland, shorelines	Scattered statewide
16	Sanderling	<i>Calidris alba</i>	Wetland, shorelines	Scattered statewide
17	Dunlin	<i>Calidris alpina</i>	Shallow edges of lakes, rivers and in wet, harvested fields	Scattered statewide
18	White-rumped Sandpiper	<i>Calidris fuscicollis</i>	Wetland, shorelines	Scattered statewide
19	Buff-breasted Sandpiper	<i>Calidris subruficollis</i>	Wetland and short grassland, shorelines	Scattered statewide
20	Pectoral Sandpiper	<i>Calidris melanotos</i>	Wetland, grassland, shorelines	Statewide
21	Short-billed Dowitcher	<i>Limnodromus griseus</i>	Marsh, shorelines	Scattered statewide
22	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	Marsh, shorelines	Scattered statewide
23	Bonaparte's Gull	<i>Chroicocephalus philadelphia</i>	Variety of aquatic areas	
24	Herring Gull	<i>Larus argentatus</i>	Variety of aquatic areas	
25	Common Tern	<i>Sterna hirundo</i>	Shorelines	
26	Common Loon	<i>Gavia immer</i>	Clear, large, open water, lakes	Scattered statewide
27	Olive-sided Flycatcher	<i>Contopus cooperi</i>	Coniferous forests, openings and edges	Statewide
28	Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	Deciduous forests, thickets	
29	Philadelphia Vireo	<i>Vireo philadelphicus</i>	Early successional, thickets, riparian areas	
30	Northern Shrike	<i>Lanius borealis</i>	Patchy open areas with thickets, edges	
31	Bohemian Waxwing	<i>Bombycilla garrulus</i>	Coniferous or mixed forest	Scattered statewide
32	Sprague's Pipit	<i>Anthus spragueii</i>	Grassland	Northwest, southwest, central
33	Redpoll	<i>Acanthis flammea</i>		
34	White-winged Crossbill	<i>Loxia leucoptera</i>	Coniferous forest	Scattered statewide (less common in southwest corner)
35	Lapland Longspur	<i>Calcarius lapponicus</i>	Open areas, short grass	
36	Golden-winged Warbler	<i>Vermivora chrysoptera</i>		
37	Connecticut Warbler	<i>Oporornis agilis</i>		
38	Bay-breasted Warbler	<i>Setophaga castanea</i>	Forest/woodland	Scattered statewide
39	Black-throated Blue Warbler	<i>Setophaga caerulescens</i>		

Appendix Table 18-5. Habitat Preferences of SGCN Mammals

	Common Name	Scientific Name	Habitat Preference	Distribution
1	White-tailed Jackrabbit	<i>Lepus townsendii</i>	Short grasslands, hayfields, esp. cultivated areas	Historically nearly statewide, now in Central/north-central
2	Franklin's Ground Squirrel	<i>Spermophilus franklinii</i>	Tallgrass prairie, savanna and roadsides	Statewide (all recent documentation in southern IA)
3	Plains Pocket Gopher	<i>Geomys bursarius</i>	Open grassy areas with well-drained soil	Statewide
4	Plains Pocket Mouse	<i>Perognathus flavescens</i>	Prairie, sand and loess	West (Loess Hills), disjunct in east
5	Woodland Vole	<i>Microtus pinetorum</i>	Deciduous riparian forests with ground layer of leaf litter	Southern and eastern
6	Southern Bog Lemming	<i>Synaptomys cooperi</i>	Moist grassland, sedge meadow, bog, woodland, shrubland	Probably statewide, primarily southern Iowa
7	Common Muskrat	<i>Ondrata zibethicus</i>	Wetland	
8	North American Least Shrew	<i>Cryptotis parva</i>	Woodland, savanna, grassland, riparian	Southern and eastern
9	Prairie Shrew	<i>Sorex haydeni</i>	Grasslands, wetlands, riparian	West
10	Little Brown Myotis	<i>Myotis lucifigus</i>	Woodland near waterways; readily rears young in buildings & bat houses	Statewide
11	Northern Myotis (Northern Long-eared Bat)	<i>Myotis septentrionalis</i>	Forest, woodlands	Statewide
12	Indiana myotis (Indiana Bat)	<i>Myotis sodalis</i>	Forest, upland and riparian	Southeast two-thirds
13	Tricolored bat	<i>Perimyotis subflavus</i>	Woodland edge, riparian	East
14	Plains spotted skunk	<i>Spilogale interrupta</i>	Oak savanna, grassland, open woodland, and farmsteads	Statewide historically (most recent documentation in Webster, Ringgold, Pole and Marion counties)
15	Long-tailed Weasel	<i>Mustela frenata</i>	Generalist; found in all habitats near water	Statewide – sparse distribution
16	Least Weasel	<i>Mustela nivalis</i>	Meadows, fields, shrubby areas, and open woodlands	Statewide – most common in northeast
17	American ermine	<i>Mustela ermine</i>	Shrubby or woodland areas, usually near water	Northern half of state
18	Northern gray fox	<i>Urocyon cinereoargenteus</i>	Mixed forests and open woodlands/savanna	Statewide, primarily in southern 1/3

Appendix Table 18-6. Habitat Preferences of SGCN Fishes

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
1	Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>	Rivers	Sand, silt		Miss., Chariton
2	Lake Sturgeon	<i>Acipenser fulvescens</i>	Large rivers and lakes	Sand, gravel, rock		Miss.
3	Pallid Sturgeon	<i>Scaphirhynchus albus</i>	Large, turbid rivers	Gravel, sand	Fast	Mo.
4	Paddlefish	<i>Polyodon spathula</i>	Medium to large rivers, backwater, and impoundments		Slow	Miss., Mo., DM, Cedar, Iowa, Skunk

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
5	Emerald Bowfin	<i>Amia ocellicauda</i>				Miss and some interior
6	American Eel	<i>Anguilla rostrata</i>	Rivers, large streams and lakes	Mud		Miss., Mo., and larger tributaries
7	Skipjack Herring	<i>Alosa chrysochloris</i>	Medium to large rivers and large impoundments	Sand and gravel		Miss., Mo.
8	Blue Sucker	<i>Cycleptus elongatus</i>	Large rivers	Sand, gravel, rock	Mod to fast	Miss., Mo., and large tributaries
9	Lake Chubsucker	<i>Erimyzon sucetta</i>	Heavily vegetated oxbows & sloughs of large rivers, backwaters	Sand, fine gravel	Slow	
10	Black Buffalo	<i>Ictiobus niger</i>	Backwaters, rivers, and impoundments	Gravel	Fast	Miss. and large tributaries
11	Spotted Sucker	<i>Minytrema melanops</i>	Small to medium rivers	Firm	Slow	Miss.
12	Silver Redhorse	<i>Moxostoma anisurum</i>	Lakes & rivers	Gravel, rock, sand	Mod to fast	Miss. and some interior streams
13	River Redhorse	<i>Moxostoma carinatum</i>	Large creeks and river with clear water	Gravel, rock		Upper pools of Miss.
14	Black Redhorse	<i>Moxostoma duquesnei</i>	Creeks and small to medium rivers	Gravel, Rock	Fast	Turkey, Upper Iowa, Cedar, Wapsi, drainages
15	Golden Redhorse	<i>Moxostoma erythrurum</i>	Small rivers, streams	Gravel, rock	Mod	Miss.
16	Pealip Redhorse	<i>Moxostoma pisolabrum</i>	Rivers			One record in Southern IA
17	Greater Redhorse	<i>Moxostoma valenciennesi</i>	Large rivers and lakes	Sand, gravel, rubble		Cedar, Shell Rock
18	River Shiner	<i>Alburnops blennius</i>				
19	Weed Shiner	<i>Alburnops texanus</i>	Vegetated rivers	Sand	Slow	Miss, eastern
20	Laregescale Stoneroller	<i>Camptostoma oligolepis</i>	Medium to large clear streams	Gravel		Northeast 1/3
21	Southern Redbelly Dace	<i>Chrosomus erythrogaster</i>	Headwaters of small streams, cool water	Gravel		Northeast & Little Sioux
22	Gravel Chub	<i>Erimystax x-punctatus</i>	Large streams and rivers	Gravel		Northern ½
23	Western Silvery Minnow	<i>Hybognathus argyritis</i>	Backwater	Sand, muck		Mo. Drainage
24	Mississippi Silvery Minnow	<i>Hybognathus nuchalis</i>	Large, deep rivers		Mod	Eastern Miss. drainage
25	Plains Minnow	<i>Hybognathus placitus</i>	Streams, rivers	Silt	Slow	Mo. drainage
26	Pallid Shiner	<i>Hybopsis amnis</i>	Medium to large rivers	Sand, muck		Upper. Miss.
27	Redfin Shiner	<i>Lythrurus umbratilis</i>	Rivers, streams, and creeks w/ veg			Northeast ⅓
28	Sturgeon Chub	<i>Macrhybopsis gelida</i>	Warm, turbid rivers			Eastern half and Mo.
29	Shoal Chub	<i>Macrhybopsis hyostoma</i>	Rivers	Sand, cobble	Mod to fast	Large interior rivers statewide

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
30	Sicklefin Chub	<i>Macrhybopsis meeki</i>	Large, turbid rivers	Gravel, sand		Mo.
31	Northern Pearl Dace	<i>Margariscus nachtriebi</i>	Ponds and small lakes	Sand, gravel		Worth County
32	Pugnose Shiner	<i>Miniellus anogenus</i>	Clear, vegetated lakes	Silt, sand, gravel		West Okoboji Lake
33	Ozark Minnow	<i>Miniellus nubilus</i>	Creeks and small to medium rivers	Gravel, rock	Fast	Northeast ¼
34	Topeka Shiner	<i>Miniellus topeka</i>	Oxbows, creeks, streams, and rivers with clear water	Sand	Slow	DM, Boone, Raccoon, Rock drainages
35	Blacknose Shiner	<i>Notropis heterolepis</i>	Creeks, small rivers and lakes with clear water	Sand		Northwest
36	Pugnose Minnow	<i>Opsopoeodus emiliae</i>	Vegetated lakes, impoundments and streams		Slow	Miss.
37	Ghost Shiner	<i>Paranotropis buchanani</i>	Large creeks and small to medium rivers		Slow	Miss.
38	Mimic Shiner	<i>Paranotropis volucellus</i>	Clear rivers & streams	Firm, sand	Slow to Mod	Scattered
39	Suckermouth Minnow	<i>Phenacobius mirabilis</i>	Large creeks to small rivers	Gravel, sand, bedrock		Scattered
40	Flathead Chub	<i>Platygobio gracilis</i>	Turbid rivers & streams	Sand	Mod to fast	Mo. drainage
41	Longnose Dace	<i>Rhinichthys cataractae</i>	Clear, small to medium rivers	Gravel, rock	Fast	Northeast corner
42	Brown Bullhead	<i>Ameiurus nebulosus</i>	Ponds, lakes, backwaters, impoundments, and streams		Slow	Northern 1/3
43	Tadpole Madtom	<i>Noturus gyrinus</i>	Vegetated lakes, impoundments, backwaters, creeks, and rivers	Muck	Slow	Statewide
44	Redfin Pickerel	<i>Esox americanus</i>	Vegetated backwaters, ponds, and small lakes		Slow	Miss. and tributaries
45	Northern Pike	<i>Esox lucius</i>	Natural lakes, large rivers		Slow	Northern ½, Miss.
46	Central Mudminnow	<i>Umbra limi</i>	Vegetated streams and backwaters		Slow	Northern 1/3
47	Trout-perch	<i>Percopsis omiscomaycus</i>	Streams and rivers	Sand		Northwest ¼, Miss., Grand, Chariton
48	Brook Silverside	<i>Labidesthes sicculus</i>	Clear, warm backwaters and oxbows, sparsely vegetated	Sand, gravel, muck	Slow to mod	East
49	Banded Killifish	<i>Fundulus diaphanus</i>	Lakes, ponds, streams		Slow	Natural lakes in northwest Mo.
50	Starhead Topminnow	<i>Fundulus dispar</i>	Creeks and backwaters	Muck	None	Little Sioux and Iowa
51	Plains Topminnow	<i>Fundulus sciadicus</i>	Creeks, streams, and backwaters		Mod	Rock River basin
52	Warmouth	<i>Lepomis gulosus</i>	Lakes & ponds, with dense aquatic veg	Silt-free	Slow to none	Eastern Iowa

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
53	Northern Sunfish	<i>Lepomis peltastes</i>				
54	Mottled Sculpin	<i>Cottus bairdii</i>	Clear, cool, creeks and small rivers	Sand, gravel, rock		Lower Bear Creek
55	Slimy Sculpin	<i>Cottus cognatus</i>	Cold streams	Rock	Fast	Northeast corner
56	Western Sand Darter	<i>Ammocrypta clara</i>	Medium to large rivers	Sand	Slow to mod	Miss.
57	Crystal Darter	<i>Crystallaria asprella</i>	Small to medium rivers	Sand, gravel		Miss., Turkey
58	Mud Darter	<i>Etheostoma asprigene</i>	Backwaters and rivers	Sand, muck	Slow	Miss. and tributaries
59	Rainbow Darter	<i>Etheostoma caeruleum</i>	Streams & small rivers	Coarse gravel	Mod	Cedar River basin
60	Bluntnose Darter	<i>Etheostoma chlorosoma</i>	Small to medium rivers, creeks, and backwaters	Sand, muck	Slow	Miss.
61	Iowa Darter	<i>Etheostoma exile</i>	Cool creeks, ponds, and lakes	Muck, sand	None or slow	Northern ½
62	Least Darter	<i>Etheostoma microperca</i>	Vegetated creeks		Slow	Maquoketa, tributaries to Otter Creek
63	Orangethroat Darter	<i>Etheostoma spectabile</i>	Creeks and small rivers	Sand, cobble, gravel, bedrock	Moderate to fast	Southeast ¼
64	Blackside Darter	<i>Percina maculata</i>	Creeks, and small to medium rivers	Sand, gravel	Slow	Northern 2/3
65	River Darter	<i>Percina shumardi</i>	Large rivers	Gravel, rock	Fast	Miss.

Appendix Table 18-7. Habitat Preferences of SGCN Mussels

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
1	Mucket	<i>Actinonaias ligamentina</i>	Medium to large rivers	Firm gravel		Cedar River
2	Elktoe	<i>Alasmodonta marginata</i>	Medium streams	Sand, gravel	Mod	Northeast ¾
3	Slippershell	<i>Alasmodonta viridis</i>	Creeks, streams	Sand, muck		East
4	Three ridge	<i>Amblema plicata</i>	Small to large rivers and lakes	Gravel, sand, mud		Miss. and Iowa Rivers
5	Cylinder (Cylindrical papershell)	<i>Anodontoides ferussacianus</i>	Small creeks	Sand, muck		North-central
6	Rock pocketbook	<i>Arcidens confragosus</i>	Medium to large rivers	Sand, muck		Miss. River
7	Spectaclecase	<i>Cumberlandia monodonta</i>	Large rivers	Sand, muck	Fast	Miss. River
8	Wartyback	<i>Cyclonaias nodulata</i>	Large rivers	Sand, gravel		Miss. & Skunk River
9	Pimpleback	<i>Cyclonaias pustulosa</i>	Small streams to large rivers			Scattered
10	Purple wartyback	<i>Cyclonaias tuberculata</i>	Medium to large rivers	Gravel		Southeast
11	Butterfly	<i>Ellipsaria lineolata</i>	Large rivers	Sand, gravel		Miss. and Cedar Rivers

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
12	Elephant ear	<i>Elliptio crassidens</i>	Large rivers	Mud, sand, gravel		Upper Cedar and Miss. Rivers
13	Snuffbox	<i>Epioblasma triquetra</i>	Medium to large rivers	Gravel		
14	Spike	<i>Eurynia dilatata</i>	Streams and lakes	Firm, sand, gravel		Northeast ¾
15	Wabash pigtoe	<i>Fusconaia flava</i>	Creeks to large rivers	Gravel, sand		Scattered statewide
16	Higgins' eye pearlymussel	<i>Lampsilis higginsii</i>	Large rivers	Gravel, sand		Miss. River
17	Canary kingshell	<i>Lampsilis sietmani</i>				
18	Fatmucket	<i>Lampsilis siliquioidea</i>	Small streams to large rivers, lakes, reservoirs			Miss., Cedar, Shell Rock, & D.M. Rivers
19	Yellow sandshell	<i>Lampsilis teres anodontoides</i>	Medium to large rivers	Sand, gravel		Northeast 2/3
20	White heelsplitter	<i>Lasmigona camplanata</i>	Medium to large rivers	Mud, mud-gravel		
21	Creek heelsplitter	<i>Lasmigona compressa</i>	Creeks, streams	Sand, gravel		Northeast 2/3
22	Flutedshell	<i>Lasmigona costata</i>	Medium to large rivers	Sand, gravel, muck		Northeast ¾
23	Black sandshell	<i>Ligumia recta</i>	Medium to large rivers	Gravel, firm sand		
24	Washboard	<i>Megaloniais nervosa</i>	Large rivers	Gravel, gravel-mud	Fast	Miss. River
25	Threehorn wartyback	<i>Obliquaria reflexa</i>	Medium to large rivers	Gravel		Skunk, Iowa, DM River
26	Hickorynut	<i>Obovaria olivaria</i>	Large rivers	Sand, gravel		Miss. & Iowa Rivers
27	Sheepnose	<i>Plethobasus cyphus</i>	Medium to large rivers	Sand, gravel		Miss. and DM Rivers
28	Round pigtoe	<i>Pleurobema sintoxia</i>	Streams and rivers	Firm, sand, gravel		Northeast ¾
29	Pink heelsplitter	<i>Potamilus alatus</i>	Medium to large rivers			Cedar, Iowa Rivers
30	Fat pocketbook	<i>Potamilus capax</i>				
31	Scaleshell	<i>Potamilus leptodon</i>				
32	Lake floater	<i>Pyganodon lacustris</i>				
33	Winged mapleleaf	<i>Quadrula fragosa</i>				
34	Mapleleaf	<i>Quadrula quadrula</i>	Medium to large rivers	Gravel, sand		
35	Ebonyshell	<i>Reginaia ebena</i>				
36	Pondmussel	<i>Saggitunio subrostratus</i>				
37	Salamander mussel	<i>Simpsonia ambigua</i>				
38	Monkeyface	<i>Theliderma metanevra</i>	Medium to large rivers	Gravel		Eastern 2/3
39	Gulf mapleleaf	<i>Tritogonia nobilis</i>				

	Common Name	Scientific Name	Habitat Preference	Substrate	Flow	Distribution
40	Pistolgrip	<i>Tritogonia verrucosa</i>	Medium to large rivers	Sand, gravel, muck		Miss., Iowa, and DM Rivers
41	Fawnsfoot	<i>Truncilla donaciformis</i>	Medium to large rivers	Sand, gravel		East
42	Deertoe	<i>Truncilla truncata</i>	Medium streams to large rivers	Mud, gravel, sand		Skunk, Wapsi, Little Sioux
43	Pondhorn	<i>Unio merus tetralasmus</i>	Ponds, creeks, streams, rivers	Muck, sand		South-central
44	Flat floater	<i>Utterbackiana suborbiculata</i>				
45	Ellipse	<i>Venustaconcha ellipsiformis</i>	Small to medium streams	Sand, gravel		Eastern 2/3

Appendix Table 18-8. Habitat Preferences of SGCN Terrestrial Snails

	Common Name	Scientific Name	Habitat	Distribution
1	Midwest Pleistocene Vertigo	<i>Vertigo arthuri</i>	Forest, algific slopes	NE
2	Bluff Vertigo	<i>Vertigo meramecensis</i>	Mesic, shaded cliffs	NE & possibly other areas
3	Iowa Pleistocene Snail	<i>Discus macclintocki</i>	Forested algific slopes	NE

Appendix Table 18-9. Habitat Preferences of SGCN Bumble Bees

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Rusty Patched Bumble Bee	<i>Bombus affinis</i>	Close to or within woodland, urban parks and gardens	NE & Central Iowa
2	Black and Gold Bumble Bee	<i>Bombus auricomus</i>	Open farmlands and fields	WC and far NE, and scattered NE, EC, & SE
3	Ashton's Cuckoo Bumble Bee	<i>Bombus bohemicus</i>	Close to or within woodland, urban parks and gardens	Isolated C & NE
4	Northern Amber Bumble Bee	<i>Bombus borealis</i>	Close to or within wooded areas	Far NE Iowa
5	Lemon Cuckoo Bumble Bee	<i>Bombus citrinus</i>	Close to or within wooded areas	Far NE and Scattered C & NW
6	Yellow Bumble Bee	<i>Bombus fervidus</i>	Open grassland, farmland, urban parks and gardens	NE, scattered EC, and isolated C
7	Southern Plains Bumble Bee	<i>Bombus fraternus</i>	Grasslands, urban gardens	W and scattered SC & EC
8	American Bumble Bee	<i>Bombus pensylvanicus</i>	Open farmlands and fields	Statewide
9	Red-belted Bumble Bee	<i>Bombus rufocinctus</i>	Close to or within wooded areas, urban parks and gardens	Far NE and isolated EC
10	Tri-colored Bumble Bee	<i>Bombus ternarius</i>	Close to or within woodland, wetlands	Far NE
11	Half-black Bumble Bee	<i>Bombus vagans</i>	Wide variety, incl. forests, wetlands, urban parks and gardens	Far NE and scattered NE, NW, WC, C & SE
12	Variable Cuckoo Bumble Bee	<i>Bombus variabilis</i>	Relies on <i>B. pensylvanicus</i>	Scattered historic records

Appendix Table 18-10. Habitat Preferences of SGCN Butterflies

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Southern Cloudywing	<i>Cecropterus bathyllus</i>	Xeric prairie	Scattered statewide except far north and north-central
2	Hayhurst's Scallopwing	<i>Staphylus hayhurstii</i>	Floodplain and Loess Hills forests	Scattered within southern half
3	Dreamy Duskywing	<i>Erynnis icelus</i>	Woodland or edge	Allamakee County
4	Mottled Duskywing	<i>Gesta martialis</i>	Xeric prairie	Scattered (more common in west)
5	Columbine Duskywing	<i>Gesta lucilius</i>	Rocky, wooded ravines	Eastern ¼
6	Dion Skipper	<i>Euphyes dion</i>	Sedge wetlands	Statewide
7	Two-spotted Skipper	<i>Euphyes bimacula</i>	Sedge meadows and marshes	Scattered
8	Arogos Skipper	<i>Atrytone arogos</i>	Prairies and grasslands	Western half
9	Byssus Skipper	<i>Atrytone byssus</i>	Tallgrass prairie	Southern half
10	Crossline Skipper	<i>Limochares origenes</i>	Xeric prairie	Scattered
11a	Leonard's Skipper	<i>Hesperia leonardus leonardus</i>	Xeric prairie	Southern Loess Hills and Driftless Area
11b	Leonard's Pawnee Skipper	<i>Hesperia leonardus pawnee</i>	Xeric prairie	Loess Hills
12	Ottoe Skipper	<i>Hesperia ottoe</i>	Xeric prairie	Loess Hills and northeast
13	Dakota Skipper (extirpated)	<i>Hesperia dacotae</i>	Prairie	Historically in Dickinson County
14	Mulberry Wing	<i>Poanes massasoit</i>	Wetlands, fens	Northwest ¼
15	Broad-winged Skipper	<i>Poanes viator</i>	Wetlands, fens	North-central
16	Dusted Skipper	<i>Atrytonopsis hianna</i>	Bluestem grasslands and oldfields	Loess Hills, Dickinson, Palo Alto, Allamakee, and Jackson
17	Pepper and Salt Skipper	<i>Amblyscirtes hegon</i>	Woodland edge and grass waterways	Northeast and Southeast corners
18	Swarthy skipper	<i>Nastra lherminier</i>		Southern Iowa, Stray
19	Poweshiek Skipper (extirpated)	<i>Oarisma poweshiek</i>	High quality tallgrass prairie	Northern ¼
20	Olympia Marble	<i>Euchloe Olympia</i>	Open woodland, river bluffs, areas of poor soil, and grasslands	Western 1/3 and far eastern
21	Edward's Hairstreak	<i>Satyrium edwardsii</i>	Woodlands, clearings, and areas of poor soil	Scattered statewide except north-central
22	Acadian Hairstreak	<i>Satyrium acadica</i>	Riparian areas, woodlands, prairies	Scattered
23	Silvery Blue	<i>Glaucoopsyche lygdamus</i>	Prairie, open fields, and woodland openings	Northern half and Lee County
24	Monarch	<i>Danaus plexippus</i>	Open habitat and disturbed areas	Statewide
25	Silver-bordered Fritillary	<i>Boloria myrina</i>	Fens, wet prairie, and meadows	Northeast ¼ and northwest corner
26	Regal Fritillary	<i>Argynnis idalia</i>	Prairie and open grassland	Statewide
27	Aphrodite Fritillary	<i>Argynnis aphrodite</i>	High quality prairie, wetlands, and fens	Scattered (more common in northern half)
28	Milbert's Tortoiseshell	<i>Aglais milberti</i>	Wet areas, woodland edges	Northeast Iowa
29	Compton Tortoiseshell	<i>Nymphalis l-album</i>	Large tracts of forest	Eastern half and Pocahontas County
30a	Baltimore Checkerspot	<i>Euphydryas phaeton</i>	Wetlands, fens, and bogs	Eastern half

	Common Name	Scientific Name	Habitat Preference	Distribution
30b	Baltimore Checkerspot 'Ozark'	<i>Euphydryas phaeton ozarkae</i>	Dry woodlands	Lee and Henry Counties
31	Eyed Brown	<i>Lethe eurydice</i>	Fens, wet prairies, and marshes	Northern 2/3

Appendix Table 18-11. Habitat Preferences of SGCN Moths

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Eastern buckmoth	<i>Hemileuca maia</i>	Loess Hills Prairie	WC in Loess Hills, Monona Co
2	A grass miner moth	<i>Agonopterix lythrella</i>	Unknown, Hostplant St. John's Wort?	EC, Linn Co
3	Early leadplant leaf-twirler moth	<i>Anacamptis wikeri</i>	Prairie	Allamakee County
4	Marbleseed leafminer	<i>Acrocercops pnosmodiella</i>	Prairie	NE (Allamakee)
5	Abbreviated underwing	<i>Catocala abbreviatella</i>	Prairie	WC (Woodbury Co), NE (Allamakee)
6	Whitney's underwing	<i>Catocala whitneyi</i>	Prairie	WC (Woodbury & Pottawattamie Co), NC (Kossuth Co), NE (Howard Co)
7	A noctuid moth	<i>Bagisara gulfare</i>	Floodplain forest, native gardens	C (Story Co)
8	Grote's black-tipped quaker	<i>Dichagyris grotei</i>	Xeric/Sand Prairie	Statewide Scattered
9	Red sedge borer moth	<i>Globia laeta</i>	Wetland	NC (Kossuth Co)
10	The starry campion moth	<i>Hadena ectypa</i>	Where native or introduced Starry Campion found	Statewide Scattered
11	Fingered lemmeria moth	<i>Lemmeria digitalis</i>	Prairie; Where Sedges occur	Statewide Scattered
12	Franclemont's lithophane	<i>Lithophane franclemonti</i>	Driftless Area dry oak woodland and prairie	NE (Allamakee Co)
13	Newman's brocade	<i>Meropleon ambifusca</i>	Fens, Marshes, Prairie, Woodland Openings	Statewide Scattered
14	Blazing star stem borer	<i>Papaipema beeriana</i>	Prairie	NW
15	Golden borer moth	<i>Papaipema cerina</i>	Woodland	Eastern
16	Rattlesnake-master borer moth	<i>Papaipema eryngii</i>	Prairie	No listed records
17	Eupatorium borer moth	<i>Papaipema eupatorii</i>	Wet prairie or riparian areas	NW
18	Ash tip borer moth	<i>Papaipema furcata</i>	Associated with ash (host plant)	Statewide
19	Turtle head borer moth	<i>Papaipema nepheleptena</i>	Wetland/Fen (host turtle head)	Eastern Half Scattered
20	Culvers root borer moth	<i>Papaipema sciata</i>	Wet-mesic Prairie (host culver's root)	Eastern Half Scattered
21	Silphium borer moth	<i>Papaipema silphii</i>	Prairie	Eastern Half Scattered
22	None	<i>Plagiomimicus heitzmani</i>	Prairie	Eastern Half, Scattered
23	Bina flower moth	<i>Schinia bina</i>	Prairie	C (Polk & Jasper Co)
24	Leadplant flower moth	<i>Schinia lucens</i>	Prairie	Northern
25	Bleeding flower moth	<i>Schinia sanguinea</i>	Prairie (host <i>Liatris</i>)	Possibly Statewide Scattered
26	Northern flower moth	<i>Schinia septentrionalis</i>	Prairie (host Asters)	Statewide, Scattered
27	Marked noctuid	<i>Tricholita notata</i>	Prairie (host <i>Solidago</i>)	Statewide Scattered

	Common Name	Scientific Name	Habitat Preference	Distribution
28	A prairie sedge moth	<i>Neodactria murellus</i>	Unknown	C, EC
29	Sand dune panic grass moth	<i>Coenochroa bipunctella</i>	Sand Prairie	EC (Linn Co)
30	An aethes moth	<i>Aethes patricia</i>	Prairie	NE (Winneschik Co)
31	A tortricid moth	<i>Ancylis semiovana</i>	Prairie	Statewide Scattered
32	Two-lined eucosma	<i>Eucosma bilineana</i>	Prairie	Statewide Scattered

Appendix Table 18-12. Habitat Preferences of SGCN Dragonflies and Damselflies

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Sweetflag Spreadwing	<i>Lestes forcipatus</i>	Ponds and lakes with emergent vegetation	Scattered localities across northern, eastern, and southern, Iowa
2	Eastern Red Damsel	<i>Amphiagrion saucium</i>		
3	Paiute Dancer	<i>Argia alberta</i>	Small streams, marshy springs	Western 1/3 and Polk County
4	Prairie Bluet	<i>Coenagrion angulatum</i>	Prairie lakes, ponds, sloughs, and slow streams with much vegetation	Northwest 1/4 into central
5	Taiga Bluet	<i>Coenagrion resolutum</i>	Ponds and wetlands	Northern 2/3
6	Boreal Bluet	<i>Enallagma boreale</i>	Fishless ponds, lakes, and slow flow streams	Northeast of line from Dickinson to Muscatine Counties
7	Alkali Bluet	<i>Enallagma clausum</i>	Ponds and lakes	Western side of northern border and Dallas County
8	Western Forktail	<i>Ischnura perparva</i>	Heavily vegetated ponds, lakes, and slow flow streams with mud substrate	Sac County
9	Skillet Clubtail	<i>Gomphurus ventricosus</i>		
10	Sioux Snaketail	<i>Ophiogomphus smithi</i>	Sand bottomed streams with gravel beds	Northeast ¼
11	Westfall's Snaketail	<i>Ophiogomphus westfalli</i>	Clear forest streams with strong riffles and cobble substrate	Hamilton County
12	Rapids Clubtail	<i>Phanogomphus quadricolor</i>	Rocky creeks and rivers with mud for nymphs	Fayette and Winneshiek Counties
13	Brimstone Clubtail	<i>Stylurus intricatus</i>	Strong-flowing, open streams and rivers	Audubon, Page, and Woodbury County
14	Arrow Clubtail	<i>Stylurus spiniceps</i>	Rivers with sandy substrate	Bremer and Clayton Counties
15	Racket-tailed Emerald	<i>Dorocordulia libera</i>		
16	Stygian Shadowdragon	<i>Neurocordulia yamaskanensis</i>	Mississippi River	Allamakee and Clayton Counties
17	Plains Emerald	<i>Somatochlora ensigera</i>	Prairie Streams	Northwest ¼ and Winneshiek and Delaware Counties
18	Mocha Emerald	<i>Somatochlora linearis</i>		
19	Carolina Saddlebags	<i>Tramea carolina</i>	Marsh	Mahaska county

Appendix Table 18-13. Habitat Preferences of SGCN Crayfish

	Common Name	Scientific Name	Habitat Preference	Distribution
1	Golden Crayfish	<i>Faxonius luteus</i>	Rivers, streams, creeks	
2	Northern Clearwater Crayfish	<i>Faxonius propinquus</i>	Cool water streams	
3	Great Plains Mudbug	<i>Lacunicambarus nebrascensis</i>	Streams, creeks	
4	Prairie Crayfish	<i>Procambarus gracilis</i>	Grasslands	

Appendix 20. Additional Resources

Natural Resource Management & Scientific Agencies in Iowa

Agency Name	Website
US Army Corps of Engineers - Rock Island District	https://www.mvr.usace.army.mil/
Conservation Districts of Iowa	http://cdiowa.org/
Iowa's County Conservation System	https://www.mycountyparks.com/Home/Index
US Fish and Wildlife Service	http://www.fws.gov
US Forest Service	https://www.fs.usda.gov/
US Geological Survey	http://www.usgs.gov/
Iowa Fish and Wildlife Cooperative Research Unit	http://www.cfwru.iastate.edu/
Iowa Department of Natural Resources	http://www.iowadnr.gov
National Park Service	https://www.nps.gov/state/ia/index.htm
US Department of Agriculture - Natural Resources Conservation Service's Iowa homepage	http://www.nrcs.usda.gov/wps/portal/nrcs/site/ia/home/

Partnerships and Coalitions

Partnership Name	Website
Alliance for America's Fish & Wildlife	https://ournatureusa.com/
Association of Fish and Wildlife Agencies	http://www.fishwildlife.org/
Midwest Association of Fish and Wildlife Agencies	http://www.mafwa.org/
Iowa Conservation Alliance	https://www.iowaconservationalliance.org/
Iowa Monarch Conservation Coalition	http://monarch.ent.iastate.edu/
Monarch Joint Venture	http://www.monarchjointventure.org/
National Bobwhite Conservation Initiative	http://bringbackbobwhites.org/
Bird Friendly Iowa	https://birdcity.org/iowa
Climate Adaptation Science Centers	https://www.usgs.gov/programs/climate-adaptation-science-centers
Midwest Climate Adaptation Science Center	https://mwasc.umn.edu/
National Fish Habitat Partnership	http://www.fishhabitat.org/
Iowa is within the spatial scope of three fish habitat partnerships:	
Driftless Area Restoration Effort	https://fishhabitat.org/the-partnerships/driftless-area-restoration-effort
Midwest Glacial Lakes Partnership	http://midwestglaciallakes.org/
Fishers and Farmers Partnership for the Upper Mississippi River Basin	http://fishersandfarmers.org/
Midwest Landscape Initiative	www.mlimidwest.org
Migratory Bird Joint Ventures	https://mbjv.org/
Iowa is within the spatial scope of two Joint Ventures:	
Upper Mississippi River & Great Lakes Region Joint Venture	http://uppermissggreatlakesjv.org/
Prairie Pothole Joint Venture	http://ppjv.org/
NatureServe (network of state natural heritage programs and other independent organizations)	http://www.natureserve.org
North American Bird Conservation Initiative	http://www.nabci-us.org
Partners in Amphibian and Reptile Conservation	http://parcplace.org/

Partnership Name	Website
Midwest Partners in Amphibian and Reptile Conservation	http://mwparc.org/
Partners in Flight US	http://www.partnersinflight.org
Avian Knowledge Network	http://www.avianknowledge.net/
Iowa is within the spatial scope of the Midwest Node of the Avian Knowledge Network	
Plant.Grow.Fly	https://www.blankparkzoo.com/conservation/plantgrowfly
Wildlife Management Institute	http://wildlifemanagementinstitute.org/
Conservation Measures Partnership	http://www.conservationmeasures.org/

Non-governmental Fish and Wildlife Conservation and Scientific Organizations with a Presence in Iowa

Organization Name	Website
National Audubon Society Important Bird Areas	https://www.audubon.org/important-bird-areas
Iowa Audubon Society Important Bird Areas	https://iowaaudubon.org/Pages/IowaAudubon.aspx?pg=12
Iowa Audubon	https://iowaaudubon.org/
Iowa Academy of Science	https://iowaacademyofscience.wildapricot.org/
American Fisheries Society	https://fisheries.org/
Iowa Chapter of the American Fisheries Society	https://iowa.fisheries.org/
Iowa Association of Naturalists	http://www.iowanaturalists.org/
Blank Park Zoo	http://www.blankparkzoo.com/
Bur Oak Land Trust	https://buroaklandtrust.org/
Iowa Conservation Education Coalition	http://www.iowaee.org/
Ducks Unlimited	http://www.ducks.org/
Hawkeye Fly Fishing Association	http://www.hawkeyeflyfishing.com/
Iowa Division of the Izaak Walton League of America	https://iowaikes.com/
Iowa Native Plant Society	http://iowanativeplants.org/index.php
Iowa Natural Heritage Foundation	http://www.inhf.org/
Iowa Odonata Survey	www.iowaodes.org
Iowa Prairie Network	http://www.iowaprairienetwork.org/
Iowa Wildlife Center	http://www.iowawildlifecenter.org/
Iowa Young Birders	https://www.iowayoungbirders.org/
Loess Hills Alliance	http://loesshillsalliance.com/
Loess Hills Preservation Society	http://loesshps.org/
Macbride Raptor Project	http://recserv.uiowa.edu/mrp
National Mississippi River Museum & Aquarium	http://www.rivermuseum.com/
National Wildlife Federation	www.nwf.org
Iowa Wildlife Federation (Iowa Affiliate of the National Wildlife Federation)	http://iawildlife.org/
National Wild Turkey Federation - Iowa	https://www.ianwtf.org/
Odonata Central, also hosts Dragonfly Society of the America's webpage	http://www.odonatacentral.org
Pheasants Forever - Iowa	http://www.iowapf.net/
Practical Farmers of Iowa	https://practicalfarmers.org/
Quail Forever	http://quailforever.org/
Raptor Advocacy, Rehabilitation & Education (RARE)	http://theraregroup.org/

Organization Name	Website
Reiman Gardens at Iowa State University	http://www.reimangardens.com/
Iowa Butterfly Survey Network (hosted by Reiman Gardens)	https://thebutterflynetwork.org/program/iowa-butterfly-survey-network
Ruffed Grouse Society	http://www.ruffedgrousesociety.org/
Safari Club International - Iowa	http://iowasci.com/
Saving Our Avian Resources (SOAR)	http://www.soarraptors.org/
Sierra Club - Iowa	http://www.sierraclub.org/iowa
The Nature Conservancy - Iowa	http://www.nature.org/ourinitiatives/regions/northamerica/unitedstates/iowa/index.htm?intc=nature.tnav.where.list
Trout Unlimited - Iowa Chapter	http://www.iadriftless.org/
The Wildlife Society	http://wildlife.org/
Iowa Chapter of The Wildlife Society	https://iowatws.wildapricot.org/
Whiterock Conservancy	http://whiterockconservancy.org/

Websites

The following websites provide information about Iowa species (occurrence records, life history information, checklists, taxonomic order and nomenclature, etc.)

Organization Name	Website
General	
BugGuide	https://bugguide.net/node/view/15740
Cooperative Endangered Species Conservation Fund (CESCF)	https://www.fws.gov/program/endangered-species/what-we-do
Ecosystem Valuation Database	https://www.esvd.net/
iNaturalist	https://www.inaturalist.org/
Iowa Academy of Science	https://iowaacademyofscience.wildapricot.org/
Iowa DNR Birding	https://www.iowadnr.gov/things-do/bird-watching
Iowa DNR Fish & Wildlife Trust Fund	https://www.iowadnr.gov/places-go/wildlife-management-areas
Iowa DNR Private Landowner Assistance	https://www.iowadnr.gov/programs-services/wildlife-landowner-assistance
Iowa DNR Public Hunting Atlas	https://iowadnr.maps.arcgis.com/apps/webappviewer/index.html?id=f9161b90cddb4fcfb35a96901882a4b7
Iowa DNR Resource Enhancement and Protection (REAP) program	https://www.iowadnr.gov/programs-services/resource-enhancement-protection-reap
Iowa's Integrated Roadside Vegetation Management	https://tallgrassprairiecenter.org/iowa-roadside-management
NatureServe Explorer	http://explorer.natureserve.org/
Regional Species of Greatest Conservation Need	https://mcap-fws.hub.arcgis.com/pages/rsgcn
US Environmental Protection Agency (EPA)'s Descriptions of Level III Ecoregions	http://www.epa.gov/wed/pages/ecoregions/level_iii_iv.htm
US Geological Survey Hydrologic Unit Code Information	https://www.usgs.gov/national-hydrography/watershed-boundary-dataset
Amphibians and Reptiles	
Society for the Study of Amphibians and Reptiles	https://ssarherps.org/
HerpMapper	https://www.herpmapper.org/
Herpnet - Iowa	http://www.herpnet.net/Iowa-Herpetology/

Organization Name	Website
Birds	
American Ornithologists' Union Check-List of North American Birds (Breeding Bird Survey)	http://www.aou.org/checklist/north/
American Ornithological Society Checklist of North American Birds	https://americanornithology.org/publications/north-and-middle-american-checklist/
Iowa Breeding Bird Atlas II	https://iowabba2.org/
Iowa Ornithologists Union	https://iowabirds.org/
Iowa Young Birders	https://www.iowayoungbirders.org/
North American Waterfowl Conservation Act (NAWCA)	https://www.fws.gov/service/north-american-wetlands-conservation-act-nawca-us-standard-grants
Road to Recovery - Saving Our Shared Birds	https://r2rbirds.org/
Road to Recovery Tipping Point Species List	https://r2rbirds.org/tipping-point-species/
Butterflies & Moths	
A Catalogue of the Butterflies of the United States and Canada	https://butterfliesofamerica.com/US-Can-Cat.htm
North American Butterfly Association	https://naba.org/
Iowa Butterfly Survey Network (hosted by Reiman Gardens)	https://reimangardens.theme.iastate.edu/insects#IBSN
Insects of Iowa	http://www.insectsofiowa.org/
Crayfish	
American Crayfish Atlas	https://americancrayfishatlas.web.illinois.edu/
BioNet	https://programs.iowadnr.gov/bionet/
Dragonflies and Damselflies	
Iowa Odonata Survey	https://iowaodes.org/Default.aspx
Odonata Central, also hosts Dragonfly Society of the America's webpage	http://www.odonatacentral.org
BioNet	https://programs.iowadnr.gov/bionet/
Insects of Iowa	http://www.insectsofiowa.org/
Fish	
BioNet	https://programs.iowadnr.gov/bionet/
Fish Iowa	https://programs.iowadnr.gov/lakemanagement/FishIowa/FishSearch?_gl=1*2s11bd*_gcl_au*NzEwMTk1NTE2LjE3NTk3NjkwOTM
Mammals	
Smithsonian Institution's Mammals Collection	https://collections.nmnh.si.edu/search/mammals/
American Society of Mammalogist's Mammal Diversity Database	https://www.mammaldiversity.org/explore/
Zenodo	https://doi.org/10.5281/zenodo.15007505
Mussels	
BioNet	https://programs.iowadnr.gov/bionet/
Terrestrial Snails	
Field Museum of Natural History's Mollusk Collection	https://www.fieldmuseum.org/collection/mollusk-collection

Plans and Strategies

The following strategic plans, which were developed by wildlife conservation agencies, organizations or partnerships are relevant to the implementation of various aspects of the Iowa Wildlife Action Plan.

Organization/Plan Name	Website
Iowa Plans	
Iowa's Forest Action Plan	https://forest-action-plan-appendix-iowadnr.hub.arcgis.com/
State Conservation and Outdoor Recreation Plan	https://storymaps.arcgis.com/stories/585ed83ced534192819f571b59cacb78
Iowa Water Trails Plan	https://www.iowadnr.gov/places-go/water-trails/water-trail-development
Comprehensive Conservation Plans for National Wildlife Refuges in Iowa	https://www.fws.gov/library/collections/comprehensive-conservation-plans
State Wildlife Action Plans (SWAPs)	https://www.fishwildlife.org/afwa-informs/state-wildlife-action-plans
Regional Plans	
Bird Joint Venture Plans	
Prairie Pothole Joint Venture (PPJV) Implementation Plan	https://ppjv.org/resources/
Upper Mississippi River and Great Lakes Region (UMRJV) Implementation Plan	https://umgljv.org/planning/joint-venture-plans/ (Habitat Conservation Strategies for Landbirds, Shorebirds, Waterfowl and Waterbirds within this JV are also available at this site)
The Nature Conservancy Ecoregional Assessments	http://www.conservationgateway.org/ConservationPlanning/SettingPriorities/EcoregionalReports/Pages/EastData.aspx
Central Tallgrass Prairie	Ecoregional Assessments and reports for each of the three ecoregions in Iowa can be downloaded from the Conservation Gateway's Ecoregional Assessment Status Tool (EAST)
Northern Tallgrass Prairie	
Prairie Forest Border	
Partners in Flight Physiographic Area Plans	http://www.partnersinflight.org/bcps/pifplans.htm
Dissected Till Plains - Physiographic Region #32	https://partnersinflight.org/resources/pif-bird-conservation-plan-the-dissected-till-plains-physiographic-area-32/
Northern Tallgrass Prairie, Physiographic Region #40	https://partnersinflight.org/resources/pif-bird-conservation-plan-the-northern-tall-grass-prairie-physiographic-area-40/
Upper Great Lakes Plain, Physiographic Region #16	https://partnersinflight.org/resources/pif-bird-conservation-plan-the-upper-great-lakes-plain-physiographic-area-16/
National/Continental Plans	
North American Waterfowl Management Plan	https://www.fws.gov/partner/north-american-waterfowl-management-plan
United States Shorebird Conservation Plan	http://www.shorebirdplan.org/
United States Waterbird Conservation Plan	https://www.fws.gov/partner/north-american-waterbird-conservation-plan
North American Landbird Conservation Plan	https://partnersinflight.org/resources/north-american-landbird-conservation-plan/
North American Monarch Conservation Plan	https://www.fs.usda.gov/wildflowers/pollinators/MonarchButterfly/conservation/conservation_plan.shtml
National Fish, Wildlife and Plants Climate Change Adaptation Strategy	https://toolkit.climate.gov/tool/national-fish-wildlife-and-plants-climate-adaptation-strategy