

THREAT CATEGORIES

Focal Species Threat Assessment: FISH		THREAT CATEGORIES										THREAT CATEGORIES				
		Level 1	Level 2	Level 3								Level 1	Level 2	Level 3		
		1. Residential and commercial development	1.1 Housing and urban areas	1.1.1 Land conversion from nat'l habitat to urban & other res. areas (large & small scale)	1.1.2 Residential development using materials that cause collision hazards	1.2 Commercial and industrial areas	1.2.1 Land conversion from nat'l habitat to commercial or industrial areas (large & small scale)	1.2.2 Commercial development using materials that cause collision hazards	1.3 Tourism and recreation areas	1.3.1 Land conversion from nat'l habitat to recreation or tourism areas (large & small scale)	2 Agriculture and Aquaculture	2.1 Annual and Perennial Crops (non-timber)	2.1.1 Shifting Agriculture	2.1.2 Small-holder Farming	2.1.3 Agro-industry	
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Atlantic Sturgeon	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Blueback Herring	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
	Alewife	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Coldwater Stream Fish	Brook Trout	2	2	2	0	2	2	0	1	1	1	1	1	1	1	
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	0	1	1	0	1	1	1	1	2	2	2	
	Blackbanded Sunfish	1	1	1	0	1	1	0	1	1	1	1	2	2	2	
	Banded Sunfish	1	1	1	0	1	1	0	1	1	1	1	2	2	2	
	Swamp Darter	1	1	1	0	1	1	0	1	1	1	1	2	2	2	
Vulnerable Minnows	Comely Shiner	2	2	2	0	2	3	0	1	1	1	1	1	1	1	
	Bridle Shiner	2	2	2	0	2	3	0	1	1	1	1	1	1	1	
	Ironcolor Shiner	2	2	2	0	2	3	0	1	1	1	1	1	1	1	

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THREAT CATEGORIES

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		Level 1						Level 2		Level 3							
		2.2 Wood and Pulp Plantations	2.2.1 Small Holder	2.2.2 Agro-industry Plantations	2.3 Livestock Farming and Ranching	2.3.1 Small-holder Grazing	2.3.2 Agro-industry Grazing	2.4 Marine and Freshwater Aquaculture	2.4.1 Subsistence/ Artisanal Aquaculture	2.4.2 Industrial Aquaculture	3 Energy Production and Mining	3.1 Oil and Gas Drilling / Pipelines	3.1.1 Drilling & distribution of petroleum & other liquid hydrocarbons	3.1.2 Hydro-fracturing & other natural gas extraction & distribution processes	3.2 Mining and Quarrying	3.2.2 Surface Mining - Rock Quarry	3.2.4 Sand Dredging (outside shipping lanes)
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	0	0	0	0	0	0	2	2	2	3	3	3	3	1	1	1
	Atlantic Sturgeon	0	0	0	0	0	0	2	2	2	3	3	3	3	2	2	3
	Blueback Herring	0	0	0	0	0	0	2	2	2	3	3	3	3	2	2	2
	Alewife	0	0	0	0	0	0	2	2	2	3	3	3	3	2	2	2
Coldwater Stream Fish	Brook Trout	1	1	1	2	2	2	1	1	1	2	2	2	2	1	1	0
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	2	2	2	1	1	1	2	2	2	2	1	1	0
	Blackbanded Sunfish	1	1	1	2	2	2	1	1	1	2	2	2	2	1	1	0
	Banded Sunfish	1	1	1	2	2	2	1	1	1	2	2	2	2	1	1	0
	Swamp Darter	1	1	1	2	2	2	1	1	1	2	2	2	2	1	1	0
Vulnerable Minnows	Comely Shiner	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	0
	Bridle Shiner	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	0
	Ironcolor Shiner	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	0

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		Level 1			Level 2		Level 3										
		3.3 Renewable Energy	3.3.1 Wind power	3.3.2 Solar Power	3.4 Conventional Power Plants	4 Transportation and Service Corridors	4.1 Roads and Railroads	4.1.1 Land conversion from natural habitat to roads & railroads (large & small scale)	4.1.2 Movement of cars & other vehicles on roads & railroads (large & small scale)	4.2 Utility and Service Lines	4.2.1 Land conversion from natural habitat to utility & other service lines (large & small scale)	4.2.2 Management of rights-of-way	4.3 Shipping Lanes	4.3.1 Movement of large ships in shipping lanes	4.3.2 Dredging Impacts	4.4 Flight Paths	4.4.1 Airplane flight paths
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	2	0	3	1	1	1	1	1	1	0	3	3	2	0	0
	Atlantic Sturgeon	2	2	0	3	1	1	1	1	1	1	0	3	3	2	0	0
	Blueback Herring	2	2	0	3	2	1	2	1	1	1	0	2	2	2	0	0
	Alewife	2	2	0	3	2	1	2	1	1	1	0	2	2	2	0	0
Coldwater Stream Fish	Brook Trout	1	1	1	2	2	2	2	1	2	2	2	0	0	1	0	0
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	Blackbanded Sunfish	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	Banded Sunfish	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	Swamp Darter	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
Vulnerable Minnows	Comely Shiner	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	Bridle Shiner	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0
	Ironcolor Shiner	1	1	1	2	2	2	2	1	1	1	1	1	1	1	0	0

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		Level 1	Level 2			Level 3									
		5 Biological Resource Use	5.1 Hunting and Collecting Terrestrial Animals	5.1.1 Intentional Use	5.1.2 Unintentional Use	5.1.3 Persecution/Control	5.2 Gathering Terrestrial Plants	5.2.1 Intentional Use	5.2.2 Unintentional Use	5.2.3 Control	5.3 Logging and Wood Harvesting	5.3.1 Intentional Use (subsistence/small scale)	5.3.2 Intentional Use (large scale)	5.3.3 Unintentional effects (subsistence/small scale)	5.3.4 Unintentional effects (large scale)

Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Atlantic Sturgeon	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blueback Herring	3	0	0	0	1	0	0	0	0	1	1	1	1	1
	Alewife	3	0	0	0	1	0	0	0	0	1	1	1	1	1
Coldwater Stream Fish	Brook Trout	1	1	1	1	1	1	1	1	1	2	2	1	2	1
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Blackbanded Sunfish	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Banded Sunfish	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Swamp Darter	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vulnerable Minnows	Comely Shiner	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	Bridle Shiner	2	2	1	1	1	1	1	1	1	1	1	1	1	1
	Ironcolor Shiner	2	2	1	1	1	1	1	1	1	1	1	1	1	1

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		Level 1					Level 2					Level 3					
		5.4 Fishing and Harvesting of Aquatic Resources	5.4.1 Intentional Use (subsistence/small scale)	5.4.2 Intentional Use (large scale)	5.4.3 Unintentional effects (subsistence/small scale)	5.4.4 Unintentional effects (large scale)	5.4.5 Persecution/Control	6 Human Intrusions and Disturbance	6.1 Recreational Activities	6.1.1 Off-road vehicles (motorized & non-motorized)	6.1.2 Boating	6.1.3 Use of beaches	6.1.4 Exploration of caves/mines	6.1.5 Wildlife observation and photography	6.1.6 Recreational use of cliffs, rocks and ridgelines	6.2 Military Exercises	6.2.1 Military exercises
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	1	1	2	2	0	2	1	1	1	0	0	0	0	1	1
	Atlantic Sturgeon	3	1	1	2	3	0	3	1	1	1	0	0	0	0	3	3
	Blueback Herring	3	1	3	2	3	0	3	1	1	1	0	0	0	0	2	2
	Alewife	3	1	3	2	3	0	3	1	1	1	0	0	0	0	2	2
Coldwater Stream Fish	Brook Trout	1	1	1	3	3	1	2	1	1	0	0	0	0	0	0	0
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0
	Blackbanded Sunfish	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0
	Banded Sunfish	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0
	Swamp Darter	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0
Vulnerable Minnows	Comely Shiner	1	1	1	3	3	3	2	1	1	0	0	0	0	0	0	0
	Bridle Shiner	2	2	2	3	3	3	2	1	1	0	0	0	0	0	0	0
	Ironcolor Shiner	2	2	2	3	3	3	2	1	1	0	0	0	0	0	0	0

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		6.3 Work and Other Activities	6.3.1 Unauthorized research projects at significant habitats	6.3.2 Authorized research projects at significant habitats	6.3.3 Other "work" unrelated to research	7 Natural Systems Modifications	7.1 Fire and Fire Suppression	7.1.1 Increase in Fire Frequency/ Intensity	7.1.2 Suppression of Fire Frequency/ Intensity	7.2 Dams and Water Management/ Use	7.2.1 Abstraction of Surface Water (domestic use)	7.2.2 Abstraction of Surface Water (commercial use)	7.2.3 Abstraction of Surface Water (agricultural use)	7.2.5 Abstraction of Ground Water (domestic use)	7.2.6 Abstraction of Ground Water (commercial use)	7.2.7 Abstraction of Ground Water (agricultural use)	7.2.9 Small Dams
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	1	1	1	3	1	0	0	0	2	2	3	1	2	3	1	1
	Atlantic Sturgeon	1	1	3	3	2	0	0	0	2	2	3	1	2	3	1	2
	Blueback Herring	1	1	2	3	1	0	0	0	3	2	3	2	2	3	2	3
	Alewife	1	1	2	3	1	0	0	0	3	2	3	2	2	3	2	3
Coldwater Stream Fish	Brook Trout	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
Pinelands Freshwater Fish	Mud Sunfish	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
	Blackbanded Sunfish	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
	Banded Sunfish	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
	Swamp Darter	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
Vulnerable Minnows	Comely Shiner	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
	Bridle Shiner	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2
	Ironcolor Shiner	1	1	1	1	3	0	0	0	3	3	3	3	3	3	3	2

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		7.2.10 Large Dams	7.2.11 Dams (size unknown)	7.2.12 Culverts	7.2.13 Stream Burial	7.2.14 Impervious Surfaces	7.2.15 Freshwater Tidal Water Management	7.3 Other Ecosystem Modifications	7.3.1 Shoreline Stabilization	7.3.2 Inappropriate timing of mowing	7.3.3 Removal of coarse woody debris (streams, forests, scrub-shrub habitats)	7.3.4 Lack of natural disturbance patterns or ecosystem functions due to species loss	7.3.5 Poor habitat management
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	2	1	1	2	1	1	1	0	1	1	1
	Atlantic Sturgeon	2	2	1	1	2	1	1	1	0	1	1	1
	Blueback Herring	3	3	3	2	2	2	1	2	0	2	1	1
	Alewife	3	3	3	2	2	2	1	2	0	2	1	1
Coldwater Stream Fish	Brook Trout	3	2	2	3	3	0	2	1	0	3	0	2
Pinelands Freshwater Fish	Mud Sunfish	3	2	2	1	3	1	2	1	0	3	0	2
	Blackbanded Sunfish	3	2	2	1	3	1	2	1	0	3	0	2
	Banded Sunfish	3	2	2	1	3	1	2	1	0	3	0	2
	Swamp Darter	3	2	2	1	3	1	2	1	0	3	0	2
Vulnerable Minnows	Comely Shiner	3	2	2	1	3	0	2	1	0	3	0	2
	Bridle Shiner	3	2	2	1	3	0	2	1	0	3	0	2
	Ironcolor Shiner	3	2	2	1	3	0	2	1	0	3	0	2

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		Level 1	Level 2	Level 3						8.2	8.2.1	8.2.2	8.3	8.4	8.4.1	8.4.2
		8 Invasive and Other Problematic Species, Genes and Diseases	8.1 Invasive Non-native/ Alien Species/ Diseases	8.1.1 Unspecified Species	8.1.2 Invasive non-native aquatic animals	8.1.3 Invasive non-native aquatic plants	8.1.4 Invasive non-native terrestrial/w etland animals	8.1.5 Invasive non-native terrestrial/w etland plants	8.1.6 Invasive non-native fungal/ bacterial diseases	8.2 Problematic Native Species/ Diseases	8.2.1 Unspecified Species	8.2.2 Named Species	8.3 Introduced Genetic Material	8.4 Problematic Species/ Diseases of Unknown Origin	8.4.1 Unspecified Species	8.4.2 Named Species
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	1	2	1	1	1	0	1	1	1	1	1	1	1	1	1
	Atlantic Sturgeon	1	2	1	1	1	0	1	1	1	1	1	1	1	1	1
	Blueback Herring	1	2	1	2	1	0	1	1	1	1	1	1	1	1	1
	Alewife	1	2	1	2	1	0	1	1	1	1	1	1	1	1	1
Coldwater Stream Fish	Brook Trout	3	3	3	3	1	3	1	1	1	0	1	3	2	1	2
Pinelands Freshwater Fish	Mud Sunfish	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
	Blackbanded Sunfish	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
	Banded Sunfish	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
	Swamp Darter	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
Vulnerable Minnows	Comely Shiner	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
	Bridle Shiner	3	3	3	3	3	0	1	1	1	0	1	1	2	1	2
	Ironcolor Shiner	3	3	3	3	3	0	1	0	1	0	1	1	2	1	2

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		8.5 Viral/ Prion- induced Diseases	8.5.1 Unspecified Species (Disease)	8.5.2 Named Species (Disease)	8.6 Diseases of Unknown Cause	9 Pollution	9.1 Domestic and Urban Waste Water	9.1.1 Sewage	9.1.2 Run- off	9.1.3 other	9.2 Industrial and Military Effluents	9.2.1 Oil spills	9.2.2 Seepage from Mining	9.2.3 other	9.2.4 Other: Hydro- fracturing	9.2.5 Other: Industrial toxic settling ponds
Anadromous & Semi- anadromous Fish	Shortnose Sturgeon	1	1	1	1	2	2	2	2	1	2	3	1	2	3	0
	Atlantic Sturgeon	1	1	1	1	2	2	2	2	1	2	3	1	2	3	0
	Blueback Herring	1	1	1	1	2	2	2	2	1	2	3	1	2	3	0
	Alewife	1	1	1	1	2	2	2	2	1	2	3	1	2	3	0
Coldwater Stream Fish	Brook Trout	3	0	3	0	3	3	2	3	3	3	3	1	2	1	1
Pinelands Freshwater Fish	Mud Sunfish	3	0	3	0	3	3	2	3	3	3	3	1	2	1	1
	Blackbanded Sunfish	3	0	3	0	3	3	2	3	3	3	3	1	2	1	1
	Banded Sunfish	3	0	3	0	3	3	2	3	3	3	3	1	2	1	1
	Swamp Darter	3	0	3	0	3	3	2	3	3	3	3	1	2	1	1
Vulnerable Minnows	Comely Shiner	3	0	3	0	2	2	2	2	2	3	3	1	2	1	1
	Bridle Shiner	3	0	3	0	2	2	2	2	2	3	3	1	2	1	1
	Ironcolor Shiner	3	0	3	0	2	2	2	2	2	3	3	1	2	1	1

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		9.3 Agricultural and Forestry Effluents	9.3.1 Nutrient loads	9.3.2 Soil erosion and sedimenta- tion	9.3.3 Herbicides & pesticides	9.3.4 Control of insect pests & plants leading to mortality of non-target species	9.3.5 Control of insect pests and plants leading to mortality of non-target species not associated with agriculture	9.4 Garbage and Solid Waste	9.4.1 (list type, source, and if possible, specific pollutants of concern)	9.5 Air- Bourne Pollutants	9.5.1 Acid Rain	9.5.2 Smog	9.5.3 Ozone	9.5.4 Other	9.5.4 Methane	9.5.5 Herbicides & pesticides (aerial applica-tion)
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	2	1	2	1	1	1	1	1	2	1	1	1	1	1
	Atlantic Sturgeon	2	2	1	2	1	1	1	1	1	2	1	1	1	1	1
	Blueback Herring	2	2	2	2	1	1	1	1	1	2	1	1	1	1	2
	Alewife	2	2	2	2	1	1	1	1	1	2	1	1	1	1	2
Coldwater Stream Fish	Brook Trout	2	3	3	2	2	2	1	1	1	1	1	0	0	1	2
Pinelands Freshwater Fish	Mud Sunfish	3	3	3	3	2	2	1	1	1	1	1	0	0	0	2
	Blackbanded Sunfish	3	3	3	3	2	2	1	1	1	1	1	0	0	0	2
	Banded Sunfish	3	3	3	3	2	2	1	1	1	1	1	0	0	0	2
	Swamp Darter	3	3	3	3	2	2	1	1	1	1	1	0	0	0	2
Vulnerable Minnows	Comely Shiner	2	2	3	2	2	2	1	1	1	1	1	0	0	0	2
	Bridle Shiner	2	2	3	2	2	2	1	1	1	1	1	0	0	0	2
	Ironcolor Shiner	2	2	3	2	2	2	1	1	1	1	1	0	0	0	2

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		9.6 Excess Energy	9.6.1 Light Pollution	9.6.2 Thermal Pollution	9.6.3 Noise Pollution	9.6.4 Other	11 Climate Change and Severe Weather	11.1 Habitat Shifting or Alteration	11.1.1 Sea Level Rise	11.2 Droughts	11.2.1 Droughts	11.3 Temperature Extremes	11.3.1 Temperature Extremes	11.4 Storms and Flooding	11.4.1 Storms and Flooding	11.4.2 Increased Rainfall	11.5 Sea-level Rise	11.6 Phenology Shifting or Alteration	11.6.1 Phenology shifts related to pollination ecology	11.6.2 Phenology shifts related to predator-prey ecology	11.6.3 Phenology shifts related to species redistribution

Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	1	1	2	2	1	2	2	2	3	2	2	2	1	2	1	3	1	1	1	1
	Atlantic Sturgeon	1	1	2	2	1	2	2	2	3	2	2	2	1	2	1	3	1	1	1	1
	Blueback Herring	2	1	2	2	1	2	2	2	3	2	2	2	2	2	1	3	1	1	1	1
	Alewife	2	1	2	2	1	2	2	2	3	2	2	2	2	2	1	3	1	1	1	1
Coldwater Stream Fish	Brook Trout	3	0	3	0	0	3	3	3	3	3	3	3	2	2	2	1	3	0	1	3
Pinelands Freshwater Fish	Mud Sunfish	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	2	3	0	1	3
	Blackbanded Sunfish	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	2	3	0	1	3
	Banded Sunfish	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	2	3	0	1	3
	Swamp Darter	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	2	3	0	1	3
Vulnerable Minnows	Comely Shiner	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	1	3	0	1	3
	Bridle Shiner	1	0	1	0	0	3	3	2	2	2	2	2	2	2	1	3	0	1	3	
	Ironcolor Shiner	1	0	1	0	0	3	3	2	2	2	2	2	2	2	2	3	0	1	3	

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ACTION DRIVERS

		Level 1						Level 2				
		Level 1	Level 2	Level 3				Level 1	Level 2	Level 3	Level 2	Level 3
		12 Resource Management Needs	12.1 Resource information collection needs	12.1.1 Lack of initial baseline inventory	12.1.2 Lack of up-to-date existing information	12.1.3 Need to answer research question	12.1.4 Need to develop new technique	14 Education/ Outreach Needs	14.1 Education needs	14.1.1 Need for improved knowledge of fish and wildlife and their habitats	14.2 Outreach needs	14.2.1 Need to improve specific understanding of agency/ organization goals, objectives and ongoing wildlife conservation actions
Anadromous & Semi-anadromous Fish	Shortnose Sturgeon	2	2	1	2	2	1	2	2	2	2	2
	Atlantic Sturgeon	2	2	1	2	2	1	2	2	2	2	2
	Blueback Herring	2	2	1	2	2	1	2	2	2	2	2
	Alewife	2	2	1	2	2	1	2	2	2	2	2
Coldwater Stream Fish	Brook Trout	1	1	1	1	1	0	1	1	1	2	2
Pinelands Freshwater Fish	Mud Sunfish	2	2	2	2	2	1	2	2	2	2	2
	Blackbanded Sunfish	2	2	2	2	2	1	2	2	2	2	2
	Banded Sunfish	2	2	2	2	2	1	2	2	2	2	2
	Swamp Darter	2	2	2	2	2	1	2	2	2	2	2
Vulnerable Minnows	Comely Shiner	3	3	3	3	2	1	2	2	2	2	2
	Bridle Shiner	3	3	3	3	2	1	2	2	2	2	2
	Ironcolor Shiner	3	3	3	3	2	1	2	2	2	2	2

3 = HIGH threat score
 2 = MODERATE threat score
 1 = LOW threat score
 0 = Not applicable