

Appendix 3

Threats



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Appendix 3. Threats Classification System used in Rhode Island's Wildlife Action Plan 1

Appendix 3.Threat Classification System for Rhode Island's WAP

This appendix lists the NE Lexicon Threat CATEGORIES and CODES used in the RI WAP. All threats/needs were identified, compiled and then used as a foundation from which the RI DEM DFW and its partners began the development of conservation actions to address these threats.

IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
1	Residential and Commercial Development	1.1	Housing and Urban Areas		List the type of development	Human cities, towns and settlements including non-housing development typically integrated with housing
1	Residential and Commercial Development	1.2	Commercial and Industrial Areas		List the type of development	Industrial and other non-energy commercial development and operations
1	Residential and Commercial Development	1.3	Tourism and Recreational Areas		List the type of development	Pressures from tourism and recreational activities (e.g., recreation areas, off-road vehicles, spelunking)
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1.1	Shifting Agriculture	Growing and harvesting trees and other woody vegetation for timber, fiber or fuel
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1.2	Small-holder Farming	
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1.3	Agro-industry	
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1.4	Scale Unknown	
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.2.1	Small Holder	
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.2.2	Agro-industry Plantations	
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.2.3	Scale Unknown	
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3.1	Nomadic Grazing	Crops planted for food, fodder, fiber, fuel or other uses
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3.2	Small-holder Grazing	
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3.3	Agro-industry Grazing	
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3.4	Scale Unknown	
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.4.1	Subsistence/Artisanal Aquaculture	Domestic terrestrial animals raised in one location on farmed or non-local resources (farming); also domestic or semi-domesticated animals allowed to roam in the wild and supported by natural habitats (ranching)
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.4.2	Industrial Aquaculture	

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IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.4.3	Scale Unknown	
3	Energy Production and Mining	3.1	Oil and Gas Drilling		List the specific type of resources and production method	Threats from exploring for, developing, producing and distributing energy resources
3	Energy Production and Mining	3.1	Oil and Gas Drilling		List the specific type of resources and production method	Drilling and distribution of petroleum and other liquid hydrocarbons
3	Energy Production and Mining	3.2	Mining and Quarrying		List the specific type of resource and production method	Hydrofracturing and other natural gas extraction and distribution processes
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	Removal and distribution of minerals and rocks, limited to energy production
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	Generating and distributing power from the wind
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	Generating and distributing power from the sun
4	Transportation and Service Corridors	4.1	Roads and Railroads		List the specific type of road	Non-energy transportation corridors and the vehicles that use them
4	Transportation and Service Corridors	4.2	Utility and Service Lines		List the specific type of utility line	
4	Transportation and Service Corridors	4.3	Shipping Lanes		List the specific type of shipping lane	
4	Transportation and Service Corridors	4.4	Flight Paths		List the specific type of flight path	
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.1	Intentional Use	Threats from overharvesting biological resources for commercial, recreation, subsistence, research or cultural purposes; including both deliberate and unintentional harvesting beyond sustainable levels
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.2	Unintentional effects	
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.3	Persecution/Control	
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.4	Motivation Unknown	
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.1	Intentional Use	Overharvesting terrestrial wild animals or animal products; includes accidental mortality/bycatch
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.2	Unintentional effects	

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IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.3	Persecution/Control	
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.4	Motivation Unknown	
5	Biological Resource Use	5.3	Logging and Wood Harvesting	5.3.1	Intentional Use (subsistence/small scale)	Threats from farming and ranching as a result of agricultural expansion and intensification, including silviculture, mariculture and aquaculture
5	Biological Resource Use	5.3	Logging and Wood Harvesting	5.3.2	Intentional Use (large scale)	
5	Biological Resource Use	5.3	Logging and Wood Harvesting	5.3.3	Unintentional effects (subsistence/small scale)	
5	Biological Resource Use	5.3	Logging and Wood Harvesting	5.3.4	Unintentional effects (large scale)	
5	Biological Resource Use	5.3	Logging and Wood Harvesting	5.3.5	Motivation Unknown	
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.1	Intentional Use (subsistence/small scale)	Overharvesting plants, fungi, and other non-timber/non-animal products
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.2	Intentional Use (large scale)	
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.3	Unintentional effects (subsistence/small scale)	
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.4	Unintentional effects (large scale)	
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.5	Persecution/Control	
5	Biological Resource Use	5.4	Fishing and Harvesting of Aquatic Resources	5.4.6	Motivation Unknown	
6	Human Intrusions and Disturbance	6.1	Recreational Activities		List the specific activity	
6	Human Intrusions and Disturbance	6.2	War, Civil Unrest and Military Exercises		List the specific activity	
6	Human Intrusions and Disturbance	6.3	Work and Other Activities		List the specific activity	
7	Natural Systems Modifications	7.1	Fire and Fire Suppression	7.1.1	Increase in Fire Frequency/Intensity	
7	Natural Systems Modifications	7.1	Fire and Fire Suppression	7.1.2	Suppression of Fire Frequency/Intensity	
7	Natural Systems Modifications	7.1	Fire and Fire Suppression	7.1.3	Trend Unknown	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.1	Abstraction of Surface Water (domestic use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.10	Large Dams	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.11	Dams (size unknown)	

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IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.2	Abstraction of Surface Water (commercial use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.3	Abstraction of Surface Water (agricultural use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.4	Abstraction of Surface Water (unknown use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.5	Abstraction of Ground Water (domestic use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.6	Abstraction of Ground Water (commercial use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.7	Abstraction of Ground Water (agricultural use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.8	Abstraction of Ground Water (unknown use)	
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2.9	Small Dams	
7	Natural Systems Modifications	7.3	Other Ecosystem Modifications		List the specific source of alteration	
8	Invasive and Other Problematic Species, Genes and Diseases	8.1	Invasive Non-native/Alien Species/Diseases	8.1.1	Unspecified Species	Threats from non-native and native plants, animals, pathogens/microbes, or genetic materials that have or are predicted to have harmful effects on biodiversity following their introduction, spread and/or increase in abundance
8	Invasive and Other Problematic Species, Genes and Diseases	8.1	Invasive Non-native Alien Species Diseases	8.1.2	Named Species	
8	Invasive and Other Problematic Species, Genes and Diseases	8.2	Problematic Native Species Diseases	8.2.1	Unspecified Species	Harmful plants, animals, pathogens and other microbes not originally found within the ecosystem(s) in question and directly or indirectly introduced and spread into it by human activities
8	Invasive and Other Problematic Species, Genes and Diseases	8.2	Problematic Native Species Diseases	8.2.2	Named Species	
8	Invasive and Other Problematic Species, Genes and Diseases	8.3	Introduced Genetic Material		List the specific material or organism	Harmful plants, animals, or pathogens and other microbes that are originally found within the ecosystem(s) in question, but have become out-of-balance or released directly or indirectly due to human activities
8	Invasive and Other Problematic Species, Genes and Diseases	8.4	Problematic Species/Diseases of Unknown Origin	8.4.1	Unspecified Species	
8	Invasive and Other Problematic	8.4	Problematic Species Diseases of	8.4.2	Named Species	

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IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
	Species, Genes and Diseases		Unknown Origin			
8	Invasive and Other Problematic Species, Genes and Diseases	8.5	Viral/Prion-induced Diseases	8.5.1	Unspecified Species (Disease)	
8	Invasive and Other Problematic Species, Genes and Diseases	8.5	Viral/Prion-induced Diseases	8.5.2	Named Species (Disease)	
8	Invasive and Other Problematic Species, Genes and Diseases	8.6	Diseases of Unknown Cause			
9	Pollution	9.1	Domestic and Urban Waste Water	9.1.1	Sewage	
9	Pollution	9.1	Domestic and Urban Waste Water	9.1.2	Run-off	
9	Pollution	9.1	Domestic and Urban Waste Water	9.1.3	Type Unknown	
9	Pollution	9.2	Industrial and Military Effluents	9.2.1	Oil Spills	
9	Pollution	9.2	Industrial and Military Effluents	9.2.2	Seepage from Mining	
9	Pollution	9.2	Industrial and Military Effluents	9.2.3	Type Unknown	
9	Pollution	9.3	Agricultural and Forestry Effluents	9.3.1	Nutrient Loads	
9	Pollution	9.3	Agricultural and Forestry Effluents	9.3.2	Soil Erosion and Sedimentation	
9	Pollution	9.3	Agricultural and Forestry Effluents	9.3.3	Herbicides and Pesticides	
9	Pollution	9.3	Agricultural and Forestry Effluents	9.3.4	Type Unknown	
9	Pollution	9.4	Garbage and Solid Waste		List the type, source, and if possible, the specific pollutants of concern	
9	Pollution	9.5	Air-Bourne Pollutants	9.5.1	Acid Rain	
9	Pollution	9.5	Air-Bourne Pollutants	9.5.2	Smog	
9	Pollution	9.5	Air-Bourne Pollutants	9.5.3	Ozone	
9	Pollution	9.5	Air-Bourne Pollutants	9.5.4	Type Unknown	
9	Pollution	9.6	Excess Energy	9.6.1	Light Pollution	
9	Pollution	9.6	Excess Energy	9.6.2	Thermal Pollution	
9	Pollution	9.6	Excess Energy	9.6.3	Noise Pollution	
9	Pollution	9.6	Excess Energy	9.6.4	Type Unknown	
10	Geological Events	10.1	Volcanoes		List the specific problem	Extreme precipitation and/or wind events
10	Geological Events	10.2	Earthquake/Tsunamis		List the specific problem	
10	Geological Events	10.3	Avalanches/Landslides		List the specific problem	
11	Climate Change and Severe Weather	11.1	Habitat Shifting or Alteration		List the specific problem	Threats from long-term climatic changes or other severe weather/geological events that or potentially could eliminate a vulnerable species or habitat
11	Climate Change and Severe	11.2	Droughts		List the specific problem	Major changes in habitat composition and location

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IUCN Level 1 Code	IUCN Level 1	IUCN Level 2 Code	IUCN Level 2	IUCN Level 3 code	IUCN Level 3	Description/Examples/Notes
	Weather					
11	Climate Change and Severe Weather	11.3	Temperature Extremes		List the specific problem	Periods in which rainfall falls below the normal range of variation
11	Climate Change and Severe Weather	11.4	Storms and Flooding		List the specific problem	Periods in which temperatures exceed or go below the normal range of variation