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# APPENDIX 3

# IUCN CONSERVATION ISSUES, RANKING CRITERIA, AND CROSSWALK

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## IUCN Conservation Issues

IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
Residential and Commercial Development	Housing and Urban Areas	List the type of development	Human cities, towns and settlements including non-housing development typically integrated with housing
	Commercial and Industrial Areas	List the type of development	Industrial and other non-energy commercial development and operations
	Tourism and Recreational Areas	List the type of development	Pressures from tourism and recreational activities (e.g., recreation areas, off-road vehicles, spelunking)
Agriculture and Aquaculture	Annual and Perennial Non-timber crops	Shifting Agriculture	Growing and harvesting trees and other woody vegetation for timber, fiber or fuel
		Small-holder Farming	
		Agro-industry	
		Scale Unknown	
	Wood and Pulp Plantations	Small Holder	
		Agro-industry Plantations	
		Scale Unknown	
	Livestock Farming and Ranching	Nomadic Grazing	Crops planted for food, fodder, fiber, fuel or other uses
		Small-holder Grazing	
		Agro-industry Grazing	
		Scale Unknown	
	Marine and Freshwater Aquaculture	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

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
			and supported by natural habitats (ranching)
		Industrial Aquaculture	
		Scale Unknown	
Energy Production and Mining	Oil and Gas Drilling	List the specific type of resources and production method	Threats from exploring for, developing, producing and distributing energy resources
		List the specific type of resources and production method	Drilling and distribution of petroleum and other liquid hydrocarbons
	Mining and Quarrying	List the specific type of resource and production method	Hydrofracturing and other natural gas extraction and distribution processes
	Renewable Energy	List the specific type of resource and production method	Removal and distribution of minerals and rocks, limited to energy production
		List the specific type of resource and production method	Generating and distributing power from the wind
		List the specific type of resource and production method	Generating and distributing power from the sun
Transportation and Service Corridors	Roads and Railroads	List the specific type of road	Non-energy transportation corridors and the vehicles that use them
	Utility and Service Lines	List the specific type of utility line	
	Shipping Lanes	List the specific type of shipping lane	
	Flight Paths	List the specific type of flight path	
Biological Resource Use	Hunting and Collecting Terrestrial Animals	Intentional Use	Threats from overharvesting biological resources for commercial, recreation, subsistence, research or cultural purposes; including both deliberate and unintentional harvesting beyond sustainable levels
		Unintentional effects	

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
		Persecution/Control	
		Motivation Unknown	
	Gathering Terrestrial Plants	Intentional Use	Overharvesting terrestrial wild animals or animal products; includes accidental mortality/bycatch
		Unintentional effects	
		Persecution/Control	
		Motivation Unknown	
	Logging and Wood Harvesting	Intentional Use (subsistence/small scale)	Threats from farming and ranching as a result of agricultural expansion and intensification, including silviculture, mariculture and aquaculture
		Intentional Use (large scale)	
		Unintentional effects (subsistence/small scale)	
		Unintentional effects (large scale)	
	Logging and Wood Harvesting	Motivation Unknown	
	Fishing and Harvesting of Aquatic Resources	Intentional Use (subsistence/small scale)	Overharvesting plants, fungi, and other non-timber/non-animal products
		Intentional Use (large scale)	
		Unintentional effects (subsistence/small scale)	
		Unintentional effects (large scale)	
Persecution/Control			
		Motivation Unknown	
Human Intrusions and Disturbance	Recreational Activities	List the specific activity	
	War, Civil Unrest and Military Exercises	List the specific activity	
	Work and Other Activities	List the specific activity	
Natural Systems Modifications	Fire and Fire Suppression	Increase in Fire Frequency/Intensity	
		Suppression of Fire Frequency/Intensity	
		Trend Unknown	

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
	Dams and Water Management/Use	Abstraction of Surface Water (domestic use)	
		Large Dams	
		Dams (size unknown)	
		Abstraction of Surface Water (commercial use)	
		Abstraction of Surface Water (agricultural use)	
		Abstraction of Surface Water (unknown use)	
		Abstraction of Ground Water (domestic use)	
		Abstraction of Ground Water (commercial use)	
		Abstraction of Ground Water (agricultural use)	
		Abstraction of Ground Water (unknown use)	
		Small Dams	
		Other Ecosystem Modifications	List the specific source of alteration
	Invasive and Other Problematic Species, Genes and Diseases	Invasive Non-native/Alien Species/Diseases	Unspecified Species
Named Species			
Problematic Native Species/Diseases		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
		Named Species	

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes	
	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	
	Problematic Species/Diseases of Unknown Origin	Unspecified Species		
		Named Species		
	Viral/Prion-induced Diseases	Unspecified Species (Disease)		
		Named Species (Disease)		
Diseases of Unknown Cause				
Pollution	Domestic and Urban Waste Water	Sewage		
		Run-off		
		Type Unknown		
	Industrial and Military Effluents	Oil Spills		
		Seepage from Mining		
		Type Unknown		
	Agricultural and Forestry Effluents	Nutrient Loads		
		Soil Erosion and Sedimentation		
		Herbicides and Pesticides		
		Type Unknown		
	Garbage and Solid Waste	List the type, source, and if possible, the specific pollutants of concern		
	Air-Bourne Pollutants		Acid Rain	
			Smog	
			Ozone	
		Type Unknown		
Excess Energy	Light Pollution			
	Thermal Pollution			
	Noise Pollution			
	Type Unknown			

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
Geological Events	Volcanos	List the specific problem	Extreme precipitation and/or wind events
	Earthquake/Tsunamis	List the specific problem	
	Avalanches/Landslides	List the specific problem	
Climate Change and Severe Weather	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
	Droughts	List the specific problem	Major changes in habitat composition and location
	Temperature Extremes	List the specific problem	Periods in which rainfall falls below the normal range of variation
	Storms and Flooding	List the specific problem	Periods in which temperatures exceed or go below the normal range of variation
	Sea Level Rise	List the specific problem	
Resource Management Needs	Resource information collection needs	Lack of initial baseline inventory	
		Lack of up-to-date existing information	
		Need to answer research question	
		Need to develop new technique	
	Management decision needs	Need to provide technical assistance	
		Need to conduct environmental reviews	
		Lack of fish, wildlife and/or habitat planning	
Recreation Needs	Training needs	Need for more and/or improved training in outdoor recreational methods	
		Need to improve safety/ethics in outdoor recreation	



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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
	Public access needs	Need for more public access to areas or facilities for outdoor recreation	
		Lack of maintenance/improvements on areas or facilities for outdoor recreation	
	Utilization needs	Lack of information on how fish and wildlife resources are utilized	
		Lack of information on how outdoor recreation areas and facilities are utilized	
		Lack of information on locations of fish and wildlife resources and public access areas and facilities	
		Need to maintain or increase recruitment and/or retention of outdoor recreationalists	
		Need to maintain or increase supply of fish to support fishing	
	Education/ Outreach Needs	Education needs	Need for improved knowledge of fish and wildlife and their habitats
Lack of aquatic resources and wildlife education facilities			
Need for improved knowledge of WSFR grant programs and their accomplishments			

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IUCN Level 1	IUCN Level 2	IUCN Level 3	Description/Examples/Notes
	Outreach needs	Need to develop and/or maintain a broad base of support for agency goals and objectives	
		Need to maintain and/or increase constituent base	
Administrative Needs	Infrastructure needs	Need to maintain or improve fish and wildlife agency administrative facilities	
		Need to maintain or improve information management systems	
	Organizational/program planning needs	Need for agency organizational planning to meet goals and objectives	
		Need for WSFR program/subprogram planning to meet goals and objectives	
	Coordination/administration needs	Need for agency administrative support for effective operations	
		Need for coordination for effective program/project management	

## Conservation Issue Ranking Criteria (based on NE Lexicon)

Characteristic	Explanation	High Impact (1)	Moderate Impact (2)	Low Impact (3)
<b>Severity</b>		Severe: Degree of ecological change is major	Moderate Severity: Degree of ecological change is substantial	Slight Severity: Degree of ecological change is minor
<b>Reversibility</b>	Consider the likelihood of reversing the impacts within 10 years.	Irreversible: Effects of the threat are irreversible	Reversible with difficulty: Effects of the threat may be reversed but costs or logistics make action impractical	Reversible: Effects of the threat can be reversed by proven actions
<b>Immediacy</b>	This characteristic assesses the time scale over which impacts of the issue will be observable.	Immediate: Effects of the threat are immediately observable (current or existing)	Near-term: Effects of the threat are expected within the next 1 - 10 years	Long-term: Effects of the threat are expected in 10-100 years given known ecosystem interactions or compounding threats
<b>Spatial Extent</b>	Consider the impact of the issue within 10 years.	Pervasive: (>50%) A large portion of the habitat or population is negatively impacted by the threat.	Dispersed or Patchy: (10-50%)	Localized: (<10%) A small portion of the habitat or population is negatively impacted by the threat.
<b>Certainty</b>		High Certainty: Sufficient information about the threat and ecological responses to it is available	Moderate Certainty: some information describing the threat and ecological responses to it is available, but many questions remain	Low Certainty: threat is poorly understood, data are insufficient, or the response to threat is poorly understood

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<p><b>Likelihood</b></p>	<p>Consider impact of the issue within 10 years. This characteristic is used to assess the certainty surrounding the issue and its impact.</p>	<p>Occurring: Effects of the threat are already observable (100% chance)</p>	<p>Likely: Effects of threat are likely to occur (30-99% chance)</p>	<p>Unlikely: Effects of the threat are unlikely to occur (less than 30% chance)</p>
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# IUCN Threats – TRACS Action Drivers Crosswalk

IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
1	Residential and Commercial Development	1.1	Housing and Urban Areas		List the type of development	1	Resource Threats	1.1	Fish and wildlife habitat loss or degradation	1.1.1	Residential development
1	Residential and Commercial Development	1.2	Commercial and Industrial Areas		List the type of development	1	Resource Threats	1.1	Fish and wildlife habitat loss or degradation	1.1.2	Non-energy commercial development and operations
1	Residential and Commercial Development	1.3	Tourism and Recreational Areas		List the type of development	1	Resource Threats	1.1	Fish and wildlife habitat loss or degradation	1.1.4	Tourism and recreation activities
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1	Shifting Agriculture	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.2	Annual and perennial non-timber crops
2	Agriculture and Aquaculture	2.2	Annual and Perennial Non-timber crops	2.1	Small-holder Farming	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.2	Annual and perennial non-timber crops
2	Agriculture and Aquaculture	2.2	Annual and Perennial Non-timber crops	2.1	Agro-industry	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.2	Annual and perennial non-timber crops
2	Agriculture and Aquaculture	2.1	Annual and Perennial Non-timber crops	2.1	Scale Unknown	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.2	Annual and perennial non-timber crops
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.2	Small Holder		Not in TRACS		Not in TRACS		
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.1	Agro-industry Plantations		Not in TRACS		Not in TRACS		
2	Agriculture and Aquaculture	2.2	Wood and Pulp Plantations	2.2	Scale Unknown		Not in TRACS		Not in TRACS		
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3	Nomadic Grazing	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.3	Livestock farming and ranching
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3	Small-holder Grazing	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.3	Livestock farming and ranching
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3	Agro-industry Grazing	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.3	Livestock farming and ranching
2	Agriculture and Aquaculture	2.3	Livestock Farming and Ranching	2.3	Scale Unknown	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.3	Livestock farming and ranching
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.4	Subsistence/Artisinal Aquaculture	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.4	Marine and freshwater aquaculture
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.2	Industrial Aquaculture	1	Resource Threats	1.2	Agriculture and aquaculture side effects	.4	Marine and freshwater aquaculture

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IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
2	Agriculture and Aquaculture	2.4	Marine and Freshwater Aquaculture	2.4.3	Scale Unknown	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2.4	Marine and freshwater aquaculture
3	Energy Production and Mining	3.1	Oil and Gas Drilling		List the specific type of resources and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.1	Oil drilling
3	Energy Production and Mining	3.1	Oil and Gas Drilling		List the specific type of resources and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.2	Natural gas extraction
3	Energy Production and Mining	3.2	Mining and Quarrying		List the specific type of resource and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.3	Mining and quarrying
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.4	Wind power
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.5	Solar power
3	Energy Production and Mining	3.3	Renewable Energy		List the specific type of resource and production method	1	Resource Threats	1.3	Energy development and distribution	1.3.6	Hydropower
4	Transportation and Service Corridors	4.1	Roads and Railroads		List the specific type of road	1	Resource Threats	1.1	Fish and wildlife habitat loss or degradation	1.1.3	Transportation corridors
4	Transportation and Service Corridors	4.2	Utility and Service Lines		List the specific type of utility line		Not in TRACS		Not in TRACS		
4	Transportation and Service Corridors	4.3	Shipping Lanes		List the specific type of shipping lane		Not in TRACS		Not in TRACS		
4	Transportation and Service Corridors	4.4	Flight Paths		List the specific type of flight path		Not in TRACS		Not in TRACS		
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.1	Intentional Use	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.1	Hunting and collecting terrestrial animals
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.2	Unintentional effects	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.1	Hunting and collecting terrestrial animals
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.3	Persecution/Control	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.1	Hunting and collecting terrestrial animals
5	Biological Resource Use	5.1	Hunting and Collecting Terrestrial Animals	5.1.4	Motivation Unknown	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.1	Hunting and collecting terrestrial animals
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.1	Intentional Use	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.2	Gathering terrestrial plants
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.2	Unintentional effects	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.2	Gathering terrestrial plants
5	Biological Resource Use	5.2	Gathering Terrestrial Plants	5.2.3	Persecution/Control	1	Resource Threats	1.4	Overharvesting of biological resources	1.4.2	Gathering terrestrial plants

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IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
5	Biological Resource Use	5-2	Gathering Terrestrial Plants	5-2-4	Motivation Unknown	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-2	Gathering terrestrial plants
5	Biological Resource Use	5-3	Logging and Wood Harvesting	5-3-1	Intentional Use (subsistence/small scale)	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2-1	Silviculture, logging and wood harvesting
5	Biological Resource Use	5-3	Logging and Wood Harvesting	5-3-2	Intentional Use (large scale)	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2-1	Silviculture, logging and wood harvesting
5	Biological Resource Use	5-3	Logging and Wood Harvesting	5-3-3	Unintentional effects (subsistence/small scale)	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2-1	Silviculture, logging and wood harvesting
5	Biological Resource Use	5-3	Logging and Wood Harvesting	5-3-4	Unintentional effects (large scale)	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2-1	Silviculture, logging and wood harvesting
5	Biological Resource Use	5-3	Logging and Wood Harvesting	5-3-5	Motivation Unknown	1	Resource Threats	1.2	Agriculture and aquaculture side effects	1.2-1	Silviculture, logging and wood harvesting
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-1	Intentional Use (subsistence/small scale)	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-2	Intentional Use (large scale)	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-3	Unintentional effects (subsistence/small scale)	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-4	Unintentional effects (large scale)	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-5	Persecution/Control	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
5	Biological Resource Use	5-4	Fishing and Harvesting of Aquatic Resources	5-4-6	Motivation Unknown	1	Resource Threats	1.4	Overharvesting of biological resources	1.4-3	Fishing and harvesting aquatic resources
6	Human Intrusions and Disturbance	6-1	Recreational Activities		List the specific activity		Not in TRACS		Not in TRACS		
6	Human Intrusions and Disturbance	6-2	War, Civil Unrest and Military Exercises		List the specific activity		Not in TRACS		Not in TRACS		
6	Human Intrusions and Disturbance	6-3	Work and Other Activities		List the specific activity		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7-1	Fire and Fire Suppression	7-1-1	Increase in Fire Frequency/Intensity		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7-1	Fire and Fire Suppression	7-1-2	Suppression of Fire Frequency/Intensity		Not in TRACS		Not in TRACS		

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IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
7	Natural Systems Modifications	7.1	Fire and Fire Suppression	7.1	Trend Unknown		Not in TRACS		Not in TRACS		TRACS Level 3
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Surface Water (domestic use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Large Dams		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Dams (size unknown)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Surface Water (commercial use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Surface Water (agricultural use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Surface Water (unknown use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Ground Water (domestic use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Ground Water (commercial use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Ground Water (agricultural use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Abstraction of Ground Water (unknown use)		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.2	Dams and Water Management/Use	7.2	Small Dams		Not in TRACS		Not in TRACS		
7	Natural Systems Modifications	7.3	Other Ecosystem Modifications		List the specific source of alteration		Not in TRACS		Not in TRACS		
8	Invasive and Other Problematic Species, Genes and Diseases	8.1	Invasive Non-native/Alien Species/Diseases	8.1	Unspecified Species	1	Resource Threats	1.5	Invasive and other problematic species and genes	1.5	Invasive non-native/alien species
8	Invasive and Other Problematic Species, Genes and Diseases	8.1	Invasive Non-native/Alien Species/Diseases	8.1	Named Species	1	Resource Threats	1.5	Invasive and other problematic species and genes	1.5	Invasive non-native/alien species
8	Invasive and Other Problematic Species, Genes and Diseases	8.2	Problematic Native Species/Diseases	8.2	Unspecified Species	1	Resource Threats	1.5	Invasive and other problematic species and genes	1.5	Problematic native species
8	Invasive and Other Problematic Species, Genes and Diseases	8.2	Problematic Native Species/Diseases	8.2	Named Species	1	Resource Threats	1.5	Invasive and other problematic species and genes	1.5	Problematic native species



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IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
8	Invasive and Other Problematic Species, Genes and Diseases	8. 3	Introduced Genetic Material		List the specific material or organism	1	Resource Threats	1.5	Invasive and other problematic species and genes	1.5 .3	Introduced genetic material
8	Invasive and Other Problematic Species, Genes and Diseases	8. 4	Problematic Species/Diseases of Unknown Origin	8. 4-1	Unspecified Species		Not in TRACS		Not in TRACS		
8	Invasive and Other Problematic Species, Genes and Diseases	8. 4	Problematic Species/Diseases of Unknown Origin	8. 4-2	Named Species		Not in TRACS		Not in TRACS		
8	Invasive and Other Problematic Species, Genes and Diseases	8. 5	Viral/Prion-induced Diseases	8. 5-1	Unspecified Species (Disease)		Not in TRACS		Not in TRACS		
8	Invasive and Other Problematic Species, Genes and Diseases	8. 5	Viral/Prion-induced Diseases	8. 5-2	Named Species (Disease)		Not in TRACS		Not in TRACS		
8	Invasive and Other Problematic Species, Genes and Diseases	8. 6	Diseases of Unknown Cause				Not in TRACS		Not in TRACS		
9	Pollution	9. 1	Domestic and Urban Waste Water	9. 1-1	Sewage		Not in TRACS		Not in TRACS		
9	Pollution	9. 1	Domestic and Urban Waste Water	9. 1-2	Run-off		Not in TRACS		Not in TRACS		
9	Pollution	9. 1	Domestic and Urban Waste Water	9. 1-3	Type Unknown		Not in TRACS		Not in TRACS		
9	Pollution	9. 2	Industrial and Military Effluents	9. 2-1	Oil Spills		Not in TRACS		Not in TRACS		
9	Pollution	9. 2	Industrial and Military Effluents	9. 2-2	Seepage from Mining		Not in TRACS		Not in TRACS		
9	Pollution	9. 2	Industrial and Military Effluents	9. 2-3	Type Unknown		Not in TRACS		Not in TRACS		
9	Pollution	9. 3	Agricultural and Forestry Effluents	9. 3-1	Nutrient Loads		Not in TRACS		Not in TRACS		
9	Pollution	9. 3	Agricultural and Forestry Effluents	9. 3-2	Soil Erosion and Sedimentation		Not in TRACS		Not in TRACS		
9	Pollution	9. 3	Agricultural and Forestry Effluents	9. 3-3	Herbicides and Pesticides		Not in TRACS		Not in TRACS		
9	Pollution	9. 3	Agricultural and Forestry Effluents	9. 3-4	Type Unknown		Not in TRACS		Not in TRACS		

APPENDIX 3: IUCN Conservation Issues and Ranking Criteria

IUCN L1 Code	IUCN Level 1	IUCN L2 Code	IUCN Level 2	IUCN L3 code	IUCN Level 3	TRACS L1 Code	TRACS Level 1	TRACS L2 Code	TRACS Level 2	TRACS L3 Code	TRACS Level 3
9	Pollution	9.4	Garbage and Solid Waste		List the type, source, and if possible, the specific pollutants of concern		Not in TRACS		Not in TRACS		
9	Pollution	9.5	Air-Bourne Pollutants	9.5-1	Acid Rain		Not in TRACS		Not in TRACS		
9	Pollution	9.5	Air-Bourne Pollutants	9.5-2	Smog		Not in TRACS		Not in TRACS		
9	Pollution	9.5	Air-Bourne Pollutants	9.5-3	Ozone		Not in TRACS		Not in TRACS		
9	Pollution	9.5	Air-Bourne Pollutants	9.5-4	Type Unknown		Not in TRACS		Not in TRACS		
9	Pollution	9.6	Excess Energy	9.6-1	Light Pollution		Not in TRACS		Not in TRACS		
9	Pollution	9.6	Excess Energy	9.6-2	Thermal Pollution		Not in TRACS		Not in TRACS		
9	Pollution	9.6	Excess Energy	9.6-3	Noise Pollution		Not in TRACS		Not in TRACS		
9	Pollution	9.6	Excess Energy	9.6-4	Type Unknown		Not in TRACS		Not in TRACS		
10	Geological Events	10.1	Volcanos		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Catastrophic geological events
10	Geological Events	10.2	Earthquake/Tsunamis		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Catastrophic geological events
10	Geological Events	10.3	Avalanches/Landslides		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Catastrophic geological events
11	Climate Change and Severe Weather	11.1	Habitat Shifting or Alteration		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Habitat shifting and alteration
11	Climate Change and Severe Weather	11.2	Droughts		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Droughts
11	Climate Change and Severe Weather	11.3	Temperature Extremes		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Temperature extremes
11	Climate Change and Severe Weather	11.4	Storms and Flooding		List the specific problem	1	Resource Threats	1.6	Climate change and severe weather	1.6	Storms and flooding