143 3 201	5 SWAP Opaale	Level 1									Level 1				
			Level 2	_			-			_		Level 2			
				Level 3									Level 3		
Threa	cal Species t Assessment: RTEBRATES	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	from nat'l	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
	Dwarf Wedgemussel	1	1	1	0	1	1	0	1	1	1	0	0	0	0
Freshwater	Triangle Floater	1	1	1	0	1	1	0	1	1	1	0	0	0	0
Mussels	Brook Floater	1	1	1	0	1	1	0	1	1	1	0	0	0	0
	Eastern Lampmussel	1	1	1	0	1	1	0	1	1	1	0	0	0	0
	Green Floater	1	1	1	0	1	1	0	1	1	1	0	0	0	0
Med/Large River Mussels	Yellow Lampmussel	1	1	1	0	1	1	0	1	1	1	0	0	0	0
	Northeastern Beach Tiger	2	2	2	0	1	1	0	2	2	0	0	0	0	0
Beach Tiger	Beetle Southeastern Beach Tiger														
Beetles	Beetle	2	2	2	0	1	1	0	2	2	0	0	0	0	0
	Little White Tiger Beetle	2	2	2	0	1	1	0	2	2	0	0	0	0	0
	American Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
	Ashton Cuckoo Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
	Rusty Patched Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
Bumble Bees	Southern Plains Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
	Variable Cuckoo Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
	Yellow Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
	Yellow-banded Bumble Bee	3	3	3	0	3	3	0	1	1	3	3	3	2	3
Forest															
Herbaceous	Papaipema harrisii	3	3	3	0	3	3	0	2	2	2	2	1	1	3
Feeding Moths															
	New England Bluet	2	2	2	0	2	2	0	1	1	1	1	1	0	0
Pond Odonates	Pine Barrens Bluet	2	2	2	0	2	2	0	1	1	1	1	1	0	0
	Scarlet Bluet	2	2	2	0	2	2	0	1	1	1	1	1	0	0
	Daecke's Pyralid Moth		2	2	0	2	2	0	1	2	2	1	1	1	1
	Buchholz'a Gray		2	2	0	2	2	0	1	2	2	1	1	1	1
	Sand Myrtle Looper/Pink		2	2	0	2	2	0	1	2	2	1	1	1	1
Pinelands Moths	A Notodontid Moth (H. varia)		2	2	0	2	2	0	1	2	2	1	1	1	1
	Carter's Noctuid Moth		2	2	0	2	2	0	1	2	2	1	1	1	1
	Pink Sallow	2	2	2	0	2	2	0	1	2	2	1	1	1	1
	Buchholz's Dart Moth	2	2	2	0	2	2	0	1	2	2	1	1	1	1
		3 = HIGH threa	it score												

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

	•	Level 1									Level 1				
			Level 2				_			_		Level 2			
				Level 3									Level 3		
		1. Residential and commercial development	1.1 Housing	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	industrial	nabitat to	1.2.2 Commercial development using materials that cause collision hazards	recreation	1.3.1 Land conversion from nat'l habitat to recreation or tourism areas (large & small scale)	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
	Arogos Skipper	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	Dotted Skipper	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	Frosted Elfin	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	Georgia Satyr	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	Hoary Elfin	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	Leonard's Skipper	3	3	3	0	3	3	0	2	3	3	3	3	1	3
No Grouping	Maritime Sunflower Borer Moth	3	3	3	0	3	3	0	2	3	3	3	3	1	3
	New Jersey Pine Barrens Tiger Beetle	3	3	3	0	3	3	0	2	2	2	1	1	0	1
	Northern Metalmark	3	3	3	0	3	3	0	2	2	2	1	1	1	1
	Robust Baskettail	3	3	3	0	3	3	0	2	2	2	1	2	1	1
	Septima's Clubtail	3	3	3	0	3	3	0	2	2	2	1	2	1	1
	Superb Jewelwing	3	3	3	0	3	3	0	2	2	2	1	2	1	1

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

											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/ Artisinal Aquaculture	2.4.2 Industrial Aquaculture	3 Energy Production and Mining	Gas Drilling	3.1.1 Drilling & distribution of petroleum & other liquid hydrocar- bons	fracturing & other natural	and Quarrying	3.2.2 Surface Mining - Rock Quarry	3.2.4 Sand Dredging (outside shipping lanes)
	Dwarf Wedgemussel	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
Freshwater	Triangle Floater	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
	Brook Floater	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
Mussels	Eastern Lampmussel	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
	Green Floater	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
Med/Large River Mussels	Yellow Lampmussel	0	0	0	1	1	1	1	1	2	1	2	3	3	2	2	0
Dooch tigar	Northeastern Beach Tiger Beetle	()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beach tiger beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Little White Tiger Beetle	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	American Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
	Ashton Cuckoo Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
	Rusty Patched Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
Bumble bees	Southern Plains Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
	Variable Cuckoo Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
	Yellow Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
	Yellow-banded Bumble Bee	1	1	1	1	1	2	0	1	0	0	0	0	0	1	2	0
Forest herbaceous feeding moths	Papaipema harrisii	3	2	3	1	1	1	0	0	0	0	0	0	0	1	2	0
	New England Bluet	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
Pond odonates	Pine Barrens Bluet		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	Scarlet Bluet		0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
	Daecke's Pyralid Moth	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
	Buchholz'a Gray		1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
	Sand Myrtle Looper/Pink	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
Pinelands moths	A Notodontid Moth (H. varia)	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
	Carter's Noctuid Moth	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
	Pink Sallow	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
	Buchholz's Dart Moth	1	1	1	0	0	1	0	0	0	0	0	0	0	1	1	0
		3 = HIGH thre	-+														

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

											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/ Artisinal Aquaculture	2.4.2 Industrial Aquaculture	3 Energy Production and Mining	Gas Drilling	& distribution of petroleum & other liquid	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)
	Arogos Skipper	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	Dotted Skipper	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	Frosted Elfin	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	Georgia Satyr	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	Hoary Elfin	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	Leonard's Skipper	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
No Grouping	Maritime Sunflower Borer Moth	1	1	1	2	1	3	0	0	0	1	0	0	0	1	1	0
	New Jersey Pine Barrens Tiger Beetle	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0
	Northern Metalmark	1	1	1	1	1	1	0	0	0	1	0	0	0	1	1	0
	Robust Baskettail	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0
	Septima's Clubtail	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0
	Superb Jewelwing	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0

^{3 =} HIGH threat score

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^{1 =} LOW threat score

^{0 =} Not applicable

					_	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 Transporta- tion 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 Manage- ment 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
	Dwarf Wedgemussel		0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
Freshwater	Triangle Floater		0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
Mussels	Brook Floater		0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
	Eastern Lampmussel		0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
	Green Floater	0	0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
Med/Large River Mussels	Yellow Lampmussel		0	0	2	1	1	1	0	1	1	0	0	0	2	0	0
	Northeastern Beach Tiger	()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beach tiger beetles	Beetle Southeastern Beach Tiger Beetle		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Little White Tiger Beetle		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Bumble Bee		2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
	Ashton Cuckoo Bumble Bee		2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
	Rusty Patched Bumble Bee	2	2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
Bumble bees	Southern Plains Bumble Bee		2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
	Variable Cuckoo Bumble Bee	2	2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
	Yellow Bumble Bee	2	2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
	Yellow-banded Bumble Bee	2	2	2	0	2	2	2	0	1	1	3	0	0	0	0	0
Forest																	
herbaceous	Papaipema harrisii	1	1	2	0	2	2	2	0	1	1	1	0	0	0	0	0
feeding moths																	
	New England Bluet	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0
Pond odonates	Pine Barrens Bluet	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0
	Scarlet Bluet	0	0	0	0	1	1	1	0	1	1	1	0	0	0	0	0
	Daecke's Pyralid Moth	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Buchholz'a Gray	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Sand Myrtle Looper/Pink	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
Pinelands moths	A Notodontid Moth (H. varia)	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Carter's Noctuid Moth	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Pink Sallow	0	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Buchholz's Dart Moth	0 2 = UICH +bro	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

						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 Transporta- tion 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 Manage- ment 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
	Arogos Skipper	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	Dotted Skipper	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	Frosted Elfin	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	Georgia Satyr	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	Hoary Elfin	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	Leonard's Skipper	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
No Grouping	Maritime Sunflower Borer Moth	0	0	1	0	1	1	1	0	1	1	3	0	0	0	0	0
	New Jersey Pine Barrens Tiger Beetle	()	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0
	Northern Metalmark	0	0	1	0	1	1	1	1	1	1	2	0	0	0	0	0
	Robust Baskettail	0	0	1	0	1	1	1	1	1	1	0	0	0	2	0	0
	Septima's Clubtail	0	0	1	0	1	1	1	1	1	1	0	0	0	2	0	0
	Superb Jewelwing	0	0	1	0	1	1	1	1	1	1	0	0	0	2	0	0

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^{0 =} Not applicable

		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 Unintention al 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/s mall scale)	Intentional	5.3.3 Unintentional effects (subsistence/small scale)	5.3.4 Uninten- tional effects (large scale)
	Dwarf Wedgemussel	0	0	1	0	0	0	0	0	0	1	1	1	1	1
Freshwater	Triangle Floater	0	0	1	0	0	0	0	0	0	1	1	1	1	1
Mussels	Brook Floater	0	0	1	0	0	0	0	0	0	1	1	1	1	1
iviusseis	Eastern Lampmussel	0	0	1	0	0	0	0	0	0	1	1	1	1	1
	Green Floater	0	0	1	0	0	0	0	0	0	1	1	1	1	1
Med/Large River Mussels	Yellow Lampmussel		0	1	0	0	0	0	0	0	1	1	1	1	1
Beach tiger	Northeastern Beach Tiger Beetle	()	0	1	0	0	0	0	0	0	0	0	0	0	0
beetles	Southeastern Beach Tiger Beetle	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Little White Tiger Beetle	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	American Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
	Ashton Cuckoo Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
	Rusty Patched Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
Bumble bees	Southern Plains Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
	Variable Cuckoo Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
	Yellow Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
	Yellow-banded Bumble Bee	0	0	1	0	3	0	0	1	3	1	0	1	0	0
Forest herbaceous feeding moths	Papaipema harrisii	0	0	1	0	2	0	1	1	3	3	2	3	2	3
	New England Bluet	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Pond odonates	Pine Barrens Bluet		0	1	0	1	0	0	0	0	0	0	0	0	0
	Scarlet Bluet		0	1	0	1	0	0	0	0	0	0	0	0	0
	Daecke's Pyralid Moth		0	1	0	1	0	0	0	0	2	2	2	1	2
	Buchholz'a Gray	0	0	1	0	1	0	0	0	0	2	2	2	1	2
	Sand Myrtle Looper/Pink	0	0	1	0	1	0	0	0	0	2	2	2	1	2
Pinelands moths	A Notodontid Moth (H. varia)	0	0	1	0	1	0	0	0	0	2	2	2	1	2
	Carter's Noctuid Moth	0	0	1	0	1	0	0	0	0	2	2	2	1	2
	Pink Sallow	0	0	1	0	1	0	0	0	0	2	2	2	1	2
	Buchholz's Dart Moth	0	0	1	0	1	0	0	0	0	2	2	2	1	2
		3 = HIGH thre	+												

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^{0 =} Not applicable

		Level 1													
			Level 2			_		_				_			
				Level 3											
		5 Biological Resource Use	5.1 Hunting and Collecting Terrestrial Animals	5.1.1	5.1.2 Unintention al 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	Intentional	Intentional	5.3.3 Unintentional effects (subsistence/small scale)	Uninten-
	Arogos Skipper	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	Dotted Skipper	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	Frosted Elfin	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	Georgia Satyr	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	Hoary Elfin	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	Leonard's Skipper	0	0	1	0	1	0	0	0	2	1	1	1	1	1
No Grouping	Maritime Sunflower Borer Moth	0	0	1	0	1	0	0	0	2	1	1	1	1	1
	New Jersey Pine Barrens Tiger Beetle	0	0	1	0	0	0	0	0	0	1	1	1	1	1
	Northern Metalmark	0	0	1	0	0	0	0	0	1	1	1	1	1	1
	Robust Baskettail	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	Septima's Clubtail	1	1	1	0	0	0	0	0	0	0	0	0	0	0
	Superb Jewelwing	1	1	1	0	0	0	0	0	0	0	0	0	0	0

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

Level 2 Level 3 Leve									Level 1									
S.4 Fishing and Harvesting Intentional Use and Harvesting Intentional Use (aubsistence/ small scale) S.4.2 S.4.3 Unintentional Use (aubsistence/ small scale) S.4.2 S.4.3 Unintentional effects (aubsistence/ small scale) S.4.2 S.4.3 Unintentional effects (aubsistence/ small scale) S.4.2 S.4.3 Unintentional effects (aubsistence/ small scale) S.4.2 S.4.3 Unintentional use of of Aquatric Resources S.4.2 (aubsistence/ small scale) S.4.2 S.4.3 Unintentional effects (aubsistence/ small scale) S.4.2 S.4.3 Unintentional use of of Aquatric Resources S.4.2 (aubsistence/ small scale) S.4.2 S.4.3 Unintentional effects (aubsistence/ small scale) S.4.3 Un				_						Level 2	_							_
Sample S											Level 3							
Triangle Floater			and Harvesting of Aquatic	5.4.1 Intentional Use (subsistence/	Intentional Use (large	tional effects (subsistence/	Uninten- tional effects (large	Persecution/	Intrusions and	Recreational	road vehicles (motorized & non-		of	Exploration of caves/	observation and	Recreation- al use of cliffs, rocks and	-	Military
Preshwater Mussels Brook Floater Brook Floater Fastern Lampmussel 1			1	1	1	0	0	0	1	1	2	0	0	0	0	0	0	0
Mussels Brook Floater 1	Freshwater		1	1	1	0	0	0	1	1	2	0	0	0	0	0	0	0
Eastern Lampnusse			1	1	1	0	0	0	1	1	2	0	0	0	0	0	0	
Med/Large River Mussels	141433613	•	1	1	1	0	0	0	1	1	2	0	0	0	0	0	0	0
Mussels Vellow Lampmussel 1		Green Floater	1	1	1	0	0	0	1	1	2	0	0	0	0	0	0	0
Beach tiger Southeastern Beach Tiger Beetle Southeastern Beach Tiger Beetle Southeastern Beach Tiger Beetle O O O O O O O O O O O O O O O O O O	_	·	1	1	1	1	0	0	1	1	2	0	0	0	0	0	0	0
Beach tiger Southeastern Beach Tiger Beetle Southeastern Beach Tiger Beetle Deetles Deetles			0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0
Southeastern Beach Tiger Southeastern Beach Tiger Beetle Dittle White Tiger Be	Beach tiger		Ü	Ŭ	Ü	Ŭ	· ·	Ü	3	J	_	Ü	J	Ŭ	Ü	· ·	Ü	· ·
American Bumble Bee 0 0 0 0 0 0 0 2 2 2	_	Beetle	0		0			0	3			0	0	0	0	0		
Ashton Cuckoo Bumble Bee		-			0			0	3	3		0	0	0	0	0	2	
Bumble bees Rusty Patched Bumble Bee 0			0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	
Bumble bees Southern Plains Bumble Bee 0 0 0 0 0 2 2 2 2 0 0 0 0 0 0 Variable Cuckoo Bumble Bee 0			0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Variable Cuckoo Bumble Bee 0 0 0 0 2 2 2 0 0 0 0 0 0			0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
	Bumble bees		0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Yellow Bumble Bee 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
			0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Yellow-banded Bumble Bee 0 0 0 0 2 2 2 0 0 0 0 0 0		Yellow-banded Bumble Bee	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Forest																		
herbaceous Papaipema harrisii 0 0 0 0 0 2 2 2 0 0 0 0 0 0		Papaipema harrisii	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
feeding moths	feeding moths																	
New England Bluet 0		New England Bluet	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Pond odonates Pine Barrens Bluet 0 <th< th=""><th>Pond odonates</th><th>Pine Barrens Bluet</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>2</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th><th>0</th></th<>	Pond odonates	Pine Barrens Bluet	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Scarlet Bluet 0 <		Scarlet Bluet	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Daecke's Pyralid Moth 0 0 0 0 2 2 2 0 0 0 0 0 0		•		0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Buchholz'a Gray 0 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0		Buchholz'a Gray	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Sand Myrtle Looper/Pink 0 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0		Sand Myrtle Looper/Pink	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Pinelands moths A Notodontid Moth (H. varia) 0	Pinelands moths	A Notodontid Moth (H. varia)	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Carter's Noctuid Moth 0 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0		Carter's Noctuid Moth	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Pink Sallow 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0		Pink Sallow	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
Buchholz's Dart Moth 0 0 0 0 0 0 2 2 2 0 0 0 0 0 0 0		Buchholz's Dart Moth	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

								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	al use of cliffs, rocks	6.2 Military Exercises	6.2.1 Military exercises
	Arogos Skipper		0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Dotted Skipper	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Frosted Elfin	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Georgia Satyr	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Hoary Elfin	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Leonard's Skipper	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
No Grouping	Maritime Sunflower Borer Moth	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	New Jersey Pine Barrens Tiger Beetle	()	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Northern Metalmark	0	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0
	Robust Baskettail	1	1	1	0	1	0	2	2	2	0	0	0	0	0	0	0
	Septima's Clubtail	1	1	1	0	1	0	2	2	2	0	0	0	0	0	0	0
	Superb Jewelwing	1	1	1	0	1	0	2	2	2	0	0	0	0	0	0	0

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

						Level 1											
			_				Level 2	_			_						
				_				Level 3									
		6.3 Work and Other Activities	6.3.1 Unauthorized research projects at significant habitats	research projects at	6.3.3 Other "work" unrelated to research	7 Natural Systems Modifica- tions	7.1 Fire and Fire Suppression	7.1.1 Increase in Fire Frequency/ Intensity	of Fire	7.2 Dams and Water Manage- ment/ 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
	Dwarf Wedgemussel		1	1	1	1	0	0	0	2	2	3	3	2	3	3	3
Freshwater	Triangle Floater		1	1	1	1	0	0	0	2	2	3	3	2	3	3	3
Mussels	Brook Floater	1	1	1	1	1	0	0	0	2	2	3	3	2	3	3	3
	Eastern Lampmussel	1	1	1	1	1	0	0	0	2	2	3	3	2	3	3	3
24 1/1 2:	Green Floater	1	1	1	1	1	0	0	0	2	2	3	3	2	3	3	3
Med/Large River Mussels	Yellow Lampmussel		1	1	1	1	0	0	0	2	2	3	3	2	3	2	3
Basah diasa	Northeastern Beach Tiger Beetle		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beach tiger beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Little White Tiger Beetle		0	0	0	2	2	1	2	0	0	0	0	0	0	0	0
	American Bumble Bee	-	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
	Ashton Cuckoo Bumble Bee	-	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
	Rusty Patched Bumble Bee		0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
Bumble bees	Southern Plains Bumble Bee		0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
	Variable Cuckoo Bumble Bee		0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
	Yellow Bumble Bee	-	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
	Yellow-banded Bumble Bee	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
Forest			6	_		•						^	6	_			0
herbaceous	Papaipema harrisii	0	0	0	0	2	2	2	2	0	0	0	0	0	0	0	0
feeding moths	Navy Franka ad Divert	0			0				4	2	2	2	2	2	2	2	1
Pond odonates	New England Bluet Pine Barrens Bluet		0 0	0	0	1 1	1 1	1 1	1 1	2 2	2	2	2	2	2	2	1
Polid odoliates	Scarlet Bluet		0	0	0	1		1	1	2	2	2	2	2	2	2	1
	Daecke's Pyralid Moth		0	0	0	3	3	3	3	0	0	0	0	1	1	1	0
	Buchholz'a Gray		0	n	0	3	3	3	3	0	0	0	0	1	1	1	0
	Sand Myrtle Looper/Pink		0	0	0	3	3	3	3	0	0	n	0	1	1	1	0
Pinelands moths	A Notodontid Moth (H. varia)		0	0	0	3	3	3	3	0	0	0	0	1	1	1	0
	Carter's Noctuid Moth		0	0	0	3	3	3	3	0	0	0	0	1	1	1	0
	Pink Sallow		0	0	0	3	3	3	3	0	0	0	0	1	1	1	0
	Buchholz's Dart Moth	0	0	0	0	3	3	3	3	0	0	0	0	1	1	1	0
1		2 = UICU +br								-							

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

						Level 1											
							Level 2				r						
								Level 3									
		6.3 Work and Other Activities	6.3.1 Unauthorized research projects at significant habitats	6.3.2 Authorized research projects at significant habitats	"work"	7 Natural Systems Modifica- tions	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 Manage- ment/ Use	7.2.1 Abstraction of Surface Water (domestic use)	OT SHITTACE	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)		7.2.9 Small Dams
	Arogos Skipper	0	0	0	0	3	3	3	3	0	0	0	0	0	2	2	0
	Dotted Skipper	0	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0
	Frosted Elfin	0	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0
	Georgia Satyr	0	0	0	0	3	3	3	3	0	0	0	0	0	2	2	0
	Hoary Elfin	0	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0
	Leonard's Skipper	0	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0
No Grouping	Maritime Sunflower Borer Moth	()	0	0	0	3	2	2	2	0	0	0	0	0	0	0	0
	New Jersey Pine Barrens Tiger Beetle	()	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0
	Northern Metalmark	0	0	0	0	3	1	1	1	0	0	0	0	0	0	0	0
	Robust Baskettail	0	0	0	0	3	0	0	0	3	3	3	3	3	3	3	3
	Septima's Clubtail	0	0	0	0	3	0	0	0	3	3	3	3	3	3	3	3
	Superb Jewelwing	0	0	0	0	3	0	0	0	3	3	3	3	3	3	3	3

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

									•				
		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 Manage- ment	7.3 Other Ecosystem Modifica- tions	7.3.1 Shoreline Stabiliza- tion	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 manage- ment
	Dwarf Wedgemussel	3	3	2	1	2	1	1	1	0	1	1	2
Fueshineten	Triangle Floater	3	3	2	1	2	1	1	1	0	1	1	2
Freshwater	Brook Floater	3	3	2	1	2	1	1	1	0	1	1	2
Mussels	Eastern Lampmussel	3	3	2	1	2	1	1	1	0	1	1	2
	Green Floater	3	3	2	1	2	1	1	1	0	1	1	2
Med/Large River Mussels	Yellow Lampmussel	3	3	2	1	2	1	1	1	0	1	1	2
Beach tiger	Northeastern Beach Tiger Beetle	0	0	0	0	0	0	2	2	0	0	0	0
beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	0	2	2	0	0	0	0
	Little White Tiger Beetle		0	0	0	0	0	2	2	0	0	0	0
	American Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
	Ashton Cuckoo Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
	Rusty Patched Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
Bumble bees	Southern Plains Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
	Variable Cuckoo Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
	Yellow Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
	Yellow-banded Bumble Bee	0	0	0	0	0	0	3	0	3	0	1	3
Forest													
herbaceous	Papaipema harrisii	0	0	0	0	0	0	0	0	0	0	0	3
feeding moths													
	New England Bluet	1	1	0	0	2	0	0	0	1	0	0	2
Pond odonates	Pine Barrens Bluet	1	1	0	0	2	0	0	0	1	0	0	2
	Scarlet Bluet	1	1	0	0	2	0	0	0	1	0	0	2
	Daecke's Pyralid Moth	0	0	0	0	0	0	0	0	1	0	0	2
	Buchholz'a Gray	0	0	0	0	0	0	0	0	1	0	0	2
	Sand Myrtle Looper/Pink	0	0	0	0	0	0	0	0	1	0	0	2
Pinelands moths	A Notodontid Moth (H. varia)	0	0	0	0	0	0	0	0	1	0	0	2
	Carter's Noctuid Moth	0	0	0	0	0	0	0	0	1	0	0	2
	Pink Sallow	0	0	0	0	0	0	0	0	1	0	0	2
<u> </u>	Buchholz's Dart Moth	0	0	0	0	0	0	0	0	1	0	0	2

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

	_												
		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 Manage- ment	7.3 Other Ecosystem Modifica- tions	7.3.1 Shoreline Stabiliza- tion	7.3.2 Inappropriate	7.3.3 Removal of coarse woody debris (streams, forests, scrub- shrub habitats)	disturbance patterns or ecosystem	7.3.5 Poor habitat manage- ment
	Arogos Skipper	0	0	0	0	0	0	0	0	3	0	0	3
	Dotted Skipper	0	0	0	0	0	0	0	0	3	0	0	3
	Frosted Elfin	0	0	0	0	0	0	0	0	3	0	0	3
	Georgia Satyr	0	0	0	0	0	0	0	0	3	0	0	3
	Hoary Elfin	0	0	0	0	0	0	0	0	3	0	0	3
	Leonard's Skipper	0	0	0	0	0	0	0	0	3	0	0	3
No Grouping	Maritime Sunflower Borer Moth	0	0	0	0	0	0	0	0	3	0	0	3
	New Jersey Pine Barrens Tiger Beetle	0	0	0	0	0	0	0	0	1	0	0	3
	Northern Metalmark	0	0	0	0	0	0	0	0	3	0	0	3
	Robust Baskettail	3	3	0	3	3	1	0	0	0	0	0	2
	Septima's Clubtail	3	3	0	3	3	0	0	0	0	0	0	2
	Superb Jewelwing	3	3	0	3	3	0	0	0	0	0	0	2

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

									INLAT CATEGO	-						
		Level 1	1													
			Level 2	Level 3												
				Level 3												
		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	Invasive non- native aquatic plants	etland animals	native terrestrial/w etland plants	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
	Dwarf Wedgemussel	2	3	2	2	2	0	1	1	1	1	1	1	1	1	1
Freshwater	Triangle Floater	2	3	2	2	2	0	1	0	1	1	1	1	1	1	1
Mussels	Brook Floater	2	3	2	2	2	0	1	0	1	1	1	1	1	1	1
	Eastern Lampmussel	2	3	2	2	2	0	1	0	1	1	1	1	1	1	1
	Green Floater	2	3	2	2	2	0	1	1	1	1	1	1	1	1	1
Med/Large River Mussels	Yellow Lampmussel	2	3	2	2	2	0	1	1	1	1	1	1	1	1	1
Beach tiger	Northeastern Beach Tiger Beetle	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Little White Tiger Beetle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	American Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
	Ashton Cuckoo Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
	Rusty Patched Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
Bumble bees	Southern Plains Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
	Variable Cuckoo Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
	Yellow Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
	Yellow-banded Bumble Bee	2	2	2	0	0	1	0	0	0	0	0	2	2	2	1
Forest																
herbaceous	Papaipema harrisii	3	3	3	0	0	2	3	0	0	0	3	0	2	2	1
feeding moths																
	New England Bluet	2	2	1	2	2	1	2	0	0	0	0	0	1	1	0
Pond odonates	Pine Barrens Bluet		2	1	2	2	1	2	0	0	0	0	0	1	1	0
	Scarlet Bluet	2	2	1	2	2	1	2	0	0	0	0	0	1	1	0
	Daecke's Pyralid Moth	1	1	1	0	0	2	0	0	2	1	1	0	1	1	0
	Buchholz'a Gray	1	1	1	0	0	2	0	0	2	1	1	0	1	1	0
Pinelands moths	Sand Myrtle Looper/Pink	1	1	1	0	0	2	0	0	2	1	1	0	1	1	0
Filleratios moths	A Notodontid Moth (H. varia) Carter's Noctuid Moth	1	1	1	0	0	2	0	1	2	1	1	0	1	1	0
	Pink Sallow	1	1	1	0	0	2 2	0	1	2	1	1	0	1	1	0
	Buchholz's Dart Moth	1	1	1	0	0	2	0 0	1	2	1	1	0	1	1	0
	DUCHHOLZ S Dart MOth	1	1	1	U	U		U	1	2	1	1	0	Т	1	U

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

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			Level 2													
				Level 3												
		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	native	8.1.5 Invasive non- native terrestrial/w etland plants	native	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
	Arogos Skipper		2	1	0	0	2	0	1	1	0	1	0	1	1	0
	Dotted Skipper	2	2	1	0	0	2	0	1	1	0	1	0	1	1	0
	Frosted Elfin	2	2	1	0	0	2	0	1	1	0	1	0	1	1	0
	Georgia Satyr	2	2	1	0	0	2	0	1	1	0	1	0	1	1	0
	Hoary Elfin	2	2	1	0	0	2	0	0	1	0	1	0	1	1	0
	Leonard's Skipper	2	2	1	0	0	2	0	0	1	0	1	0	1	1	0
No Grouping	Maritime Sunflower Borer Moth	2	2	1	0	0	2	0	3	1	0	1	0	1	1	0
	New Jersey Pine Barrens Tiger Beetle	1	1	1	0	0	1	0	3	1	0	0	0	0	0	0
	Northern Metalmark	3	3	1	0	0	2	0	3	1	0	2	0	1	1	0
	Robust Baskettail	1	1	1	0	0	0	2	1	1	0	0	0	0	0	0
	Septima's Clubtail	1	1	1	0	0	0	2	0	1	0	0	0	0	0	0
	Superb Jewelwing	1	1	1	0	0	0	2	1	1	0	0	0	0	0	0

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^{0 =} Not applicable

						Level 1										
			-				Level 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
	Dwarf Wedgemussel	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
Freshwater	Triangle Floater	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
Mussels	Brook Floater	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
IVIUSSEIS	Eastern Lampmussel	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
	Green Floater	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
Med/Large River	Yellow Lampmussel	1	1	1	1	2	2	2	2	1	2	3	2	3	3	0
Mussels																<u> </u>
Beach tiger	Northeastern Beach Tiger Beetle	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
beetles	Southeastern Beach Tiger Beetle	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Little White Tiger Beetle	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	American Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
	Ashton Cuckoo Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
	Rusty Patched Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
Bumble bees	Southern Plains Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
	Variable Cuckoo Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
	Yellow Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
	Yellow-banded Bumble Bee	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
Forest herbaceous feeding moths	Papaipema harrisii	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
3	New England Bluet	0	0	0	0	1	2	2	2	0	2	1	0	1	1	0
Pond odonates	Pine Barrens Bluet		0	0	0	1	2	2	2	0	2	1	0	1	1	0
	Scarlet Bluet		0	0	0	1	2	2	2	0	2	1	0	1	1	0
	Daecke's Pyralid Moth	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Buchholz'a Gray		0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Sand Myrtle Looper/Pink		0	0	0	1	0	0	0	0	1	0	0	1	0	0
Pinelands moths	A Notodontid Moth (H. varia)	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Carter's Noctuid Moth	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Pink Sallow		0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Buchholz's Dart Moth	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
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^{1 =} LOW threat score

^{0 =} Not applicable

						Level 1										
							Level 2					_				
								Level 3								
		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:	9.2.5 Other: Industrial toxic settling ponds
	Arogos Skipper	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Dotted Skipper	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Frosted Elfin	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Georgia Satyr	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Hoary Elfin	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Leonard's Skipper	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
No Grouping	Maritime Sunflower Borer Moth	()	0	0	0	1	0	0	0	0	1	0	0	1	0	0
	New Jersey Pine Barrens Tiger Beetle		0	0	0	1	0	0	0	0	1	0	0	1	0	0
	Northern Metalmark	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
	Robust Baskettail	0	0	0	0	3	3	3	3	0	3	3	0	3	1	0
	Septima's Clubtail	0	0	0	0	3	3	3	3	0	3	3	0	3	1	0
	Superb Jewelwing	0	0	0	0	3	3	3	3	0	3	3	0	3	1	0

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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	of insect pests & plants leading to	9.3.5 Control of insect pests and plants leading to mortality of nontarget 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)
	Dwarf Wedgemussel	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
Freshwater	Triangle Floater	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
	Brook Floater	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
Mussels	Eastern Lampmussel	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
<u> </u>	Green Floater	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
Med/Large River Mussels	Yellow Lampmussel	2	2	2	2	1	1	1	2	0	1	1	0	0	1	2
Beach tiger	Northeastern Beach Tiger Beetle	()	0	0	0	0	0	0	0	0	0	1	0	0	0	0
beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Little White Tiger Beetle		0	0	0	0	0	0	0	0	0	1	0	0	0	0
	American Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Ashton Cuckoo Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Rusty Patched Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
Bumble bees	Southern Plains Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Variable Cuckoo Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Yellow Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Yellow-banded Bumble Bee	3	0	0	3	0	3	0	0	1	1	1	0	0	0	3
Forest																
herbaceous	Papaipema harrisii	1	0	0	3	0	3	0	0	1	1	1	0	0	0	3
feeding moths																
	New England Bluet	2	2	2	3	0	3	0	0	1	1	1	0	0	0	3
Pond odonates	Pine Barrens Bluet	2	2	2	3	0	3	0	0	1	1	1	0	0	0	3
	Scarlet Bluet		2	2	3	0	3	0	0	1	1	1	0	0	0	3
	Daecke's Pyralid Moth	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Buchholz'a Gray		0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Sand Myrtle Looper/Pink		0	0	3	0	3	0	0	1	1	1	0	0	0	3
Pinelands moths	A Notodontid Moth (H. varia)		0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Carter's Noctuid Moth		0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Pink Sallow		0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Buchholz's Dart Moth	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3

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		9.3 Agricultural and Forestry Effluents	9.3.1 Nutrient loads	9.3.2 Soil erosion and sedimenta- tion	uzz	of insect pests & plants leading to	9.3.5 Control of insect pests and plants leading to mortality of nontarget 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)
	Arogos Skipper	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Dotted Skipper	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Frosted Elfin	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Georgia Satyr	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Hoary Elfin		0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Leonard's Skipper		0	0	3	0	3	0	0	1	1	1	0	0	0	3
No Grouping	Maritime Sunflower Borer Moth	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	New Jersey Pine Barrens Tiger Beetle	0	0	0	2	0	2	0	0	1	1	1	0	0	0	2
	Northern Metalmark	0	0	0	3	0	3	0	0	1	1	1	0	0	0	3
	Robust Baskettail	2	3	3	3	0	3	0	0	1	1	2	0	0	0	3
	Septima's Clubtail	2	3	3	3	0	3	0	0	1	1	2	0	0	0	3
	Superb Jewelwing	2	3	3	3	0	3	0	0	1	1	2	0	0	0	3

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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 Tempera- ture Extremes	11.3.1 Tempera- ture 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
	Dwarf Wedgemussel	0	0	2	0	0	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1
Freshwater	Triangle Floater	0	0	2	0	0	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1
Mussels	Brook Floater	0	0	2	0	0	2	2	3	3	3	3	3	1	2	1	1	1	1	1	1
141033613	Eastern Lampmussel		0	2	0	0	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1
	Green Floater	0	0	2	0	0	2	2	3	3	3	3	3	1	2	1	1	1	1	1	1
Med/Large River Mussels	Yellow Lampmussel		0	2	0	0	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1
Booch times	Northeastern Beach Tiger Beetle	. ()	0	0	0	0	3	0	0	0	0	0	0	3	3	1	3	0	0	0	0
Beach tiger beetles	Southeastern Beach Tiger Beetle	0	0	0	0	0	3	0	0	0	0	0	0	3	3	1	3	0	0	0	0
	Little White Tiger Beetle		0	0	0	0	3	0	0	0	0	0	0	3	3	1	3	0	0	0	0
	American Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
	Ashton Cuckoo Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
	Rusty Patched Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
Bumble bees	Southern Plains Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
	Variable Cuckoo Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
	Yellow Bumble Bee		0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
	Yellow-banded Bumble Bee	0	0	0	0	0	3	3	2	2	2	2	1	0	0	0	0	1	1	0	0
Forest herbaceous	Papaipema harrisii	0	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	2	1	0	0
feeding moths																					
	New England Bluet		0	0	0	0	3	3	2	2	1	1	1	1	1	1	0	0	0	0	0
Pond odonates	Pine Barrens Bluet		0	0	0	0	3	3	2	2	1	1	1	1	1	1	0	0	0	0	0
	Scarlet Bluet		0	0	0	0	3	3	2	2	1	1	1	1	1	1	0	0	0	0	0
	Daecke's Pyralid Moth		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Buchholz'a Gray	1	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Sand Myrtle Looper/Pink		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
Pinelands moths	A Notodontid Moth (H. varia)		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Carter's Noctuid Moth		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Pink Sallow		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Buchholz's Dart Moth	0	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

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							11		Level 3												
			9.6.1 Light Pollution	9.6.2 Thermal Pollution	9.6.3 Noise Pollution	9.6.4 Other	Climate Change and	11.1 Habitat Shifting or Alteration	11.1.1 Sea- level Rise	11.2 Droughts	11.2.1 Droughts	11.3 Tempera- ture 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
	Arogos Skipper	-	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Dotted Skipper		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Frosted Elfin		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Georgia Satyr	-	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Hoary Elfin		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	Leonard's Skipper		0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
No Grouping	Maritime Sunflower Borer Moth	0	0	0	0	0	3	3	2	2	1	1	1	0	0	0	0	1	1	0	1
	New Jersey Pine Barrens Tiger Beetle	0	0	0	0	0	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0
	Northern Metalmark	0	0	0	0	0	3	3	1	1	1	1	1	0	0	0	0	1	1	0	1
	Robust Baskettail	0	0	0	0	0	3	3	3	3	2	2	1	3	3	2	3	0	0	0	1
	Septima's Clubtail	0	0	0	0	0	3	3	3	3	2	2	1	3	3	2	1	0	0	0	1
	Superb Jewelwing	0	0	0	0	0	3	3	3	3	2	2	1	3	3	2	1	0	0	0	1

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

ACTION DRIVERS

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		Level 1	1					Level 1	Ī			
			Level 2	i					Level 2	, ,		•
				Level 3						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		12.1.4 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
	Dwarf Wedgemussel	1	1	2	2	1	1	1	1	2	1	1
Freshwater	Triangle Floater	1	1	2	2	1	1	1	1	2	1	1
Mussels	Brook Floater	1	2	2	2	1	1	1	1	2	1	1
141033613	Eastern Lampmussel	1	2	2	2	1	1	1	1	2	1	1
	Green Floater	1	2	2	2	1	1	1	1	2	1	1
Med/Large River Mussels	Yellow Lampmussel	1	1	2	2	1	1	1	1	2	1	1
Beach tiger	Northeastern Beach Tiger Beetle	2	2	3	3	2	2	2	2	2	2	2
beetles	Southeastern Beach Tiger Beetle		2	3	3	2	2	2	2	2	2	2
	Little White Tiger Beetle		2	3	3	2	2	2	2	2	2	2
	American Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
	Ashton Cuckoo Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
	Rusty Patched Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
Bumble bees	Southern Plains Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
	Variable Cuckoo Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
	Yellow Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
	Yellow-banded Bumble Bee	3	3	3	3	3	3	3	3	3	3	3
Forest herbaceous feeding moths	Papaipema harrisii	3	3	3	3	3	3	3	3	3	3	3
	New England Bluet	3	3	3	3	3	3	3	3	3	3	3
Pond odonates	Pine Barrens Bluet	3	3	3	3	3	3	3	3	3	3	3
	Scarlet Bluet	3	3	3	3	3	3	3	3	3	3	3
	Daecke's Pyralid Moth	3	3	3	3	3	3	3	3	3	3	3
	Buchholz'a Gray	3	3	3	3	3	3	3	3	3	3	3
	Sand Myrtle Looper/Pink	3	3	3	3	3	3	3	3	3	3	3
Pinelands moths	A Notodontid Moth (H. varia)	3	3	3	3	3	3	3	3	3	3	3
	Carter's Noctuid Moth	3	3	3	3	3	3	3	3	3	3	3
	Pink Sallow	3	3	3	3	3	3	3	3	3	3	3
	Buchholz's Dart Moth	3	3	3	3	3	3	3	3	3	3	3

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable

ACTION DRIVERS

		Level 1						Level 1				
			Level 2						Level 2			
				Level 3						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		12.1.4 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
	Arogos Skipper	3	3	3	3	3	3	3	3	3	3	3
	Dotted Skipper	3	3	3	3	3	3	3	3	3	3	3
	Frosted Elfin	3	3	3	3	3	3	3	3	3	3	3
	Georgia Satyr	3	3	3	3	3	3	3	3	3	3	3
	Hoary Elfin	3	3	3	3	3	3	3	3	3	3	3
	Leonard's Skipper	3	3	3	3	3	3	3	3	3	3	3
No Grouping	Maritime Sunflower Borer Moth	3	3	3	3	3	3	3	3	3	3	3
	New Jersey Pine Barrens Tiger Beetle	1 3	3	3	3	3	3	3	3	3	3	3
	Northern Metalmark	3	3	3	3	3	3	3	3	3	3	3
	Robust Baskettail	3	3	3	3	3	3	3	3	3	3	3
	Septima's Clubtail	3	3	3	3	3	3	3	3	3	3	3
	Superb Jewelwing	3	3	3	3	3	3	3	3	3	3	3

^{3 =} HIGH threat score

^{2 =} MODERATE threat score

^{1 =} LOW threat score

^{0 =} Not applicable