

## **State Wildlife Action Plan** (SWAP) 2015

- 1. distribution and abundance of wildlife species (referred to as SGCNs) indicative of diversity and health of wildlife in the state
- 2. location and relative condition of key habitats essential to SGCNs
- problems affecting SGCNs and their habitat and priority information needs for successful management/restoration of same
- 4. actions necessary to conserve SGCN and their habitats
- 5. provisions for monitoring SGCN and habitats as well as effectiveness of conservation actions
- 6. provisions to review the SWAP in 10 years
- 7. provisions for broad coordination among agencies during writing and revising the SWAP
- 8. provisions for necessary public participation in writing and revising the SWAP



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### SWAP Species of Greatest Conservation Need (SGCN) Profiles

### DRAFT Rhode Island Wildlife Action Plan Species Profiles Species of Greatest Conservation Need

# Northern Leopard Frog Lithobates pipiens Lithobates pipiens Resp. Christoper Book! \*\*Remark discharge in profiles introduction.

### Distribution & Abundance

This species is one of Rhode Island's most threatened amphibians because populations are extremely localized geographically and occur within rapidly developing landscapes. Road mortality has been an issue at many sites and the success of wildlife tunnels at one locality has not been determined. Breeding sites are ephemeral or semi-permanent ponds. Alternate habitats include wet meadows and marshes

Habitat Community: Shrub Swamp/Wet Meadow, Type: Shrub Swamp/Wet Meadow

### Status

IUCN Rank: LC. STSTAT: C. SRANK: S2. GRANK: G5. RSGCN: L-H. PARC: 1. CODES: RES. Res/B: 1. GRP: 8. PRIOR: 1. NEPARC: HC Northeast comprises <50% of US distribution: > 50% of states listed in WAP. Climate Change Vulnerability: 2030 (Precipitation change)

### **Threats and Actions**

### Threat 1 - Agriculture and aquaculture; Upland habitat highly developed for agriculture

Site/area protection; Large landscape species; also wherever possible, 'soft' approaches (such
as beach nourishment, vegetative plantings, and placement of large woody debris) to shoreline
modifications should be used. Rank: 3

- Resource and habitat protection; Breeding sites not protected. Rank: 3
- Alliance and partnership development; Development of conservation partnerships will be necessary to protect wetlands and associated upland habitats. Rank: 3
- Policies and regulations; Need policies and regulations to protect wetlands and associated uplands. Rank: 3
- Awareness and communications; Need to educate the public about habitat loss and species' life history, publish the Amphibians of Rhode Island. Rank: 3
- Data collection and analysis; Research abundance and distribution of species for which status
  and habitat can be determined, by including additional data collection in present studies. Rank:

### Threat 2 - Agricultural and forestry effluents; Pollution in breeding habitats from agriculture

Actions: • Site/area management; Requires hayfields or grazing or mowing regimes, work with farmers. Rank: 3

### Threat 3 - Dams and water management/use; Water withdrawal and water restrictions due to culverts

Actions: • Resource and habitat protection; Protect natural hydrology. Rank: 3

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### DRAFT Rhode Island Wildlife Action Plan Species Profiles Species of Greatest Conservation Need

Habitat and natural process restoration; Restore natural hydrology where possible, look for
opportunities to modify culverts, work with RLDOT. Rank: 3

### Threat 4 - Invasive non-native/alien species; Disease

Actions: • Species management; Monitoring and management. Rank: 3

### Threat 5 - Droughts; Drying of breeding sites

Actions: • Policies and regulations; Needed to address climate change. Rank: 3

### Threat 6 - Natural system modifications; Loss of habitat from plant succession

- Actions: Data collection and analysis; Identify priority parcels needing serial-stage management, especially for Lepidoptera habitat. Rank: 3
  - · Species management; Manage important habitats as required. Rank; 3
  - Habitat and natural process restoration; Construct and maintain new amphibian habitat, and breeding habitat (seasonal pond project). Rank: 3

Threat 7 - Lack of information; Lack of information from research to address habitat and taxonomic issues
Actions: • Data collection and analysis; Assess taxonomy/population relationships. Rank: 2

Refer to the Community: Shrub Swamp/Wet Meadow, Type: Shrub Swamp/Wet Meadow - Habitat Profile for additional threats to this species.

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### DRAFT Rhode Island Wildlife Action Plan Habitat Profiles

### Pitch Pine Woodland/Barren

**GCN HABITATS** 



### Description

Pitch pine woodlands and barrens are dry, fire-adapted communities with a varial canopy dominated by pitch pine and an understory of tall shrubs, especially scrub oak, and a low shrub layer of blueberry and other heaths. A variable amount of mixed oaks may be present in the overstory depending on frequency of fire. A mixed frequent fire rotation of 10 or fewer years may foster the growth of stunted pines dense scrub oak, and scattered open patches of bare sand. Scrub oak stands may occur without pine cover, particularly in low-lying areas where cold-air drainage inhibits pine growth. The NETHCS classification identifies coastal and interior subtypes of pitch pine communities that are similar in structure and composition, but each type has species not shared by the other. Pitch pine barrens support a unique assemblage of priority moth and butterfly species that generally depend of a single larval food plant unique to these communities. Examples include the barrens buck moth, which utilizes scrub oak, and frosted elfin and persius duskywing that depend on wild lupine. Tiger beetles are a characteristic group of insects that require open, sandy patches for hunting and burrowing. Embedded within some pitch pine areas are vernal pools and other shallow wetlands that support a unique herptile fauna, including the Eastern spadefoot. Young, firemaintained pitch pine woodlands provide nesting habitat for several priority birds

### Condition

Pitch pine communities were historically widespread predominantly in Kent and V sandy soils of outwash and glaciofluvial origin. One estimate of the original cover Island is 30,000 acres (Bromley 1935). Following settlement, pitch pine communit agriculture and later residential development, and today they cover only about or their original extent. Most of this habitat occurs in two linear bands across the ste Charlestown recessional moraine, and the second further north in the Arcadia Ma east to West Greenwich, Warwick and Prudence Island.

### Species

### <u>Birds</u>

Eastern Whip-poor-will (Antrostomus vociferous)
Black-billed Cuckoo (Coccyzus erythropthalmus)
Nashville Warbler (Oreothlypis ruficapilla)

### Herpetofauna

Fowler's Toad (Anaxyrus fawleri )
Eastern Hog-nosed Snake (Heterodon platirhinos)
Eastern Spadefoot (Scaphiopus halbraokii)

### <u>Invertebrates</u>

False Mealworm Beetle (Alabates maria) Seed-eating Ground Beetle (Amara chalcea)

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### **SWAP Key Habitat Profiles**

### DRAFT Rhode Island Wildlife Action Plan Habitat Profiles

Upland (Open Uplands (Grassland & Shrubland))

### Pitch Pine Woodland/Barrens - Pitch Pine Woodland

Condition: fair; invasives. Importance to Biodiversity: 3. Degree of Threat: 2; ATVs, invasives.

### Threat 1 - ATV use, trampling of habitat.

Actions: • Site/area protection; Identify and acquire key parcels for fee purchase and easement Rank: 2

- Resource and habitat protection: Control public access. Rank: 1.5
- Site/area management; Control public access. Rank: 1.5

### DRAFT Rhode Island Wildlife Action Plan Habitat Profiles

Lagriid Beetle (Anaedus brunneus) Short-lined Chocolate (Argyrostrotis anilis)

Frosted Elfin (Callophrys (Decid.) irus (Baptisia type) AND Callophrys (Decid.) irus (Lupine

Hoary Elfin (Callophrys polios)

Underwing Moth (Catocala n. sp.)

Barrens Chaetaglaea (Chaetaglaea tremula)

Big Sand Tiger Beetle (Cicindela formosa generosa)

Cow Path Tiger Beetle (Cicindela purpurea purpurea)

Oblique-lined Tiger Beetle (Cicindela tranquebarica tranquebarica)

Festive Tiger Beetle (Cicindela scutellaris rugifrons)

Contracted Datana (Datana contracta)

Sleepy Duskywing (Erynnis brizo)

Persius Duskywing (Erynnis persius)

Ground Beetle (Geopinus incrassatus)

Eastern Buck Moth (Hemileuca maia)
Noctuid Moth (Hyperstratia flaviauttata

Bee-like Robber Fly (Laphria champlainii)

Robber Fly (Paganasama darsatum)

Edward's Hairstreak (Satyrium edwardsii)

German Cousin (Sideridis congermana) Marooning Moth (Sideridis maryx)

Blueberry Sallow (Sympistis dentata)

Joyful Holomelina Moth (Virbia laeta)

Barrens Xylotype (Xylotype capax)

Black-eyed Zale (Zale curema) Pine Barrens Zale (Zale lunifera)

Gray Spring Zale (Zale submediana)

Pine Barrens Zanciognatha (Zanciognatha martha)

### Mammals

Eastern Mole (Scalopus aquaticus)

### Threats and Actions by Community Type

Upland (Coniferous Woodlands & Forests)

### Pitch Pine Woodland/Barren - Barren

Condition: fair. Importance to Biodiversity: 3. Degree of Threat: 2; residential development, lack of natural disturbance (fire).

### Threat 1 - Highly developable habitat type; large portions already fragmented by housing (e.g., Kingston Pine Barrens)

- Actions: Site/area protection; Identify and acquire key parcels for fee purchase and easement. Rank: 3
  - Resource and habitat protection; Identify and acquire key parcels for fee purchase and easement. Rank: 3
  - Policies and regulations; identify and influence mechanisms for incentivizing land owners for conservation and watershed protection (farm, forest and 05), local planning policies that make it possible for land owners to economically benefit in Rank: 2.5

### Threat 2 - Fire-dependent community, there-fore fire suppression is threat.

- Actions: Site/area management; Controlled burns, selective harvesting. Rank: 3
  - Habitat and natural process restoration; high, restore plants (e.g., lupine) for pollinators (frosted elfin, etc.) Rank: 2

### Threat 3 - This community has not been prone to the spread of invasives

Actions: • Invasive/problematic species control; Early detection; Provide control where needed Rank: 2

### Threat 4 - Demographic changes from excessive deer browsing

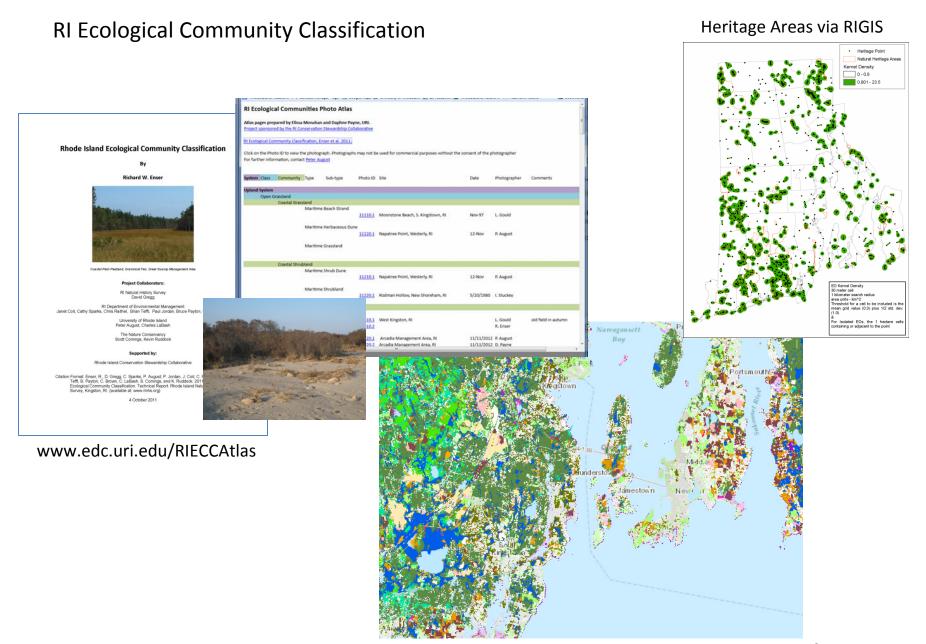
Actions: 
• Invasive/problematic species control; Provide additional hunting opportunities in problem areas; Provide deer control where needed Rank: 2

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### community

s for restoring this habitat. Rank: 2.5 ds identified in 2.3 Rank: 2.5

ere needed Rank: 1.5



www.arcgis.com...search RI Ecological Communities Classification

### Napatree Point Conservation Area Coastal Resilience Demonstration Site





Salt marsh grasses

for restorations

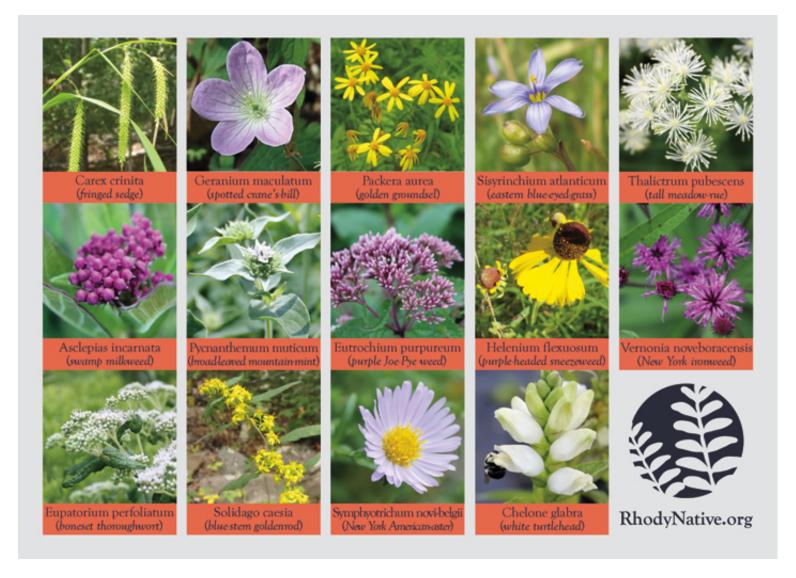
Engage the community in the environment











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### **Biodiversity Monitoring and Outreach**

Rocky Point, Warwick

BioBlitz 2014: Rocky Point, Warwick

Providing Ecosystem Science and Information

972 Species

Rain, as usual
A great site for birds
Best effort yet by the Marine Team



# Rhode Island Conservation Stewardship Collaborative (RICSC)

Founded 2007















### **CSC Mission:**

To advance long-term protection and stewardship of terrestrial, aquatic, coastal, estuarine, and marine areas in Rhode Island that have been conserved by fee, easement, or other means.

### **CSC Principles:**

- Protect long-term viability of areas set aside to sustain fauna, flora, ecosystem services, and cultural and aesthetic characteristics from legal and political threats to their protected status as well as ecological threats to their conservation values.
- Encourage stewardship of each protected property in cognizance of and in consistency with its place in the larger, landscape-scale network of protected areas.
- Foster cooperation, collaboration, and partnering to effectively and efficiently steward protected areas.
- Disseminate broadly the decisions made, lessons learned, practices adopted, and knowledge acquired through CSC activities.
- Involve citizen volunteers and students in on-the-ground activities to ensure successful, sustainable stewardship.
- Use and encourage others to use coordinated, well-managed, accessible databases of information relevant to the stewardship of conservation areas.
- Be nimble and responsive to unanticipated threats (environmental, political, and legal) to conservation areas, but also capable of sustained focus on priority projects.