

AMPHIBIAN AND REPTILE RISK ASSESSMENT FOR NE PARC

Scientific Name

Common Name

Global Rank

- 1) **GLOBAL RANK** – What is the species' Global Heritage Status Rank?
GX = Presumed Extinct, GH = Possibly Extinct, G1 = Critically Imperiled, G2 = Imperiled, G3 = Vulnerable, G4 = Apparently Secure, G5 = Secure, GU = Unrankable (due to lack of information), G? = Unranked, HYB = interspecific hybrid. Rank qualifiers: ? = Inexact numeric rank, Q = Questionable Taxonomy, C = Captive or Cultivated Only.
T = Intraspecific Taxon (trinomial): The status of intraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species= basic rank (e.g., a G1T2 subrank should not occur). A population (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an intraspecific taxon and given a T rank; in such cases a Q is used after the T rank to denote the taxon's questionable taxonomic status

Habitat

- 1) **AQUATIC** – What aquatic habitats does the species utilize? Aquatic Habitat Codes: EM = estuarine, marine; L = lake, lake margin; LS = large stream; MA = marsh, bog, fen; ME = wet meadow; P = pond, pond margin; R = river, riparian; RD = roadside ditch, road rut; S = seep, spring; SS = small stream; SW = swamp, wooded floodplain; TW = temporary wetland
- 2) **AQUATIC SPECIAL** - Is aquatic habitat specialized? Codes: 1 = specialized (≤ 2 habitat types), 2 = moderate (3–5 habitat types), 3 = generalist (> 5 habitat types)
- 3) **TERRESTRIAL** – What terrestrial habitats does the species utilize? Terrestrial Habitat Codes: AG = rural, agricultural field, pasture; B = beach; CA = cave, mine shaft, karst; C = coniferous forest, pine barrens; D = deciduous hardwood forest; DC = combination of deciduous and coniferous forest; G = grassland, savanna, abandoned old fields; H = hummock; ME = meadow; R = riparian woodland, ravine; RO = rock crevice, outcrop, talus; S = sand dune, sandy soil, interdunal swale; SH = shrub, bush, vine area; SW = swamp, wooded floodplain; U = urban/suburban - backyard, garden, school ground
- 4) **TERRESTRIAL SPECIAL** - Is terrestrial habitat specialized? Codes: 1 = specialized (≤ 2 habitat types), 2 = moderate (3–5 habitat types), 3 = generalist (> 5 habitat types)
- 5) **FRESH (F)/BRACKISH (B)/SALT(S)** - If aquatic, is species found in saltwater (S), brackish (B) or freshwater (F); or combinations thereof
- 6) **HIBERNACULA** - Does the species hibernate in an aquatic or terrestrial habitat? A = aquatic, T = terrestrial, AT = aquatic and terrestrial
- 7) **URBAN** - Can the species survive in urban/suburban environments? Y = yes, N = no, Unk = unknown
- 8) **BUFFER** - How much riparian buffer or wooded area does the species need around its breeding site? Put in buffer distance (e.g., 50 m) or Unk = unknown
- 9) **ENDEMIC** – Is the species endemic to the northeast region? Y = yes, N = no, Unk = unknown

10) **HABITAT FRAGMENTATION** – Is the species negatively affected by habitat fragmentation? Y = yes, N = no, Unk = unknown

11) **INTRODUCED SPECIES** – Is the species negatively affected by introduced species? Y = yes, N = no, Unk = unknown

Life History and Demographic Traits

1) **FEEDING SPECIALIZATIONS** – Does the species have any feeding specializations? Y = yes, N = no, Unk = unknown

2) **MAX LONGEVITY** – What is the maximum longevity of the species? State in years; can specify range or average if available. Specify if maximum longevity differs between males (M) and females (F)

3) **AGE AT MATURITY** - How long before the species reaches sexual maturity? State in years; can specify range or average if available. Specify if age at maturity differs between males (M) and females (F)

4) **REPRODUCTION** – Does reproduction occur on land or water (i.e., are eggs laid on land or in water)? A = aquatic, T = terrestrial, AT = aquatic and terrestrial

5) **COURTSHIP SEASON** - When is the courtship season for this species? Specify range of months

6) **BREEDING SEASON** - When is the egg laying season for this species? Specify range of months from when eggs are laid until eggs hatch

7) **BREEDING SPECIAL** – Are there any special requirements, circumstances or habitat needs for breeding or can the species breed in many types of situations, habitats or circumstances? Codes: 1 = specialized (≤ 2 habitat types), 2 = moderate (3 – 5 habitat types), 3 = generalist (> 5 habitat types)

8) **# EGGS PER FEMALE** - How many eggs does a female lay at one time? State the number of eggs per female.

9) **FEMALE BREEDS ANNUALLY** - Do females reproduce every year? Y = yes, N = no, Unk = unknown

10) **BREEDING > ANNUALLY** - Can females breed more than once each season? Y = yes, N = no, Unk = unknown

11) **% EGG SURVIVAL** - What percent of eggs survive to adulthood? State as $< 25\%$, $26-75\%$, or $> 75\%$

12) **TEMPERATURE AS A SEX DETERMINANT** – Does incubation temperature affect the sex of the hatchlings? Y = yes, N = no, Unk = unknown

13) **ACTIVE SEASON** - When is the active season for the species? Specify range of months.

14) **HARVESTED** – Is the species collected by humans? YF = yes-food (personal and/or commercial) use, YC = yes-cultural/ceremonial use, YM = yes-medicinal use, YB = yes-bait for fishing, YK = yes-killed or persecuted, YP = yes-pet trade, N = no, Unk = unknown

Movement and Use of Habitat

1) **MAX DISPERSAL** - How far do the young of the species disperse from natal sites? State in meters (m) or kilometers (km)

- 2) **CROSS ROADS** - Does the species disperse across pavement or roads and is roadkill a problem? Y = yes, N = no, Unk = unknown
- 3) **CROSS AG LANDS** - Can the species travel through agricultural fields? Y = yes, N = no, Unk = unknown
- 4) **TERRITORY SIZE** - What is the territory size for the species? State in m² or km²
- 5) **HOME RANGE** - What is the home range size for the species? State in m² or km²
- 6) **MAX DISTANCE** - What is the maximum distance the species moves? State in m or km
- 7) **AVERAGE DISTANCE** - What is the average distance the species moves? State in m or km
- 8) **DO THEY AGGREGATE** - Do individuals congregate in large numbers for breeding or hibernation? Y = yes, N = no, Unk = unknown
- 9) **DENSITY** - What typical population density could you expect for the species in a hectare of ideal habitat? State as < 10, 11-50, 51-100, 101-1000, or > 1000 individuals
- 10) **PHILOPATRIC** - Are adults strongly philopatric? Y = yes, N = no, Unk = unknown
- 11) **DISTRIBUTION** – Is the geographic range of the species increasing (I), decreasing (D), or staying the same (S)?

Miscellaneous Questions

- 1) **TOXIC** - Does the species produce toxic skin secretions or is it venomous/poisonous? Y = yes, N = no, Unk = unknown