Comprehensive Report: Record **1** of **1** selected.
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Lampetra appendix - (DeKay, 1842)
American Brook Lamprey
Unique Identifier: AFBAA02020
Informal Taxonomy: Animals, Vertebrates - Fishes - Lampreys

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Kingdom	Phylum	Class	Order	Family	Genus
Animalia	Craniata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	Lampetra

Genus Size: D - Medium to large genus (21+ species)
Concept Reference: Eschmeyer, William N. (editor). 1998. Catalog of fishes. Volumes 1-3. California Academy of Sciences, San Francisco, California. 958 pp. Online: http://www.calacademy.org/research/ichthyology/catalog/
Concept Reference Code: B98ESC01EHUS
Name Used in Concept Reference: *Lampetra appendix*
Taxonomic Comments: Formerly known as *L. lamottei* and by several other names. *Lampetra alaskensis* formerly was included in this species; *alaskensis* was recognized as a distinct species by Mecklenburg et al. (2002) and Eschmeyer (Catalog of Fishes, online version, http://www.calacademy.org/research/ichthyology/catalog/)..

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Conservation Status

NatureServe Status

Global Status: G4
Global Status Last Reviewed: 05Sep1996
Global Status Last Changed: 05Sep1996
Rounded Global Status: G4

Nation: United States
National Status:
N4

Nation: Canada
National Status:
N4

U.S. & Canada State/Province Status	
United States	Alabama (S1), Arkansas (S2?), Connecticut (S1), Delaware (S2), District of Columbia (SX), Illinois (S2), Indiana (S3), Iowa (S3), Kentucky (S2), Maryland (S1S2), Massachusetts (S1), Michigan (S4), Minnesota (S4), Missouri (S2), New Hampshire (S2), New Jersey (S2), New York (S3), North Carolina (S1), Ohio (S2S3), Pennsylvania (S3), Rhode Island (S1), Tennessee (S4), Vermont (S1), Virginia (S3), West Virginia (S2), Wisconsin (S4)
Canada	Ontario (S3), Quebec (S4)

Other Statuses

NatureServe Conservation Status Factors

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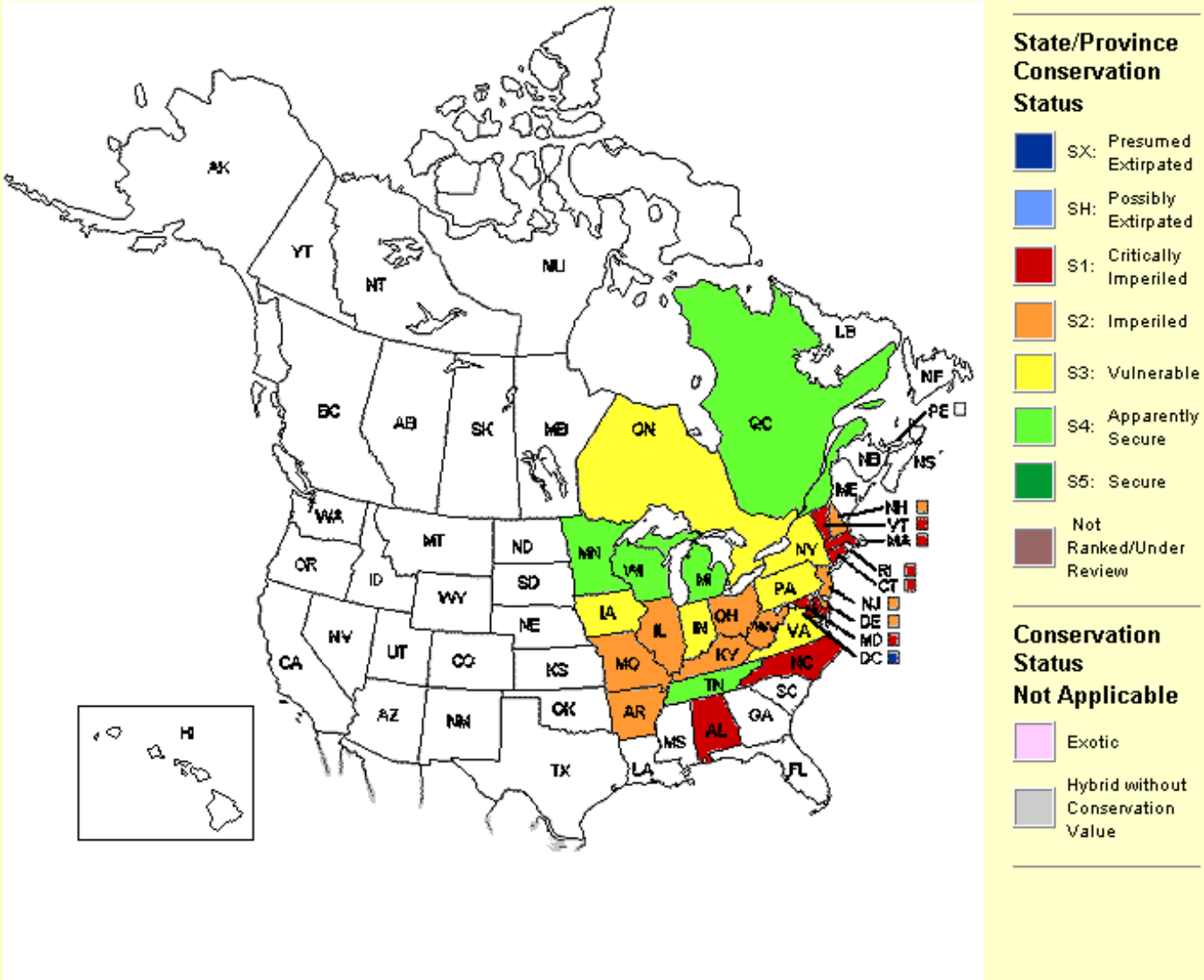
Distribution

U.S. States and Canadian Provinces



Endemism: occurs (regularly, as a native taxon) in multiple nations

U.S. & Canada State/Province Distribution	
United States	AL, AR, CT, DC, DE, IA, IL, IN, KY, MA, MD, MI, MN, MO, NC, NH, NJ, NY, OH, PA, RI, TN, VA, VT, WI, WV
Canada	ON, QC

Range Map

No map available.

Global Range Comments: Atlantic, Great Lakes, and Mississippi River basins from St. Lawrence River, Quebec, west to Minnesota, south to Roanoke River system, Virginia, Tennessee River system, northern Alabama, and St. Francis and White river systems, Missouri and Arkansas; Martin River (Arctic basin), Northwest Territories, to Ugashik and Chatanika River (Pacific basin), Alaska; uncommon (Page and Burr 1991). Subspecies APPENDIX: Atlantic Slope. Subspecies

WILDERI: St. Lawrence-Great Lakes and Mississippi basins, and Roanoke River, Virginia. Subspecies ALASKENSE: Alaska and Northwest Territories.

U.S. Distribution by County (based on available natural heritage records)	
State	**County Name (FIPS Code)**
AR	Arkansas (05001), Baxter (05005), Clark (05019), Hot Spring (05059), Izard (05065), Marion (05089), Newton (05101), Sharp (05135), Stone (05137)
CT	Hartford (09003)
DE	Kent (10001), New Castle (10003), Sussex (10005)
IA	Benton (19011), Black Hawk (19013), Buchanan (19019), Clay (19041), Delaware (19055), Fayette (19065), Linn (19113)
KY	Allen (21003), Boyd (21019), Breathitt (21025), Butler (21031), Carter (21043), Casey (21045), Floyd (21071), Green (21087), Hart (21099), Jackson (21109), Johnson (21115), Leslie (21131), Magoffin (21153), Martin (21159), Menifee (21165), Monroe (21171), Morgan (21175), Owsley (21189), Perry (21193), Pike (21195), Powell (21197), Warren (21227), Wolfe (21237)
MN	Carver (27019), Dakota (27037), Dodge (27039), Fillmore (27045), Goodhue (27049), Houston (27055), Mower (27099), Olmsted (27109), Scott (27139), Wabasha (27157), Washington (27163), Winona (27169)
MO	Bollinger (29017), Butler (29023), Cape Girardeau (29031), Ripley (29181), Shannon (29203)
NC	Madison (37115)
PA	Monroe (42089), Venango (42121), Warren (42123)
RI	Providence (44007)
VT	Chittenden (50007), Franklin (50011)
WV	Calhoun (54013), Tyler (54095)

U.S. Distribution by Watershed (based on available natural heritage records)	
Watershed Region	**Watershed Name (Watershed Code)**
01	Lower Connecticut (01080205)
02	Winooski (02010003), Lamoille (02010005), Missisquoi (02010007), Middle Delaware-Mongaup-Brodhead (02040104), Brandywine-Christina (02040205), Broadkill-Smyrna (02040207), Chincoteague (02060010)
05	Middle Allegheny-Tionesta (05010003), Little Muskingum-Middle Island (05030201), Little Kanawha (05030203)
06	Upper French Broad (06010105)
07	Turkey (07060004), Maquoketa (07060006), Upper Wapsipinicon (07080102), West Fork Cedar (07080204), Middle Cedar (07080205), Whitewater (07140107)
08	Lower White (08020303), Upper Ouachita (08040102)
11	Bull Shoals Lake (11010003), Middle White (11010004), Buffalo (11010005), Upper Black (11010007), Current (11010008), Strawberry (11010012)

Economic Attributes

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Management Summary

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Ecology & Life History

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Reproduction Comments: Spawns in spring (peak mid-May to early June at 17 C in Quebec, late March-early April at 7-

12 C in Delaware, April-early May in Massachusetts (see Hoff 1988). Eggs hatch in a few days to a few weeks, depending on temperature. Larval stage may last several years. Metamorphosis begins in summer, completed by next spring. Adults die after spawning. May aggregate when spawning. See Hoff 1988 for sizes of breeders in different regions.

Habitat Type: Freshwater

Non-Migrant: N

Locally Migrant: N

Long Distance Migrant: N

Riverine Habitat(s): CREEK, MEDIUM RIVER, Moderate gradient, Pool, Riffle

Special Habitat Factors: Benthic

Habitat Comments: Large creeks and small to medium rivers; cool, clear water; tidal freshwater in Massachusetts (Hoff 1988). Larvae burrow into sand and silt, often in slow water near shore. Adults usually found in breeding areas. Eggs are laid in nests in gravel/sand riffles and runs with strong flow.

Adult Food Habits: Herbivore

Immature Food Habits: Herbivore

Food Comments: Adults do not feed. Larvae filter-feed on plankton.

Colonial Breeder: Y

Length: 30 centimeters

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Population/Occurrence Delineation

Group Name: NONANADROMOUS LAMPREYS

Use Class: Not applicable
Minimum Criteria for an Occurrence: Occurrences are based on evidence of historical presence, or current and likely recurring presence, at a given location. Such evidence minimally includes collection or reliable observation and documentation of one or more individuals (including eggs and larvae) in appropriate habitat.
Mapping Guidance: Occupied locations that are separated by a gap of 10 km or more of any aquatic habitat that is not known to be occupied represent different occurrences. However, it is important to evaluate migrations and seasonal changes in habitat to ensure that spawning areas and nonspawning areas for a single population are not artificially segregated as different occurrences simply because there have been no collections/observations in an intervening area that may exceed the separation distance.
Separation Barriers: Dam lacking a suitable fishway; high waterfall; upland habitat.
Separation Distance for Unsuitable Habitat: 10 km
Separation Distance for Suitable Habitat: 10 km
Separation Justification: Separation distance is arbitrary. Because of the difficulty in defining suitable versus unsuitable habitat, especially with respect to dispersal, and to simplify the delineation of occurrences, a single separation distance is used regardless of habitat quality.
Date: 28Nov2001
Author: Hammerson, G.

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Population/Occurrence Viability

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Authors/Contributors

Element Ecology & Life History Edition Date: 28May1993
Element Ecology & Life History Author(s): Hammerson, G.

Zoological data developed by NatureServe and its network of natural heritage programs (see Local Programs) and other contributors and cooperators (see Sources).

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Citation for Bird Range Maps of North America:
Ridgely, R.S., T.F. Allnutt, T. Brooks, D.K. McNicol, D.W. Mehlman, B.E. Young, and J.R. Zook. 2003. Digital Distribution Maps of the Birds of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

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Patterson, B.D., G. Ceballos, W. Sechrest, M.F. Tognelli, T. Brooks, L. Luna, P. Ortega, I. Salazar, and B. E. Young. 2003. Digital Distribution Maps of the Mammals of the Western Hemisphere, version 1.0. NatureServe, Arlington, Virginia, USA.

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