## Alewife (Alosa pseudoharengus)

## **General Information**

A schooling fish, primarily anadromous, inhabiting the ocean and many coastal/tidal river systems in NJ. Freshwater landlocked populations have been established in many lakes throughout the state and are often an important prey species for a variety of game fish. They are also commercially harvested and used as baitfish.



Native Range Land-locked forms are located mostly in the NE United States. Their range extends from Nova Scotia to North Carolina and into the Great Lakes. (Bochenek 1981, Pardue 1983)

## Habitat Description

**Rivers:** River populations are anadromous. Found in river systems during the spring spawning migration (April-June). Will utilize smaller streams for spawning than the closely related American shad.

**Lakes:** May occupy all strata of a land-locked waterbody during the course of the year. Primarily pelagic (open water), however, will move into littoral areas in late spring and summer to spawn and then return to deeper water. Have a preference for the warmer waters. Also move into shallow areas at night and return to deeper waters during the day. Move in large schools. Attracted to light.

Optimum Habitat Requirements					
Dissolved Oxygen					
Temperature	11-19°C (adults) 17-19°C (young)				
рН					
Turbidity					
Current					

Diet						
Fry	zooplankton					
Juveniles	insect larvae, zooplankton, some fish larvae					
Adults	insect larvae, zooplankton,					
Notes: Planktivores become more omnivorous with increase in size. Mainly filter feeders.						

Growth							
Age	1	2	3	Notes: Growth data from Lake Hopatcong, 1979-1980			
Male (total length in mm)	95	127	135	(Bochenek 1981). Landlocked alewives have a shorter life expectancy and poorer growth rate than its anadromous			
Female (total length in mm)	102	128	142	counterparts. Females grow faster. Growth slows significantly after the onset of sexual maturity.			

Reproduction								
June		Age Males Mature	2 - 3					
10° - 26.7°C		Age Females Mature	2 - 3					
150 - 300 mm		Nest	None					
Veg, sand, gravel		Едд Туре	Non-adhesive					
Night		Parental Care	None					
		Days to Hatching	4 - 6					
Not critical		Oxygen Level	critical					
	June   10° - 26.7°C   150 - 300 mm   Veg, sand, gravel   Night	June   10° - 26.7°C   150 - 300 mm   Veg, sand, gravel   Night	JuneAge Males Mature10° - 26.7°CAge Females Mature150 - 300 mmNestVeg, sand, gravelEgg TypeNightParental CareDays to Hatching					

**Notes:** Females move into spawning areas (tributaries and shallow littoral zones) first. Will spawn in moderate currents if a more adequate spawning area is unavailable. Spawn in groups of two or three - each female deposits 60,000-100,000 eggs. Diet, growth and reproduction information taken from Brown 1972;Janssen 1976; Crowder 1983; Janssen 1978; Nigro 1982 and Bochenek 1981.