

## **Appendix B**

### **Fishery information for Lovers Lake and Stillwater Pond**

LOVERS LAKE, CHATHAM  
(Smith's Pond)  
Barnstable County

This relatively small warmwater pond is located one and one-quarter miles northwest of Chatham. A right-of-way to this pond is lacking. However, the pond may be reached via a dirt road off of Old Comers

57.

Road. This 36 acre pond has a maximum depth of 36 feet and an average depth of 14.4 feet. The shoreline is wooded, and a mat of emergent and submerged vegetation extends out into the pond from the shore (Figure 68). The pond bottom is composed of half muck, half gravel and sand.

Stocking history:

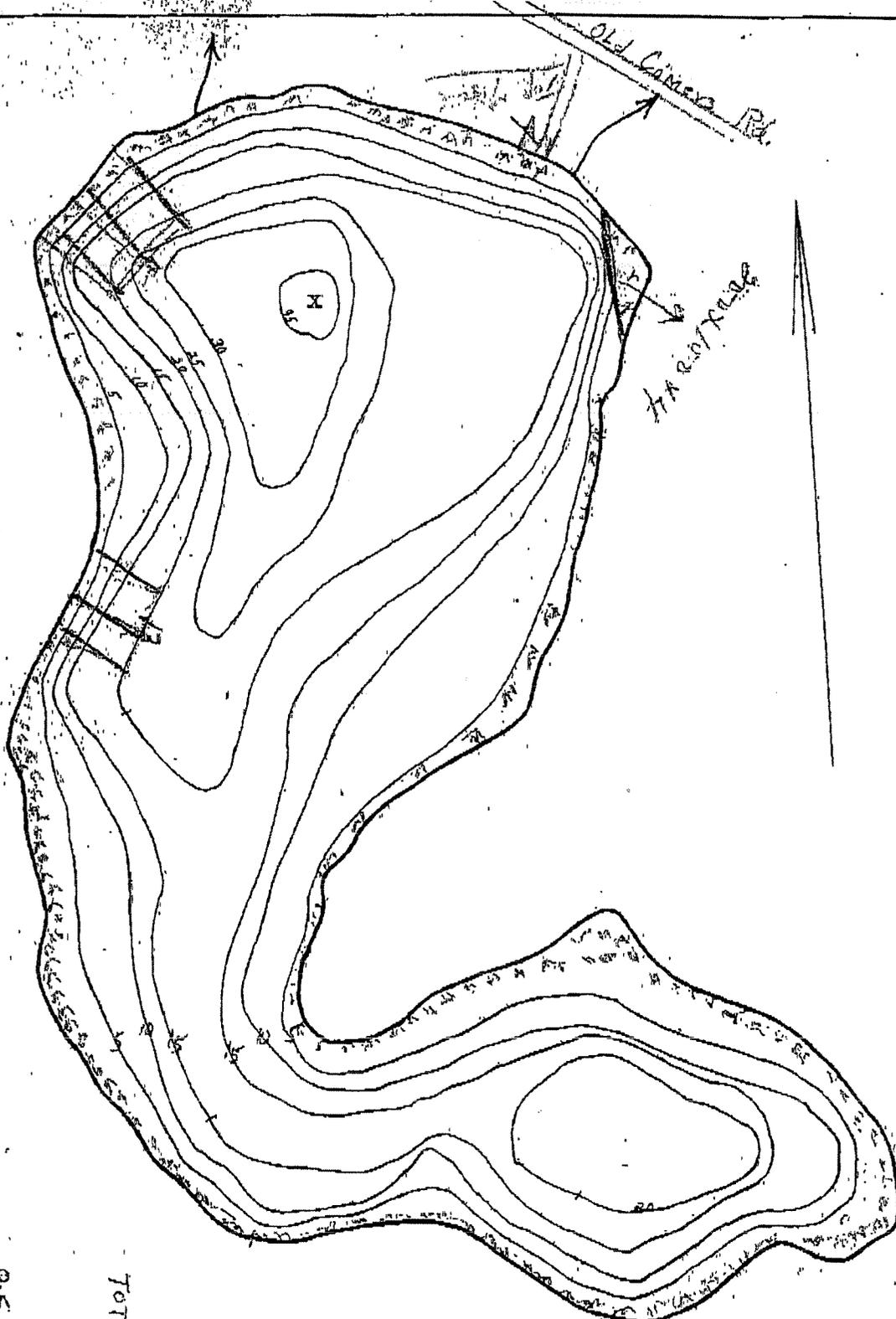
The pond was stocked three times from 1915 to 1941 with a total of 5,050 fish. These introductions comprised 4,900 smallmouth bass and 150 brook trout.

Status of fish life:

On August 25, 1952 the population check yielded: 20 chain pickerel (6.0 to 21.4 inches; 22.0 pounds), 2 smallmouth bass (3.5 to 13.4 inches; 1.5 pounds), 50 yellow perch (2.0 to 9.9 inches; 5.0 pounds), 81 white perch (7.9 to 13.4 inches; 45.8 pounds), 16 brown bullheads (2.0 to 12.9 inches; 6.4 pounds), 207 golden shiners (1.0 to 8.4 inches; 7.8 pounds), 172 bridled shiners (1.0 to 1.9 inches; 0.1 pounds), 193 killifish (1.0 to 3.9 inches; 0.3 pounds), 3 eels (4.0 to 7.4 inches; tr.), 2 sticklebacks (1.0 to 1.4 inches; tr.), and johnny darters were found in stomach content analysis.

Discussion:

The survey sample of 1952 is indicative of a well-balanced fish population, and no management is considered essential until such time as the population may become stunted and static. If and when this occurs, partial or complete reclamation of the population and subsequent stocking of chain pickerel and a suitable forage species is in order.



TOTAL AREA = 1414 = 36 ACRES  
 30' = 0.473 = 13.3  
 31' = 0.524 = 14.5  
 32' = 0.600 = 16.7  
 33' = 0.703 = 19.4  
 34' = 0.834 = 23.1  
 35' = 0.994 = 27.4  
 36' = 1.184 = 32.4  
 37' = 1.406 = 38.7  
 38' = 1.662 = 46.1  
 39' = 1.954 = 54.6  
 40' = 2.284 = 64.3  
 41' = 2.654 = 75.4  
 42' = 3.066 = 88.1  
 43' = 3.522 = 102.5  
 44' = 4.024 = 118.6  
 45' = 4.574 = 136.4  
 46' = 5.174 = 155.9  
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 70' = 38.744 = 1354.6  
 71' = 40.984 = 1433.7  
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 76' = 53.204 = 1859.2  
 77' = 55.856 = 1950.3  
 78' = 58.572 = 2043.4  
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 80' = 64.204 = 2235.6  
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 84' = 76.312 = 2644.0  
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 93' = 108.124 = 3679.9  
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 100' = 137.774 = 4600.6  
 101' = 142.376 = 4742.7  
 102' = 147.072 = 4887.8  
 103' = 151.864 = 5035.9  
 104' = 156.754 = 5187.0  
 105' = 161.744 = 5340.1  
 106' = 166.834 = 5496.2  
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 109' = 182.712 = 5979.5  
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 111' = 193.824 = 6315.7  
 112' = 199.544 = 6487.8  
 113' = 205.376 = 6661.9  
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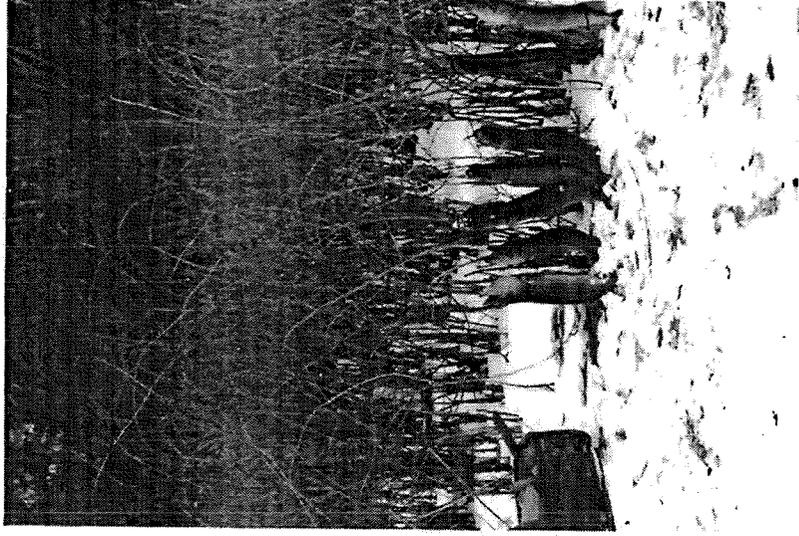
V. Russ

I never saw such fishery  
over 30 fish pulled in, not one  
under 1 1/2 lbs. Took home a dozen,  
best eating prepared & over ate.

Three of us in party, I will tell you  
the name of the pond but keep it quiet.  
Sovets Lake

Carol V. Nelson

Two to three pound fishery  
Caught by Harry Darling  
Dec 29, 1955  
Albatross Moss  
Taken by Carol V. Nelson



## STILLWATER POND, LOVERS LAKE

Stillwater Pond (18 acres) and Lovers Lake (38 acres), Chatham, are connected by a narrow ditch and small culvert under Old Comers Road. A 300-foot stream runs from Stillwater Pond to Ryders Cove, Pleasant Bay. Concrete baffles in the outlet stream enable alewives to overcome the 8-foot rise in elevation from sea level.

The town of Chatham assumed control of the alewife fishery in 1968 under Section 94. This run has considerable value as a source of bait for sport fishermen in the Pleasant Bay area and the commercial fishermen operating out of Chatham, and

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should be regulated with this mind. The population could be increased by providing better passage to Stillwater Pond. The culvert under Old Comers Road should be cleaned and enlarged and the ditch connecting Stillwater Pond and Lovers Lake should have baffles and control structures to provide alewife water flows to pass juveniles downstream.

FISH SAMPLE, TOTAL LENGTH FREQUENCIES (INCHES)

WATER: *Stillwater Pond*

TOWN: *Chatham*

DATE: *5/24/67*  
Mo. D. Yr.

METHOD OF COLLECTION: *1st Riff*

TIME, WEATHER, ETC.:

SPECIES:	YP	WP	GS	Bridals,	LMB	CP	A	Stickleback
0.0-0.4								
0.5-0.9								
1.0-1.4								
1.5-1.9								
2.0-2.4								
2.5-2.9								
3.0-3.4								
3.5-3.9								
4.0-4.4								
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19.5-19.9								
20.0-20.4								
20.5-20.9								
21.0-21.4								
21.5-21.9								
22.0-22.4								
22.5-22.9								
23.0-23.4								
23.5-23.9								
24.0-24.4								
24.5-24.9								
Tot. No.								
Weight								

Ph 6.5





**Massachusetts Division of Marine Fisheries  
Technical Report TR-16**

**A Survey of Anadromous Fish  
Passage in Coastal Massachusetts**

**Part 2.  
Cape Cod and the Islands**

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**Massachusetts Division of Marine Fisheries  
Department of Fish and Game  
Executive Office of Environmental Affairs  
Commonwealth of Massachusetts**

May 2004

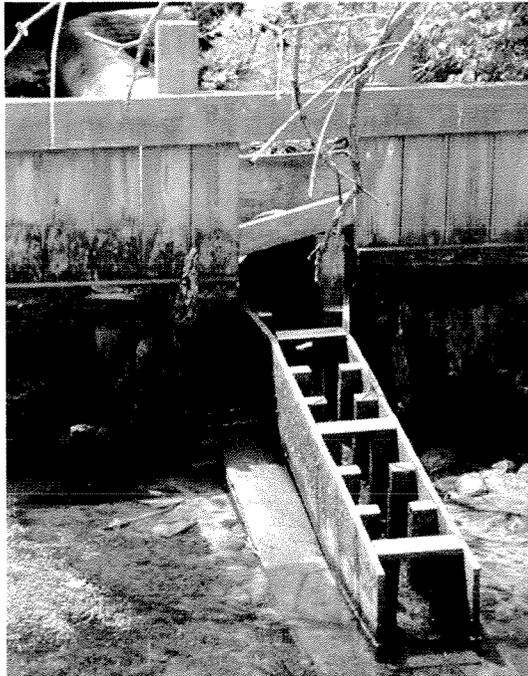
**Technical Report**

**Stillwater Pond/Lovers Lake Chatham**

Stream Length (mi)	Stream Order	pH	Anadromous Species Present
0.4	First	7.1	Alewife

**Obstruction # 1 Stillwater Pond Elevation Change Chatham**

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
0.1	Elevation change	-	-	-	0.0	-	Private	41° 42' 20.079" N 69° 59' 05.091" W



Vertical Slot at Stillwater Pond Elevation Change



Notched Weir-pool at Stillwater Pond Elevation Change

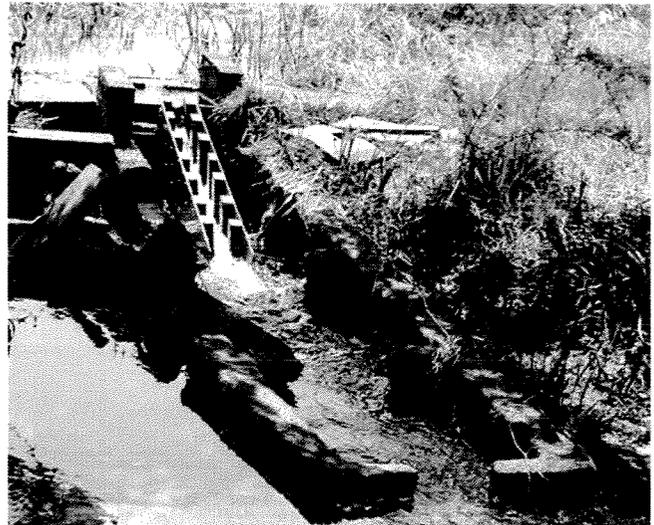
Fishway	Present	Material	Length (ft)	Inside W (ft)	Outside W (ft)	# of Baffles	Baffle H (ft)	Notch W (ft)	Pool L (ft)	Condition/Function
Vertical slot	Wood	8.0	1.0	1.0	8	1.0	0.3	1.0	Poor Inefficient passage	
Notched weir-pool	Corrugated plastic pipe with wooden baffles	147.0	1.4	1.4	28	0.8	0.5	5.0	Good Passable	

**Obstruction # 2**                      Stillwater Pond Control Structure                      Chatham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
0.2	Dam control structure and elevation change	Concrete with wooden boards	1.5	0.9	16.0	-	-	41° 42' 16.124" N 69° 59' 06.638" W



Stream Baffles below Stillwater Lake



Ladder at Stillwater Pond

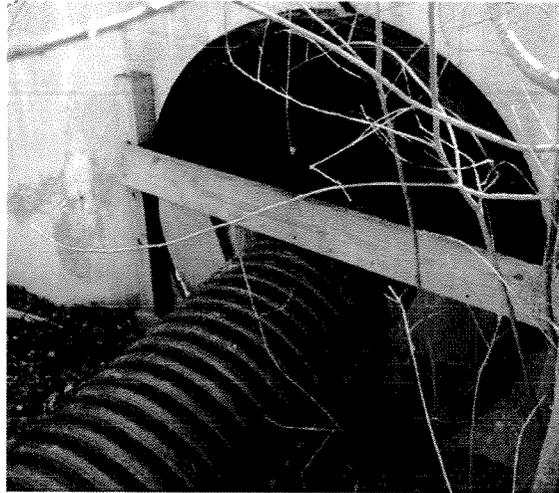
Fishway	Present	Material	Length (ft)	Inside W (ft)	Outside W (ft)	# of Baffles	Baffle H (ft)	Notch W (ft)	Pool L (ft)	Condition/Function
Stream baffle	Concrete	274	8.0 (stream width)	8.0	4	1.2	Varied (0.6 - 1.8)	Varied (48 - 100)	Fair Inefficient passage	
Vertical slot	Aluminum, wood and concrete	11.0	Varied (0.5 and 1.3)	Varied (1.9)	10	Varied (0.6)	-	-	Good Inefficient passage	

**Obstruction # 3**

Lovers Lake Culvert

Chatham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
0.4	Elevation change	-	4	4	0.0	-	-	41° 42' 05.094" N 69° 59' 05.847" W



Lovers Lake Culvert

**Fishway Present**

Design	Material	Length (ft)	Inside W (ft)	Outside W (ft)	# of Baffles	Baffle H (ft)	Notch W (ft)	Pool L (ft)	Condition/Function
Notched weir-pool	Corrugated plastic with wooden baffles	60.0	1.4	2.0	6	0.3	0.7	6.0	Good Passable



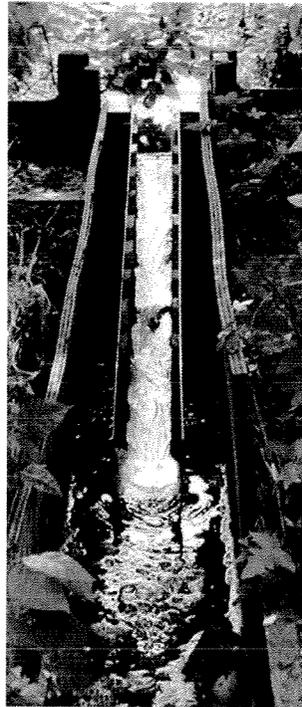
Notched Weir-pool at Lovers Lake Culvert

**Obstruction # 4**

Lovers Lake Outlet Control

Chatham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Pond Acreage	Year Built	Owner	GPS
0.4	Elevation change	-	0.5	1.5	36.0	-	Private	41° 42' 01.914" N 69° 59' 05.337" W



Fishway at Lovers Lake Outlet

Fishway Design	Material	Length (ft)	Inside W (ft)	Outside W (ft)	# of Baffles	Baffle H (ft)	Notch W (ft)	Pool L (ft)	Condition/Function
Vertical slot	Wood and aluminum	4.6	0.5	0.5	9	0.5	0.3	0.5	Fair Passable

**Remarks:**

These ponds drain into Ryders Cove, Chatham by way of an unnamed stream. The first obstruction occurs at the head of the tide where a wooden vertical slot fishway allows herring to enter the stream over a wide range of tidal conditions. The second fishway overcomes an elevation change and control structure at Stillwater Pond. The unique design of this ladder, developed by the local herring warden, deserves mention. It consists of 147 feet of 2 foot diameter, corrugated plastic pipe which has been fitted internally with wooden notched baffles. This appears to function adequately for passage over low gradient elevation changes. A 60 foot length of this type of fishway allows fish to enter the third obstruction, a culvert below Lovers Lake. A wooden vertical slot fishway enables fish to overcome the final obstruction, the outlet control structure at Lovers Lake. The 55 acres of habitat in these ponds should support a productive fishery providing the fish passage facilities are well maintained.