Wankinco River Wareham, Carver, and Plymouth

Stream Length (mi)	Stream Order	pH	Anadromous Species Present
7.3	Second	6.1	River herring

Obstruction # 1 Parker Mills Dam Wareham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
0.7	Dam	Concrete with wooden boards	10.8	7.5	74.7	1900	Town of Wareham	41º 46’ 01.789” N 70º 43’ 19.891” W

Parkers Mills Dam and Ladder

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
Denil	Concrete with wooden baffles	123.7	3.0	4.5	42	4.8	-	-	Good Passable

Obstruction # 2a Tihonet Pond Dam Wareham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
2.5	Dam	Concrete with wooden baffles	8 (including fishway)	8.9	90.0	1977	A.D. Makepeace Co.	41º 47’ 20.413” N 70º 42’ 44.952” W

Tihonet Pond Dam

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
Denil	Concrete with fiberglass and wooden baffles	86.0	2.0	3.8	37	8.0	-	-	Good Inefficient passage
Notched weir-pool	Concrete with wooden baffles	62.0	4.5	8.0	7	1.9	1.5	6.6	Good Inefficient passage

Upper (weir-pool) Section of Tihonet Pond Ladder

Lower (Denil) section of Tihonet Pond Ladder

Obstruction # 2b Tihonet Pond Outlets Wareham

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
2.5	Dam	Earth, stone and concrete	4.5	15	90.0	1900	A.D. Makepeace Co.	41º 47’ 14.612” N 70º 43’ 07.677” W

Tihonet Pond Outlet

Fishway None

Obstruction # 3 At base of impoundment north of Tihonet Pond — Carver/Plymouth

River Mile	Type	Material	Spillway W (ft)	Spillway H (ft)	Impoundment Acreage	Year Built	Owner	GPS
4.0	Bog sluice	Concrete with wooden baffles	10.0	6.2	6.9	1955	A.D. Makepeace Co.	41º 48’ 30.678” N 70º 42’ 59.225” W

Bog Sluice at base of impoundment Upstream of Tihonet Pond

Fishway None

Remarks:

The Wankinco is another southeastern Massachusetts stream which is highly manipulated by cranberry bog diversions. From its source in East Head Pond it flows through a long series of bogs forming several impoundments along its course. The first two, Parker Mills Pond and Tihonet Pond, provide spawning and nursery habitat for river herring. The dam at Parker Mills Pond is provided with a concrete and wood Denil ladder. This ladder functions well but entrance to the structure is difficult at low tidal stages. Also, care must be taken to insure maximum flow through the ladder for optimal attraction to the entrance.

Tihonet Pond has two outlets, the eastern-most of which is equipped with a fishway. This combination weir-pool and Denil style ladder functions adequately with proper flow adjustment. The problem that occurs at this impoundment is the attraction flow from the west outlet which causes migrating herring to be diverted into a dead end channel. Careful adjustment of flows from the two outlets could increase the numbers of fish which reach the spawning area. Further development within this system is not justified due to numerous small obstructions and competing water usage by the cranberry growers.