

State of The Fishery

A resurvey was conducted at Jennie Lake in 2007. Jennie is primarily managed for northern pike and walleye.

Agriculture row crops dominated the Jennie Lake watershed. Approximately 50% of the shoreline was developed with residential homes. A total of 22 aquatic plants were sampled. Bushy pondweed, coontail, filamentous algae, muskgrass, and northern watermilfoil were all classified as common, while all others were ranked as being rare. Curly-leaf pondweed was abundant during spring and early summer, but not in late August when plant sampling occurred. For shoalwater substrates, sand was abundant, gravel and silt were common, and all others were considered rare. The secchi disk reading was 6.4 feet on 6/21/07. Shoreland owners are encouraged to protect emergent vegetation at Jennie Lake. Emergent plants provide food and shelter for many fish and wildlife species, improve water clarity, reduce shoreline erosion, and improve aesthetics.

A total of 40 walleye were gill netted for a catch rate of 3.3/net, which indicated that numbers were low to fair. The 2003 catch rate was 5.7/net. The 2007 catch rate was tied with 1991 catch rate for the lowest on record at Jennie Lake. In 2007, gill netted walleye were 10.6-28.5 inches long averaging 23.0 inches. Only two of the walleye that were gill netted were under 21 inches. Walleye were 2-11 years old with 5 year-classes present. Approximately 70% of the sample was 10 years old or older. The 1996 and 1997 year-classes continued to dominate the shrinking fishery. The latest stocking regime (1,000 fry/littoral acre two-out-of-three years) began in 1995. Gill net catch rates in 2000, 2003, and 2007 ranged from 3.3-11.5/net, averaging 6.8/net. In 2007, approximately 55% of the gill net sample came from non-stocked years, but missing year-classes from 2000-2005 indicated that natural year-classes were not being produced consistently. Growth was fast.

A total of 76 northern pike were gill netted for a catch rate of 6.3/net, which indicated that numbers were moderate. The 2003 catch rate was 10.8/net. Northern pike catch rates have been decreasing since the 2000 assessment. In 2007, gill netted northern pike were 15.7-35.7 inches long averaging 23.5 inches. Trap nets sampled northern pike up to 36.8 inches in length. Northern pike were 1-5 years old with 5 year-classes present. Growth was fast.

A total of 89 yellow perch were gill netted for a catch rate of 7.4/net, which indicated that fair numbers were present. The 2003 catch rate was 47.3/net. In 2007, gill netted yellow perch were 5.3-8.3 inches long averaging 6.1 inches. Yellow perch were 1-5 years old with 5 year-classes present.

A total of 17 carp were gill netted for a catch rate of 1.4/net, which indicated that fair numbers were present. The catch rate in 2003 was 5.9/net. In 2007, gill netted carp were 18.0-27.1 inches long averaging 23.7 inches. Trap nets did not sample any carp.

A total of 13 black crappie were trap netted for a catch rate of 1.1/net, which indicated that numbers were low. The catch rate in 1996 was 0.0/net. High to moderate numbers of black crappie have not been sampled since the early 1990's. In 2007, trap netted black crappie were 4.0-7.4 inches long averaging 5.1 inches. Black crappie were 1-3 years old with 3 year-classes present. Growth was slow. Gill nets also sampled low numbers (2.6/net) of small fish, with a maximum length of 7.4 inches.

A total of 337 bluegill were trap netted for a catch rate of 28.1/net, which indicated that high numbers of fish were present for this type of lake. The catch rate in 1996 was similar at 23.6/net. Trap netted bluegill were 0.7-10.6 inches long averaging 4.6 inches, but only 1% of the sample was 7 inches or longer. Bluegill were 1-7 years old with 6 year-classes present. Growth was moderate.

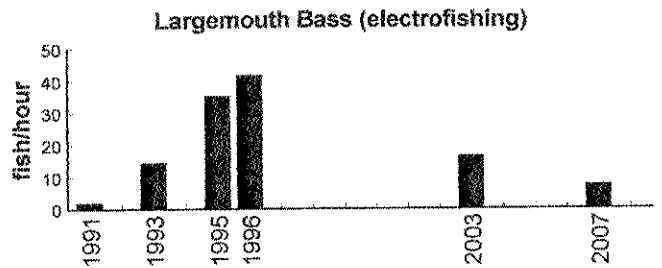
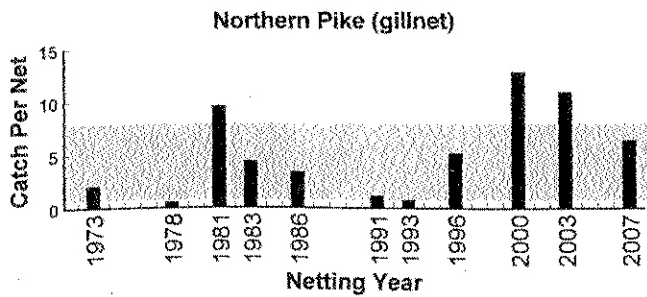
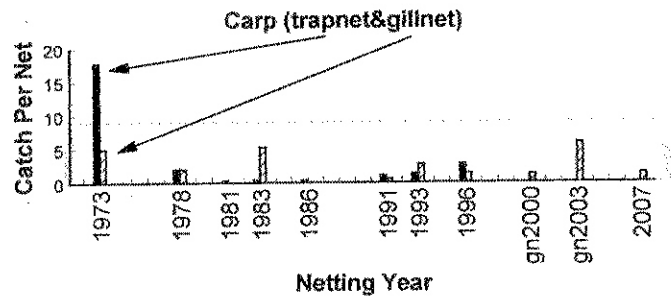
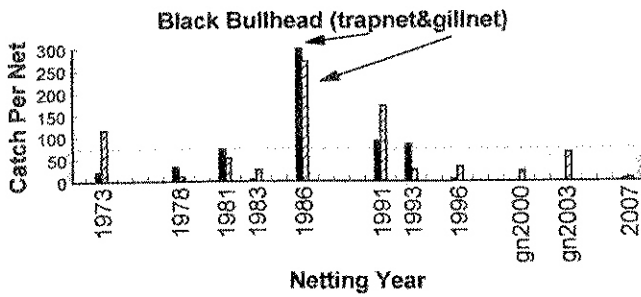
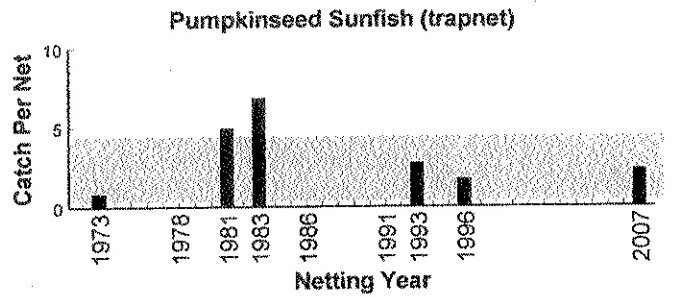
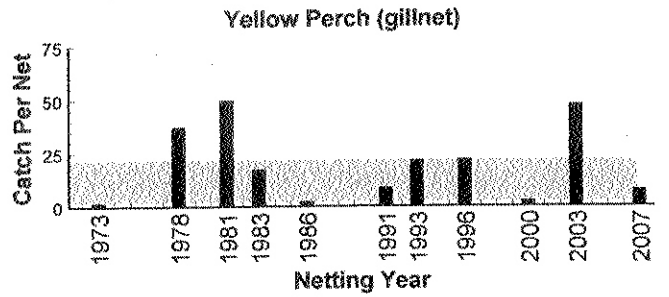
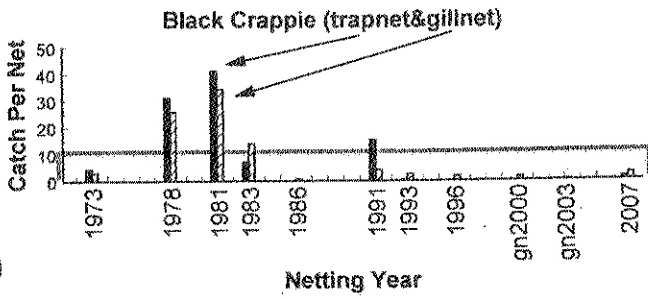
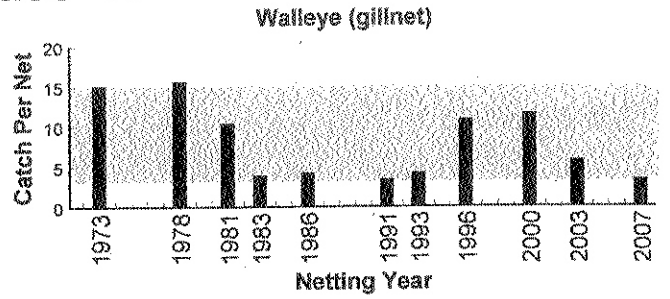
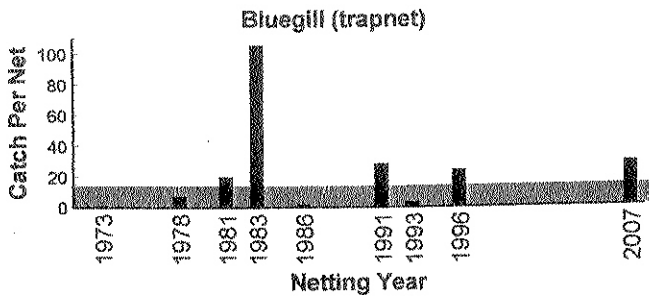
A total of 46 black bullhead were trap netted for a catch rate of 3.8/net, which indicated that numbers were low. The catch rate in 1996 was similar at 5.7/net. In 2007, trap netted black bullhead were 4.3-14.9 inches long averaging 7.1 inches. The 2007 gill net catch rate was also low (5.9/net).

A total of 12 largemouth bass were collected during spring night-time electrofishing for a catch rate of 7.2/hour. The 2007 catch rate was the second lowest on record at Jennie Lake. A similar assessment conducted in 2003 produced a catch rate of 16.2/hour. Catch rates have been declining since the 1996 assessment. Catch rates from 1991-2007 ranged from 1.8-41.1/hour averaging 19.1/hr. In 2007, electrofished largemouth bass were 8.9-18.1 inches long averaging 14.1 inches. Largemouth bass were 1-6 years old with 4 year-classes present.

the Fishery (Continued)

A total of 11 varieties of fish were sampled during shoreline seining. Young-of-the-year were collected for black crappie (2), bluegill (217), green sunfish (9), hybrid sunfish (27), largemouth bass (137), pumpkinseed (3), walleye (1) and yellow perch (483).

Jennie Lake Net Catches 1973-2007 Lake Class 41



- Net catch rates shown may be affected by sampling variation.
- Catch rates are based on varying numbers of net sets per survey.
- Shaded areas represent the expected range of fish per net, for a lake of this type.