

MID-COLUMBIA – WENATCHEE SOCKEYE

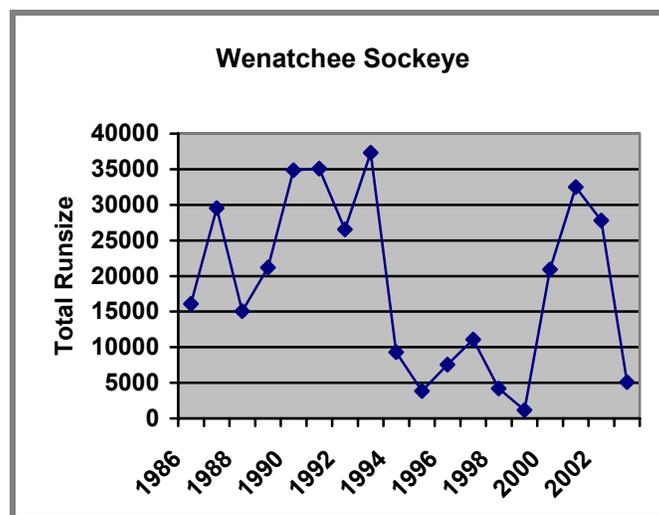
STOCK STATUS

1992 STATUS Healthy	2002 STATUS Depressed
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Good

YEAR	TOTAL RUNSIZE/TUMWATER DAM COUNTS
1986	16,077
1987	29,558
1988	15,069
1989	21,184
1990	34,847
1991	35,094
1992	26,555
1993	37,311
1994	9,314
1995	3,523
1996	7,759
1997	11,019
1998	4,204
1999	1,172
2000	20,930
2001	32,482
2002	27,821
2003	5,074



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Data are total escapement estimates are based on the difference in sockeye counts between Rock Island and Rocky Reach dams from 1986 to 1997. Data are total runsize estimates from Tumwater Dam counts from 1998 to 2003 and are more accurately used for stock status determination. Data prior to 1998 are not comparable.

Stock status is rated **Depressed** in 2002 because of a **short-term severe decline** in escapements in 1998 and 1999. The spawning escapement goal for this stock is 23,000 fish. Despite a significant improvement in the 2000 and 2001 returns, the stock has been at less than one-half the goal from 1994 to 1999.

STOCK DEFINITION

Wenatchee sockeye were identified as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Most spawning takes place in the Little Wenatchee, White and lower Napeequa rivers.

SPAWNING TIMING: Spawning generally occurs from mid-September to late October.

GENETIC ANALYSIS: Allozyme analysis has shown that Wenatchee sockeye are probably the most distinctive sockeye population in Washington (Shaklee et al. 1996)

STOCK ORIGIN

This is a **mixed** stock with **composite** production. The current population is a mixture of native sockeye and descendants of transfers during the Grand Coulee Dam Fish Maintenance Project (1939 to 1943). Quinault River sockeye have also been introduced into Lake Wenatchee.