

QUINAULT – QUINAULT/QUINAULT LAKE WINTER STEELHEAD

STOCK STATUS

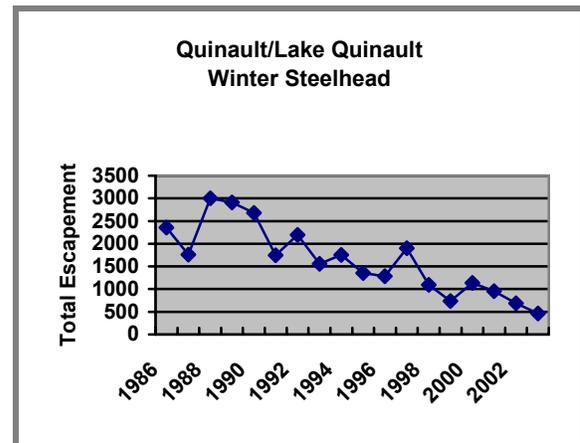
1992 STATUS
Healthy

2002 STATUS
Depressed

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:
Good

YEAR	TOTAL ESCAPEMENT
1986	2,354
1987	1,764
1988	3,002
1989	2,910
1990	2,682
1991	1,745
1992	2,192
1993	1,557
1994	1,755
1995	1,352
1996	1,282
1997	1,903
1998	1,091
1999	734
2000	1,136
2001	956
2002	684
2003	462



Data are wild spawner total escapement estimates based on redd counts in index areas of the Quinault basin.

Quinault/Lake Quinault winter steelhead are rated **Depressed** due to a **long-term negative trend** in escapements. Escapement values have steadily declined in the last ten years and have not shown improvement.

STOCK DEFINITION

Quinault/Lake Quinault winter steelhead were identified as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Most spawning takes place in the lower mainstem Quinault River (RM 4.0 to 33.0) and in tributaries such as Boulder North, Prairie, Ten O'clock and Boulder South creeks.

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SPAWNING TIMING: Spawning generally occurs from February through June.

GENETIC ANALYSIS: Allozyme analysis suggests that Quinault/Quinault Lake winter steelhead are genetically distinct from the upper river Quinault stock and that Lake Quinault may serve as a barrier to gene flow (Phelps et al. 1997).

STOCK ORIGIN

This is a **mixed** stock with **wild** production. Large numbers of non-native hatchery fry have been released in the lower Quinault River and likely contribute to wild spawning.