

QUILLAYUTE – SOL DUC SUMMER COHO

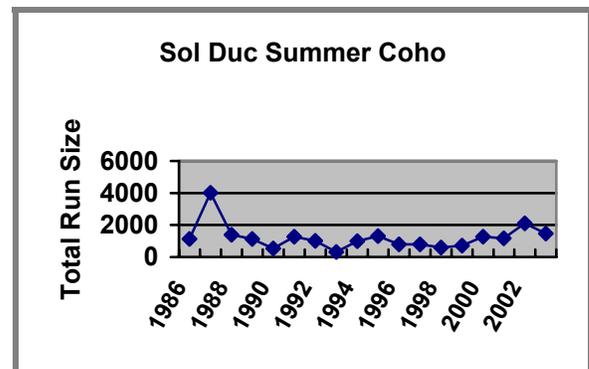
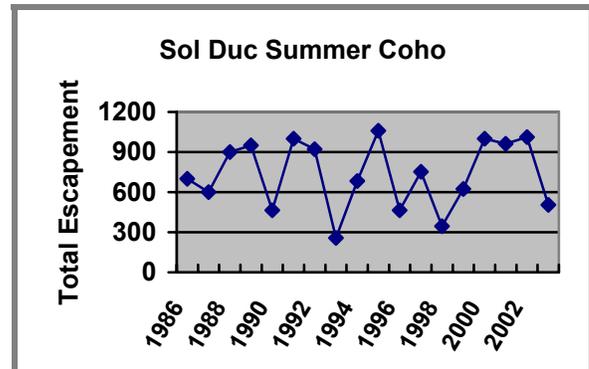
STOCK STATUS

1992 STATUS Healthy	2002 STATUS Healthy
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: *Poor/Good*

YEAR	TOTAL ESCAPEMENT	TOTAL RUN SIZE
1986	700	1,133
1987	600	4,020
1988	900	1,395
1989	950	1,138
1990	465	528
1991	1,001	1,280
1992	921	1,022
1993	256	324
1994	683	999
1995	1,060	1,318
1996	465	801
1997	753	798
1998	346	593
1999	624	723
2000	1,001	1,280
2001	961	1,172
2002	1,012	2,099
2003	505	1,467



Data are escapement estimates based on redd counts in the Sol Duc “Hot Springs” coho index area on the mainstem Sol Duc River (RM 62.0). Total run-size estimates are escapement plus in-river sport and net catches. Our ability to rate stock status based on escapement estimates is poor because the estimates are based on only one index area.

This stock is rated **Healthy** because there has been no decline in escapements since the last status review, and escapement is considered adequate for the main spawning habitat reach upstream of the Salmon Cascades (RM 59.0). Historical terminal run data prior to 1986 suggests a significant reduction in average wild terminal run size since the 1970s, but problems with the historical terminal catch allocation estimates between the natural-origin coho and hatchery coho make the terminal run-size data a somewhat unreliable trend indicator (i.e., the actual wild-origin terminal run size may be much smaller than the estimates of natural terminal run size, due to misallocation of hatchery-origin fish to the wild return). The number of hatchery smolts stocked annually was reduced dramatically between the late 1970s and early 1980s and later years, so the total summer coho run size dropped dramatically from that time period as well (Jeff Haymes, WDFW, personal communication). A Depressed rating should be considered if escapement and/or run size trends do not improve.

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STOCK DEFINITION

Sol Duc summer coho were identified as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Most spawning takes place in a short stretch of the Sol Duc River (RM 61.0 to 63.0) above the Salmon Cascades. Other spawning tributaries include Bear, Camp and Beaver creeks.

SPAWNING TIMING: Spawning generally occurs from late October to early December.

GENETIC ANALYSIS: Genetic analysis has not been done on Sol Duc summer coho.

STOCK ORIGIN

This is a **native** stock with **composite** production. The coho program at the WDFW Sol Duc Hatchery uses rack return fish for brood stock. The hatchery stock was originally derived from native summer coho stock.