

# HOOD CANAL – DEWATTO FALL CHUM

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## STOCK STATUS

1992 STATUS

**Healthy**

2002 STATUS

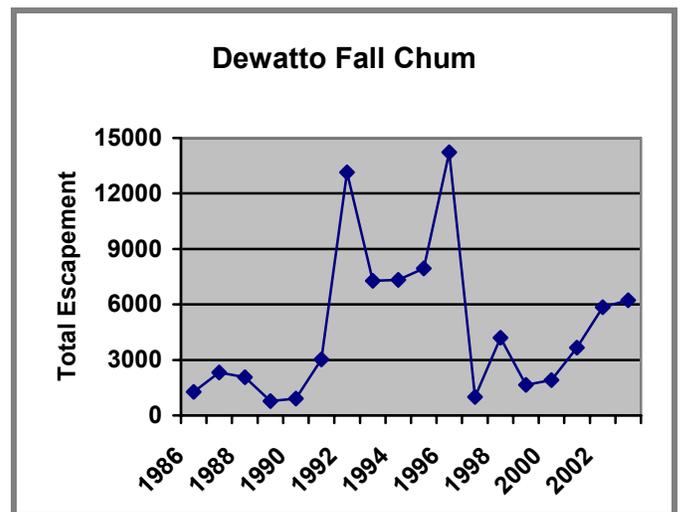
**Healthy**

## STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:

Good

YEAR	TOTAL ESCAPEMENT
1986	1,273
1987	2,326
1988	2,061
1989	782
1990	911
1991	3,031
1992	13,146
1993	7,273
1994	7,321
1995	7,955
1996	14,233
1997	997
1998	4,200
1999	1,644
2000	1,913
2001	3,660
2002	5,846
2003	6,219



Data are total escapement estimates based on live spawner counts in index areas on the lower mainstem Dewatto and in two tributaries, Shoe and White creeks.

Escapements of Dewatto fall chum have been strong since the early 1990s. The stock is therefore rated **Healthy** in 2002.

## STOCK DEFINITION

Dewatto fall chum were identified as a stock based on their distinct spawning distribution.

**SPAWNING DISTRIBUTION:** Most spawning takes place in the lower mainstem Dewatto and in Shoe and White creeks.

**SPAWNING TIMING:** Spawning generally occurs from late November through December.

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GENETIC ANALYSIS: Allozyme analysis of Dewatto fall chum has shown that the stock contributes to the genetic heterogeneity with Hood Canal but not all pairwise comparisons with other Hood Canal fall chum stocks show significant differences (Phelps et al. 1995).

## STOCK ORIGIN

This is a **mixed** stock with **composite** production. Extensive releases of non-native hatchery-origin fall chum into the Dewatto River may have affected the genetic composition of the stock.