

HOOD CANAL – SOUTHEAST HOOD CANAL FALL CHUM

STOCK STATUS

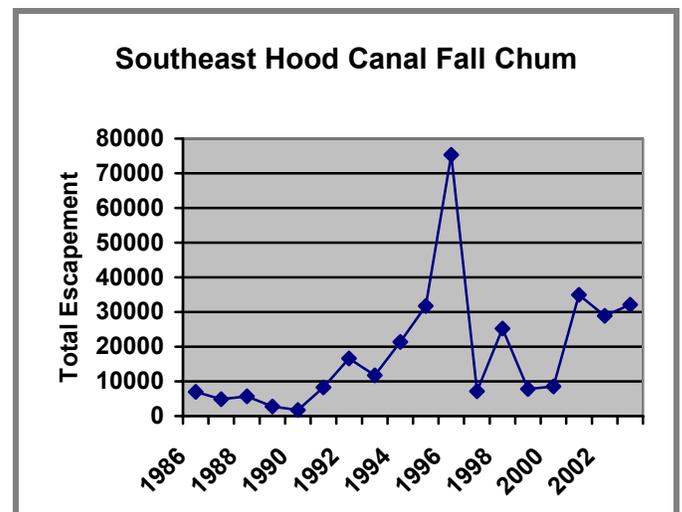
1992 STATUS	2002 STATUS
Healthy	Healthy

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:

Good

YEAR	TOTAL ESCAPEMENT
1986	6,970
1987	4,868
1988	5,725
1989	2,724
1990	1,760
1991	8,281
1992	16,595
1993	11,722
1994	21,396
1995	31,747
1996	75,360
1997	7,175
1998	25,241
1999	7,753
2000	8,541
2001	34,917
2002	28,887
2003	32,090



Data are total escapement estimates based on live spawner counts in index areas in the Union and Tahuya rivers and in Stimson, Big and Little Mission, Twanoh, Alderbrook, Rendland and Caldervin creeks.

Southeast Hood Canal fall chum escapements have been strong since the early 1990s with one extraordinary estimated escapement of 75,360 in 1996. The stock is rated **Healthy** in 2002.

STOCK DEFINITION

Southeast Hood Canal fall chum were recognized as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Most spawning takes place in the lower two miles of the Union and Tahuya rivers and in Stimson, Big and Little Mission, Twanoh, Alderbrook, Rendland and Caldervin creeks.

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

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GENETIC ANALYSIS: Allozyme analysis of Southeast Hood Canal fall chum (Big Mission Creek, Little Mission Creek and Tahuya River collections) has shown that Big Mission Creek fish are distinct from the other two subpopulations within the stock (Phelps et al 1995).

STOCK ORIGIN

This is a **mixed** stock with **composite** production. Extensive releases of non-native hatchery fall chum into southeast Hood Canal streams may have affected the genetic composition of the stock.