

HOOD CANAL – HAMMA HAMMA LATE FALL CHUM

STOCK STATUS

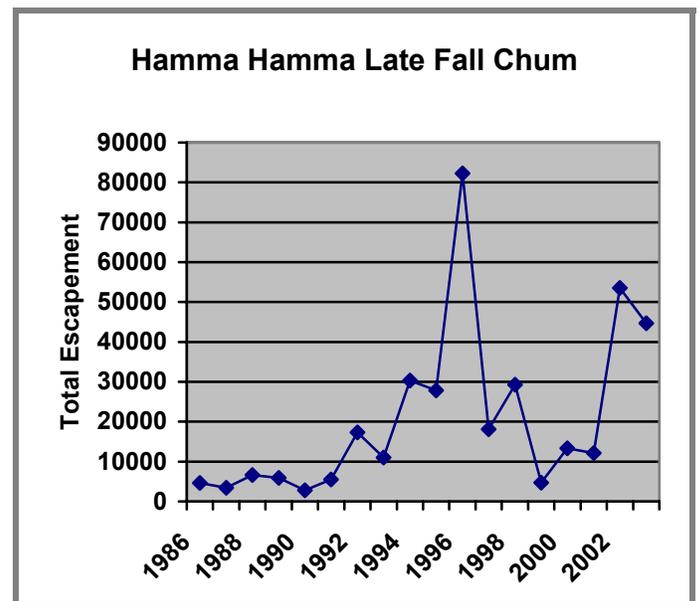
1992 STATUS Healthy	2002 STATUS Healthy
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS:

Good

YEAR	TOTAL ESCAPEMENT
1986	4,648
1987	3,430
1988	6,630
1989	5,924
1990	2,798
1991	5,485
1992	17,320
1993	11,027
1994	30,346
1995	27,820
1996	82,297
1997	18,114
1998	29,299
1999	4,734
2000	13,289
2001	12,088
2002	53,554
2003	44,688



Data are total escapement estimates based on live spawner counts in index areas on the Hamma Hamma and John Creek, a tributary.

Hamma Hamma late fall chum escapements have been strong since the early 1990s with one extraordinary escapement of 82,297 in 1996. The stock is rated **Healthy** in 2002.

STOCK DEFINITION

Hamma Hamma late fall chum were identified as a stock based on their distinct spawning distribution and somewhat late run timing and spawning timing.

SPAWNING DISTRIBUTION: Most spawning takes place in the lower mile of the Hamma Hamma River and in John Creek.

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SPAWNING TIMING: Spawning generally occurs from late November through early January. Late return and spawn timing have allowed the stock to remain viable since commercial fisheries target earlier-returning Hood Canal hatchery-origin fall chum.

GENETIC ANALYSIS: Allozyme analysis has shown that there is considerable genetic variation within Hood Canal fall chum stocks. Pairwise comparisons of Hamma Hamma late fall chum with other Hood Canal fall chum stocks do not always show significant differences (Phelps et al. 1995).

STOCK ORIGIN

This is a **native** stock with **wild** production.