

STRAIT OF JUAN DE FUCA – DUNGENESS CHINOOK

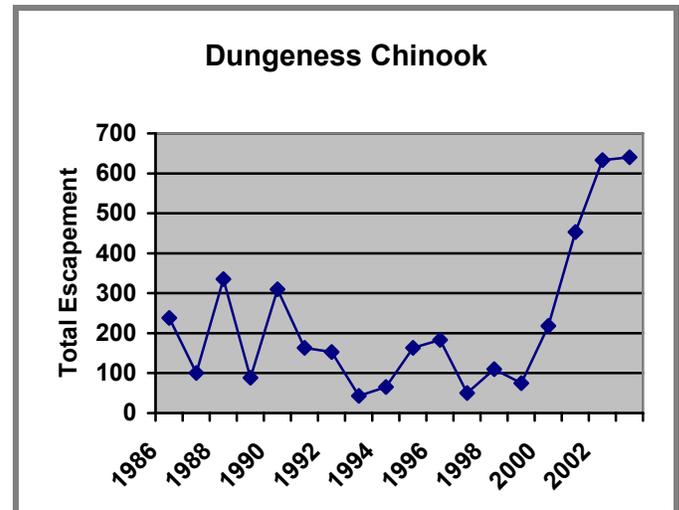
STOCK STATUS

1992 STATUS Critical	2002 STATUS Critical
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Excellent

YEAR	TOTAL ESCAPEMENT
1986	238
1987	100
1988	335
1989	88
1990	310
1991	163
1992	153
1993	43
1994	65
1995	163
1996	183
1997	50
1998	110
1999	75
2000	218
2001	453
2002	633
2003	640



Data are total escapement estimates expanded from redd counts from RM 0.0 to 18.7 in the Dungeness River and from RM 0.0 to 5.1 in the Gray Wolf River.

Stock status continues to be rated **Critical** in 2002 due to **chronically low** escapements that are well below the escapement goal of 925 adults. The increased escapement in 2001 may be the result, in part, of ongoing hatchery supplementation efforts.

[Stock status continues to be rated **Critical** in 2002 due primarily to low escapement. The average number of spawners for brood years 1988 through 1997 is 156, which is less than the Comprehensive Chinook low abundance threshold for the stock of 500 spawners (PSIT and WDFW 2001). In addition, stock productivity is low, even assuming low marine survival, but is not in the critical range.]

STOCK DEFINITION

STRAIT OF JUAN DE FUCA – DUNGENESS CHINOOK

Dungeness Chinook were identified as a stock based on their distinct spawning distribution and timing. Stock identification is supported by genetic analysis.

SPAWNING DISTRIBUTION: Most spawning takes place from the mouth to RM 18.9 in the mainstem Dungeness and the lower 6.1 miles of the Gray Wolf River.

SPAWNING TIMING: Spawning generally occurs from mid-August to mid-October. Spawning begins about two weeks earlier in the upper portions of the river than in the lower portion.

GENETIC ANALYSIS: Allozyme analysis to examine family contributions to a state-tribal hatchery-based supplementation program for Dungeness has been conducted. No examination of the relationship between Dungeness Chinook and other Chinook stocks has been made (Anne Marshall, WDFW, personal communication).

STOCK ORIGIN

This is a **native** stock with **composite** production. A joint state-tribal hatchery-based supplementation program for Dungeness Chinook began in 1992 and is carried out at the WDFW Dungeness and Hurd Creek hatcheries.