

LAKE WASHINGTON - ISSAQUAH CHINOOK

This stock was called Issaquah summer/fall Chinook in the 1992 SASSI. Run timing designations have been dropped from most Puget Sound Chinook stock names because they have been inconsistently applied.

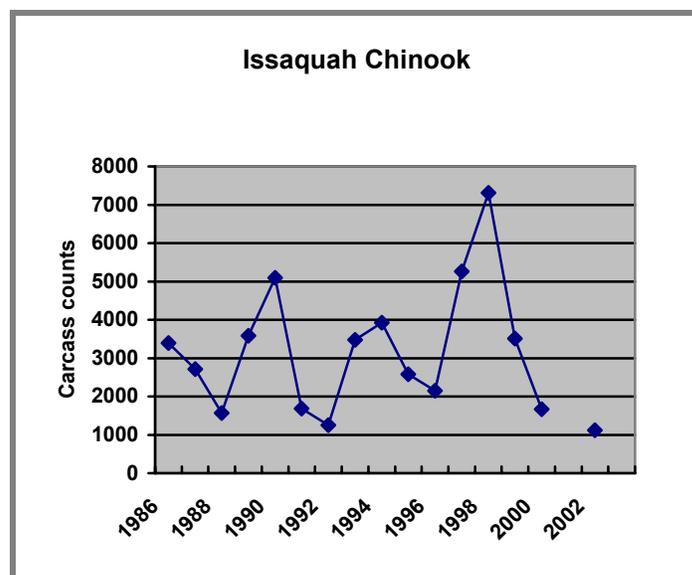
STOCK STATUS

1992 STATUS Healthy	2002 STATUS Healthy
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: *Good*

YEAR	CARCASS COUNTS
1986	3,396
1987	2,716
1988	1,567
1989	3,585
1990	5,098
1991	1,684
1992	1,254
1993	3,475
1994	3,923
1995	2,582
1996	2,146
1997	5,265
1998	7,314
1999	3,507
2000	1,668
2001	
2002	1,118



Data are carcass counts in Issaquah Creek from RM 0.0 to 3.0 and the East Fork Issaquah Creek from RM 0.0 to 3.1.

Spawners in Issaquah Creek are believed to be entirely the result of hatchery production, mostly from Issaquah Hatchery. Many more fish return than are needed at the hatchery, and surplus fish are allowed to spawn naturally. Numbers of naturally spawning Chinook have been high and fairly stable, so status is rated **Healthy** in 2002. Historically, this watershed probably did not have a sustainable population of Chinook.

STOCK DEFINITION

Issaquah Chinook were identified as a stock based on their distinct spawning distribution.

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SPAWNING DISTRIBUTION: Most spawning takes place in Issaquah Creek and its East Fork.

SPAWNING TIMING: Spawning generally occurs from late September through October.

GENETIC ANALYSIS: Allozyme analysis of the Issaquah and North Lake Washington Tribes Chinook stocks has yielded no strong indication that the two stocks are genetically distinct (Marshall 2000). Microsatellite DNA analysis of essentially the same samples also showed no evidence that the Issaquah and North Lake Washington Tribes populations were significantly different from one another (Young and Shaklee 2000). Both Lake Washington stocks were significantly different from Soos Creek Hatchery (Green River) Chinook and from White River (Puyallup) spring Chinook sampled at the Hupp Springs Hatchery (Young and Shaklee 2000).

STOCK ORIGIN

This is a **non-native** stock with **composite** production. We believe the stock is derived from the Soos Creek Hatchery Chinook stock, in use at Issaquah Hatchery since the 1930s. Other non-local stocks may have also influenced the stock composition, since it is now genetically different from the Soos Creek Hatchery population.