

# **DUWAMISH/GREEN – CRISP CREEK FALL CHUM**

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## **STOCK STATUS**

<b>1992 STATUS</b> Healthy	<b>2002 STATUS</b> Unknown
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## **STOCK STATUS RATING DATA**

There are no abundance trend data for Crisp Creek fall chum, so their status is **Unknown** in 2002. Chum salmon spawners in Crisp Creek are a part of the hatchery population supported by the Muckleshoot Tribe's Keta Creek Hatchery. The hatchery program is very successful, and all indications are that large numbers of chum salmon annually spawn in Crisp Creek downstream of the hatchery rack. However, there are no actual counts of spawners that can be used to rate stock status.

## **STOCK DEFINITION**

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

**SPAWNING DISTRIBUTION:** Spawning takes place in Crisp Creek.

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

**GENETIC ANALYSIS:** Allozyme analysis has shown that Crisp Creek fall chum sampled in 1994 are not significantly different from Quilcene Hatchery chum, from which they were derived (Phelps et al. 1995). Results of more recent analyses are not yet available.

## **STOCK ORIGIN**

This is a **non-native** stock with **composite** production. Keta Creek Hatchery chum originated from releases of Quilcene and Hoodspout hatchery stock. Surplus hatchery fish spawn in Crisp Creek and may also mix with mainstem native spawners. In 1990 efforts were initiated to replace this stock with a South Puget Sound stock from the Suquamish Tribal hatchery.