

SOUTH SOUND – CARR INLET FALL CHUM

STOCK STATUS

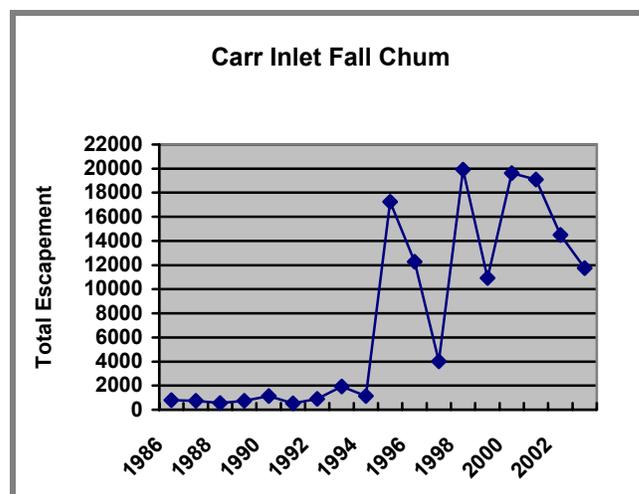
1992 STATUS Healthy	2002 STATUS Healthy
-------------------------------	-------------------------------

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK

STATUS: Good

YEAR	TOTAL ESCAPEMENT
1986	797
1987	751
1988	555
1989	745
1990	1,135
1991	537
1992	904
1993	1,922
1994	1,147
1995	17,259
1996	12,293
1997	4,018
1998	19,901
1999	10,925
2000	19,615
2001	19,106
2002	14,511
2003	11,759



Data are total escapement estimates based on annual index counts of live spawners in Carr Inlet streams.

Stock status is rated **Healthy** in 2002. Escapements increased substantially beginning in 1995 and have remained at high levels, primarily because of a successful chum salmon enhancement program at the Minter Creek Hatchery.

STOCK DEFINITION

Carr Inlet fall chum were identified as a stock based on their distinct spawning distribution. Burley Creek chum have an earlier spawning peak (November) than chum in Lackey Creek.

SPAWNING DISTRIBUTION: Most spawning takes place in Burley and Lackey creeks.

SPAWNING TIMING: Spawning generally occurs from late December through early January.

SOUTH SOUND – CARR INLET FALL CHUM

GENETIC ANALYSIS: Allozyme analysis has shown Carr Inlet fall chum salmon to have a mixed genetic background (Phelps et al. 1995). Minter Creek chum were derived from Elson Creek Hatchery stock, which was recently used to replace the previous Hood Canal-origin population. Lackey Creek may have a remnant native fall chum population.

STOCK ORIGIN

This is a **mixed** stock with **composite** production. Extensive hatchery introductions and strays from Minter Creek Hatchery have influenced the genetic makeup of wild spawning fish in this inlet. Prior to 1992, the Minter Creek Hatchery reared and released fall chum of Hood Canal origin. By 1992, this stock was replaced with the South Sound-origin Elson Creek Hatchery stock. The aggregate Carr Inlet stock should be considered mixed. Lackey Creek may be the lone remaining stream that could have native Carr Inlet fall chum.