

UPPER COLUMBIA – CHIWAWA SPRING CHINOOK

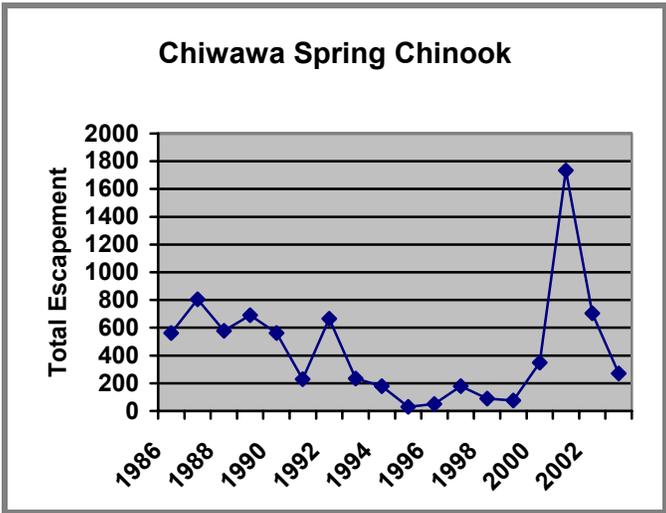
STOCK STATUS

1992 STATUS Depressed	2002 STATUS Depressed
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Fair

YEAR	TOTAL ESCAPEMENT
1986	561
1987	805
1988	579
1989	691
1990	561
1991	229
1992	664
1993	233
1994	180
1995	29
1996	51
1997	180
1998	90
1999	75
2000	349
2001	1,733
2002	705
2003	270



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Data are total escapement estimates based on redd counts from foot surveys throughout the Chiwawa watershed.

Although escapements increased in 2000 and 2001, we are not certain that this level of escapement will be maintained. Therefore stock status in 2002 remains **Depressed** because of **chronically low** escapements.

STOCK DEFINITION

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

SPAWNING DISTRIBUTION: Spawning takes place throughout the mainstem Chiwawa River.

SPAWNING TIMING: Spawning generally occurs from early August to mid-September.

GENETIC ANALYSIS: Allozyme analysis has shown that Chiwawa and Nason Creek (both Wenatchee River tributaries) spring Chinook are not significantly different from one another. However, the two stocks together are genetically distinct from other Upper Columbia spring Chinook (WDF and WDW 1993).

STOCK ORIGIN

This is thought to be a **native** stock with **composite** production. However, the stock may have been affected by releases of non-native spring Chinook into the Wenatchee River basin during the Grand Coulee Fish Maintenance Project (1939 to 1943). Today Chiwawa broodstock is spawned at the WDFW Eastbank Hatchery. Juveniles are acclimated in the Chiwawa basin prior to release.