

# LOWER COLUMBIA – WIND SUMMER STEELHEAD

This stock combines the Mainstem Wind summer steelhead, Panther Creek summer steelhead, and Trout Creek summer steelhead stocks from the 1992 SASSI.

## STOCK STATUS

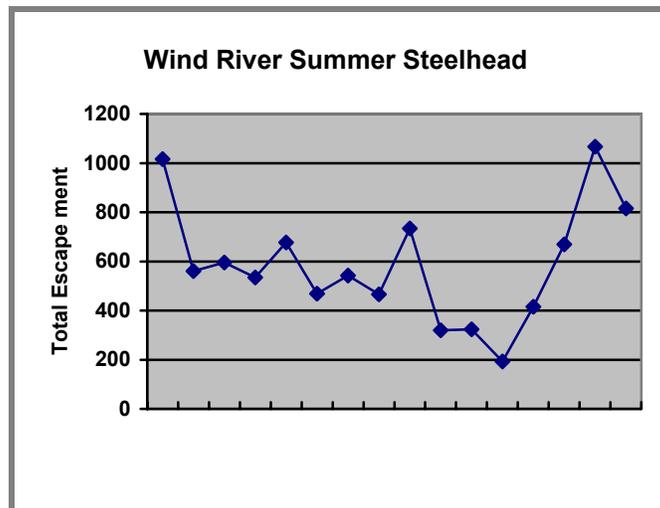
<b>1992 STATUS</b> <b>Depressed</b>	<b>2002 STATUS</b> <b>Depressed</b>
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## STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Good

YEAR	TOTAL ESCAPEMENT
1989	1016
1990	561
1991	596
1992	535
1993	677
1994	468
1995	543
1996	466
1997	734
1998	320
1999	323
2000	193*
2001	416*
2002	669*
2003	1067*
2004	816*

\*preliminary estimate



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Data are total escapement derived from snorkel index estimates based on a mark-recapture program. Summer steelhead are marked at the Shipherd Falls trap and passed upstream. During snorkel surveys in index areas above the falls, numbers of marked and unmarked fish are counted and index escapement estimates are made. Data from 2000 to 2004 is based on 'jumper' estimates at Shipherd Falls and are considered preliminary estimates.

Stock status is rated **Depressed** in 2002 because of **chronically low** escapements. Currently, the relationship between snorkel survey results and the total escapement of summer steelhead is unknown. An escapement goal of 957 adults has been established for this stock

## STOCK DEFINITION

Wind River summer steelhead were identified as a stock based on their distinct spawning distribution and early run timing.

**Spawning Distribution:** Spawning takes place in the mainstem Wind River and in Panther and Trout creeks.

**SPAWNING TIMING:** Spawning generally occurs from early March through early June.

**GENETIC ANALYSIS:** Allozyme analysis of mainstem Wind River and Panther Creek summer steelhead sampled in 1994 clustered them with a number of lower Columbia summer and winter steelhead stocks including Skamania Hatchery summer steelhead. A collection from Trout Creek was part of an outlier cluster that included SF Nooksack summer steelhead, Washougal steelhead and Cowlitz late winter (native) steelhead (Phelps et al. 1997).

## STOCK ORIGIN

This is a **native** stock with **wild** production.