

UPPER COLUMBIA – ENTIAT SUMMER STEELHEAD

STOCK STATUS

1992 STATUS	2002 STATUS
Depressed	Unknown

STOCK STATUS RATING DATA

There are no adequate abundance trend data for Entiat summer steelhead, so their status is **Unknown** in 2002.

STOCK DEFINITION

Entiat summer steelhead were identified as a stock based on their distinct spawning distribution.

SPAWNING TIMING: Spawning takes place in the Entiat and Mad rivers.

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

GENETIC ANALYSIS: No genetic analysis has been done on Entiat summer steelhead.

STOCK ORIGIN

This is a **mixed** stock with **composite** production. From 1939 through 1943 the Grand Coulee Fish Maintenance Project collected adult steelhead originating from natal streams above Rock Island Dam, including those above Grand Coulee Dam, and randomly mixed them to create a common broodstock that what used for distribution of smolts into the Wenatchee, Entiat and Methow rivers. Skamania summer steelhead were also released into the Wenatchee and Entiat rivers from the late 1970s through 1989.

Stocking was haphazard until formal Public Utility District (PUD) mitigation programs came into effect in 1963. From 1965 until 1999, the Chelan PUD released an average of 40,000 summer steelhead smolts into the Entiat basin as part of the Rocky Reach Mitigation Agreement. The proportion of hatchery-origin fish spawning in the Entiat increased until 1987. Since then, the proportion of wild fish has increased.

Hatchery releases into the Entiat were discontinued in 1999 at the request of NOAA Fisheries (then the National Marine Fisheries Service) who wanted a control stream with no hatchery releases to compare with upper Columbia tributaries that receive hatchery releases for supplementation-based recovery.