

GRAYS HARBOR – HUMPTULIPS COHO

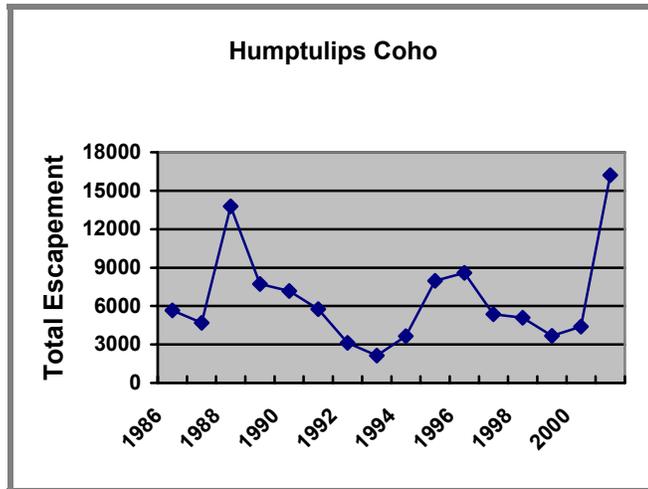
STOCK STATUS

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

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Good

| YEAR | TOTAL ESCAPEMENT |
|------|------------------|
| 1986 | 5,666 |
| 1987 | 4,681 |
| 1988 | 13,789 |
| 1989 | 7,724 |
| 1990 | 7,176 |
| 1991 | 5,758 |
| 1992 | 3,120 |
| 1993 | 2,144 |
| 1994 | 3,654 |
| 1995 | 7,972 |
| 1996 | 8,598 |
| 1997 | 5,365 |
| 1998 | 5,093 |
| 1999 | 3,666 |
| 2000 | 4,406 |
| 2001 | 16,208 |



Data are total escapement estimates based on redd counts within intensive and supplemental index areas expanded to basin-wide totals. Index areas surveyed include the mainstem Humptulips River (RM 16.7 to 19.4), West Fork Humptulips River (RM 36.7 to 40.6) and East Fork Humptulips River (RM 1.6 to 4.4). Surveyed tributaries include Big, Hansen, Stevens, Britian, Ellwood, Widow, O'Brien and Donkey creeks. In 1999, fifteen supplemental surveys were conducted that also included Fairchild, Newbury and Grouse creeks as well as unnamed tributaries 22.0052, 22.0059, 22.0072, 22.0080A, 22.0080B and 22.0088.

Natural escapements continue to be reasonably large, given the basin size and have remained within the normal variations for this stock, therefore stock status is again rated **Healthy** in 2002.

STOCK DEFINITION

Humptulips coho were identified as a stock based on their distinct spawning distribution and spawning timing. There has been considerable discussion as to whether the late-spawning component (January-February) represents a separate stock or part of a single Humptulips River stock.

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SPAWNING DISTRIBUTION: Spawning takes place in over sixty tributaries scattered throughout the Humptulips watershed. Spawning primarily occurs in Big, Hansen, Fairchild, Stevens, Ellwood, O'Brien, Donkey and Newbury creeks. Some spawning also takes place in the lower mainstem Humptulips and in both the east and west forks of the Humptulips River.

SPAWNING TIMING: Spawning generally occurs from late October through mid-February.

GENETIC ANALYSIS: Genetic analysis has not been done on Humptulips coho.

STOCK ORIGIN

This is a **mixed** stock with **composite** production. Releases of hatchery-reared coho have been continuous since the early 1950s. The majority of releases occurred in the mainstem Humptulips River with stocks that included Soos Creek, Minter Creek, Samish, Dungeness, Sol Duc and Satsop. This same stock mix is found throughout Grays Harbor tributaries. In 1977 the Humptulips Hatchery began large-scale on- and off-station production releases. As a result of the historical movement of stocks and the size of yearling release groups, and in more recent years, the large numbers of naturally spawning hatchery adults, this stock is likely a mixture of native and non-native stocks.