

HOOD CANAL - SKOKOMISH COHO

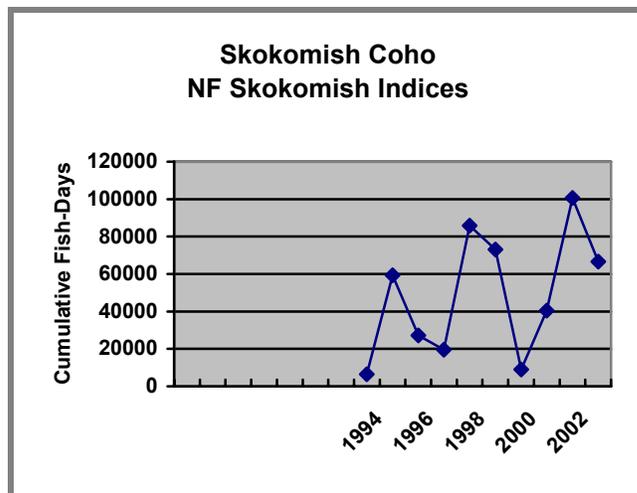
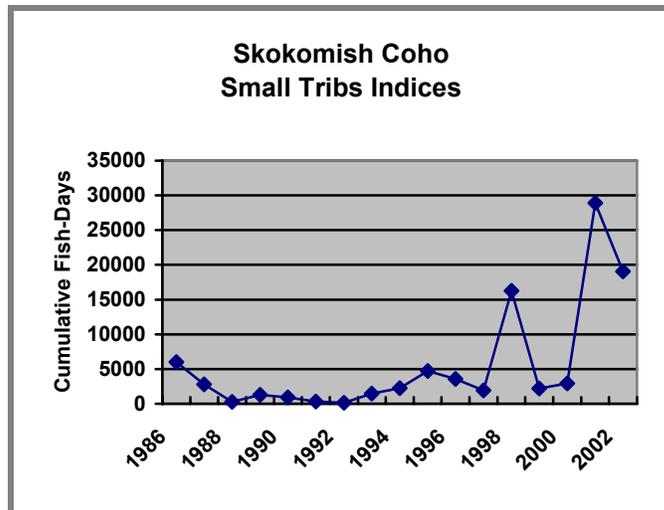
STOCK STATUS

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

STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: *Good*

| YEAR | CUMULATIVE FISH-DAYS | |
|------|----------------------|--------------|
| | SMALL TRIBS | NF SKOKOMISH |
| 1986 | 5,991 | |
| 1987 | 2,791 | |
| 1988 | 277 | |
| 1989 | 1,277 | |
| 1990 | 904 | |
| 1991 | 307 | |
| 1992 | 127 | |
| 1993 | 1,461 | 6,484 |
| 1994 | 2,263 | 59,244 |
| 1995 | 4,730 | 27,163 |
| 1996 | 3,572 | 19,578 |
| 1997 | 1,931 | 85,819 |
| 1998 | 16,274 | 73,065 |
| 1999 | 2,213 | 9,023 |
| 2000 | 2,912 | 40,486 |
| 2001 | 28,892 | 100,639 |
| 2002 | 16,079 | 66,666 |



Data are: 1) sum-of-season cumulative fish-days values for index areas in the following small Skokomish tributaries: Swift Creek (RM 0.0 to 0.3), Kirkland Creek (RM 0.0 to 0.6), Kirkland Cr. unnamed tributary (16.0015, RM 0.0 to 0.9), and Fir Creek (RM 0.0 to 0.3) creeks; and 2) cumulative fish-days values for the North Fork Skokomish River index areas (RM 12.0 to 15.6) begun in 1993.

Spawner escapements in indices for the small tributaries have increased substantially since 1993. New escapement information from the most significant spawning tributary in the Skokomish River basin, the North Fork Skokomish, became available starting in 1993. Cumulative fish-days on the order of 20,000

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to 100,000 since 1994 convert to about 2,000 to 5,000 adult coho in the 3.6 miles of the North Fork that are surveyed. Stock status is therefore rated **Healthy** in 2002.

STOCK DEFINITION

Skokomish coho were identified as a stock based their distinct spawning distribution.

SPAWNING DISTRIBUTION: Spawning takes place throughout the Skokomish system wherever accessible and suitable habitat is available. Spawning in the upper North Fork Skokomish is blocked by Tacoma City Light dams.

SPAWNING TIMING: Spawning occurs from late October to early January.

GENETIC ANALYSIS: Allozyme analysis of North Fork Skokomish coho sampled in 1994 and 1995 showed them to be significantly different from all other Washington coho (David Teel, NMFS, personal communication).

STOCK ORIGIN

This is a **mixed** stock with **wild** production. There have been substantial releases of non-native coho fry and yearlings into this system, particularly from George Adams Hatchery on Purdy Creek. There were several releases into Purdy Creek utilizing Quilcene, Samish, Soos Creek, Hood Canal and Skykomish hatchery stocks with additional use of Puyallup, Minter Creek and Sol Duc stocks. Fingerling/fry releases from 1958 to 1973 utilized primarily Hood Canal and George Adams stocks. This stock is likely a mixture of the native and introduced non-native stocks.