

SKOKOMISH RIVER BASIN

12059500 NORTH FORK SKOKOMISH RIVER NEAR POTLATCH, WA

LOCATION.--Lat 47°19'42", long 123°14'33", in NE 1/4 NW 1/4 sec.7, T.21 N., R.4 W., Mason County, Hydrologic Unit 17110017, on left bank 1.1 mi upstream from South Fork Skokomish River, 5.4 mi southwest of Potlatch, 7.2 mi downstream from City of Tacoma Cushman Dam No. 2, and at mile 10.1.

DRAINAGE AREA.--117 mi², includes 99 mi² upstream from Cushman Dam No. 2, which is noncontributing except during spillage.

PERIOD OF RECORD.--March 1944 to November 1949 (destroyed by flood of Nov. 27, 1949), March 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.49 ft above NGVD of 1929 (levels by City of Tacoma). Prior to Nov. 27, 1949, and Mar. 18 to May 9, 1950, water-stage recorder at site 200 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Upper portion of McTaggart Creek is diverted through Deer Meadow Creek into Cushman Reservoir No.2. Flow regulated at Lake Cushman and at Cushman Reservoir No.2 to supply powerplant, which discharges into Hood Canal. Entire flow of river normally diverted at Cushman Dam No.2 except infrequent releases. Water temperatures March 1965 to September 1982.

AVERAGE DISCHARGE.--52 years (water years 1951-2002), 118 ft³/s, 85,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,740 ft³/s Nov. 4, 1955, gage height, 10.45 ft; minimum recorded discharge, 1.3 ft³/s Sept. 5, 14, 16, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,030 ft³/s Dec. 16, gage height, 7.10 ft; minimum discharge 62 ft³/s, several days in August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1 | 65 | 123 | 724 | 173 | 192 | 171 | 118 | 105 | 88 | 78 | 67 | 67 |
| 2 | 65 | 114 | 619 | 219 | 181 | 160 | 114 | 105 | 89 | 75 | 67 | 67 |
| 3 | 65 | 105 | 367 | 222 | 196 | 153 | 112 | 104 | 88 | 73 | 67 | 67 |
| 4 | 65 | 99 | 294 | 201 | 186 | 147 | 111 | 102 | 88 | 73 | 68 | 67 |
| 5 | 65 | 94 | 257 | 208 | 181 | 140 | 110 | 103 | 86 | 72 | 67 | 67 |
| 6 | 66 | 91 | 265 | 490 | 261 | 136 | 109 | 100 | 85 | 72 | 67 | 68 |
| 7 | 67 | 88 | 248 | 1870 | 322 | 132 | 108 | 98 | 85 | 72 | 66 | 68 |
| 8 | 67 | 84 | 243 | 1060 | 262 | 126 | 106 | 98 | 84 | 71 | 66 | 68 |
| 9 | 68 | 82 | 231 | 529 | 223 | 130 | 113 | 98 | 82 | 70 | 66 | 68 |
| 10 | 73 | 81 | 226 | 1350 | 201 | 156 | 120 | 96 | 83 | 70 | 66 | 68 |
| 11 | 69 | 80 | 218 | 2590 | 182 | 452 | 132 | 93 | 83 | 70 | 66 | 67 |
| 12 | 71 | 83 | 228 | 2600 | 170 | 392 | 141 | 93 | 82 | 69 | 65 | 66 |
| 13 | 70 | 144 | 602 | 2530 | 161 | 338 | 187 | 93 | 80 | 69 | 65 | 66 |
| 14 | 71 | 610 | 633 | 1530 | 152 | 269 | 307 | 93 | 80 | 69 | 65 | 67 |
| 15 | 69 | 650 | 408 | 217 | 147 | 230 | 256 | 90 | 80 | 69 | 65 | 68 |
| 16 | 69 | 368 | 1730 | 188 | 143 | 201 | 236 | 91 | 79 | 69 | 65 | 69 |
| 17 | 68 | 246 | 1190 | 174 | 138 | 180 | 211 | 91 | 84 | 69 | 66 | 66 |
| 18 | 67 | 189 | 597 | 164 | 136 | 171 | 186 | 88 | 83 | 68 | 67 | 66 |
| 19 | 67 | 230 | 436 | 159 | 153 | 164 | 169 | 92 | 79 | 69 | 67 | 65 |
| 20 | 67 | 426 | 340 | 165 | 141 | 181 | 157 | 91 | 77 | 69 | 66 | 66 |
| 21 | 67 | 571 | 278 | 155 | 478 | 169 | 146 | 90 | 77 | 68 | 67 | 65 |
| 22 | 77 | 606 | 243 | 140 | 966 | 164 | 137 | 89 | 76 | 67 | 67 | 65 |
| 23 | 85 | 382 | 213 | 139 | 546 | 155 | 130 | 89 | 76 | 68 | 67 | 65 |
| 24 | 80 | 265 | 193 | 278 | 362 | 148 | 125 | 89 | 74 | 67 | 67 | 64 |
| 25 | 104 | 210 | 179 | 458 | 273 | 144 | 122 | 89 | 72 | 68 | 67 | 66 |
| 26 | 89 | 176 | 168 | 301 | 228 | 140 | 120 | 89 | 72 | 68 | 68 | 68 |
| 27 | 105 | 155 | 159 | 239 | 202 | 135 | 119 | 89 | 72 | 68 | 67 | 69 |
| 28 | 95 | 183 | 175 | 206 | 184 | 130 | 114 | 97 | 90 | 67 | 67 | 70 |
| 29 | 87 | 256 | 158 | 186 | --- | 126 | 112 | 98 | 100 | 67 | 67 | 69 |
| 30 | 94 | 266 | 148 | 184 | --- | 123 | 108 | 91 | 81 | 68 | 68 | 69 |
| 31 | 146 | --- | 154 | 209 | --- | 120 | --- | 89 | --- | 67 | 67 | --- |
| TOTAL | 2383 | 7057 | 11924 | 19134 | 6967 | 5583 | 4336 | 2923 | 2455 | 2159 | 2063 | 2011 |
| MEAN | 76.9 | 235 | 385 | 617 | 249 | 180 | 145 | 94.3 | 81.8 | 69.6 | 66.5 | 67.0 |
| MAX | 146 | 650 | 1730 | 2600 | 966 | 452 | 307 | 105 | 100 | 78 | 68 | 70 |
| MIN | 65 | 80 | 148 | 139 | 136 | 120 | 106 | 88 | 72 | 67 | 65 | 64 |
| AC-FT | 4730 | 14000 | 23650 | 37950 | 13820 | 11070 | 8600 | 5800 | 4870 | 4280 | 4090 | 3990 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 71.1 | 195 | 272 | 243 | 217 | 149 | 97.0 | 53.1 | 41.2 | 28.1 | 25.4 | 23.8 |
| MAX | 943 | 1005 | 1262 | 938 | 982 | 570 | 272 | 136 | 300 | 102 | 155 | 82.5 |
| (WY) | 1952 | 1976 | 1951 | 1974 | 1951 | 1961 | 1999 | 1959 | 1969 | 1971 | 1991 | 1997 |
| MIN | 5.38 | 12.6 | 32.9 | 41.3 | 63.6 | 58.7 | 32.7 | 22.2 | 9.99 | 5.30 | 2.83 | 4.93 |
| (WY) | 1953 | 1977 | 1977 | 1979 | 1988 | 1981 | 1973 | 1964 | 1951 | 1951 | 1951 | 1952 |

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950 - 2002

| | | | | | | | | | | | | |
|--------------------------|-------|-------|--|--|--|--|--------|--|--|-------|--------|------|
| ANNUAL TOTAL | 48033 | 68995 | | | | | | | | | | |
| ANNUAL MEAN | 132 | 189 | | | | | | | | 118 | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 311 | | 1951 |
| LOWEST ANNUAL MEAN | | | | | | | | | | 36.6 | | 1977 |
| HIGHEST DAILY MEAN | | | | | | | | | | 6630 | Nov 4 | 1955 |
| LOWEST DAILY MEAN | | | | | | | | | | 1.4 | Sep 14 | 1951 |
| ANNUAL SEVEN-DAY MINIMUM | | | | | | | | | | 1.8 | Sep 12 | 1951 |
| ANNUAL RUNOFF (AC-FT) | 95270 | | | | | | 136900 | | | 85240 | | |
| 10 PERCENT EXCEEDS | 214 | | | | | | 313 | | | 240 | | |
| 50 PERCENT EXCEEDS | 96 | | | | | | 99 | | | 58 | | |
| 90 PERCENT EXCEEDS | 67 | | | | | | 67 | | | 11 | | |