# 12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°36′54″, long 121°42′44″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.31, T.25 N., R.9 E., King County, WA, Hydrologic Unit 17110010, on left bank 0.6 mi upstream from Calligan Creek, 7.0 mi northeast of town of Snoqualmie Falls, and at mile 9.2.

DRAINAGE AREA.--64.0 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1929 to October 1949, water years 1950-54, 56-57, 59-60 (annual maximum), February 1961 to current year.

REVISED RECORDS.--WSP 1346: 1930-31(M), 1932, 1935, 1936-37(M), 1938, 1939-42(M), 1944, 1945-46(P), 1947, 1948(P), 1949(M). WSP 1736: 1932-34(M), 1935, 1938(M), 1943-45(M), 1947(M), drainage area. WSP 1932: 1950-54(M), 1956-57(M), 1959(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,130 ft above NGVD of 1929, from topographic map. Prior to Oct. 19, 1949, water-stage recorder, and October 1949 to February 1961, crest-stage gage, at site 1,500 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. Daily water temperatures June 1979 to August 1980. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--67 years (water years 1930-49, 1962-2008), 502 $ft^3/s$, 106.57 in/yr, 363,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 $ft^3/s$, Feb. 26, 1932, gage height, 17.5 ft, site and datum then in use, from rating curve extended above 2,200 $ft^3/s$, on basis of slope-area measurement at gage height 16.47 ft; minimum discharge observed, 30 $ft^3/s$, Sept. 17-19, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Dec 3 | 1600 | *6,540 | *9.00 |
| No other peak greater than base discharge | | | |

Minimum discharge, 63 $ft^3/s$, Sept. 19, 20, gage height, 1.83 ft.

**12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA—Continued**

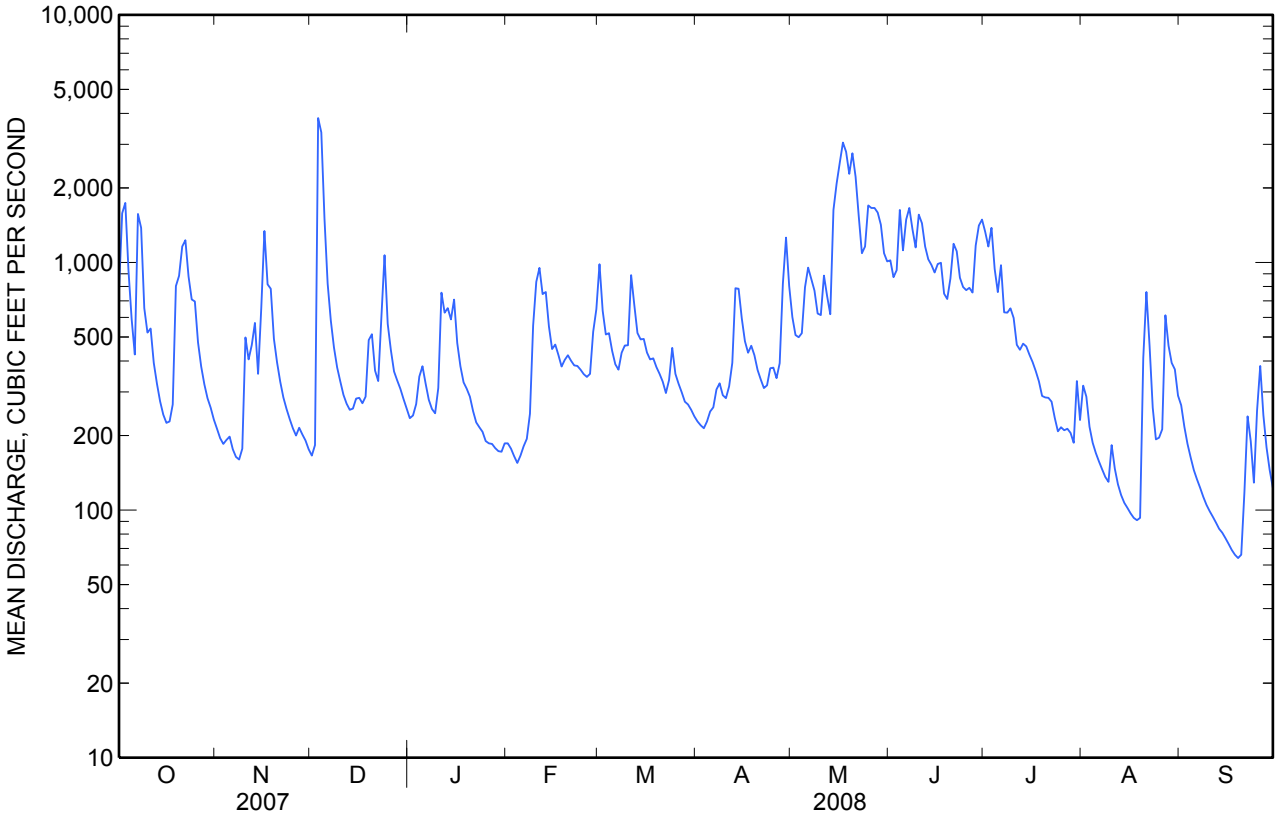
**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 764 | 213 | 166 | 235 | 186 | 984 | 228 | 602 | 1,020 | 1,330 | 318 | 265 |
| 2 | 1,580 | 195 | 183 | 241 | 177 | 638 | 220 | 509 | 872 | 1,160 | 287 | 217 |
| 3 | 1,740 | 185 | 3,830 | 268 | 165 | 512 | 214 | 499 | 931 | 1,380 | 217 | 185 |
| 4 | 927 | 192 | 3,350 | 346 | 155 | 518 | 228 | 518 | 1,630 | 941 | 187 | 163 |
| 5 | 591 | 198 | 1,500 | 381 | 166 | 439 | 250 | 794 | 1,120 | 759 | 170 | 145 |
| 6 | 425 | 176 | 823 | 324 | 181 | 388 | 260 | 953 | 1,490 | 975 | 157 | 133 |
| 7 | 1,570 | 164 | 583 | 279 | 194 | 369 | 307 | 857 | 1,660 | 629 | 146 | 123 |
| 8 | 1,380 | 160 | 454 | 256 | 245 | 432 | 325 | 769 | 1,360 | 627 | 136 | 113 |
| 9 | 654 | 177 | 377 | 246 | 556 | 462 | 291 | 622 | 1,150 | 653 | 130 | 105 |
| 10 | 521 | 498 | 331 | 311 | 835 | 463 | 283 | 613 | 1,560 | 597 | 183 | 99 |
| 11 | 541 | 406 | 292 | 755 | 951 | 889 | 316 | 885 | 1,440 | 465 | 147 | 94 |
| 12 | 393 | 464 | 269 | 627 | 745 | 675 | 393 | 731 | 1,160 | 444 | 127 | 89 |
| 13 | 324 | 570 | 254 | 654 | 760 | 519 | 787 | 618 | 1,030 | 470 | 115 | 84 |
| 14 | 275 | 355 | 257 | 589 | 552 | 489 | 783 | 1,630 | 977 | 458 | 107 | 81 |
| 15 | 243 | 654 | 282 | 708 | 447 | 491 | 595 | 2,080 | 911 | 424 | 102 | 77 |
| 16 | 225 | 1,340 | 284 | 473 | 466 | 433 | 481 | 2,530 | 986 | 396 | 97 | 73 |
| 17 | 228 | 816 | 270 | 381 | 423 | 406 | 432 | 3,050 | 997 | 364 | 93 | 69 |
| 18 | 267 | 783 | 287 | 328 | 380 | 410 | 461 | 2,800 | 748 | 331 | 91 | 66 |
| 19 | 803 | 492 | 486 | 309 | 404 | 378 | 422 | 2,280 | 712 | 289 | 93 | 64 |
| 20 | 883 | 395 | 513 | 287 | 422 | 355 | 368 | 2,760 | 861 | 285 | 411 | 66 |
| 21 | 1,160 | 330 | 366 | 251 | 401 | 330 | 337 | 2,220 | 1,190 | 284 | 760 | 118 |
| 22 | 1,230 | 285 | 332 | 226 | 384 | 297 | 311 | 1,540 | 1,110 | 274 | 462 | 239 |
| 23 | 878 | 256 | 602 | 216 | 382 | 335 | 319 | 1,090 | 868 | 236 | 259 | 190 |
| 24 | 709 | 233 | 1,070 | 207 | 369 | 452 | 374 | 1,160 | 796 | 208 | 193 | 129 |
| 25 | 696 | 214 | 565 | 190 | 354 | 355 | 376 | 1,700 | 773 | 216 | 196 | 252 |
| 26 | 476 | 200 | 443 | 186 | 345 | 324 | 341 | 1,660 | 790 | 210 | 212 | 382 |
| 27 | 380 | 215 | 363 | 185 | 355 | 299 | 392 | 1,660 | 756 | 213 | 612 | 242 |
| 28 | 322 | 202 | 334 | 178 | 525 | 274 | 820 | 1,590 | 1,170 | 205 | 461 | 179 |
| 29 | 283 | 191 | 309 | 173 | 648 | 267 | 1,260 | 1,420 | 1,410 | 187 | 393 | 145 |
| 30 | 259 | 176 | 281 | 172 | --- | 254 | 803 | 1,090 | 1,490 | 332 | 370 | 123 |
| 31 | 232 | --- | 257 | 186 | --- | 239 | --- | 1,010 | --- | 231 | 290 | --- |
| Total | 20,959 | 10,735 | 19,713 | 10,168 | 12,173 | 13,676 | 12,977 | 42,240 | 32,968 | 15,573 | 7,522 | 4,310 |
| Mean | 676 | 358 | 636 | 328 | 420 | 441 | 433 | 1,363 | 1,099 | 502 | 243 | 144 |
| Max | 1,740 | 1,340 | 3,830 | 755 | 951 | 984 | 1,260 | 3,050 | 1,660 | 1,380 | 760 | 382 |
| Min | 225 | 160 | 166 | 172 | 155 | 239 | 214 | 499 | 712 | 187 | 91 | 64 |
| Ac-ft | 41,570 | 21,290 | 39,100 | 20,170 | 24,150 | 27,130 | 25,740 | 83,780 | 65,390 | 30,890 | 14,920 | 8,550 |
| Cfsm | 10.6 | 5.59 | 9.94 | 5.12 | 6.56 | 6.89 | 6.76 | 21.3 | 17.2 | 7.85 | 3.79 | 2.24 |
| In. | 12.18 | 6.24 | 11.46 | 5.91 | 7.08 | 7.95 | 7.54 | 24.55 | 19.16 | 9.05 | 4.37 | 2.51 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2008, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 397 | 691 | 702 | 659 | 518 | 484 | 584 | 717 | 636 | 298 | 131 | 207 |
| Max | 906 | 1,894 | 1,856 | 1,310 | 1,295 | 1,250 | 968 | 1,363 | 1,338 | 733 | 439 | 575 |
| (WY) | (1935) | (1991) | (1934) | (1934) | (1982) | (1972) | (2002) | (2008) | (1974) | (1972) | (1964) | (2004) |
| Min | 38.3 | 85.4 | 209 | 124 | 201 | 225 | 279 | 327 | 145 | 70.3 | 41.5 | 44.2 |
| (WY) | (1988) | (1937) | (1986) | (1937) | (1938) | (1992) | (1975) | (1992) | (1934) | (1940) | (2003) | (1938) |

**12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2007 | | Water Year 2008 | | Water Years 1930 - 2008 | |
|---|---|---|---|---|---|---|
| **Annual total** | 184,112 | | 203,014 | | | |
| **Annual mean** | 504 | | 555 | | 502 | |
| **Highest annual mean** | | | | | 736 | 1972 |
| **Lowest annual mean** | | | | | 335 | 1930 |
| **Highest daily mean** | 5,450 | Mar 24 | 3,830 | Dec 3 | 9,580 | Oct 25, 1934 |
| **Lowest daily mean** | 39 | Sep 14 | 64 | Sep 19 | 31 | Sep 16, 1998 |
| **Annual seven-day minimum** | 41 | Sep 10 | 71 | Sep 14 | 32 | Sep 11, 1998 |
| **Annual runoff (ac-ft)** | 365,200 | | 402,700 | | 363,700 | |
| **Annual runoff (cfsm)** | 7.88 | | 8.67 | | 7.84 | |
| **Annual runoff (inches)** | 107.02 | | 118.00 | | 106.57 | |
| **10 percent exceeds** | 899 | | 1,160 | | 1,000 | |
| **50 percent exceeds** | 387 | | 378 | | 357 | |
| **90 percent exceeds** | 71 | | 164 | | 91 | |