



Water-Data Report 2008

12101100 LAKE TAPPS DIVERSION AT DIERINGER, WA

Puget Sound Basin
Puyallup Subbasin

LOCATION.--Lat 47°14'18", long 122°13'37" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.7, T.20 N., R.5 E., Pierce County, WA, Hydrologic Unit 17110014, on right bank 850 ft downstream from White River Powerplant at Dieringer, and 1,400 ft upstream from mouth.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1958 to January 2005, April 2005 to current year.

GAGE.--Water-stage recorder. Datum of gage is 42.36 ft above NGVD of 1929 (levels by Puget Sound Power and Light Co.). Prior to September 30, 1990, at same site at datum 5.00 ft higher.

REMARKS.--Records are good except estimated daily discharges which are fair. Flow regulated by White River Powerplant. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--49 years (water years 1959-2004, 2006-08), 870 ft³/s, 630,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s, Jan. 29, 1965, gage height, 6.23 ft, datum then in use; maximum gage height, 12.44 ft, Dec. 1, 1995 (backwater from White River); no flow many days in July and August 1990, Sept. 29, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 203 ft³/s, Nov. 17 and 18, gage height, 6.66 ft; maximum gage height, 8.60 ft, Dec. 5 (backwater from White River); minimum discharge, 29 ft³/s, Mar. 23-25, Jul. 24-Aug. 7.

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

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1 | 38 | 96 | 199 | 50 | 32 | 32 | 31 | 32 | 65 | 67 | 29 | 32 |
| 2 | 39 | 96 | e199 | 51 | 32 | 32 | 31 | 31 | 65 | 67 | 29 | 32 |
| 3 | 39 | 96 | e199 | 51 | 32 | 31 | 31 | 31 | 66 | 68 | 29 | 32 |
| 4 | 36 | 96 | e199 | 51 | 32 | 31 | 31 | 31 | 65 | 69 | 29 | 32 |
| 5 | 35 | 105 | e199 | 51 | 32 | 31 | 31 | 32 | 65 | 68 | 29 | 32 |
| 6 | 35 | 135 | e199 | 51 | 32 | 31 | 31 | 31 | 66 | 69 | 29 | 32 |
| 7 | 36 | 142 | 198 | 43 | 33 | 31 | 31 | 31 | 66 | 69 | 30 | 32 |
| 8 | 35 | 142 | 198 | 33 | 33 | 31 | 31 | 31 | 65 | 68 | 31 | 32 |
| 9 | 35 | 142 | 196 | 32 | 36 | 31 | 31 | 31 | 65 | 68 | 31 | 32 |
| 10 | 35 | 142 | 196 | 36 | 34 | 31 | 31 | 31 | 65 | 75 | 31 | 32 |
| 11 | 35 | 142 | 97 | 36 | 32 | 31 | 31 | 31 | 65 | 84 | 31 | 32 |
| 12 | 33 | 164 | 49 | 34 | 32 | 31 | 31 | 31 | 65 | 84 | 31 | 32 |
| 13 | 32 | 199 | e49 | 34 | 31 | 31 | 31 | 31 | 65 | 84 | 31 | 32 |
| 14 | 32 | 199 | 49 | 33 | 31 | 32 | 31 | 31 | 65 | 84 | 31 | 32 |
| 15 | 32 | 199 | 49 | 32 | e31 | 31 | 31 | 33 | 65 | 63 | 31 | 32 |
| 16 | 32 | 199 | 49 | 32 | e31 | 31 | 31 | 48 | 65 | 51 | 31 | 32 |
| 17 | 32 | 201 | 49 | 32 | e31 | 31 | 31 | e70 | 65 | 49 | 31 | 32 |
| 18 | 32 | 199 | 49 | 31 | e31 | 31 | 31 | e70 | 65 | 49 | 32 | 32 |
| 19 | 32 | 199 | 50 | 31 | 31 | 31 | 31 | e70 | 65 | 49 | 32 | 31 |
| 20 | 36 | 199 | 51 | 32 | 31 | 31 | 31 | e70 | 65 | 49 | 32 | 32 |
| 21 | 31 | 199 | 49 | 31 | 31 | 31 | 31 | e70 | 65 | 49 | 32 | 32 |
| 22 | 49 | 199 | 50 | 32 | 31 | 31 | 31 | e70 | 65 | 49 | 32 | 32 |
| 23 | 57 | 199 | 51 | 31 | 31 | 31 | 31 | e70 | 65 | 49 | 32 | 31 |
| 24 | 57 | 199 | 51 | 32 | 31 | 31 | 31 | e70 | 65 | 40 | 32 | 31 |
| 25 | 57 | 199 | 51 | 32 | 31 | 30 | 32 | e70 | e65 | 29 | 32 | 31 |
| 26 | 57 | 199 | 50 | 32 | 31 | 31 | 32 | e70 | e65 | 29 | 32 | e31 |
| 27 | 57 | 199 | 50 | 32 | 31 | 31 | 32 | e70 | e65 | 29 | 32 | e31 |
| 28 | 57 | 199 | 51 | 32 | 31 | 32 | 32 | e70 | e65 | 29 | 32 | e31 |
| 29 | 81 | 199 | 51 | 32 | 31 | 31 | 32 | e70 | e67 | 29 | 32 | e31 |
| 30 | 96 | 199 | 50 | 32 | --- | 31 | 32 | 65 | e67 | 29 | 32 | e31 |
| 31 | 96 | --- | 50 | 32 | --- | 31 | --- | 65 | --- | 29 | 32 | --- |
| Total | 1,386 | 5,082 | 3,077 | 1,126 | 919 | 964 | 936 | 1,557 | 1,957 | 1,724 | 962 | 951 |
| Mean | 44.7 | 169 | 99.3 | 36.3 | 31.7 | 31.1 | 31.2 | 50.2 | 65.2 | 55.6 | 31.0 | 31.7 |
| Max | 96 | 201 | 199 | 51 | 36 | 32 | 32 | 70 | 67 | 84 | 32 | 32 |
| Min | 31 | 96 | 49 | 31 | 31 | 30 | 31 | 31 | 65 | 29 | 29 | 31 |
| Ac-ft | 2,750 | 10,080 | 6,100 | 2,230 | 1,820 | 1,910 | 1,860 | 3,090 | 3,880 | 3,420 | 1,910 | 1,890 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2008, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Mean | 576 | 828 | 993 | 1,104 | 999 | 965 | 995 | 948 | 1,138 | 837 | 519 | 477 |
| Max | 1,443 | 1,516 | 1,719 | 1,939 | 1,819 | 1,545 | 1,716 | 1,715 | 1,925 | 1,807 | 1,018 | 1,251 |
| (WY) | (1960) | (1959) | (1967) | (1967) | (1970) | (1961) | (1966) | (1961) | (2000) | (1999) | (1983) | (1974) |
| Min | 44.7 | 169 | 55.8 | 36.3 | 18.9 | 22.3 | 26.2 | 25.5 | 26.3 | 6.09 | 5.88 | 8.11 |
| (WY) | (2008) | (2008) | (2007) | (2008) | (2007) | (2006) | (2007) | (2007) | (2007) | (1988) | (1988) | (1988) |

12101100 LAKE TAPPS DIVERSION AT DIERINGER, WA—Continued**SUMMARY STATISTICS**

| | Calendar Year 2007 | Water Year 2008 | Water Years 1958 - 2008 |
|---------------------------------|---------------------------|------------------------|--------------------------------|
| Annual total | 18,321.4 | 20,641 | |
| Annual mean | 50.2 | 56.4 | 870 |
| Highest annual mean | | | 1,232 |
| Lowest annual mean | | | 56.4 |
| Highest daily mean | 201 | Jan 10 | 201 Nov 17 |
| Lowest daily mean | 6.8 | Jan 28 | 29 Jul 25 |
| Annual seven-day minimum | 6.8 | Jan 28 | 29 Jul 25 |
| Annual runoff (ac-ft) | 36,340 | 40,940 | 630,300 |
| 10 percent exceeds | 145 | 99 | 1,620 |
| 50 percent exceeds | 28 | 32 | 870 |
| 90 percent exceeds | 25 | 31 | 32 |

