

Water-Data Report 2006

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.

DRAINAGE AREA.--

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 good, except for estimated daily discharges, which are fair. Flow regulated by White River Powerplant. U.S. Geological Survey satellite telemeter at station. Station temporarily discontinued Jan. 4 to Apr. 28, 2005.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--47 years (water years 1959-2004, 2006), 904 ft³/s, 654,900 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, 242 ft³/s, Jan 30, gage height, 6.77 ft; minimum discharge, 20 ft³/s, Feb 9, gage height, 5.89 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	88	205	157	200	23	23	110	112	112	83	35
2	37	128	206	157	202	22	22	110	114	113	59	35
3	44	154	206	156	201	22	22	111	112	114	35	35
4	53	154	204	174	203	22	22	111	112	114	35	35
5	52	154	203	201	200	22	22	111	112	114	35	35
6	52	154	203	203	143	22	22	111	112	114	35	35
7	52	154	203	203	106	22	22	111	112	114	35	35
8	51	153	203	201	55	22	23	111	112	114	34	35
9	51	152	203	201	22	22	23	110	112	114	34	35
10	51	185	203	e205	22	23	24	111	112	114	79	35
11	51	204	203	e205	21	23	24	112	112	114	117	35
12	47	205	203	e205	21	22	24	112	112	114	117	35
13	42	206	203	e205	22	22	24	112	112	114	117	35
14	42	206	203	e205	21	22	26	112	112	114	87	36
15	42	206	203	e205	21	22	26	112	112	114	73	36
16	42	206	203	202	22	22	26	112	112	114	73	36
17	42	205	203	202	22	22	85	111	112	114	52	35
18	42	205	203	201	22	24	112	111	112	114	34	36
19	42	205	171	200	22	23	112	110	112	114	35	35
20	42	205	167	203	22	22	111	111	112	114	35	35
21	42	205	172	203	22	22	111	112	112	114	35	36
22	42	205	157	201	22	23	111	112	112	114	35	36
23	42	205	159	199	22	23	110	111	112	115	35	35
24	42	205	163	199	22	23	110	111	112	117	35	35
25	42	208	160	199	22	22	110	110	112	117	35	45
26	44	206	158	199	22	22	109	112	112	117	35	51
27	44	206	158	199	22	22	109	112	112	117	34	51
28	44	205	158	199	24	22	109	112	112	117	35	51
29	44	206	157	201	---	22	110	111	112	117	35	51
30	44	206	158	218	---	22	111	111	112	117	35	51
31	47	---	159	205	---	22	---	111	---	117	35	---
Total	1,391	5,586	5,760	6,113	1,748	691	1,895	3,447	3,362	3,556	1,588	1,146
Mean	44.9	186	186	197	62.4	22.3	63.2	111	112	115	51.2	38.2
Max	53	208	206	218	203	24	112	112	114	117	117	51
Min	37	88	157	156	21	22	22	110	112	112	34	35
Ac-ft	2,760	11,080	11,420	12,130	3,470	1,370	3,760	6,840	6,670	7,050	3,150	2,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	592	851	1,031	1,149	1,040	1,005	1,036	986	1,183	870	539	495
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	44.9	186	135	197	62.4	22.3	63.2	111	112	6.09	5.88	8.11
(WY)	(2006)	(2006)	(2001)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(1988)	(1988)	(1988)

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SUMMARY STATISTICS

	Water Year 2006		Water Years 1958 - 2006	
Annual total	36,283			
Annual mean	99.4		904	
Highest annual mean			1,232	1961
Lowest annual mean			99.4	2006
Highest daily mean	218	Jan 30	2,210	Jan 9, 1964
Lowest daily mean	21	Feb 11	0.00	Jul 27, 1990
Annual seven-day minimum	21	Feb 9	0.00	Jul 27, 1990
Annual runoff (ac-ft)	71,970		654,900	
10 percent exceeds	203		1,630	
50 percent exceeds	111		910	
90 percent exceeds	22		40	

