12088000 OHOP CREEK NEAR EATONVILLE, WA

Puget Sound Basin
Nisqually Subbasin

LOCATION.--Lat 46°52′52″, long 122°16′40″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.10, T.16 N., R.4 E., Pierce County, WA, Hydrologic Unit 17110015, on left bank, 150 ft downstream from Lynch Creek, 0.2 mi downstream from outlet of Ohop Lake, 0.8 mi northwest of Eatonville, and at mile 6.1.

DRAINAGE AREA.--34.5 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1927 to September 1932, September 1941 to September 1971, June 1993 to current year.

REVISED RECORDS.--WSP 1286: 1946. WSP 1932: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 517.76 ft above NGVD of 1929 (stadia traverse). June 1, 1927 to Sept. 30, 1932, water-stage recorder at datum 4.83 ft higher; Sept. 6, 1941, to Mar. 17, 1942, nonrecording gage and Mar. 18, 1942, to June 15, 1964, water-stage recorder at datum 2.04 ft higher; all at site 250 ft downstream. June 15, 1964, to Aug. 26, 1966, water-stage recorder at site on left bank across stream at datum 2.04 ft higher. Aug. 27, 1966, to Sept. 30, 1971, water-stage recorder at site on right bank at same datum.

REMARKS.--Records poor. Flow affected by natural storage in Ohop Lake.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--49 years (water years 1928-32, 1942-71, 1994-2007), 65.9 ft^3/s, 25.97 in/yr, 47,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft^3/s, Feb. 8, 1996, gage height, 8.76 ft; minimum discharge, 2.2 ft^3/s, Sept. 2, 1994, Sept. 1, 2, 2002, and Aug. 25, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 7	1515	*1,470	*6.74
Nov 13	0115	461	4.16
Dec 14	2015	729	5.01
Dec 25	0230	407	3.97
Jan 3	0945	692	4.90
Jan 7	1715	529	4.40
Mar 25	0345	733	5.02

Minimum discharge, 4.5 ft^3/s, part of each day, Oct. 1-3, 6, gage height, 1.35 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.7	10	115	120	46	72	e155	e47	e22	e28	e9.8	7.3
2	4.7	14	100	231	43	74	e130	e50	e21	e22	e9.0	7.3
3	4.9	49	86	576	42	180	e115	e55	e20	16	e8.6	7.1
4	5.2	81	81	457	50	154	e105	e70	e18	15	e8.4	10
5	5.3	78	96	266	49	129	e100	e68	e22	19	e8.3	9.6
6	5.8	324	87	236	48	111	e95	e64	e28	25	e8.5	9.1
7	7.4	1,180	82	341	46	99	e100	e60	e23	18	e8.7	8.4
8	9.7	643	80	370	47	94	e110	e59	e21	15	e10	7.6
9	9.6	346	74	283	47	85	e160	e58	e20	13	e12	7.0
10	9.0	273	68	238	46	83	e150	e50	e25	11	e9.8	6.5
11	8.0	266	100	e173	45	238	e115	e42	e30	10	e9.0	5.7
12	7.2	341	186	131	44	276	e95	e38	e21	9.3	e8.4	5.2
13	6.0	381	194	113	43	219	e85	e50	e19	e7.9	e8.6	5.3
14	6.8	308	321	e97	41	166	e100	e42	e18	e7.8	e8.2	5.6
15	18	230	412	e87	62	132	e95	e35	e17	e7.4	e6.9	5.8
16	35	205	277	84	79	114	e85	e33	e20	e7.0	e6.6	6.3
17	20	154	193	80	69	99	e90	e31	e35	e7.3	6.5	9.0
18	16	121	141	77	89	108	e110	e28	e38	e13	6.0	9.4
19	27	102	116	87	93	105	e150	e25	e30	e27	11	8.0
20	22	93	100	114	163	166	e120	e27	e25	e19	11	7.7
21	16	175	112	100	151	151	e100	e60	e23	e25	10	7.3
22	14	171	114	90	124	124	e98	e50	e22	e18	12	8.0
23	12	160	157	83	106	127	e90	e45	e21	e15	19	7.8
24	11	197	159	e82	96	326	e85	e43	e23	e19	15	7.1
25	11	173	298	e80	94	584	e83	e40	e55	e17	12	6.7
26	9.5	153	226	e66	84	363	e80	e37	e40	e14	10	6.6
27	9.3	149	317	60	77	283	e70	e36	e30	e13	9.7	6.4
28	11	119	236	56	76	e230	e67	e35	e27	e12	9.0	19
29	13	96	e183	53	---	e180	e55	e30	e34	e11	8.3	18
30	13	116	149	50	---	e160	e45	e25	e40	e12	7.8	17
31	12	---	127	48	---	e180	---	e23	---	e11	7.0	---
Total	364.1	6,708	4,987	4,929	2,000	5,412	3,038	1,356	788	464.7	295.1	251.8
Mean	11.7	224	161	159	71.4	175	101	43.7	26.3	15.0	9.52	8.39
Max	35	1,180	412	576	163	584	160	70	55	28	19	19
Min	4.7	10	68	48	41	72	45	23	17	7.0	6.0	5.2
Ac-ft	722	13,310	9,890	9,780	3,970	10,730	6,030	2,690	1,560	922	585	499
Cfsm	0.34	6.48	4.66	4.61	2.07	5.06	2.94	1.27	0.76	0.43	0.28	0.24
In.	0.39	7.23	5.38	5.31	2.16	5.84	3.28	1.46	0.85	0.50	0.32	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	34.4	87.1	119	123	112	96.1	83.3	54.7	39.9	19.5	11.4	15.2
Max	90.8	235	268	258	305	191	141	138	114	64.5	59.6	70.9
(WY)	(1928)	(1961)	(1947)	(1971)	(1996)	(1932)	(1928)	(1960)	(1942)	(1993)	(1968)	(1968)
Min	7.69	8.76	24.6	32.8	31.0	46.4	28.4	19.2	12.2	6.04	4.93	4.44
(WY)	(1930)	(1953)	(1953)	(2001)	(2005)	(2001)	(2004)	(1947)	(1932)	(1944)	(2003)	(1952)

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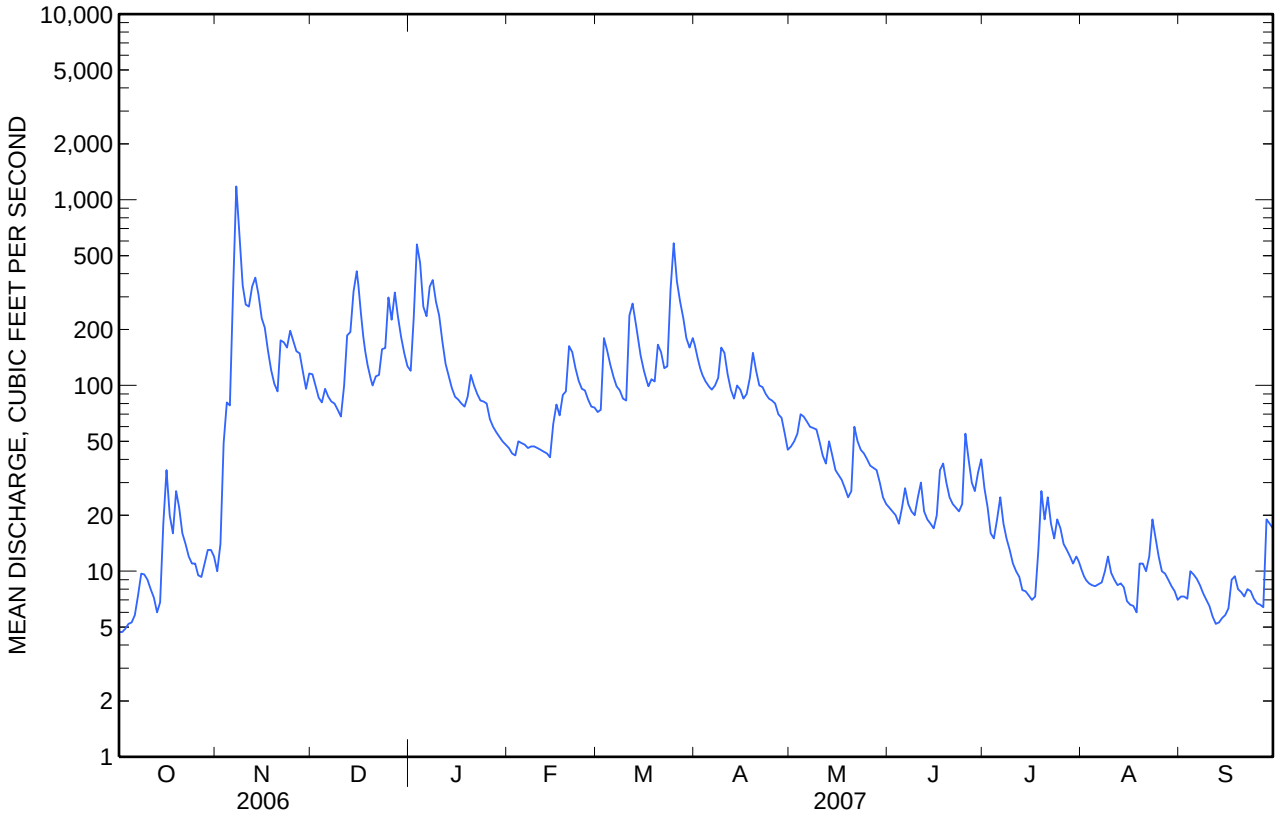
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1927 - 2007	
Annual total	31,053.2		30,593.7			
Annual mean	85.1		83.8		65.9	
Highest annual mean					98.4	1956
Lowest annual mean					32.4	1994
Highest daily mean	1,180	Nov 7	1,180	Nov 7	2,090	Feb 8, 1996
Lowest daily mean	2.5	Aug 29	4.7	Oct 1	2.5	Aug 23, 1944
Annual seven-day minimum	3.1	Aug 26	5.4	Oct 1	3.0	Aug 26, 2002
Annual runoff (ac-ft)	61,590		60,680		47,770	
Annual runoff (cfsm)	2.47		2.43		1.91	
Annual runoff (inches)	33.48		32.99		25.97	
10 percent exceeds	218		195		150	
50 percent exceeds	51		47		42	
90 percent exceeds	4.8		7.8		8.1