



Water-Data Report 2009

12040500 QUEETS RIVER NEAR CLEARWATER, WA

Washington Coastal Basin
Queets-Quinault Subbasin

LOCATION.--Lat 47°32'17", long 124°18'52" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.36, T.24 N., R.13 W., Jefferson County, WA, Hydrologic Unit 17100102, Quinault Indian Reservation, on right bank 2.4 mi downstream from mouth of Clearwater River, 0.8 mi east of Queets, and at mile 4.6.

DRAINAGE AREA.--445 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1930 to November 1949, water years 1950-67 (annual maximum), April 1974 to current year.

REVISED RECORDS.--WSP 1316: 1931-49(m).

GAGE.--Water-stage recorder. Datum of gage is 14.5 ft above NGVD of 1929 (river-profile survey). Sept. 15, 1930, to Jan. 22, 1935, at datum 4.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station. Chemical analyses October 1977 to September 1993.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1931-49, 1975-2009), 4,347 ft³/s, 132.72 in/yr, 3,149,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133,000 ft³/s, Dec. 15, 1999, gage height, 27.18 ft, minimum discharge, 281 ft³/s, Sept. 25-28, 2005.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 42,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 7	1345	54,500	20.08
Nov 12	0845	57,200	20.46
Jan 7	1030	*90,000	*24.44

Minimum discharge, 354 ft³/s, Aug. 28, gage height, 6.13 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	702	3,140	3,530	6,470	2,070	2,550	3,660	1,680	2,160	943	551	391
2	897	3,970	4,830	5,600	2,130	4,840	5,820	1,870	2,320	910	516	377
3	4,800	4,980	3,500	4,280	2,110	4,140	4,980	3,100	2,280	916	502	384
4	9,750	4,290	2,960	3,910	1,980	3,260	3,860	2,330	2,240	966	482	471
5	8,290	3,570	2,620	7,110	1,900	2,950	3,230	7,140	2,180	960	462	444
6	4,290	15,200	2,360	12,700	1,890	2,580	2,950	7,660	2,070	952	439	1,670
7	9,200	42,900	2,690	80,300	1,810	2,340	3,070	7,830	1,780	956	425	4,200
8	5,450	32,500	2,610	50,300	1,680	2,270	3,120	5,430	1,620	929	432	2,600
9	3,800	17,500	2,310	17,800	1,680	2,100	2,820	4,190	1,580	1,110	446	1,450
10	3,000	10,500	2,990	12,700	1,610	1,890	2,540	3,570	1,590	913	534	1,540
11	2,480	11,400	2,630	13,900	1,540	1,730	2,410	3,540	1,590	845	969	1,110
12	2,130	37,200	3,590	9,710	1,440	1,610	9,610	4,110	1,590	864	745	927
13	2,230	20,100	5,240	7,800	1,360	1,540	10,300	3,410	1,600	834	601	827
14	2,640	10,800	3,760	6,160	1,300	2,910	6,180	3,590	1,590	781	559	759
15	2,000	7,680	3,010	5,430	1,240	3,870	4,660	3,300	1,530	751	523	701
16	1,930	5,940	2,570	5,410	1,180	3,620	3,870	2,950	1,450	745	484	708
17	2,350	4,860	2,440	5,210	1,130	3,690	4,230	2,990	1,340	750	465	816
18	2,660	4,100	2,330	5,200	1,080	3,480	3,670	3,180	1,390	743	458	666
19	2,070	3,560	2,020	5,010	1,050	4,280	3,170	3,010	1,290	692	463	937
20	2,340	3,610	1,840	4,440	1,020	8,920	3,070	2,800	1,310	648	467	1,010
21	2,770	4,150	2,440	3,880	986	7,930	3,190	2,430	1,150	635	477	747
22	2,150	4,510	2,640	3,470	1,150	5,040	3,160	2,300	1,060	640	451	648
23	1,920	3,640	2,190	3,130	2,320	4,060	2,750	2,350	1,020	648	417	605
24	1,710	3,130	2,310	2,840	3,500	3,770	2,400	2,390	1,040	626	392	567
25	1,570	2,930	2,460	2,610	4,910	4,180	2,180	2,320	1,630	617	390	539
26	1,450	2,720	2,190	2,390	3,870	3,670	2,030	2,280	1,640	617	394	508
27	1,350	2,450	8,030	2,400	2,800	3,180	1,910	2,380	1,200	633	374	492
28	1,260	2,880	7,170	2,720	2,320	2,960	1,890	2,060	1,110	632	365	495
29	1,190	4,810	7,740	2,380	---	2,760	1,910	2,210	1,040	627	392	827
30	1,140	3,880	6,200	2,190	---	2,440	1,820	2,400	990	610	417	957
31	2,280	---	5,480	2,270	---	4,110	---	2,260	---	597	399	---
Total	91,799	282,900	108,680	299,720	53,056	108,670	110,460	103,060	46,380	24,090	14,991	28,373
Mean	2,961	9,430	3,506	9,668	1,895	3,505	3,682	3,325	1,546	777	484	946
Max	9,750	42,900	8,030	80,300	4,910	8,920	10,300	7,830	2,320	1,110	969	4,200
Min	702	2,450	1,840	2,190	986	1,540	1,820	1,680	990	597	365	377
Ac-ft	182,100	561,100	215,600	594,500	105,200	215,500	219,100	204,400	91,990	47,780	29,730	56,280
Cfsm	6.65	21.2	7.88	21.7	4.26	7.88	8.27	7.47	3.47	1.75	1.09	2.13
In.	7.67	23.65	9.09	25.06	4.44	9.08	9.23	8.62	3.88	2.01	1.25	2.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,533	7,567	8,183	7,758	6,516	5,385	4,086	3,117	2,390	1,587	1,025	1,325
Max	10,260	20,100	18,140	23,500	14,040	13,360	7,093	6,263	4,642	4,543	4,396	4,531
(WY)	(2004)	(1991)	(1980)	(1935)	(1999)	(1997)	(1937)	(1948)	(1997)	(1997)	(1991)	(1997)
Min	348	754	2,435	1,787	1,818	1,876	1,546	1,588	980	682	469	439
(WY)	(1988)	(1937)	(1986)	(1937)	(1993)	(1992)	(1998)	(2004)	(1992)	(1992)	(1938)	(1993)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1931 - 2009	
Annual total	1,342,303		1,272,179			
Annual mean	3,667		3,485		4,347	
Highest annual mean					6,595	1999
Lowest annual mean					2,872	1944
Highest daily mean	42,900	Nov 7	80,300	Jan 7	91,100	Mar 19, 1997
Lowest daily mean	590	Sep 23	365	Aug 28	281	Sep 25, 2005
Annual seven-day minimum	635	Sep 18	388	Aug 27	286	Sep 22, 2005
Annual runoff (ac-ft)	2,662,000		2,523,000		3,149,000	
Annual runoff (cfsm)	8.24		7.83		9.77	
Annual runoff (inches)	112.21		106.35		132.72	
10 percent exceeds	6,200		6,030		9,310	
50 percent exceeds	2,710		2,300		2,530	
90 percent exceeds	966		556		706	

