Water-Data Report 2012

14105700 COLUMBIA RIVER AT THE DALLES, OR

Middle Columbia Basin
Middle Columbia-Hood Subbasin

LOCATION.--Lat 45°36′27″, long 121°10′20″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.34, T.2 N., R.13 E., Wasco County, OR, Hydrologic Unit 17070105, U.S. Army Corps of Engineers land, on left bank, 0.3 mi downstream from Mill Creek, 2.6 mi downstream from The Dalles Dam and at mile 188.9.

DRAINAGE AREA.--237,000 mi^2, approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1857 to September 1877 (annual maximum only, at Lower Cascades Landing, published in WSP 1318), June 1878 to current year. Published as "near The Dalles" 1936-56.

REVISED RECORDS.--WSP 534: 1920(m). SP 1094: 1894. WSP 1248: 1866, 1888, 1899, 1909. WSP 1518: 1876(M).

GAGE.--Ultrasonic velocity meter (UVM) with water-stage and velocity-index recorder. Datum of gage is NGVD of 1929. See WSP 1738 for history of changes prior to Mar. 16, 1957. Mar. 16, 1957 to Sept 30, 1968, water-stage recorder at site 0.4 mi upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation by many large reservoirs. Diurnal fluctuations caused by powerplant and gates at The Dalles Dam. Many diversions for irrigation upstream from station. Continuous water-quality records for period October 1957 to February 1985 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--134 years (water years 1879-2012), 189,900 ft^3/s, 137,600,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since 1858, 1,240,000 ft^3/s June 6, 1894, gage height, 106.5 ft; minimum discharge since 1878, 12,100 ft^3/s Apr. 16, 1968 (result of closure of John Day Dam, recorded by UVM).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 587,000 ft^3/s Apr. 25; maximum gage height, 84.70 ft Apr. 26; minimum discharge, 46,200 ft^3/s Apr. 30.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 14105700, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/14105700.2012.pdf

14105700 COLUMBIA RIVER AT THE DALLES, OR—Continued

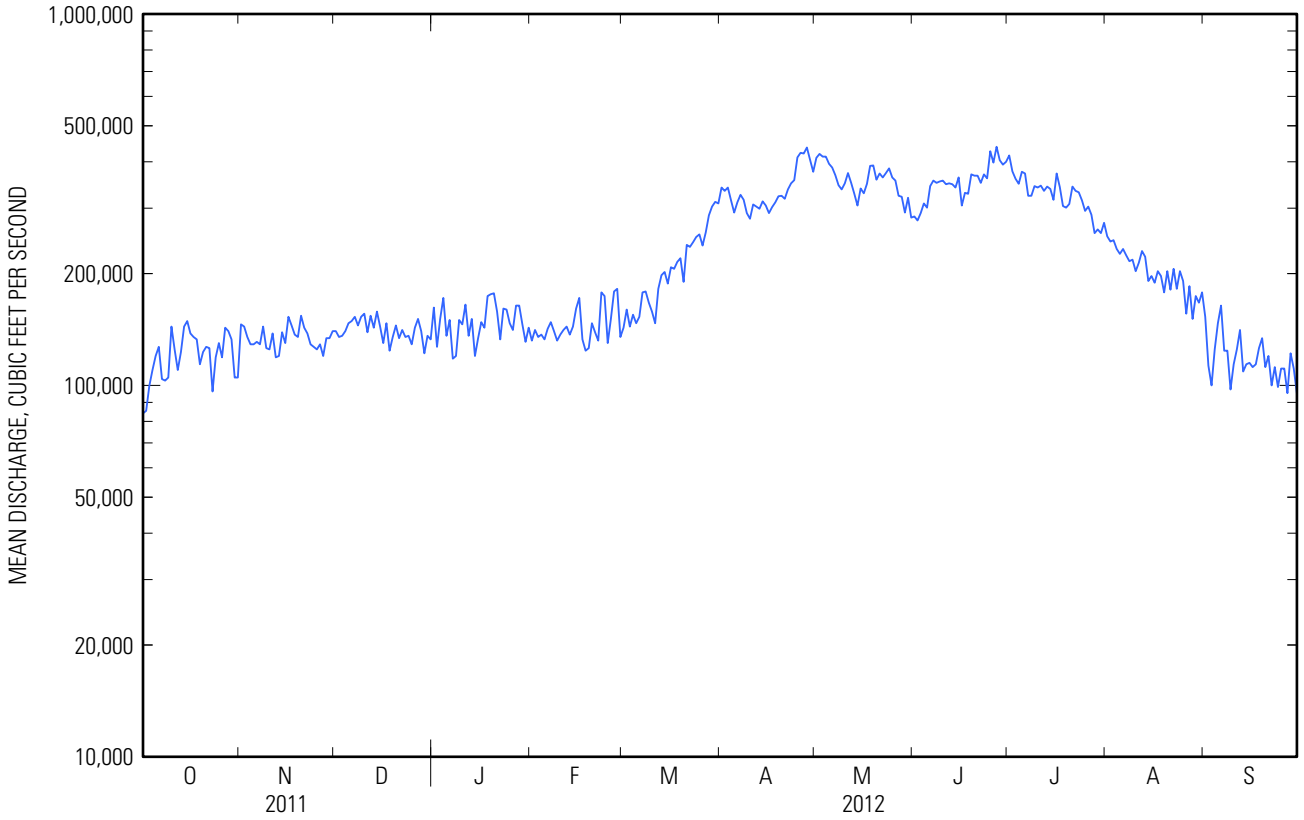
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[$\times 10^6$, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	84,100	146,000	140,000	162,000	132,000	143,000	341,000	410,000	285,000	416,000	252,000	153,000
2	85,400	144,000	135,000	127,000	141,000	160,000	334,000	420,000	278,000	377,000	244,000	113,000
3	99,700	135,000	136,000	151,000	135,000	144,000	341,000	413,000	291,000	360,000	246,000	100,000
4	110,000	129,000	140,000	172,000	137,000	155,000	315,000	413,000	309,000	349,000	233,000	125,000
5	120,000	129,000	147,000	136,000	133,000	147,000	292,000	395,000	301,000	376,000	226,000	147,000
6	127,000	131,000	149,000	150,000	142,000	153,000	311,000	386,000	344,000	372,000	233,000	164,000
7	104,000	129,000	153,000	118,000	148,000	178,000	326,000	368,000	356,000	324,000	224,000	124,000
8	103,000	144,000	145,000	120,000	140,000	179,000	316,000	346,000	351,000	324,000	216,000	124,000
9	105,000	126,000	153,000	150,000	132,000	167,000	291,000	337,000	354,000	344,000	218,000	97,500
10	144,000	125,000	156,000	146,000	137,000	158,000	281,000	350,000	356,000	341,000	203,000	114,000
11	125,000	138,000	139,000	165,000	141,000	147,000	307,000	373,000	348,000	345,000	214,000	125,000
12	110,000	119,000	154,000	136,000	144,000	182,000	303,000	351,000	350,000	334,000	230,000	141,000
13	123,000	120,000	143,000	151,000	137,000	198,000	299,000	328,000	348,000	343,000	222,000	109,000
14	144,000	139,000	158,000	120,000	144,000	202,000	313,000	305,000	341,000	338,000	191,000	114,000
15	149,000	130,000	144,000	134,000	161,000	188,000	305,000	339,000	363,000	316,000	197,000	115,000
16	138,000	153,000	130,000	148,000	172,000	208,000	291,000	329,000	305,000	372,000	189,000	112,000
17	135,000	145,000	147,000	143,000	133,000	206,000	302,000	349,000	330,000	342,000	203,000	114,000
18	133,000	137,000	124,000	174,000	124,000	215,000	311,000	390,000	328,000	304,000	197,000	126,000
19	114,000	135,000	135,000	176,000	126,000	220,000	323,000	391,000	370,000	301,000	178,000	134,000
20	123,000	154,000	145,000	177,000	147,000	190,000	324,000	358,000	367,000	308,000	203,000	112,000
21	127,000	143,000	134,000	158,000	139,000	239,000	318,000	372,000	367,000	343,000	181,000	120,000
22	126,000	138,000	141,000	133,000	132,000	236,000	337,000	363,000	351,000	334,000	206,000	100,000
23	96,300	129,000	135,000	161,000	178,000	243,000	350,000	373,000	370,000	331,000	182,000	112,000
24	119,000	127,000	136,000	160,000	174,000	251,000	357,000	384,000	361,000	315,000	203,000	99,000
25	130,000	125,000	129,000	147,000	130,000	255,000	411,000	363,000	427,000	295,000	191,000	111,000
26	119,000	129,000	143,000	141,000	151,000	238,000	423,000	356,000	398,000	303,000	156,000	111,000
27	143,000	120,000	151,000	164,000	179,000	258,000	421,000	324,000	439,000	288,000	185,000	95,300
28	140,000	134,000	140,000	164,000	182,000	287,000	437,000	322,000	404,000	257,000	151,000	122,000
29	133,000	134,000	122,000	146,000	135,000	303,000	405,000	292,000	393,000	263,000	174,000	111,000
30	105,000	140,000	136,000	131,000	---	312,000	376,000	320,000	400,000	257,000	167,000	95,100
31	105,000	---	133,000	143,000	---	309,000	---	283,000	---	274,000	178,000	---
Total	3,719,500	4,027,000	4,373,000	4,604,000	4,206,000	6,471,000	10.06×10^6	11.10×10^6	10.58×10^6	10.14×10^6	6,293,000	3,539,900
Mean	120,000	134,200	141,100	148,500	145,000	208,700	335,400	358,200	352,800	327,300	203,000	118,000
Max	149,000	154,000	158,000	177,000	182,000	312,000	437,000	420,000	439,000	416,000	252,000	164,000
Min	84,100	119,000	122,000	118,000	124,000	143,000	281,000	283,000	278,000	257,000	151,000	95,100
Ac-ft	7,378,000	7,988,000	8,674,000	9,132,000	8,343,000	12.84×10^6	19.96×10^6	22.02×10^6	21.00×10^6	20.12×10^6	12.48×10^6	7,021,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1879 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	104,500	109,400	117,700	121,900	130,500	148,200	205,600	334,200	425,900	290,800	170,100	118,300
Max	174,800	200,800	258,300	275,000	340,400	345,000	386,400	624,400	1,002,000	793,300	385,700	198,200
(WY)	(1960)	(1928)	(1996)	(1997)	(1996)	(1983)	(1881)	(1897)	(1894)	(1880)	(1880)	(1880)
Min	69,430	57,830	52,380	42,430	51,420	69,820	98,350	136,100	123,700	86,780	91,970	75,760
(WY)	(1930)	(1937)	(1937)	(1937)	(1937)	(1937)	(1944)	(1977)	(1977)	(2001)	(1994)	(1994)

14105700 COLUMBIA RIVER AT THE DALLES, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1879 - 2012	
Annual total	87,574,500		79,128,400			
Annual mean	239,900		216,200		189,900	
Highest annual mean					313,600	1894
Lowest annual mean					117,600	2001
Highest daily mean	529,000	Jun 4	439,000	Jun 27	1,230,000	Jun 6, 1894
Lowest daily mean	84,100	Oct 1	84,100	Oct 1	36,000	Jan 12, 1937
Annual seven-day minimum	104,000	Oct 1	104,000	Oct 1	38,200	Jan 7, 1937
Annual runoff (ac-ft)	173,700,000		157,000,000		137,600,000	
10 percent exceeds	467,000		363,000		372,000	
50 percent exceeds	214,000		166,000		142,000	
90 percent exceeds	123,000		120,000		81,800