14211820 COLUMBIA SLOUGH AT PORTLAND, OR

Willamette Basin
Lower Willamette Subbasin

LOCATION.--Lat 45°38′21″, long 122°45′43″ referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.23, T.2 N., R.1 W., Multnomah County, OR, Hydrologic Unit 17090012, on right bank, 0.6 mi upstream from mouth and 1.25 mi upstream from confluence of Willamette and Columbia Rivers.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Acoustic velocity meter (AVM) and water-stage recorder. Datum of gage is 1.53 ft above NGVD of 1929.

REMARKS.--Records poor. Flows affected by tide which can cause reverse direction during tidal cycle. Mean discharge values since water year 2007 have been filtered to removed daily tidal cycle.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--6 years (water years 1990-93, 2000, 2006), 103 ft^3/s, 74,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,400 ft^3/s Dec. 5, 1995, but may have been greater during periods of missing record Dec. 2-4, 1995, Feb. 10-14, 1996; maximum gage height, 27.26 ft Feb. 9, 1996, from floodmark; minimum daily discharge, -6,700 ft^3/s Feb. 7, 1996, but may have been less during periods of missing record Nov. 29 to Dec. 3, 1995, Feb. 8, 9, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 502 ft^3/s Nov. 11; maximum gage height, 12.23 ft Dec. 16; minimum daily discharge, -320 ft^3/s Dec. 15.

14211820 COLUMBIA SLOUGH AT PORTLAND, OR—Continued

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	21	---	162	139	51	96	107	-11	---	92	84	84
2	-16	---	104	82	91	223	175	44	---	109	55	86
3	-7.5	---	45	-0.36	104	247	91	74	---	41	129	51
4	-5.3	---	38	76	108	166	80	18	---	68	138	62
5	3.4	---	69	138	87	150	82	32	---	61	83	68
6	16	---	63	174	90	106	146	100	---	38	79	59
7	27	---	6.0	236	87	96	180	135	86	79	85	73
8	27	---	-7.1	198	102	62	142	81	65	63	63	47
9	30	---	73	189	107	57	98	23	-9.6	19	43	25
10	---	---	95	191	91	160	101	21	40	30	27	17
11	---	502	72	188	81	128	118	11	54	13	28	-8.7
12	---	424	119	121	82	57	128	37	61	-1.6	75	6.3
13	---	180	71	126	81	30	17	70	56	19	85	31
14	---	189	-36	121	54	69	51	-34	45	28	17	27
15	---	146	-320	75	-25	72	45	-11	57	24	40	41
16	---	120	33	96	0.77	69	79	51	114	37	95	45
17	---	152	377	133	51	74	29	63	152	91	115	40
18	---	147	232	128	125	54	89	74	53	157	128	42
19	---	103	190	106	82	8.0	92	44	46	130	122	46
20	---	85	163	145	79	-18	79	53	121	94	103	50
21	---	53	146	172	158	19	123	104	109	95	77	9.8
22	---	98	172	98	229	102	140	84	59	88	54	-43
23	---	131	156	100	235	234	128	104	82	87	52	-13
24	---	111	162	99	138	102	148	64	125	111	44	40
25	---	130	176	108	138	99	97	53	123	70	39	28
26	---	146	162	107	149	30	57	111	27	36	33	-23
27	---	176	171	114	122	130	72	136	30	17	27	-10
28	---	177	145	138	135	226	61	43	31	11	4.4	18
29	---	150	177	82	---	94	56	e35	9.7	41	-7.1	64
30	---	131	180	61	---	71	35	e10	0.32	61	5.3	81
31	---	---	169	82	---	48	---	---	---	84	55	---
Total	---	---	3,364.9	3,822.64	2,832.77	3,061.0	2,846	---	---	1,892.4	1,977.6	1,043.4
Mean	---	---	109	123	101	98.7	94.9	---	---	61.0	63.8	34.8
Max	---	---	377	236	235	247	180	---	---	157	138	86
Min	---	---	-320	-0.36	-25	-18	17	---	---	-1.6	-7.1	-43
Ac-ft	---	---	6,670	7,580	5,620	6,070	5,650	---	---	3,750	3,920	2,070