



Water-Data Report 2006

12465000 CRAB CREEK AT IRBY, WA

Upper Columbia Basin
Upper Crab Subbasin

LOCATION.--Lat 47°21'38", long 118°50'56" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.31, T.22 N., R.32 E., Lincoln County, WA, Hydrologic Unit 17020013, on right bank 8 ft upstream from highway bridge at Irby, 5.4 mi downstream from Lake Creek, 7.5 mi west of Odessa, and at mile 111.5.

DRAINAGE AREA.--1,042 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1942 to current year.

REVISED RECORDS.--WSP 1446: 1949-51. WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,386.30 ft above NGVD of 1929. Prior to Sept. 29, 2003, gage on right bank at same datum.

REMARKS.--Records fair except for estimated daily discharges which are poor. Withdrawal from ground-water wells for irrigation has been on the increase upstream from station since 1964. U.S. Geological Survey satellite telemeter at station. Some diversions for irrigation upstream from station. No regulation.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--64 years (water years 1943-2006), 63.3 ft³/s, 45,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft³/s, Feb. 27, 1957, gage height, 11.94 ft; no flow several days during 1969, 1977, 1978, 1979, 1980, 1989, 1991.

REVISIONS.--The maximum discharge for the water year 2004 has been revised to 334 ft³/s, Feb. 19, 2004, gage height, 2.78 ft, based on revised rating.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 15	2330	*124	*1.95

Minimum discharge, 0.33 ft³/s, Jan 24.

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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	2.3	1.6	1.1	1.2	34	91	106	84	40	25	16	8.6
2	1.9	1.5	e0.98	0.98	36	91	107	82	39	25	16	8.0
3	1.9	1.5	e0.94	0.88	40	93	109	83	37	25	15	8.1
4	1.8	1.6	e0.90	0.83	44	92	110	82	38	25	15	8.1
5	1.7	1.3	e0.94	0.71	48	92	107	79	39	25	15	8.0
6	1.9	1.5	e0.96	0.82	54	92	109	77	38	25	14	8.0
7	1.9	1.4	0.97	1.2	58	91	108	76	38	24	14	7.8
8	2.0	1.3	0.87	1.2	62	94	109	76	37	24	14	7.7
9	1.9	1.2	0.85	0.93	65	94	112	77	36	23	14	7.6
10	1.8	1.2	e0.84	1.2	69	98	109	74	37	23	14	7.6
11	1.5	1.1	e0.80	1.3	74	98	110	73	40	22	14	7.5
12	1.4	1.2	e0.80	0.98	75	98	111	69	37	23	14	7.3
13	1.4	1.5	e0.82	1.2	77	98	112	66	38	22	13	7.1
14	1.8	1.9	e0.83	1.2	79	98	114	62	38	22	13	7.1
15	2.2	1.6	e0.82	0.86	81	97	115	60	37	21	13	7.2
16	1.3	1.6	0.73	0.68	83	99	117	60	37	21	13	7.1
17	1.3	1.4	e0.64	0.79	e59	100	117	57	36	21	12	6.8
18	1.4	1.2	e0.52	0.77	e72	99	117	54	35	21	12	7.0
19	1.6	1.2	e0.58	0.58	75	100	118	51	35	21	12	7.4
20	1.4	1.2	0.70	0.46	77	101	117	56	34	19	11	7.3
21	1.5	1.3	1.0	0.48	84	102	115	54	35	19	10	7.3
22	1.4	1.2	1.6	0.50	89	102	114	53	33	19	9.6	7.1
23	1.4	1.3	1.4	0.55	94	103	109	53	32	18	9.5	6.9
24	1.4	1.1	1.1	0.51	92	103	106	51	30	18	9.5	6.7
25	1.5	1.5	0.92	5.1	90	103	103	50	29	18	9.5	6.3
26	1.4	1.5	1.2	13	91	103	100	49	28	17	9.2	6.4
27	1.3	1.1	1.2	16	91	105	98	48	27	17	8.9	6.3
28	1.4	1.0	1.3	20	91	105	97	48	26	17	9.2	6.2
29	1.5	1.1	1.0	22	---	105	93	45	25	17	9.1	6.0
30	2.0	1.1	1.1	27	---	105	90	43	25	17	9.2	6.1
31	1.6	---	1.3	27	---	106	---	41	---	16	9.4	---
Total	50.8	40.2	29.71	150.91	1,984	3,058	3,259	1,933	1,036	650	377.1	216.6
Mean	1.64	1.34	0.96	4.87	70.9	98.6	109	62.4	34.5	21.0	12.2	7.22
Max	2.3	1.9	1.6	27	94	106	118	84	40	25	16	8.6
Min	1.3	1.0	0.52	0.46	34	91	90	41	25	16	8.9	6.0
Ac-ft	101	80	59	299	3,940	6,070	6,460	3,830	2,050	1,290	748	430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.40	7.64	17.6	102	215	196	101	48.7	34.7	19.7	12.4	8.62
Max	34.7	47.8	295	1,163	744	1,141	441	189	451	109	61.2	41.9
(WY)	(1949)	(1998)	(1956)	(1956)	(1949)	(1956)	(1969)	(1997)	(1948)	(1948)	(1948)	(1948)
Min	0.33	0.58	0.27	0.26	0.63	4.26	8.61	5.46	3.06	1.49	0.54	0.27
(WY)	(1993)	(1993)	(1993)	(1993)	(1992)	(1992)	(1992)	(1990)	(1992)	(1990)	(1992)	(1992)

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	Calendar Year 2005	Water Year 2006	Water Years 1942 - 2006
Annual total	2,228.61	12,785.32	
Annual mean	6.11	35.0	63.3
Highest annual mean			299
Lowest annual mean			2.73
Highest daily mean	18	Apr 17	118
Lowest daily mean	0.52	Dec 18	Apr 19
Annual seven-day minimum	0.69	Dec 14	0.46
Annual runoff (ac-ft)	4,420	25,360	7,470
10 percent exceeds	14	101	Feb 27, 1957
50 percent exceeds	3.5	17	0.00
90 percent exceeds	1.2	0.98	Jan 3, 1969
			0.00
			Jan 15, 1969

