

## CRAB CREEK BASIN

12465000 CRAB CREEK AT IRBY, WA

LOCATION.--Lat 47°21'38", long 118°50'56", in NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 31, T. 22 N., R. 32 E., Lincoln County, 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 mi<sup>2</sup>.

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.

REMARKS.--Records good except for estimated daily discharges, which are fair. Pumpage 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.--60 years (water years 1943-2002), 66.3 ft<sup>3</sup>/s, 48,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft<sup>3</sup>/s Feb. 27, 1957, gage height, 11.94 ft; no flow several days during 1969, 1977, 1978, 1979, 1980, 1989, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Feb. 09	0315	*252	*3.20

Minimum discharge, 1.4 ft<sup>3</sup>/s Sept. 22-25, gage height, 1.77 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.2	4.8	11	53	84	78	60	28	e11	6.3	2.7
2	2.8	4.0	4.0	12	53	85	79	59	27	11	6.6	3.1
3	2.3	4.3	4.0	14	53	83	79	54	27	11	6.3	3.0
4	2.3	4.5	3.7	15	54	82	77	50	26	11	5.8	2.7
5	2.5	4.4	3.9	16	55	82	77	48	24	11	5.7	2.7
6	2.5	4.0	3.9	18	55	85	77	47	22	10	5.6	2.7
7	2.3	4.3	3.7	19	57	84	77	49	22	10	5.0	2.6
8	2.5	4.8	3.6	21	60	83	78	52	22	11	4.5	2.6
9	2.8	4.7	3.6	23	138	83	81	52	23	11	4.3	2.8
10	3.0	4.6	3.8	28	87	81	80	50	23	10	4.5	2.7
11	2.8	4.5	3.8	32	79	77	79	49	22	9.4	4.5	2.7
12	2.8	4.5	3.7	34	78	75	82	48	21	9.1	4.3	2.6
13	2.4	4.5	4.1	34	75	77	83	47	19	8.8	4.5	2.3
14	2.5	4.7	3.7	37	73	79	83	44	18	9.1	4.2	2.3
15	2.6	4.5	3.7	39	72	79	82	42	16	9.0	3.8	2.3
16	2.6	4.7	3.7	40	72	77	83	39	16	9.0	4.5	2.7
17	2.3	5.1	3.6	43	73	79	83	38	15	8.7	4.7	2.7
18	2.3	3.8	4.0	44	70	78	83	37	15	8.6	4.9	2.6
19	2.3	3.6	3.9	44	68	77	80	37	15	7.8	4.8	2.3
20	2.5	3.6	4.0	43	65	79	73	38	13	e8.0	4.4	2.0
21	2.8	3.7	4.0	43	68	80	74	37	12	e8.0	3.7	1.9
22	2.9	4.1	4.0	44	71	79	73	36	12	e7.0	3.3	1.5
23	2.7	3.8	4.3	43	77	79	71	35	12	e7.0	3.7	1.5
24	3.0	3.7	4.5	48	83	78	73	35	12	6.7	3.6	1.4
25	3.1	3.7	6.4	46	84	78	72	35	e11	6.9	3.1	1.5
26	3.3	3.7	7.4	47	85	79	66	36	e11	7.0	3.3	2.0
27	3.8	3.4	7.1	48	86	78	67	35	e11	6.5	3.6	2.0
28	4.0	4.5	6.9	49	86	78	68	34	e11	6.4	3.3	1.7
29	4.2	4.1	7.2	49	---	77	66	32	e11	6.3	3.0	2.0
30	4.8	4.3	7.9	52	---	78	62	30	e11	6.1	2.6	2.1
31	4.4	---	8.9	54	---	78	---	29	---	6.2	2.7	---
TOTAL	90.1	126.3	145.8	1090	2030	2471	2286	1314	528	268.6	135.1	69.7
MEAN	2.91	4.21	4.70	35.2	72.5	79.7	76.2	42.4	17.6	8.66	4.36	2.32
MAX	4.8	5.1	8.9	54	138	85	83	60	28	11	6.6	3.1
MIN	2.3	3.4	3.6	11	53	75	62	29	11	6.1	2.6	1.4
AC-FT	179	251	289	2160	4030	4900	4530	2610	1050	533	268	138

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

MEAN	7.72	8.03	18.6	109	227	205	104	49.9	35.7	20.2	12.8	8.92
MAX	34.7	47.8	295	1163	744	1141	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	1992	1992	1992	1990	1992	1990	1992	1992	1992

SUMMARY STATISTICS				FOR 2001 CALENDAR YEAR				FOR 2002 WATER YEAR				WATER YEARS 1942 - 2002			
ANNUAL TOTAL		6687.9				10554.6							66.3		
ANNUAL MEAN		18.3				28.9							299		
HIGHEST ANNUAL MEAN													2.73		
LOWEST ANNUAL MEAN													1992		
HIGHEST DAILY MEAN		55	Apr 4			138	Feb 9						7470	Feb 27	1957
LOWEST DAILY MEAN		2.3	Oct 3			1.4	Sep 24						0.00	Jan 3	1969
ANNUAL SEVEN-DAY MINIMUM		2.4	Oct 13			1.7	Sep 22						0.00	Jan 15	1969
ANNUAL RUNOFF (AC-FT)		13270				20940							48020		
10 PERCENT EXCEEDS		45				79							147		
50 PERCENT EXCEEDS		11				11							17		
90 PERCENT EXCEEDS		3.3				2.7							2.7		

e Estimated