

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1999

LOCATION.--SWL/4 Sec. 7-6-26 W., Frontier County, Lat. 40°30'10", Long. 100°19'20", on right bank 3.75 miles southeast of Stockville and 13.5 miles upstream from Medicine Creek Dam.

DRAINAGE AREA.--770 square miles, of which approximately 530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2,380.94 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1950 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except discharges above 150 cubic feet per second are fair, and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 9.1 cubic feet per second August 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 390 cubic feet per second June 28, gage height 8.47 feet; minimum daily discharge 22 cubic feet per second July 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	48	48	45E	54	55	57	62	50	71	24	40
2	34	50	48	44E	55	55	54	62	50	60	33	40
3	37	53	48	44E	56	54	53	69	51	53	43	36
4	37E	60	48	45E	55	55	52	66	51	47	45	35
5	38E	60	48	46E	55	54	57	63	48	42	43	35
6	37E	58	48	47E	55	53	60	60	44	40	41	35
7	37E	56	47	48E	56	52	68	56	42	40	50	34
8	37	55	47	48E	55	54	65	53	39	37	47	33
9	37	56	47	49E	55	54	62	50	37	35	40	34
10	37	54	45	49E	57	55	60	50	44	32	31	34
11	36	53	46	50E	56	56	57	49	85	31	223	34
12	35	52	45	50E	56	56	57	49	122	31	211	35
13	34E	50	46	52E	54	56	58E	48	113	29	120	35
14	35E	49	47	52E	54	56	60E	59	86	28	75	35
15	36E	48	47	52E	54	59	66E	89	70	27	55	35
16	37E	47	48	54E	54	60	78	76	59	28	45	35
17	38E	46	49	54E	55	59	63	75	53	29	46	36
18	39E	46	49	54E	54	57	61	71	50	32	141	37
19	40E	46	49	56E	54	54	57	68	48	31	69	36
20	41E	46	45E	56	54	53	55	66	47	30	46	37
21	40	46	40E	57	53	52	54	60	46	30	40	37
22	40	46	38E	57	55	52	55	60	45	29	37	38
23	40	46	39E	56	55	51	57	64	44	27	33	37
24	41	46	40E	56	56	51	61	55	44	26	33	36
25	41	46	41E	55	57	51	63	53	41	26	32	35
26	42	46	43E	55	57	51	70	50	39	26	32	35
27	43	46	45E	55	56	52	83	49	93	25	31	34
28	45	46	47E	54	55	55	84	48	268	24	30	36
29	46	47	49E	54	-----	67	73	47	150	23	44	37
30	50	47	47E	53	-----	68	66	47	95	23	42	37
31	49	-----	46E	53	-----	60	-----	46	-----	22	41	-----
TOTAL	1,209	1,495	1,420	1,600	1,542	1,717	1,866	1,820	2,054	1,034	1,823	1,073
MEAN	39.0	49.8	45.8	51.6	55.1	55.4	62.2	58.7	68.5	33.4	58.8	35.8
MAX	50	60	49	57	57	68	84	89	268	71	223	40
MIN	30	46	38	44	53	51	52	46	37	22	24	33
AC-FT	2,400	2,970	2,820	3,170	3,060	3,410	3,700	3,610	4,070	2,050	3,620	2,130
CAL YEAR 1998	TOTAL	18,012.00	MEAN	49.3	MAX	383	MIN	19	AC-FT	35,730		
WTR YEAR 1999	TOTAL	18,653.00	MEAN	51.1	MAX	268	MIN	22	AC-FT	37,000		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1999

LOCATION.--Center of Sec. 25-5-26 W., Frontier County, Latitude 40° 22' 20", Longitude 100° 13' 20", On left bank 0.5 mile downstream from Medicine Creek Dam and 6.5 miles northwest of Cambridge.

DRAINAGE AREA.--880 square miles, of which 640 square miles contributes directly to surface runoff. This drainage controlled by Medicine Creek Dam 1/2 mile upstream.

GAGE.--Continuous stage recorder. Datum of gage is 2295.26 feet National Geodetic Vertical Datum of 1929 (U.S.B.R. benchmark).

PERIOD OF RECORD.--1949 - present (Monthly discharge only for some periods, published in WSP 1730).

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records above 5 cubic feet per second good, estimated records And records below 5 cubic feet per second poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,300 cubic feet per second March 23, 1960, gage height 5.97 ft.
No flow September 11, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 302 cubic feet per second July 25, gage height 2.66 feet; minimum daily discharge 0.18 cubic feet per second September 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	1.9	.66	.92	.97	.56	.19	.39	.57	68	203	95
2	29	1.3	.65	.66	.97	.45	.19	1.0	.31	66	128	62
3	29	.65	.66	.66	.97	.40	.23	.74	.41	62	47	3.0
4	29	.46	.54	.66	1.0	.46	.27	.97	.27	87	31	1.1
5	41	.38	.49	.97	1.3	.49	.57	.81	.33	166	31	1.1
6	57	.42	.77	.97	1.1	.47	.35	.72	.40	215	15	.49
7	57	.40	1.1	.97	1.1	.38	.30	.62	.56	239	.59	.56
8	53	.49	1.2	.97	.97	.41	.31	.66	.45	253	.76	.51
9	45	.66	1.2	.97	1.3	.30	.29	.66	.48	263	18	.43
10	46	.63	1.4	.97	1.7	.30	.30	.49	.97	265	62	.44
11	46	.66	1.4	.92	1.8	.29	.29	.58	1.6	266	53	.38
12	47	.66	1.2	.66	.50	.38	.29	.66	3.2	255	15	.40
13	48	.66	.88	.66	.66	.40	.42	.66	11	247	.86	.41
14	48	.66	1.0	.56	.61	.43	.94	.73	15	248	.94	.38
15	49	.66	.97	.66	.66	.40	.37	.66	17	250	8.6	.40
16	19	.64	.97	.66	.64	.37	.36	.49	20	202	57	.38
17	.37	.67	.97	.66	.65	.34	.34	.48	20	169	100	.38
18	.49	.65	.97	.66	.46	.51	.38	.43	21	169	69	.49
19	.61	.76	.97	.73	.35	3.5	.55	.45	23	163	33	.45
20	.60	.97	1.0	.97	.39	.97	.40	.69	81	179	33	.49
21	.53	.97	.70E	.97	.49	.72	.88	.47	104	210	34	.39
22	.66	1.2	.70E	.97	.67	.66	.43	.45	76	248	34	.39
23	.66	.97	.70E	.70	.46	.66	.36	.41	74	275	57	.33
24	.89	.85	.70E	.66	.74	.62	.36	.34	64	285	156	.24
25	.66	.66	.70E	.66	.66	.49	.53	.33	71	289	241	.21
26	.74	.81	.97	.66	.66	.37	.44	.32	71	301	265	.18
27	.97	.66	.97	.66	.66	.30	.52	.46	78	287	263	.19
28	1.0	.66	.97	.66	.54	.30	.63	.38	100	271	262	.25
29	.91	.66	.97	.87	-----	.24	.55	.38	82	256	215	.30
30	1.1	.72	.97	.97	-----	.24	.48	.38	67	220	150	.21
31	1.4	-----	.97	.97	-----	.23	-----	.32	-----	206	112	-----
TOTAL	683.59	22.44	28.32	24.61	22.98	16.64	12.52	17.13	1,004.55	6,680	2,695.75	171.48
MEAN	22.1	.75	.91	.79	.82	.54	.42	.55	33.5	215	87.0	5.72
MAX	57	1.9	1.4	.97	1.8	3.5	.94	1.0	104	301	265	95
MIN	.37	.38	.49	.56	.35	.23	.19	.32	.27	62	.59	.18
AC-FT	1,360	45	56	49	46	33	25	34	1,990	13,250	5,350	340
CAL YEAR 1998 TOTAL	18,129.19		MEAN	49.7	MAX	363	MIN	.17	AC-FT	35,960		
WTR YEAR 1999 TOTAL	11,380.01		MEAN	31.2	MAX	301	MIN	.18	AC-FT	22,570		

E indicates estimated discharge.