

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2004

LOCATION.--SW1/4 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 125 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 7.1 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 185 cubic feet per second August 26, gage height 6.28 feet; minimum daily discharge 17 cubic feet per second September 4, 9 - 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	34	38E	32E	51	39	37	27	33	44	20
2	20	24	34	37E	33E	59	39	36	25	38	27	19
3	21	27	35	37E	33E	53	40	36	25	44	24	18
4	23	27	35	36E	33E	49	40	36	24	35	24	17
5	22	29	34E	36E	33E	47	40	36	24	64	23	18
6	21	27	34E	36E	34E	45	40	35	24	54	23	18
7	21	27	33E	37E	34E	43	39	34	23	46	23	18
8	21	27	34	36E	34E	43	39	33	22	36	24	18
9	20	27	34	36E	34E	42	39	33	21	53	22	17
10	20	28	35	36E	35E	43	39	33	22	67	22	17
11	21	29	36	37E	35E	43	41	32	22	92	21	17
12	21	29	35E	36E	35E	42	42	31	23	85	21	17
13	22	29	34E	36E	34E	42	43	32	24	53	22	17
14	22	29	35E	36E	35E	41	43	31	22	40	22	17
15	22	30	36E	37E	35E	42	42	31	21	34	22	18
16	24	30	37E	38E	38E	41	41	32	45	40	20	19
17	27	30	36E	39E	41E	41	39	32	56	29	20	21
18	27	30	35E	40E	45E	41	38	33	39	30	19	21
19	27	30	34E	41	45E	41	37	34	37	27	19	19
20	27	30	34E	41	44E	41	37	34	38	26	19	19
21	26	30	35E	40	43	40	37	33	38	26	18	19
22	26	30	35	40	43	41	40	32	35	24	19	27
23	25	29E	35	40	42	40	41	31	33	25	18	29
24	25	30E	39	40	41	40	47	30	31	27	19	30
25	25	31E	35	41	40	41	47	31	30	26	19	31
26	25	30E	35	38E	39	41	49	30	31	25	102	28
27	24	31E	35	35E	38	42	45	30	47	24	55	27
28	24	32E	35	32E	39	41	43	30	46	26	33	25
29	24	33E	35E	29E	43	41	40	28	38	26	28	25
30	24	34	36E	30E	-----	40	37	37	33	28	25	25
31	24	-----	37E	31E	-----	39	-----	31	-----	38	22	-----
TOTAL	720	872	1,086	1,142	1,090	1,336	1,223	1,014	926	1,221	819	631
MEAN	23.2	29.1	35.0	36.8	37.6	43.1	40.8	32.7	30.9	39.4	26.4	21.0
MAX	27	34	39	41	45	59	49	37	56	92	102	31
MIN	19	23	33	29	32	39	37	28	21	24	18	17
AC-FT	1,430	1,730	2,150	2,270	2,160	2,650	2,430	2,010	1,840	2,420	1,620	1,250
CAL YEAR 2003	TOTAL	13,701	MEAN	37.5	MAX	731	MIN	11	AC-FT	27,180		
WTR YEAR 2004	TOTAL	12,080	MEAN	33.0	MAX	102	MIN	17	AC-FT	23,960		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2004

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 10 cubic feet per second are good, records between 5 and 10 cubic feet per second are fair, records below 5 cubic feet per second and estimated records are 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 231 cubic feet per second July 20, gage height 3.09 feet; minimum daily discharge 0 cubic feet per second October 19 - November 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	0	.30	.24	.25	.99	.78E	.13	.25	160	97	188
2	3.7	0	.35	.24	.26	.51	.78E	.10	6.2	131	144	173
3	3.4	.07	.36	.25	.25	.52	.78	.14	.92	126	167	21
4	.65	.12	.34	.28	.30	.52	1.4	.31	6.5	139	175	1.3
5	.65	.15	.30	.27	.29	.51	2.2	.24	.95	142	168	.43
6	.55	.20	.30	.25	.27	.43	.91	.28	.36	111	158	.28
7	3.5	.18	.32	.25	.26	.37	.53	.67	.23	103	158	.23
8	.30	.18	.33	.27	.27	.36	.42	1.7	.12	100	163	.21
9	.24	.18	.30	.25	.27	.30	.70	3.8	.07	100	186	.17
10	2.9	.18	.28	.24	.28	.32	1.3	8.0	.08	83	205	.10
11	.46	.18	.27	.25	.35	.30	1.6	14	.17	49	203	.07
12	.45	.16	.27	.25	.35	.29	.99	16	.13	71	199	.06
13	.66	.16	.26	.25	.34	.53	.71	18	.12	46	162	.05
14	.97	.17	.26	.26	.35	.87	.67	17	4.2	45	154	.02
15	.74	.18	.27	.29	.35	.51	1.1	3.6	2.2	110	154	.08
16	4.1	.18	.25	.33	.35	.50	1.6	1.9	.60	127	172	.05
17	.44	.18	.24	.34	.37	.88	1.0	1.7	.46	123	181	3.0
18	.05	.17	.25	.34	.40	.95	1.7	.72	.44	150	163	1.1
19	0	.16	.25	.34	.39	.79	2.7	.60	.44	185	165	.76
20	0	.18	.27	.33	.38	.79E	5.4	.52	85	220	154	.65
21	0	.18	.27	.32	.34	.79E	9.1	.41	130	216	153	.63
22	0	.19	.27	.29	.33	.79E	16	.42	121	202	156	4.0
23	0	.20	.27	.30	.32	.79E	16	.38	145	154	176	7.7
24	0	.21	.27	.30	.31	.79E	17	.32	186	146	187	6.8
25	0	.23	.27	.28	.31	.79E	14	.28	205	131	185	6.3
26	0	.24	.27	.29	.33	.79E	8.8	.21	191	160	178	6.4
27	0	.27	.29	.27	.34	.78E	.97	.19	185	163	149	7.2
28	0	.27	.22	.27	.35	.78E	.45	.20	183	179	145	6.9
29	0	.28	.22	.26	.68	.78E	.29	.22	173	141	146	6.4
30	0	.31	.22	.27	-----	.78E	.20	.18	169	99	183	6.1
31	0	-----	.23	.25	-----	.78E	-----	.22	-----	85	214	-----
TOTAL	28.76	5.36	8.57	8.62	9.64	19.88	110.08	92.44	1,797.44	3,997	5,200	448.99
MEAN	.93	.18	.28	.28	.33	.64	3.67	2.98	59.9	129	168	15.0
MAX	5.0	.31	.36	.34	.68	.99	17	18	205	220	214	188
MIN	0	0	.22	.24	.25	.29	.20	.10	.07	45	97	.02
AC-FT	57	11	17	17	19	39	218	183	3,570	7,930	10,310	891
CAL YEAR 2003 TOTAL	10,076.52			MEAN 27.6		MAX 252		MIN 0		AC-FT 19,990		
WTR YEAR 2004 TOTAL	11,726.78			MEAN 32.0		MAX 220		MIN 0		AC-FT 23,260		

E indicates estimated discharge.