

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2003

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 1,200 cubic feet per second June 26, gage height 14.10 feet; minimum daily discharge 11 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	39	37	37E	42	38E	42	97	36	66	18	15
2	19	37	37	39E	42	40E	42	105	40	47	18	14
3	21	37	37	40E	43	43E	42	76	35	43	18	12
4	23	36	37	38	42	42	41	70	38	40	18	12
5	25	35	37	38	40	41E	40	61	39	36	17	13
6	26	35	36E	38	40	40E	39E	55	36	34	16	12
7	25	35	35E	37	39E	41	38E	50	37	32	15	12
8	25	35	36	38	38E	41	37E	48	38	32	16	11
9	26	34	35E	38	38E	41	45	47	38	31	16	12
10	26	34	34E	37E	39E	40	47	51	36	30	21	14
11	27	34	36E	36	40	41	47	51	34	29	19	15
12	26	34	37	37E	40	41	44	51	34	27	18	16
13	26	34	37	37E	41	43	42	48	41	27	17	16
14	27	35	37	38E	43	44	40	46	39	27	16	15
15	27	35	36	39E	44	46	48	44	41	24	16	15
16	28	35	37	30E	45	46	52	44	37	22	15	15
17	28	35	37	31E	44	47	45	44	34	21	15	15
18	29	35	37	33E	44	49	48	45	31	19	14	15
19	28	35	38	34E	45	53	46	46	34	19	15	15
20	28	34	39	36E	45	56	46	43	32	20	14	15
21	29	34	37E	34E	44	54	42	41	31	20	14	15
22	30	34	36	32E	45	51	41	40	27	20	14	16
23	31	35	32E	30E	43	48	42	40	25	20	14	17
24	31	35	30E	28E	35	47	56	40	83	19	14	16
25	33	36	31E	31E	32E	44	70	39	360	18	12	17
26	33	36	32E	32E	30E	44	65	39	731	18	13	16
27	37	35E	34E	31E	33E	44	59	38	275	17	12	16
28	37	35E	36E	34E	35E	42	57	37	189	18	13	16
29	40	36	37E	36E	-----	42	60	35	143	17	14	17
30	40	36	36E	39E	-----	42	74	34	92	17	15	18
31	39	-----	35E	42	-----	42	-----	33	-----	23	15	-----
TOTAL	888	1,055	1,108	1,100	1,131	1,373	1,437	1,538	2,686	833	482	443
MEAN	28.6	35.2	35.7	35.5	40.4	44.3	47.9	49.6	89.5	26.9	15.5	14.8
MAX	40	39	39	42	45	56	74	105	731	66	21	18
MIN	18	34	30	28	30	38	37	33	25	17	12	11
AC-FT	1,760	2,090	2,200	2,180	2,240	2,720	2,850	3,050	5,330	1,650	956	879
CAL YEAR 2002	TOTAL	12,150.60	MEAN	33.3	MAX	65	MIN	7.1	AC-FT	24,100		
WTR YEAR 2003	TOTAL	14,074.00	MEAN	38.6	MAX	731	MIN	11	AC-FT	27,920		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2003

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 4 and 10 cubic feet per second are fair, records below 4 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 254 cubic feet per second August 19, gage height 2.44 feet; minimum daily discharge 0.02 cubic feet per second August 27.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.10	.16	.18	.10	.17	.59	.45	.24	93	169	.08
2	1.6	.09	.16	.17	.10	.17	.36	.40	.26	141	157	.10
3	1.9	.10	.18	.18	.12	.35	.42	.51	.36	195	161	.11
4	1.9	.12	.22	.19	.11	.65	.72	.44	.30	184	203	.11
5	.33	.14	.25	.19	.12	.56	.82	.41	.26	175	197	.08
6	.33	.14	.25	.17	.11	.81	1.8	.38	.29	179	197	.06
7	.36	.13	.27	.16	.10	.65	.89	.39	.54	202	198	.05
8	1.4	.13	.30	.15	.10	.84	.66	.40	.39	204	171	.06
9	1.4	.13	.31	.14	.09	1.1	.73	.41	.30	202	164	.12
10	1.7	.13	.32	.15	.08	1.3	.81	.58	.28	180	162	.27
11	1.4	.13	.34	.15	.07	1.0	.67	.62	.19	181	173	.41
12	.43	.16	.31	.13	.07	1.2	.66	.57	.22	183	207	3.3
13	.41	.14	.32	.14	.06	1.2	.68	.53	.22	183	195	.37
14	1.7	.14	.31	.15	.07	1.2	.95	.49	.21	202	185	.31
15	1.4	.13	.29	.14	.09	1.3	.96	.74	.23	203	159	2.6
16	1.1	.13	.29	.13	.09	1.1	2.2	.88	.24	204	150	2.7
17	1.0	.13	.31	.15	.10	1.1	1.6	.68	.21	207	158	2.8
18	.98	.14	.32	.14	.07	1.7	1.4	.66	.18	201	190	2.6
19	.29	.11	.26	.17	.08	1.3	1.5	1.4	.16	194	196	2.8
20	.26	.13	.26	.14	.08	1.2	1.9	.44	.13	193	252	.42
21	1.3	.15	.28	.15	.12	1.0	2.0	.41	.11	190	250	.39
22	1.2	.16	.24	.15	.16	.68	1.9	.36	.10	187	94	.59
23	.29	.17	.24	.15	.19	.66	2.5	.37	.08	177	.36	.79
24	.22	.18	.25	.15	.17	.95	1.6	.37	.07	175	.22	3.4
25	1.5	.19	.22	.15	.16	1.0	1.6	.33	.06	150	.09	3.8
26	.12	.17	.24	.13	.16	.55	1.1	.30	.05	153	.05	3.5
27	.20	.16	.16	.13	.14	.61	.80	.24	.04	170	.02	.48
28	.11	.15	.16	.13	.16	.91	1.2	.35	.04	209	.18	.51
29	.12	.16	.16	.13	-----	1.2	1.3	.21	62	207	.09	.66
30	1.6	.17	.17	.13	-----	1.2	.65	.14	107	215	.05	1.1
31	.10	-----	.17	.12	-----	1.4	-----	.18	-----	210	.06	-----
TOTAL	27.65	4.21	7.72	4.64	3.07	29.06	34.97	14.64	174.76	5,749	3,989.12	34.57
MEAN	.89	.14	.25	.15	.11	.94	1.17	.47	5.83	185	129	1.15
MAX	1.9	.19	.34	.19	.19	1.7	2.5	1.4	107	215	252	3.8
MIN	.10	.09	.16	.12	.06	.17	.36	.14	.04	93	.02	.05
AC-FT	55	8.4	15	9.2	6.1	58	69	29	347	11,400	7,910	69
CAL YEAR 2002	TOTAL	12,498.46	MEAN	34.2	MAX	238	MIN	0	AC-FT	24,790		
WTR YEAR 2003	TOTAL	10,073.41	MEAN	27.6	MAX	252	MIN	.02	AC-FT	19,980		