

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake - 1995

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.
E indicates estimated daily discharge.

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 158 cubic feet per second June 25, gage height 6.05 feet; minimum daily discharge 14 cubic feet per second August 31, September 1 & 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1995

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	55E	56	54	57	64	71	49	22E	14	55	43	47
2	55E	57	53	57	77	71	49	23E	14	44	43	48
3	52E	59	54	56	77	66	50	23	15	39	43	48
4	50E	61	53	54	85	67	50	24	15	36	43	47
5	48E	56	53	55	88	66	49	27	15	35	43	47
6	48E	56	52E	54	73	66	48	26	19	35	43	47
7	50E	54	53E	54	82	64	46	24	18	37	44	47
8	52E	55	52E	54	86	64	43	22	19	38	44	45
9	55E	53	54E	53	73	66	42	23	20	38	45	42E
10	57E	50	57E	53	66	68	40	22	20	37	46	42E
11	58E	50	59	54	62	63	38E	23	22	37	45	42E
12	59E	49	62	57	60	60	36E	23	22	36	45	46E
13	59E	47	62	60	58	58	35E	21	23	36	46	50E
14	58E	47E	62	65	60	56	33E	21	23	35	47	55E
15	58E	47E	60	63	59	54	32E	22	22	36	48	54E
16	56	50E	59	61	57	52	36E	22	22	36	48	53E
17	55	54E	57	59	56	49	34E	19	23	37	48	51E
18	55	52	58	66	54	47	31E	22	24	38	47	50
19	54	54	60	80	53	46	29E	23	32	37	47	50
20	55	56	60	83	53	45	28E	21	49	36	46	49
21	54	57	59	79	53	43	27E	19	55	37	45	49
22	54	60	58	78	54	42	26E	18	42	38	46	49
23	54	60	56	70	57	42	26E	19	40	42	46	51
24	55	59	54	66	59	80	25E	18	38	45	46	52
25	52	58	54	63	59	115	25E	19	37	52	47	51E
26	51	58	54	61	63	68	29E	20	36	53	48	51E
27	54	57	55	60	77	62	36E	21	35	53	47	50E
28	57	55	58	60	92	57	28E	20	35	50	46	49E
29	61	-----	61	59	98	51	25E	19	36	48	46	48E
30	58	-----	59	59	83	50	24E	16	52	45	46	48E
31	57	-----	58	-----	76	-----	23E	14	-----	44	-----	48E
TOTAL	1,696	1,527	1,760	1,850	2,114	1,809	1,092	656	837	1,265	1,367	1,506
MEAN	54.7	54.5	56.8	61.7	68.2	60.3	35.2	21.2	27.9	40.8	45.6	48.6
MAX	61	61	62	83	98	115	50	27	55	55	48	55
MIN	48	47	52	53	53	42	23	14	14	35	43	42
AC-FT	3,360	3,030	3,490	3,670	4,190	3,590	2,170	1,300	1,660	2,510	2,710	2,990
YEAR 1995	TOTAL	17,479	MEAN	47.9	MAX	115	MIN	14	AC-FT	34,670		

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1995

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.
E indicates estimated daily discharge. Records good, except estimated records 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 320 cubic feet per second estimated August 10, from high water mark at gage height 2.78 feet; minimum daily discharge 0.16 cubic feet per second September 29.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1995

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.58	.53	1.3	41	.97	121	65	270	174 E	.19	.26	.30
2	.55	.50	1.2	41	.80	90	64	240	123	.18	.26	.27
3	.61	.50	1.1	41	1.1	78	63	206	116	.18	.28	.28
4	.58	.47	1.1	41	1.0	81	64	172	145	.18	.30	.31
5	.61	.47	1.2	41	1.1	81	65	157	181	.26	.29	.32
6	.59	.51	1.8	41	2.1	81	64	165	135	.22	.27	.30
7	.56	.53	1.4	41	4.9	81	63	224E	73	.21	.29	.30
8	.57	.53	1.3	41	4.9	83	63	289E	40	.21	.30	.28
9	.59	.53	1.3	42	9.3	82	90	318E	27	.21	.32	.69
10	.54	.55	1.7	42	2.1	74	199	320E	26	.27	.35	.45
11	.55	.60	1.5	42	1.5	64	286	302E	27	.22	.35	.31
12	.59	.57	1.7	41	1.4	48	317	288E	26	.18	.35	.33
13	.58	.53	57	40	3.9	48	305	287E	26	.20	.35	.34
14	.59	.58	90	40	10	48	293	287E	26	.20	.35	.30
15	.58	.60	92	29	20	48	291	260E	2.4	.23	.35	.27
16	.48	.60	90	.77	28	48	294	223	.34	.23	.34	.30
17	.54	.54	86	.81	29	47	267	202	.27	.23	.37	.28
18	.55	.47	88	.79	30	46	229	171	.26	.18	.34	.26
19	.73	.47	86	.61	30	24	215	157	.24	.21	.35	.27
20	.68	.59	87	.71	31	14	202	155	.25	.22	.37	.28
21	.53	.71	71	.70	31	99	176	158E	.27	.24	.37	.27
22	.53	.80	62	.70	31	117	165	198E	.26	.22	.35	.27
23	.53	.80	61	.70	31	77	164	198E	.24	.42	.35	.27
24	.52	.84	60	.70	30	61	209	218E	.23	.29	.31	.27
25	.50	.87	61	.75	30	59	275	211E	.21	.26	.30	.27
26	.48	.87	61	.82	72	50	298	205E	.21	.27	.36	.27
27	.53	1.0	61	.70	115	42	314	203E	.18	.27	.32	.27
28	.50	1.1	49	.70	133	64	299	197E	.17	.28	.31	.27
29	.54	-----	42	.70	128	66	288	229E	.16	.31	.35	.27
30	.53	-----	42	1.2	124	66	288	235E	.21	.29	.28	.27
31	.53	-----	42	-----	122	-----	288	216E	-----	.27	-----	.31
TOTAL	17.37	17.66	1,304.6	615.36	1,060.07	1,988	6,263	6,961	1,150.90	7.33	9.74	9.45
MEAN	.56	.63	42.1	20.5	34.2	66.3	202	225	38.4	.24	.32	.30
MAX	.73	1.1	92	42	133	121	317	320	181	.42	.37	.69
MIN	.48	.47	1.1	.61	.80	14	63	155	.16	.18	.26	.26
AC-FT	34	35	2,590	1,220	2,100	3,940	12,420	13,810	2,280	15	19	19
YEAR 1995	TOTAL	19,404.48	MEAN	53.2	MAX	320	MIN	.16	AC-FT	38,490		