

Republican River at Hardy, Nebraska
1993 Level Flows

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
1931	1.5	0	0	0	17.1	3.4	6.7	9.1	4.9	5	1.7	11	60.4
1932	6.1	29.6	5.6	4.8	3.3	12.3	5.9	2.4	4.5	0	0.1	0	74.6
1933	0.3	1.8	4.5	0.8	7	2.4	5.6	5.9	9	4.8	0.7	0	42.8
1934	1.8	1.9	4.1	3.6	4	0.7	3.4	1.8	0	0.9	2.4	0.2	24.8
1935	0	8	2.8	3.7	0	261.9	4.4	0	20	4.1	1.7	6.9	313.5
1936	0	1	0.3	5.8	0	11	4.9	2.1	2.7	1.5	0	0	29.3
1937	1	35.6	5.9	2.9	1.7	3.9	12.4	1.3	3.5	1.8	0	0	70
1938	0.2	2	4.2	0	10	9.5	2.4	9.6	7.4	1.5	1.3	0	48.1
1939	0	0.5	4.8	9	1.3	19.3	7.7	5.4	2	0.6	0	0	50.6
1940	0	0	5.5	2.4	6.5	4.7	0	7.7	0	0	3.4	2.5	32.7
1941	4.1	2.3	2.1	4.3	4.1	78.4	0	0	1.2	9.1	6.3	4.6	116.5
1942	4.8	10.1	5.3	20.8	10.1	70.3	7.8	7.6	29.2	4.8	4.1	0	175
1943	7.8	16.3	3.3	23.8	4.6	35.8	6.4	4.7	2.2	1	0.5	0.4	106.9
1944	3.7	0	6.5	0	19.7	8.2	2.7	17.8	7.2	3.3	2.4	0	71.5
1945	4.9	5.3	5.3	11.1	45.4	0	22.4	4.2	0.2	0	0.3	0	99.2
1946	3.3	8.5	3.5	4.2	0	10.3	7.6	6.5	35.4	0	39.8	23.6	142.7
1947	9.1	2.4	13.3	24.2	21.5	167.5	6.2	5.3	3	1.5	0	2	256
1948	2.8	12.9	13.6	5.9	4.1	1.9	1.4	5.1	2.4	0.4	2	1.7	54.2
1949	0	18.2	36.5	8.5	56.4	88.3	9.9	2.7	6.2	6.4	3.4	5.2	242
1950	3.4	0.9	6.8	3.7	9.2	7	33.2	11.6	29.6	19.8	5.6	4.4	135.2
1951	5.2	7.3	10.4	11.8	0	111.7	111.9	14.1	34.2	26.3	18.9	17.6	369.5
1952	28.8	36.9	47.7	50	63.3	13.4	5.3	2.9	3.5	1.1	4	5.3	262.3
1953	2.2	10.4	4.6	4.8	5.3	14.2	2.6	2.2	5.6	4.1	4.4	7	67.4
1954	3.4	6.3	3.4	3.6	13.9	5.1	1.6	5.9	3.2	2.5	3	4.7	56.6
1955	4.2	8.2	4	3.5	2	37.9	1.5	1.5	10	4.7	3.2	4	84.7
1956	4.2	5.2	4.3	3.1	2.6	7.3	9.6	3.3	1.1	2.1	3	3.4	49.2
1957	2.5	4.8	3	3.2	12.2	124.8	1.2	10.4	6.7	4.7	3.2	4.3	181
1958	4.1	4.1	2.8	3.9	6.6	6.1	11.7	11.2	26.9	4.8	3.2	3.4	88.8
1959	4.7	8.9	12.5	1.8	40.8	6.6	11.8	7	5.7	5.9	4	6.7	116.4
1960	4.9	9.3	38.6	0.9	28.8	60.5	7	5.4	4.7	3.7	4	6.4	174.2
1961	5.4	6.1	3.6	4	11.2	12.7	11.7	9.4	7.1	9.4	8.1	6	94.7
1962	13	15.8	17	3.1	8.5	0	2.3	7	3.7	15.2	9.2	7.8	102.6
1963	5.5	0	8.4	11.4	6.9	4.9	6.4	2.8	18.2	10.2	3	3.8	81.6
1964	6.9	6.6	10	4	4.4	4.4	4.4	12.6	2.7	3.8	3.9	5	68.7
1965	5.4	12.6	13	8.8	34.5	40.7	10.7	9	19.8	0	16.5	20.5	191.5
1966	14	36.4	21.4	11.1	12.4	30.8	7.7	5.8	4.7	2	1.5	6	153.9
1967	5.3	3.6	4.5	5.4	4.9	38.5	4.6	9.3	11.5	9.3	4.8	7.2	108.9
1968	5.6	1.9	0.5	8.2	4.5	3.1	6.1	6.2	7.7	4.9	4	5.2	57.9
1969	0.2	22.9	43	4.9	12.2	10	14.8	12	11.5	10.6	5	7.9	155.1
1970	4.2	6	7.6	15.5	7.3	5.1	6.7	7.3	5.4	4.6	5.2	7.5	82.4
1971	5.7	11	11.8	5.5	7.7	12	6.3	7.4	5.9	3.9	4	8.4	89.6
1972	6.7	7.2	3.8	3.2	8.6	5	8.8	7.9	5.5	3.4	5.6	9.5	75.2
1973	10.4	10.4	18.4	22.5	12.5	8.5	7.58	9.6	87.3	78.1	25	18.3	311.8
1974	18.9	13.3	12.9	13.8	15.4	4.7	4.1	5	4.5	4.3	4.9	8.6	110.4
1975	9.3	10.4	11.3	7.1	9.6	56.7	11.6	7.2	5.2	4.2	5.3	10.2	148.1
1976	2.8	3.6	2.9	12	3.9	4.8	4.7	5.5	3.3	3.2	2.2	0	48.9
1977	4.3	9.6	5.5	5.1	8.1	7.3	6.3	14.4	26.8	6.5	5.6	7.5	107
1978	5.8	5.2	32.6	9.9	8.3	4.63	6.7	6.4	20.7	3.9	5	6.1	115.2
1979	4	21.6	56.7	17.1	21.5	4.7	7.5	6.8	6.3	6.1	7.1	8.9	168.3
1980	7.4	9.9	18.4	30.7	11	6.6	6.9	8.5	4.5	4.2	4	6.5	118.6
1981	6.6	5.6	4.4	4.5	28.1	7	17.2	9.3	4.5	3.5	2.7	12.4	105.8
1982	5.7	23.2	15.5	5.4	78.7	25.8	24.6	13	10.4	8.1	5	8.6	224.1
1983	10.8	10.1	9.6	6	19.6	54.6	8.9	9.5	29.2	66.4	15.5	13.2	253.5
1984	29.9	24.5	24.5	58.3	48.5	23.2	9	8.3	6	5.5	3.7	17.7	259.1
1985	8.7	13.1	9.1	7.4	44.1	9.7	7.3	24	4.8	15.7	11.8	10.2	165.9
1986	10.8	10.8	11.7	17.4	13.8	12.4	10.8	10.2	13.8	22.8	10.3	11	158.9
1987	8.4	8.4	48.3	58.7	39.8	7.9	8.6	14.4	5.1	4.7	4.5	11.3	222.1
1988	14.2	14.2	11.4	5	5.1	0.8	16.5	8.2	5.8	3.6	3.6	6.5	91.1
1989	6.8	7.5	5.3	5.3	3.5	4.3	5	7.2	5.6	6.9	4.2	4.9	66.6
1990	7.5	7	10.1	3.9	11.6	12.4	2.6	4.9	4.9	4.2	4.3	5.1	78.5
1991	3.6	8.2	4.9	3.9	4.9	4.7	1.3	5.1	4.2	3.6	3.7	7.1	55.2
1992	7.6	6.8	5.8	5.4	3.7	4.2	54.6	8	5.4	4.6	4.9	7.2	118.3
1993	6.9	28.5	96	33.5	31.4	22.7	204.9	42.4	45	25.9	46.1	38.3	621.6

1965 - 2000

Annual Values

	Hardy	Rock	Guide	Arikaree R N FK at at Haigler CO-NE sl	Buffalo Creek nr Haigner	Rock Creek at Parks	S Fk nr n	Frenchma n Creek at Culbertson	Driftwood Creek near Red	Willow Creek nr Willow	Red Creek	Beaver Creek	Prairie Creek near Dog Creek near Woodruff
All values are annual mean cfs													
95%	792.70	734.00	24.92	53.97	7.74	14.70	49.03	119.75	17.16	28.10	113.28	137.00	53.06
99%	942.72	765.80	42.66	62.68	8.33	15.70	71.37	163.72	22.51	50.32	178.33	151.77	74.51
99.50%	985.36	772.40	43.58	64.79	8.51	16.05	77.69	165.36	24.00	56.06	196.17	152.39	80.36
99.80%	1010.94	776.36	44.13	66.06	8.63	16.26	81.47	166.34	24.90	59.50	206.87	152.75	83.86
99.98%	1026.29	778.74	44.46	66.82	8.69	16.39	83.75	166.93	25.44	61.57	213.29	152.98	85.97
Max	1028.00	779.00	44.50	66.90	8.70	16.40	84.00	167.00	25.50	61.80	214.00	153.00	86.20

WMO with 14

1936-40
75%

757

95%
171

, 2% (5cm 4830)

Max Two Months	
1935 MJ	12,197
JJ 1939	3,046
MJ 1932	2,528

Monthly flow at Hardy.xls