

**Sacramento & San Joaquin Valley Unimpaired Runoff & WY Indices**  
**Source: CDEC**

Water Year	Sacramento Valley					San Joaquin Valley				
	Runoff (MAF)			Water Year Index		Runoff (MAF)			Water Year Index	
	Oct-Mar	Apr-Jul	WY Sum	Index	Year Type	Oct-Mar	Apr-Jul	WY Sum	Index	Year Type
1901						3.49	5.58	9.39	4.60	W
1902						1.12	3.81	5.08	3.41	AN
1903						1.45	4.13	5.71	3.45	AN
1904						1.96	5.37	7.64	4.31	W
1905						1.82	3.36	5.30	3.24	AN
1906	12.57	12.92	26.71	11.76	W	2.53	9.24	12.43	6.70	W
1907	18.96	13.45	33.70	14.07	W	3.67	7.61	11.82	6.20	W
1908	8.29	5.60	14.77	7.73	BN	0.98	2.17	3.32	2.40	D
1909	20.61	8.98	30.68	12.10	W	2.85	5.91	8.97	4.59	W
1910	13.12	6.11	20.12	9.38	W	2.87	3.62	6.64	3.65	AN
1911	12.27	13.12	26.38	11.74	W	3.63	7.52	11.48	5.97	W
1912	4.84	5.65	11.41	6.71	BN	0.54	2.57	3.21	2.55	BN
1913	5.72	6.29	12.85	6.24	D	0.44	2.34	3.00	2.00	C
1914	16.72	10.08	27.81	10.92	W	2.72	5.67	8.69	4.35	W
1915	11.41	11.42	23.86	10.99	W	1.29	4.95	6.40	4.10	W
1916	14.25	8.89	24.14	10.83	W	2.67	5.50	8.38	4.65	W
1917	7.25	9.14	17.26	8.83	AN	1.66	4.84	6.66	4.13	W
1918	5.27	4.89	10.99	6.19	D	1.07	3.40	4.59	3.08	BN
1919	8.12	6.77	15.66	7.00	BN	1.06	2.99	4.09	2.62	BN
1920	3.63	4.91	9.20	5.15	C	0.72	3.29	4.09	2.64	BN
1921	15.47	7.52	23.80	9.20	AN	1.97	3.84	5.90	3.23	AN
1922	6.63	10.57	17.98	8.97	AN	1.51	5.99	7.68	4.54	W
1923	6.21	6.27	13.21	7.06	BN	1.39	3.95	5.51	3.55	AN
1924	3.27	1.94	5.74	3.87	C	0.45	1.03	1.50	1.42	C
1925	8.76	6.51	15.99	6.39	D	1.45	3.93	5.51	2.93	BN
1926	6.37	4.79	11.76	5.75	D	0.89	2.56	3.49	2.30	D
1927	14.34	8.75	23.83	9.52	W	1.80	4.56	6.50	3.56	AN
1928	10.24	5.86	16.76	8.27	AN	1.69	2.64	4.37	2.63	BN
1929	4.00	3.84	8.40	5.22	C	0.52	2.29	2.84	2.00	C
1930	8.24	4.65	13.52	5.90	D	0.76	2.44	3.25	2.02	C
1931	3.52	2.09	6.10	3.66	C	0.46	1.18	1.66	1.20	C
1932	6.28	6.24	13.12	5.48	D	1.79	4.69	6.63	3.41	AN
1933	3.73	4.66	8.94	4.63	C	0.49	2.77	3.34	2.44	D
1934	5.68	2.45	8.63	4.07	C	0.98	1.26	2.28	1.44	C
1935	6.27	9.69	16.59	6.98	BN	1.26	5.03	6.41	3.56	AN
1936	10.32	6.41	17.35	7.75	BN	2.00	4.38	6.49	3.74	AN
1937	5.50	7.24	13.33	6.87	BN	1.78	4.66	6.53	3.90	W
1938	17.96	12.93	31.83	12.62	W	3.58	7.33	11.24	5.89	W
1939	4.56	3.04	8.18	5.58	D	1.00	1.83	2.90	2.20	D
1940	14.78	6.93	22.43	8.88	AN	2.49	4.04	6.59	3.36	AN
1941	16.32	9.77	27.08	11.47	W	2.22	5.51	7.93	4.43	W
1942	14.33	9.93	25.24	11.27	W	1.93	5.28	7.38	4.44	W
1943	13.37	6.90	21.13	9.77	W	2.86	4.28	7.28	4.03	W
1944	4.81	4.93	10.43	6.35	D	0.87	2.97	3.92	2.76	BN
1945	8.42	5.92	15.06	6.80	BN	2.07	4.37	6.60	3.59	AN
1946	10.89	5.97	17.62	7.70	BN	1.99	3.65	5.73	3.30	AN
1947	5.90	3.83	10.39	5.61	D	1.26	2.12	3.42	2.18	D
1948	5.39	9.55	15.75	7.12	BN	0.56	3.58	4.21	2.70	BN
1949	5.73	5.59	11.97	6.09	D	0.62	3.12	3.79	2.53	BN
1950	7.01	6.72	14.44	6.62	BN	1.02	3.57	4.65	2.85	BN
1951	16.77	5.42	22.95	9.18	AN	4.35	2.83	7.25	3.14	AN
1952	13.86	13.68	28.60	12.38	W	2.18	6.84	9.30	5.17	W
1953	10.84	8.26	20.09	9.55	W	1.07	3.18	4.35	3.03	BN
1954	9.74	6.81	17.43	8.51	AN	1.10	3.16	4.30	2.72	BN
1955	5.19	5.07	10.98	6.14	D	0.78	2.67	3.50	2.30	D
1956	20.32	8.60	29.89	11.38	W	4.14	5.29	9.67	4.46	W
1957	7.72	6.29	14.89	7.83	AN	1.02	3.19	4.29	3.01	BN
1958	16.37	12.24	29.71	12.16	W	1.67	6.40	8.36	4.77	W
1959	7.40	3.84	12.05	6.75	BN	0.98	1.85	2.98	2.21	D
1960	7.72	4.65	13.06	6.20	D	0.85	2.07	2.96	1.85	C
1961	6.87	4.39	11.97	5.68	D	0.54	1.50	2.10	1.38	C

Water Year	Eight River Index (MAF)		
	3-Yr		
	Annual	Average	Rank
1901			
1902			
1903			
1904			
1905			
1906	39.14		
1907	45.52		
1908	18.09	34.25	101
1909	39.65	34.42	102
1910	26.76	28.17	81
1911	37.86	34.76	104
1912	14.62	26.41	73
1913	15.85	22.78	54
1914	36.50	22.32	51
1915	30.26	27.54	75
1916	32.52	33.09	100
1917	23.92	28.90	84
1918	15.58	24.01	60
1919	19.75	19.75	34
1920	13.29	16.21	17
1921	29.70	20.91	40
1922	25.66	22.88	55
1923	18.72	24.69	65
1924	7.24	17.21	22
1925	21.50	15.82	16
1926	15.25	14.66	11
1927	30.33	22.36	52
1928	21.13	22.24	50
1929	11.24	20.90	39
1930	16.77	16.38	18
1931	7.76	11.92	3
1932	19.75	14.76	12
1933	12.28	13.26	5
1934	10.91	14.31	10
1935	23.00	15.40	15
1936	23.84	19.25	30
1937	19.86	22.23	49
1938	43.07	28.92	86
1939	11.08	24.67	64
1940	29.02	27.72	78
1941	35.01	25.04	67
1942	32.62	32.22	97
1943	28.41	32.01	95
1944	14.35	25.13	69
1945	21.66	21.47	43
1946	23.35	19.79	35
1947	13.81	19.61	33
1948	19.96	19.04	29
1949	15.76	16.51	19
1950	19.09	18.27	26
1951	30.20	21.68	47
1952	37.90	29.06	87
1953	24.44	30.85	93
1954	21.73	28.02	80
1955	14.48	20.22	36
1956	39.56	25.26	70
1957	19.18	24.41	63
1958	38.07	32.27	98
1959	15.03	24.09	61
1960	16.02	23.04	57
1961	14.07	15.04	14

1962	8.17	6.23	15.11	6.65	BN	1.26	4.24	5.61	3.07	BN	1962	20.72	16.94	21
1963	12.01	10.09	22.99	9.63	W	1.68	4.37	6.24	3.57	AN	1963	29.23	21.34	42
1964	5.90	4.37	10.92	6.41	D	0.93	2.14	3.14	2.19	D	1964	14.06	21.34	41
1965	16.59	8.13	25.64	10.15	W	3.20	4.55	8.13	3.81	W	1965	33.77	25.69	72
1966	7.42	4.84	12.95	7.16	BN	1.49	2.42	3.98	2.51	BN	1966	16.93	21.59	45
1967	12.14	11.01	24.06	10.20	W	2.46	7.09	9.98	5.25	W	1967	34.04	28.25	82
1968	8.66	4.12	13.64	7.24	BN	1.02	1.85	2.94	2.21	D	1968	16.58	22.52	53
1969	15.33	10.68	26.98	11.05	W	3.84	8.14	12.29	6.09	W	1969	39.27	29.96	89
1970	18.87	4.35	24.06	10.40	W	2.55	2.96	5.61	3.18	AN	1970	29.67	28.51	83
1971	12.71	8.90	22.57	10.37	W	1.56	3.23	4.91	2.89	BN	1971	27.48	32.14	96
1972	7.61	5.02	13.43	7.29	BN	1.25	2.22	3.57	2.16	D	1972	17.00	24.72	66
1973	12.80	6.38	20.05	8.58	AN	1.87	4.48	6.47	3.50	AN	1973	26.52	23.67	58
1974	21.69	9.78	32.50	12.99	W	2.43	4.53	7.12	3.90	W	1974	39.62	27.71	77
1975	9.24	8.95	19.23	9.35	W	1.37	4.65	6.18	3.85	W	1975	25.41	30.52	92
1976	4.63	2.75	8.20	5.29	C	0.78	1.07	1.97	1.57	C	1976	10.17	25.07	68
1977	2.49	1.93	5.12	3.11	C	0.22	0.80	1.05	0.84	C	1977	6.17	13.92	8
1978	14.90	8.12	23.92	8.65	AN	2.57	6.50	9.65	4.58	W	1978	33.57	16.64	20
1979	6.06	5.64	12.41	6.67	BN	1.87	3.99	5.98	3.67	AN	1979	18.39	19.38	31
1980	15.49	6.00	22.33	9.04	AN	3.74	5.41	9.47	4.73	W	1980	31.80	27.92	79
1981	6.81	3.63	11.10	6.21	D	0.85	2.29	3.22	2.44	D	1981	14.32	21.50	44
1982	20.56	11.82	33.41	12.76	W	3.78	7.00	11.41	5.45	W	1982	44.82	30.31	91
1983	22.75	13.66	37.68	15.29	W	5.42	8.73	15.01	7.22	W	1983	52.69	37.28	107
1984	15.98	5.52	22.35	10.00	W	3.51	3.48	7.13	3.69	AN	1984	29.48	42.33	108
1985	6.24	4.00	11.04	6.47	D	1.11	2.41	3.60	2.40	D	1985	14.64	32.27	98
1986	19.45	5.45	25.83	9.96	W	4.36	4.92	9.50	4.31	W	1986	35.33	26.48	74
1987	5.85	2.80	9.27	5.86	D	0.55	1.48	2.08	1.86	C	1987	11.35	20.44	37
1988	5.78	2.90	9.23	4.65	C	0.86	1.55	2.48	1.48	C	1988	11.71	19.46	32
1989	9.03	5.07	14.82	6.13	D	1.07	2.42	3.56	1.96	C	1989	18.38	13.81	6
1990	4.94	3.72	9.26	4.81	C	0.83	1.59	2.46	1.51	C	1990	11.72	13.94	9
1991	3.90	4.01	8.44	4.21	C	0.56	2.57	3.20	1.96	C	1991	11.64	13.91	7
1992	5.41	2.93	8.87	4.06	C	0.86	1.66	2.58	1.56	C	1992	11.45	11.60	1
1993	12.44	8.98	22.21	8.54	AN	2.49	5.65	8.38	4.20	W	1993	30.59	17.89	24
1994	4.55	2.73	7.81	5.02	C	0.66	1.80	2.54	2.05	C	1994	10.35	17.46	23
1995	19.83	13.60	34.55	12.89	W	3.67	8.01	12.32	5.95	W	1995	46.87	29.27	88
1996	13.05	8.37	22.29	10.26	W	2.57	4.51	7.22	4.12	W	1996	29.51	28.91	85
1997	20.22	4.39	25.42	10.82	W	5.75	3.59	9.51	4.13	W	1997	34.93	37.10	106
1998	17.65	12.54	31.40	13.31	W	2.82	7.11	10.43	5.65	W	1998	41.83	35.42	105
1999	12.97	7.26	21.19	9.80	W	1.90	3.85	5.91	3.59	AN	1999	27.10	34.62	103
2000	12.06	5.96	18.90	8.94	AN	1.98	3.78	5.90	3.38	AN	2000	24.80	31.24	94
2001	5.64	3.46	9.81	5.76	D	0.92	2.23	3.18	2.20	D	2001	12.99	21.63	46
2002	9.32	4.57	14.60	6.35	D	1.27	2.75	4.06	2.34	D	2002	18.66	18.82	28
2003	10.71	7.74	19.31	8.21	AN	1.25	3.49	4.87	2.81	BN	2003	24.18	18.61	27
2004	10.95	4.40	16.04	7.51	BN	1.51	2.25	3.81	2.21	D	2004	19.85	20.90	38
2005	8.40	9.28	18.55	8.49	AN	2.73	6.28	9.21	4.75	W	2005	27.76	23.93	59
2006	18.06	13.09	32.09	13.20	W	2.86	7.37	10.44	5.90	W	2006	42.53	30.05	90
2007	6.59	3.04	10.28	6.19	D	0.99	1.46	2.51	1.97	C	2007	12.79	27.69	76
2008	5.90	3.82	10.28	5.16	C	0.99	2.45	3.49	2.06	C	2008	13.77	23.03	56
2009	7.05	5.30	13.02	5.78	D	1.51	3.35	4.94	2.72	BN	2009	17.96	14.84	13
2010	7.45	7.78	16.01	7.08	BN	1.43	4.53	6.08	3.55	AN	2010	22.09	17.94	25
2011	12.68	11.53	25.21	10.54	W	3.68	6.90	10.99	5.58	W	2011	36.20	25.42	71
2012	5.69	5.46	11.84	6.89	BN	0.83	1.86	2.76	2.18	D	2012	14.60	24.30	62
2013	8.52	3.01	12.19	5.83	D	1.33	1.67	3.05	1.71	C	2013	15.24	22.01	48
2014	4.29	2.59	7.46	4.07	C	0.46	1.21	1.72	1.16	C	2014	9.18	13.01	4
2015	6.95	1.77	9.27	4.01	C	0.66	0.74	1.43	0.81	C	2015	10.70	11.71	2