

# **Hydropower Modeling Attachment: Alternative Plan 5, SWP, Existing Conditions**

**Upper San Joaquin River Basin Storage  
Investigation, California**

*Prepared by:*

**United States Department of the Interior  
Bureau of Reclamation  
Mid-Pacific Region**



**U.S. Department of the Interior  
Bureau of Reclamation**

**August 2014**

## **Mission Statements**

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.







**Percent Difference in Energy generated (GWh) at Alamo Dam: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	-1%	-1%
1934	Critical	-1%	-1%	-2%	-1%	-1%	0%	0%	0%	0%	1%	9%	0%
1935	Below Normal	-23%	3%	3%	0%	0%	0%	-1%	-1%	-14%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	4%	-1%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-1%	-1%	-1%	0%	0%	0%	-1%	-9%	-9%	-3%	-8%	-1%
1939	Dry	-1%	-1%	-1%	0%	0%	0%	-10%	1%	7%	0%	-5%	0%
1940	Above Normal	0%	-67%	4%	-27%	-15%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	-1%	0%	-1%	0%	-1%	0%
1943	Wet	0%	-1%	0%	0%	0%	4%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-16%	-15%	-10%	0%	0%	0%	0%	0%	0%
1945	Below Normal	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	1%	0%
1947	Dry	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-3%	-2%	-1%	0%	5%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-6%	-6%	-6%	-7%	-6%
1953	Wet	-6%	-6%	8%	0%	0%	0%	-17%	-2%	-1%	-1%	-1%	-2%
1954	Above Normal	-1%	0%	0%	6%	0%	4%	1%	1%	6%	-1%	0%	0%
1955	Dry	0%	1%	1%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-16%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%
1960	Dry	0%	0%	-1%	-2%	-2%	0%	0%	12%	0%	7%	0%	0%
1961	Dry	-2%	-2%	-2%	5%	4%	2%	0%	0%	0%	0%	2%	0%
1962	Below Normal	21%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-3%	0%	1%	1%
1966	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	0%	0%	0%	0%	0%	2%	2%	2%	3%	3%
1969	Wet	1%	1%	0%	-12%	0%	0%	0%	-1%	0%	0%	0%	0%
1970	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-3%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	0%	4%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	0%	0%	-1%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	0%	0%	1%	-1%	-1%	-2%	-1%	2%	0%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	47%	0%	7%	0%	-3%	0%
1978	Above Normal	0%	9%	0%	0%	0%	-2%	0%	5%	4%	5%	5%	7%
1979	Below Normal	2%	2%	1%	-3%	0%	17%	4%	1%	1%	0%	0%	0%
1980	Above Normal	0%	1%	1%	0%	0%	0%	-7%	-5%	-5%	-5%	-5%	-5%
1981	Dry	-5%	-5%	-5%	0%	0%	16%	2%	3%	2%	0%	-6%	0%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-9%	2%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-4%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-4%	-4%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	-5%	0%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-4%	0%	0%	0%	1%
1992	Critical	1%	-7%	5%	0%	-1%	0%	0%	0%	0%	0%	0%	-2%
1993	Above Normal	-1%	-11%	2%	0%	0%	0%	0%	0%	-5%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1995	Wet	132%	-25%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-48%	-37%	-28%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	0%	0%	0%	0%	-5%	-5%	-6%	-6%	-5%
1999	Wet	6%	-6%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	1%
2001	Dry	0%	0%	0%	-8%	-8%	-3%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	15%	-5%	5%	3%	1%	0%	0%	0%	0%	0%	0%
Average		1%	-1%	0%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
Wet		5%	-2%	0%	-3%	-1%	-1%	0%	-1%	-1%	-1%	-1%	-1%
Above Normal		0%	-4%	0%	-1%	-1%	0%	-1%	0%	0%	0%	0%	0%
Below Normal		0%	0%	0%	-1%	0%	1%	0%	0%	-1%	0%	0%	0%
Dry		0%	-1%	0%	-1%	-1%	0%	-1%	0%	1%	0%	-1%	0%
Critical		0%	-1%	0%	0%	0%	0%	4%	0%	0%	0%	1%	0%

















**Percent Difference in Energy generated (GWh) at DCanyon: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	16%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	-1%	-1%
1934	Critical	-1%	-2%	-2%	0%	0%	0%	0%	1%	0%	1%	0%	0%
1935	Below Normal	-31%	4%	4%	0%	0%	0%	-1%	-1%	-26%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-2%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	14%	-2%	-2%	-2%	-1%	-1%	-1%
1938	Wet	-1%	-1%	-2%	-18%	-22%	3%	-1%	-10%	-10%	-2%	-9%	-1%
1939	Dry	-1%	-1%	-1%	0%	3%	-5%	-11%	2%	75%	0%	-6%	0%
1940	Above Normal	0%	-80%	4%	-28%	-15%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-7%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	2%	3%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-11%	-11%	-6%	0%	0%	0%	0%	0%	0%
1945	Below Normal	0%	-1%	-1%	0%	0%	-14%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-3%	-2%	-1%	0%	6%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	19%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	-2%	0%	0%	0%	-4%	-4%	-4%	-5%	-5%
1953	Wet	-5%	-5%	10%	13%	-7%	-13%	-20%	-2%	-1%	-1%	-1%	-2%
1954	Above Normal	0%	0%	1%	7%	6%	4%	1%	1%	7%	-2%	0%	0%
1955	Dry	0%	0%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-25%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	-4%	0%	0%	0%	1%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-1%	-3%	-3%	0%	1%	0%	0%
1960	Dry	0%	0%	0%	-2%	-1%	1%	0%	-2%	0%	19%	-2%	10%
1961	Dry	-2%	-2%	-2%	7%	5%	2%	0%	0%	0%	0%	3%	0%
1962	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-4%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	0%	-7%	0%	1%	0%	3%	2%	2%	3%	3%
1969	Wet	0%	0%	-1%	-12%	-7%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1970	Wet	-1%	-1%	-1%	-25%	-1%	0%	0%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	-22%	0%	0%	0%	-3%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	16%	11%	-8%	5%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-3%	-3%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	0%	-1%	3%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	110%	0%	0%	0%	0%	0%
1978	Above Normal	0%	168%	1%	0%	0%	-2%	0%	5%	4%	5%	5%	6%
1979	Below Normal	1%	1%	-1%	-18%	-15%	7%	1%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-2%	4%	-2%	-5%	-4%	-4%	-5%	-5%	-5%
1981	Dry	-4%	-4%	-4%	-1%	-3%	16%	3%	3%	0%	-1%	-8%	1%
1982	Wet	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-34%	0%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-4%	-4%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	-6%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-4%	-1%	1%	0%	1%
1992	Critical	0%	-8%	7%	0%	0%	0%	0%	0%	0%	0%	0%	-3%
1993	Above Normal	-1%	0%	1%	0%	0%	0%	0%	0%	-8%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	>1,000%	-37%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-49%	-43%	-22%	0%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	-7%	22%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	12%	-5%	0%	-3%	-3%	-4%	-5%	-5%
1999	Wet	5%	-4%	6%	13%	27%	-9%	0%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	1%	1%	1%	1%	1%
2001	Dry	0%	0%	0%	-10%	-8%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	18%	-6%	5%	3%	1%	0%	0%	0%	0%	0%	0%
Average		-1%	1%	0%	-2%	-1%	-1%	1%	0%	0%	0%	0%	0%
Wet		0%	-2%	0%	-4%	-1%	-4%	-1%	-1%	-1%	0%	-1%	-1%
Above Normal		0%	9%	0%	-2%	1%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-2%	0%	0%	-1%	-1%	0%	0%	0%	-2%	0%	0%	0%
Dry		0%	-1%	0%	-1%	-1%	0%	-1%	0%	5%	0%	-1%	0%
Critical		0%	-1%	0%	0%	0%	0%	9%	0%	0%	0%	0%	0%









**Percent Difference in Energy generated (GWh) at Mojave Dam: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	16%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1930	Dry	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1934	Critical	-1%	-2%	-2%	-1%	0%	0%	0%	0%	1%	1%	0%	0%
1935	Below Normal	-32%	4%	4%	0%	0%	0%	-1%	-1%	-25%	0%	0%	0%
1936	Below Normal	0%	0%	0%	1%	1%	-2%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	1%	13%	-2%	-2%	-2%	-1%	-1%	-1%
1938	Wet	-1%	-1%	-2%	-18%	-21%	3%	-1%	-10%	-10%	-2%	-9%	-1%
1939	Dry	-1%	-1%	-1%	0%	3%	-5%	-11%	2%	63%	0%	-6%	-1%
1940	Above Normal	0%	-81%	4%	-28%	-15%	-2%	0%	0%	-1%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-7%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	2%	3%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-12%	-11%	-6%	0%	0%	0%	0%	0%	0%
1945	Below Normal	0%	-1%	-1%	-1%	0%	-13%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	2%	0%	0%	0%	0%	1%	0%	0%	1%	0%
1947	Dry	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-3%	-2%	-2%	0%	6%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	19%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	-2%	0%	0%	0%	-4%	-4%	-4%	-5%	-5%
1953	Wet	-5%	-5%	9%	13%	-7%	-13%	-19%	-2%	-1%	-1%	-1%	-2%
1954	Above Normal	0%	0%	1%	7%	6%	4%	1%	1%	7%	-1%	0%	0%
1955	Dry	1%	0%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-24%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	-4%	0%	0%	0%	2%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-1%	-2%	-3%	16%	1%	0%	0%
1960	Dry	0%	0%	0%	-1%	-2%	1%	0%	0%	18%	-2%	10%	-3%
1961	Dry	-2%	-2%	-2%	7%	5%	2%	0%	0%	0%	0%	3%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-4%	1%	1%	1%
1966	Below Normal	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	0%	-7%	0%	1%	0%	3%	2%	2%	3%	3%
1969	Wet	0%	0%	-1%	-12%	-7%	0%	-1%	-1%	-1%	0%	-1%	-1%
1970	Wet	-1%	0%	-1%	-25%	-1%	0%	0%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	-22%	0%	0%	0%	-3%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	16%	11%	-8%	5%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-3%	-3%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-17%	-1%	3%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	75%	0%	6%	0%	-4%	0%
1978	Above Normal	0%	0%	1%	0%	0%	-2%	0%	5%	4%	5%	5%	6%
1979	Below Normal	1%	1%	-1%	-18%	-17%	7%	4%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-2%	4%	-2%	-5%	-4%	-4%	-5%	-5%	-5%
1981	Dry	-5%	-5%	-4%	-1%	-2%	16%	2%	3%	0%	-1%	-8%	1%
1982	Wet	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-35%	3%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-4%	-4%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	-6%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-4%	-1%	0%	0%	0%
1992	Critical	0%	-9%	7%	0%	0%	-1%	0%	0%	0%	0%	0%	-2%
1993	Above Normal	-1%	0%	1%	0%	0%	0%	0%	0%	-7%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	>1,000%	-35%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-49%	-43%	-22%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	-7%	21%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	12%	-5%	0%	-4%	-4%	-5%	-5%	-5%
1999	Wet	7%	-5%	6%	13%	26%	-9%	0%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	1%	0%	1%	1%	1%
2001	Dry	0%	0%	0%	-10%	-8%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	18%	-6%	5%	3%	1%	0%	0%	0%	0%	0%	0%
Average		-1%	-2%	0%	-2%	-1%	-1%	1%	0%	0%	0%	0%	0%
Wet		0%	-2%	0%	-4%	-1%	-4%	0%	-1%	-1%	0%	-1%	-1%
Above Normal		0%	-5%	0%	-2%	1%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-2%	0%	0%	-1%	-2%	0%	0%	0%	-1%	0%	0%	0%
Dry		0%	-1%	-1%	-1%	-1%	0%	-1%	0%	4%	0%	-1%	0%
Critical		0%	-1%	0%	0%	0%	0%	6%	0%	-1%	0%	0%	0%

















Percent Difference in Energy generated (GWh) at SWP San Luis: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1923	Below Normal	0%	-1%	0%	6%	-3%	-1%	0%	-1%	5%	0%	0%	0%
1924	Critical	0%	0%	0%	0%	0%	-5%	-6%	-8%	-13%	0%	-10%	-12%
1925	Dry	0%	0%	0%	0%	0%	0%	-1%	-2%	-7%	0%	3%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	1%	-2%	0%	13%	0%
1927	Wet	-1%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1928	Above Normal	4%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	-11%	-5%	0%	1%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1932	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	0%	0%	0%	0%	-1%	-1%	-1%	-3%	-1%	-1%
1934	Critical	-8%	0%	0%	0%	0%	0%	1%	1%	1%	1%	3%	0%
1935	Below Normal	0%	0%	0%	0%	0%	0%	-1%	-1%	-4%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	0%	0%	0%	-1%	-4%	0%	0%	0%
1937	Below Normal	0%	-4%	0%	0%	0%	0%	6%	9%	-37%	0%	9%	-13%
1938	Wet	0%	0%	0%	0%	0%	0%	23%	-	0%	0%	0%	0%
1939	Dry	-62%	-5%	0%	-6%	-5%	-8%	-12%	-5%	-2%	0%	-96%	0%
1940	Above Normal	30%	-39%	0%	0%	0%	0%	2%	1%	-2%	0%	0%	0%
1941	Wet	0%	-1%	0%	0%	0%	0%	0%	3%	1%	0%	0%	0%
1942	Wet	-5%	-1%	0%	0%	0%	-9%	-2%	-2%	-5%	0%	0%	0%
1943	Wet	-1%	1%	0%	0%	0%	0%	0%	-5%	-5%	0%	0%	0%
1944	Dry	-16%	-11%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	-5%
1945	Below Normal	0%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%
1946	Below Normal	0%	0%	0%	0%	-34%	8%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	-3%	0%
1948	Below Normal	0%	0%	-21%	-21%	-3%	0%	0%	2%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	2%	-1%	-2%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	-1%	0%	0%	0%	-1%	0%	9%	12%	0%	0%	0%	0%
1953	Wet	-50%	-8%	0%	25%	-7%	-25%	-16%	0%	1%	0%	0%	0%
1954	Above Normal	-1%	12%	0%	22%	24%	0%	2%	4%	5%	0%	0%	0%
1955	Dry	0%	0%	0%	0%	0%	0%	-1%	-1%	-1%	0%	-1%	0%
1956	Wet	-15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	9%	7%	16%	0%	0%	0%
1959	Below Normal	-5%	-5%	0%	-2%	-2%	2%	-6%	-10%	-24%	0%	0%	0%
1960	Dry	0%	0%	0%	0%	0%	0%	1%	1%	3%	0%	100%	0%
1961	Dry	-4%	0%	0%	0%	0%	0%	0%	1%	0%	0%	3%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%
1965	Wet	-4%	0%	0%	0%	-	0%	-2%	-4%	-4%	0%	0%	0%
1966	Below Normal	1%	0%	0%	-23%	-3%	-2%	0%	-1%	-1%	0%	0%	0%
1967	Wet	-100%	0%	0%	0%	0%	0%	7%	10%	0%	0%	0%	0%
1968	Below Normal	0%	-7%	0%	-2%	-2%	-2%	-3%	-4%	-2%	0%	0%	0%
1969	Wet	0%	0%	0%	0%	0%	0%	128%	0%	0%	0%	0%	0%
1970	Wet	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	11%
1971	Wet	1%	0%	0%	0%	0%	0%	-1%	-1%	-2%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	-1%	-5%	0%	0%	0%
1974	Wet	0%	0%	0%	604%	-2%	0%	1%	-6%	-12%	0%	0%	0%
1975	Wet	0%	-1%	0%	-7%	-2%	0%	3%	4%	5%	0%	0%	0%
1976	Critical	0%	2%	0%	5%	1%	0%	-1%	-1%	-1%	0%	0%	0%
1977	Critical	0%	-2%	-2%	0%	0%	1%	12%	0%	0%	0%	0%	0%
1978	Above Normal	0%	0%	0%	0%	0%	0%	14%	21%	-	0%	0%	0%
1979	Below Normal	0%	-29%	0%	0%	0%	0%	17%	-1%	-7%	0%	0%	-100%
1980	Above Normal	0%	0%	0%	0%	0%	0%	-7%	-5%	-7%	0%	279%	-69%
1981	Dry	0%	-22%	0%	9%	3%	265%	4%	6%	34%	0%	-20%	0%
1982	Wet	0%	0%	0%	0%	0%	0%	0%	14%	31%	0%	0%	0%
1983	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	0%	12%	7%	3%	0%	-61%	0%
1987	Dry	-	-4%	0%	-2%	-2%	-1%	-6%	-11%	-7%	0%	-9%	0%
1988	Critical	-10%	-100%	0%	0%	-3%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	8%	0%
1990	Critical	0%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	-1%	0%	0%	0%	0%	0%	-3%	0%	0%	1%	0%
1992	Critical	-11%	-43%	0%	0%	0%	0%	0%	0%	-1%	-8%	0%	0%
1993	Above Normal	0%	0%	0%	0%	0%	0%	-1%	0%	-5%	0%	0%	0%
1994	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	5%	-	-	0%	0%	0%
1996	Wet	-2%	2%	0%	-100%	0%	0%	-7%	-9%	27%	0%	0%	0%
1997	Wet	-4%	-1%	0%	0%	0%	0%	0%	1%	2%	0%	0%	0%
1998	Wet	25%	1%	0%	2%	0%	0%	5%	-2%	0%	0%	0%	0%
1999	Wet	0%	0%	0%	-30%	0%	0%	-4%	1%	2%	0%	0%	15%
2000	Above Normal	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%	0%
2001	Dry	-7%	-3%	0%	0%	0%	0%	1%	1%	1%	0%	1%	0%
2002	Dry	1%	0%	0%	0%	0%	0%	-1%	-1%	-1%	0%	1%	0%
2003	Above Normal	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Average		-3%	-3%	0%	6%	-1%	3%	2%	0%	0%	0%	3%	-2%
Wet		-6%	0%	0%	19%	0%	-1%	6%	1%	2%	0%	-2%	1%
Above Normal		3%	-1%	0%	2%	2%	0%	1%	1%	-1%	0%	23%	-6%
Below Normal		0%	-3%	-2%	-3%	-3%	0%	1%	-1%	-6%	0%	1%	-8%
Dry		-5%	-2%	0%	0%	0%	14%	-1%	-1%	1%	0%	0%	0%
Critical		-2%	-11%	0%	-1%	-1%	0%	0%	-1%	-1%	-1%	-1%	-1%

















**Percent Difference in Energy generated (GWh) at Thermalito Dam: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	19%
1924	Critical	-2%	0%	-1%	0%	0%	0%	0%	0%	0%	-5%	-2%	0%
1925	Dry	0%	0%	0%	0%	0%	0%	0%	0%	4%	0%	-2%	0%
1926	Dry	1%	1%	0%	0%	0%	-9%	0%	-1%	0%	-3%	3%	7%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1932	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
1933	Critical	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1934	Critical	0%	0%	0%	0%	0%	4%	0%	0%	0%	0%	0%	0%
1935	Below Normal	-11%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%	-2%
1937	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	-4%	0%
1938	Wet	0%	0%	0%	0%	-3%	0%	0%	0%	0%	7%	-1%	15%
1939	Dry	0%	0%	-9%	0%	0%	0%	-2%	0%	0%	0%	-1%	-7%
1940	Above Normal	-23%	0%	-4%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
1943	Wet	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%
1945	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	59%
1946	Below Normal	0%	-26%	0%	0%	9%	-19%	0%	0%	7%	0%	0%	-2%
1947	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	-1%
1948	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1949	Dry	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
1950	Below Normal	-3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
1953	Wet	0%	0%	-5%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1954	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1955	Dry	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-6%
1956	Wet	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1960	Dry	-1%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	1%	0%
1961	Dry	7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1964	Dry	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1966	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	4%	-8%	0%	0%	0%	0%	-1%	0%	0%	0%
1969	Wet	-10%	0%	0%	4%	0%	0%	0%	0%	0%	-1%	-3%	-1%
1970	Wet	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%
1975	Wet	0%	0%	0%	0%	-7%	0%	0%	0%	0%	0%	0%	0%
1976	Critical	2%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%
1977	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1978	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1979	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	79%
1980	Above Normal	44%	0%	0%	-23%	0%	0%	0%	0%	0%	-24%	0%	280%
1981	Dry	0%	0%	-3%	-14%	-29%	0%	0%	0%	0%	0%	0%	-1%
1982	Wet	7%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	-4%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	38%	-11%
1987	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	-3%	0%	0%
1988	Critical	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%
1990	Critical	2%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%
1992	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%
1996	Wet	-3%	-3%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1997	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-7%	3%	0%	0%
1998	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	1%	0%
1999	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-3%
2000	Above Normal	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%
2001	Dry	0%	0%	-3%	0%	0%	0%	0%	0%	0%	3%	0%	0%
2002	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-5%	2%
2003	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Average		0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	5%
Wet		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%
Above Normal		2%	0%	0%	-2%	0%	0%	0%	0%	0%	-2%	0%	23%
Below Normal		-1%	-2%	0%	-1%	1%	-1%	0%	0%	1%	0%	0%	11%
Dry		0%	0%	-1%	-1%	-2%	-1%	0%	0%	0%	0%	0%	0%
Critical		0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	0%	0%

















Percent Difference in Energy Use (GWh) At Pumping Plant at Badger Hill: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-2%	-2%	-1%	-2%	-2%	-2%	-3%	-1%
1925	Dry	-2%	-3%	-2%	0%	0%	-1%	1%	0%	0%	0%	0%	0%
1926	Dry	0%	1%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	-1%
1927	Wet	0%	0%	-2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%
1932	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1933	Critical	1%	0%	0%	0%	0%	-2%	-1%	-2%	-1%	-1%	0%	-2%
1934	Critical	-1%	-2%	0%	-4%	0%	0%	0%	0%	0%	0%	1%	-40%
1935	Below Normal	24%	29%	23%	0%	0%	0%	-1%	0%	-1%	-1%	-1%	0%
1936	Below Normal	-1%	-1%	-1%	0%	2%	0%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	-1%	49%	0%	0%	0%	0%	0%	0%
1938	Wet	0%	0%	0%	-9%	7%	24%	0%	-6%	-5%	-5%	-5%	0%
1939	Dry	0%	0%	0%	0%	-1%	-2%	1%	0%	0%	0%	0%	0%
1940	Above Normal	2%	1%	1%	-16%	-16%	-1%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	-1%	-1%	-2%	-2%	-1%	-1%	-1%
1943	Wet	-2%	-2%	-1%	-1%	-1%	-2%	-1%	-2%	-2%	-2%	-1%	-2%
1944	Dry	-2%	-2%	-2%	-20%	-20%	-11%	0%	-1%	0%	0%	0%	-1%
1945	Below Normal	-1%	0%	0%	0%	0%	-2%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	0%	0%	0%	0%	1%	0%	1%	1%	1%	1%
1947	Dry	1%	0%	0%	1%	0%	0%	0%	1%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-3%	0%	-2%	0%	0%	0%	0%	0%	1%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-6%	-5%	-5%	-6%	-6%
1953	Wet	-7%	-8%	-8%	-6%	-8%	-5%	0%	-2%	-1%	-2%	-1%	-2%
1954	Above Normal	2%	0%	1%	7%	6%	4%	1%	1%	1%	1%	1%	1%
1955	Dry	1%	0%	0%	-3%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	0%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	-21%	4%	4%	5%
1958	Wet	11%	12%	15%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-1%	-3%	-3%	-3%	-3%	-3%	-3%
1960	Dry	-3%	-4%	-3%	0%	0%	2%	0%	0%	0%	0%	0%	0%
1961	Dry	1%	0%	1%	6%	6%	2%	0%	0%	0%	0%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1966	Below Normal	-1%	0%	0%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	0%	-1%	0%	-1%	1%	3%	3%	3%	2%	3%
1969	Wet	-2%	0%	-1%	-12%	34%	0%	0%	0%	0%	0%	0%	0%
1970	Wet	11%	-1%	0%	0%	4%	-1%	0%	0%	0%	0%	0%	0%
1971	Wet	1%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
1972	Below Normal	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-1%	-3%	-4%	-4%	-4%	-4%	-4%
1975	Wet	-4%	-4%	-4%	-2%	-2%	0%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	0%	-1%	-1%	-1%	0%
1977	Critical	0%	-1%	0%	0%	0%	0%	0%	-29%	0%	0%	0%	-17%
1978	Above Normal	-29%	63%	64%	0%	0%	-2%	1%	4%	4%	4%	3%	4%
1979	Below Normal	-5%	-3%	-3%	-19%	-18%	1%	0%	-2%	-2%	-2%	-2%	-2%
1980	Above Normal	-2%	-2%	-2%	-3%	-1%	38%	-8%	-4%	-4%	-4%	-4%	-4%
1981	Dry	-5%	-7%	-6%	-6%	-7%	1%	3%	3%	3%	3%	3%	3%
1982	Wet	3%	3%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-4%	-4%	-4%	-4%	-4%
1988	Critical	-3%	-4%	-4%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	-18%	0%	5%
1993	Above Normal	11%	15%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	Critical	0%	-1%	-1%	0%	-1%	0%	0%	0%	0%	0%	0%	1%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-46%	-43%	-25%	-3%	-3%	-3%	-3%	-3%	-3%
1997	Wet	-3%	-3%	-3%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	-1%	0%	0%	0%	-11%	-11%	-11%	-11%	-11%
1999	Wet	-2%	-10%	-11%	-7%	-6%	-12%	0%	0%	0%	0%	0%	1%
2000	Above Normal	1%	0%	1%	1%	1%	0%	1%	1%	1%	1%	0%	0%
2001	Dry	-2%	0%	0%	-11%	-9%	-4%	1%	1%	0%	1%	0%	1%
2002	Dry	2%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
2003	Above Normal	-1%	-1%	-1%	3%	2%	2%	0%	0%	0%	0%	0%	0%
Average		0%	1%	1%	-2%	-1%	0%	0%	-1%	-1%	-1%	0%	-1%
Wet		0%	-1%	-1%	-3%	-1%	-1%	0%	-1%	-1%	-1%	-1%	-1%
Above Normal		-1%	6%	6%	-1%	-1%	3%	-1%	0%	-2%	0%	0%	1%
Below Normal		1%	2%	1%	-2%	-2%	3%	0%	0%	0%	0%	0%	0%
Dry		-1%	-1%	-1%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	0%	-3%	0%	-2%	0%	-5%







Percent Difference in Energy Use (GWh) At Pumping Plant at Buena Vista: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-1%	-1%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-2%	-1%	-6%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	1%	1%	0%	0%	-1%	-1%	0%	0%	0%	-1%	-1%
1934	Critical	-2%	-3%	-2%	-3%	-1%	0%	0%	0%	0%	0%	8%	0%
1935	Below Normal	-13%	4%	4%	0%	0%	0%	-1%	-1%	-4%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	12%	-2%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-2%	-2%	-2%	0%	0%	-2%	2%	-6%	-6%	-2%	-5%	-1%
1939	Dry	-1%	-1%	-1%	0%	0%	-2%	-9%	2%	23%	0%	-2%	0%
1940	Above Normal	0%	-27%	7%	-18%	-13%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	0%	2%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-13%	-12%	-7%	0%	0%	0%	0%	0%	0%
1945	Below Normal	-1%	-1%	-1%	-1%	0%	-8%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	1%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	2%	-3%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-5%	-4%
1953	Wet	-4%	-4%	4%	0%	0%	-7%	-17%	-2%	-1%	-1%	-1%	-1%
1954	Above Normal	0%	0%	1%	6%	6%	4%	1%	1%	4%	0%	0%	0%
1955	Dry	0%	0%	1%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-14%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-2%	-2%	-2%	-32%	0%	0%	0%
1960	Dry	0%	0%	0%	-1%	-1%	0%	0%	4%	4%	-1%	3%	-2%
1961	Dry	-1%	-1%	-1%	5%	4%	2%	0%	0%	0%	0%	1%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-2%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	-6%	0%	0%	0%	0%	2%	2%	2%	2%	2%
1969	Wet	0%	-1%	-2%	-24%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1970	Wet	-1%	-1%	-1%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-4%	4%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-2%	-1%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-1%	-1%	0%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	13%	0%	2%	0%	-2%	0%
1978	Above Normal	0%	5%	0%	0%	0%	-2%	0%	4%	3%	5%	4%	4%
1979	Below Normal	0%	0%	-3%	-17%	-26%	-3%	13%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-4%	0%	3%	-5%	-4%	-4%	-4%	-4%	-4%
1981	Dry	-4%	-4%	-4%	2%	0%	12%	2%	2%	77%	0%	-3%	1%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-7%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-22%	8%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-3%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-5%	-4%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-3%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1992	Critical	0%	-7%	5%	4%	0%	0%	0%	0%	0%	0%	0%	-1%
1993	Above Normal	0%	-8%	1%	0%	0%	0%	0%	0%	-2%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-50%	-43%	-22%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%
1999	Wet	4%	-6%	2%	0%	0%	-6%	-5%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	1%	0%	1%	1%	0%
2001	Dry	0%	0%	-1%	-8%	-1%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	5%	-3%	6%	3%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	0%	1%	0%	0%	0%
Wet		0%	0%	0%	-3%	-2%	-3%	0%	-1%	-1%	-1%	-1%	0%
Above Normal		0%	-2%	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-1%	0%	0%	-2%	-2%	0%	1%	0%	-3%	0%	0%	0%
Dry		0%	0%	0%	-1%	-1%	0%	-1%	0%	6%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%









Percent Difference in Energy Use (GWh) At Pumping Plant at Chrisman: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-1%	-1%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-3%	-2%	-2%	-2%	-1%	-6%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	1%	1%	0%	0%	-1%	0%	0%	0%	0%	-1%	-1%
1934	Critical	-2%	-3%	-2%	-3%	-1%	0%	0%	0%	0%	0%	12%	0%
1935	Below Normal	-14%	4%	4%	0%	0%	0%	-1%	-1%	-5%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	12%	-2%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-2%	-2%	-2%	0%	0%	-2%	2%	-6%	-6%	-2%	-6%	-1%
1939	Dry	-1%	-1%	-1%	0%	0%	-2%	-10%	2%	28%	0%	-2%	0%
1940	Above Normal	0%	-28%	8%	-18%	-13%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-4%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	0%	2%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-13%	-13%	-7%	0%	0%	0%	0%	0%	0%
1945	Below Normal	-1%	-1%	-1%	-1%	0%	-8%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	3%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-5%	-4%
1953	Wet	-4%	-4%	4%	0%	0%	-7%	-17%	-2%	-1%	-1%	-1%	-1%
1954	Above Normal	0%	0%	1%	6%	6%	4%	1%	1%	4%	-1%	0%	0%
1955	Dry	0%	0%	0%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-14%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-2%	-2%	-2%	-36%	0%	0%	0%
1960	Dry	0%	0%	0%	-2%	-1%	0%	0%	5%	-1%	3%	-2%	-2%
1961	Dry	-1%	-2%	-1%	5%	4%	2%	0%	0%	0%	1%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-2%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	-6%	0%	0%	0%	2%	1%	2%	2%	2%	2%
1969	Wet	-1%	-1%	-2%	-24%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1970	Wet	-1%	-1%	-1%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-4%	5%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-2%	-1%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	13%	0%	2%	0%	-2%	0%
1978	Above Normal	0%	8%	0%	0%	0%	-3%	0%	3%	3%	5%	4%	3%
1979	Below Normal	0%	0%	-3%	-16%	-27%	-3%	13%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-4%	0%	3%	-5%	-4%	-4%	-4%	-4%	-4%
1981	Dry	-4%	-4%	-4%	2%	0%	13%	2%	2%	107%	0%	-4%	1%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-7%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-23%	8%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-3%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-5%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-3%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1992	Critical	1%	-7%	5%	4%	0%	0%	0%	0%	0%	0%	0%	-1%
1993	Above Normal	-1%	-10%	1%	0%	0%	0%	0%	0%	-2%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-50%	-43%	-22%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%
1999	Wet	5%	-6%	2%	0%	0%	-6%	-5%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	1%	1%	0%
2001	Dry	0%	0%	-1%	-8%	-2%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	5%	-3%	6%	3%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	0%	1%	0%	0%	0%
Wet		0%	0%	0%	-3%	-2%	-3%	0%	-1%	-1%	0%	-1%	0%
Above Normal		0%	-2%	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-1%	0%	0%	-2%	-2%	0%	1%	0%	-3%	0%	0%	0%
Dry		0%	0%	0%	-1%	-1%	0%	-1%	0%	8%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	1%	0%

















**Percent Difference in Energy Use (GWh) At Pumping Plant at Edmonston: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-1%	-1%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-3%	-2%	-2%	-2%	-1%	-6%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	1%	1%	0%	0%	-1%	-1%	0%	0%	0%	-1%	-1%
1934	Critical	-2%	-3%	-2%	-3%	-1%	0%	0%	0%	0%	0%	12%	0%
1935	Below Normal	-14%	4%	4%	0%	0%	0%	-1%	-1%	-5%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	12%	-2%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-2%	-2%	-2%	0%	0%	-2%	2%	-6%	-6%	-2%	-6%	-1%
1939	Dry	-1%	-1%	-1%	0%	0%	-2%	-10%	2%	28%	0%	-2%	0%
1940	Above Normal	0%	-28%	8%	-18%	-13%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-4%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	0%	2%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-13%	-13%	-7%	0%	0%	0%	0%	0%	0%
1945	Below Normal	-1%	-1%	-1%	-1%	0%	-8%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	3%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-5%	-4%
1953	Wet	-4%	-4%	4%	0%	0%	-7%	-17%	-2%	-1%	-1%	-1%	-1%
1954	Above Normal	0%	0%	1%	6%	6%	4%	1%	1%	4%	-1%	0%	0%
1955	Dry	0%	0%	0%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-14%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-2%	-2%	-2%	-36%	0%	0%	0%
1960	Dry	0%	0%	0%	-2%	-1%	0%	0%	5%	-1%	3%	-2%	-2%
1961	Dry	-2%	-2%	-1%	5%	4%	2%	0%	0%	0%	1%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-2%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	-6%	0%	0%	0%	2%	1%	2%	2%	2%	2%
1969	Wet	-1%	-1%	-2%	-24%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1970	Wet	-1%	-1%	-1%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-4%	5%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-2%	-1%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	13%	0%	2%	0%	-2%	0%
1978	Above Normal	0%	8%	0%	0%	0%	-3%	0%	3%	5%	4%	3%	3%
1979	Below Normal	0%	0%	-3%	-16%	-27%	-3%	13%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-4%	0%	3%	-5%	-4%	-4%	-4%	-4%	-4%
1981	Dry	-4%	-4%	-4%	2%	0%	13%	2%	2%	107%	0%	-4%	1%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-7%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-23%	8%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-3%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-5%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-3%	1%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%	0%
1992	Critical	1%	-7%	5%	4%	0%	0%	0%	0%	0%	0%	0%	-1%
1993	Above Normal	-1%	-10%	1%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-50%	-43%	-22%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%
1999	Wet	5%	-6%	2%	0%	0%	-6%	-5%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	0%	1%	1%	1%	0%
2001	Dry	0%	0%	-1%	-8%	-2%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	5%	-3%	6%	3%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	0%	1%	0%	0%	0%
Wet		0%	0%	0%	-3%	-2%	-3%	0%	-1%	-1%	0%	-1%	0%
Above Normal		0%	-2%	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-1%	0%	0%	-2%	-2%	0%	1%	0%	-3%	0%	0%	0%
Dry		0%	0%	0%	-1%	-1%	0%	-1%	0%	8%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	1%	0%







Percent Difference in Energy Use (GWh) At Pumping Plant at Las Perillas: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	0%	0%	0%	0%	-3%	-3%	-2%	-2%	-3%
1925	Dry	0%	0%	0%	0%	-11%	0%	0%	0%	0%	0%	0%	1%
1926	Dry	2%	3%	0%	0%	0%	0%	0%	-1%	0%	-1%	-1%	0%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1929	Critical	0%	0%	0%	-2%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	3%	0%	0%	0%	0%	0%
1932	Dry	0%	0%	0%	0%	0%	0%	2%	1%	0%	1%	1%	0%
1933	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	-1%	-1%	-1%	-2%
1934	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	-39%
1935	Below Normal	22%	26%	25%	0%	0%	0%	-2%	0%	-1%	-1%	0%	-1%
1936	Below Normal	-2%	-3%	0%	0%	6%	0%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	-2%	49%	0%	0%	0%	0%	0%	0%
1938	Wet	0%	0%	0%	-9%	8%	24%	0%	-6%	-5%	-5%	-5%	0%
1939	Dry	-1%	0%	0%	0%	-1%	-2%	2%	0%	0%	0%	0%	0%
1940	Above Normal	2%	3%	0%	-17%	-17%	0%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	-1%	-2%	-2%	-2%	-1%	-1%
1943	Wet	-2%	-3%	-3%	0%	-2%	-2%	-1%	-2%	-2%	-1%	-2%	-1%
1944	Dry	-1%	-2%	0%	-20%	-20%	-13%	0%	-1%	-1%	0%	0%	-2%
1945	Below Normal	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%
1946	Below Normal	0%	0%	0%	0%	0%	0%	2%	1%	1%	0%	0%	1%
1947	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1948	Below Normal	0%	0%	0%	-3%	-3%	0%	0%	0%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-5%	0%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-6%	-6%	-6%	-6%	-6%
1953	Wet	-7%	-11%	-8%	0%	-8%	-3%	0%	-1%	-1%	-2%	-1%	-1%
1954	Above Normal	0%	0%	3%	7%	8%	5%	0%	1%	1%	1%	1%	1%
1955	Dry	2%	3%	0%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%
1956	Wet	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	-21%	4%	4%	6%
1958	Wet	11%	15%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	-1%	-2%	-2%	-3%	-3%	-2%	-3%	-2%
1960	Dry	-2%	-3%	-4%	0%	0%	6%	0%	0%	0%	-1%	0%	0%
1961	Dry	0%	0%	0%	8%	7%	0%	0%	0%	0%	1%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1966	Below Normal	0%	0%	0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-1%	0%	0%
1968	Below Normal	0%	0%	0%	-1%	0%	-2%	0%	3%	3%	2%	2%	4%
1969	Wet	-2%	-3%	0%	-13%	32%	0%	0%	0%	0%	0%	-1%	0%
1970	Wet	10%	0%	0%	0%	3%	-2%	0%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	-1%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	0%	-3%	-3%	-4%	-4%	-3%	-3%
1975	Wet	-3%	-5%	-5%	-2%	-3%	-2%	0%	1%	2%	1%	1%	0%
1976	Critical	0%	3%	0%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%
1977	Critical	0%	0%	0%	0%	0%	0%	0%	-30%	0%	0%	0%	-16%
1978	Above Normal	-29%	65%	59%	0%	0%	-3%	2%	3%	4%	4%	2%	4%
1979	Below Normal	-4%	-3%	-3%	-20%	-18%	0%	0%	-2%	-2%	-2%	-2%	-2%
1980	Above Normal	-2%	-2%	-3%	-3%	0%	36%	0%	-4%	-4%	-4%	-4%	-3%
1981	Dry	-4%	-6%	-7%	-7%	-6%	0%	3%	3%	2%	3%	3%	3%
1982	Wet	3%	3%	4%	0%	0%	-2%	0%	0%	0%	0%	0%	0%
1983	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-5%	-4%	-4%	-4%	-5%
1988	Critical	0%	-5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	Critical	-6%	0%	0%	0%	0%	0%	0%	0%	0%	-18%	0%	6%
1993	Above Normal	8%	11%	11%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	Critical	0%	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-47%	-42%	-25%	-3%	-3%	-3%	-3%	-3%	-4%
1997	Wet	-3%	-3%	-3%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	0%	0%	0%	0%	-12%	-11%	-11%	-11%	-11%
1999	Wet	-1%	-10%	-11%	-7%	-5%	-12%	0%	0%	1%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%	0%
2001	Dry	0%	-3%	0%	-11%	-12%	0%	0%	0%	0%	1%	1%	0%
2002	Dry	0%	0%	0%	0%	-5%	0%	0%	0%	-1%	0%	0%	-1%
2003	Above Normal	0%	0%	0%	4%	0%	4%	0%	0%	0%	0%	0%	0%
Average		0%	1%	1%	-2%	-1%	1%	0%	-1%	-1%	-1%	0%	-1%
Wet		0%	-1%	-1%	-3%	-1%	-1%	0%	-1%	-1%	-1%	-1%	-1%
Above Normal		-2%	6%	6%	-1%	-1%	4%	-1%	0%	-2%	0%	0%	1%
Below Normal		1%	1%	2%	-2%	-1%	3%	0%	0%	0%	0%	0%	0%
Dry		0%	0%	-1%	-2%	-3%	0%	0%	0%	0%	0%	0%	0%
Critical		-1%	0%	0%	0%	0%	0%	0%	-3%	0%	-2%	0%	-5%

















**Percent Difference in Energy Use (GWh) At Pumping Plant at Pearblossom: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	14%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-1%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	-1%	-1%
1934	Critical	-1%	-2%	-2%	-1%	-1%	0%	0%	0%	1%	0%	8%	0%
1935	Below Normal	-28%	4%	4%	0%	0%	0%	-1%	-1%	-21%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-2%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	16%	-1%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-1%	-1%	-2%	-15%	-14%	-9%	-1%	-9%	-9%	-2%	-8%	-1%
1939	Dry	-1%	-1%	-1%	0%	2%	-4%	-11%	2%	22%	0%	-6%	-1%
1940	Above Normal	0%	-76%	4%	-26%	-15%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-7%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	2%	2%	3%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-13%	-12%	-7%	0%	0%	0%	0%	0%	0%
1945	Below Normal	0%	-1%	-1%	0%	0%	-13%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	6%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-4%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	19%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	-1%	0%	0%	0%	-5%	-5%	-5%	-6%	-5%
1953	Wet	-5%	-5%	9%	9%	-8%	-12%	-18%	-2%	-1%	-1%	-1%	-2%
1954	Above Normal	0%	0%	0%	6%	5%	4%	1%	1%	7%	-1%	0%	0%
1955	Dry	0%	1%	1%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-23%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	-3%	0%	0%	0%	1%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-1%	-3%	-3%	4%	0%	0%	0%
1960	Dry	0%	0%	0%	-2%	-2%	1%	0%	-2%	16%	-2%	9%	-3%
1961	Dry	-2%	-2%	-2%	5%	4%	2%	0%	0%	0%	0%	3%	0%
1962	Below Normal	317%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	0%	0%	0%	-4%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	0%	-6%	0%	1%	0%	2%	2%	2%	2%	3%
1969	Wet	0%	1%	0%	-11%	0%	0%	-1%	-1%	-1%	-1%	0%	0%
1970	Wet	-1%	-1%	-1%	-21%	0%	0%	0%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	-19%	0%	0%	0%	-3%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	14%	9%	-8%	4%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-3%	-3%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	1%	-1%	-1%	-6%	-1%	3%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	63%	0%	6%	0%	-4%	0%
1978	Above Normal	0%	71%	0%	0%	0%	-2%	-1%	5%	4%	4%	5%	6%
1979	Below Normal	1%	2%	0%	-17%	-16%	11%	4%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-2%	5%	0%	-6%	-4%	-4%	-5%	-5%	-5%
1981	Dry	-5%	-5%	-4%	1%	0%	16%	2%	3%	2%	-1%	-7%	1%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-34%	3%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-4%	-4%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-2%	0%	-6%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-4%	-1%	1%	0%	0%
1992	Critical	0%	-8%	6%	0%	0%	0%	0%	0%	0%	0%	0%	-2%
1993	Above Normal	-1%	-41%	2%	0%	0%	0%	0%	0%	-6%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	589%	-31%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-52%	-46%	-25%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	-6%	19%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	10%	-5%	0%	-4%	-4%	-5%	-5%	-5%
1999	Wet	6%	-5%	6%	9%	19%	-10%	0%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	1%	0%	1%	1%	1%
2001	Dry	0%	0%	0%	-8%	-7%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	17%	-6%	5%	3%	1%	0%	0%	0%	0%	0%	0%
Average		11%	-1%	0%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%
Wet		22%	-2%	0%	-4%	-1%	-4%	0%	-1%	-1%	-1%	-1%	-1%
Above Normal		0%	-2%	0%	-2%	1%	0%	-1%	0%	0%	0%	0%	0%
Below Normal		21%	0%	0%	-1%	-1%	1%	0%	0%	-1%	0%	0%	0%
Dry		0%	-1%	0%	-1%	-1%	0%	-1%	0%	2%	0%	-1%	0%
Critical		0%	-1%	0%	0%	0%	0%	5%	0%	0%	0%	0%	0%







**Difference in Energy Use (GWh) At Pumping Plant at South Bay: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Average
1922	Above Normal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1923	Below Normal	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
1924	Critical	0.00	0.02	0.00	(0.08)	(0.08)	(0.06)	(0.06)	(0.09)	(0.11)	(0.12)	(0.12)	(0.11)	(0.07)
1925	Dry	(0.02)	(0.02)	(0.01)	(0.02)	(0.02)	0.00	0.02	0.03	0.04	0.04	0.04	0.03	0.01
1926	Dry	0.03	0.02	0.01	0.02	0.02	0.01	(0.02)	(0.02)	(0.03)	(0.04)	(0.03)	(0.03)	0.00
1927	Wet	0.00	(0.04)	(0.01)	(0.02)	(0.02)	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00
1928	Above Normal	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.01	0.01
1929	Critical	0.00	0.00	0.02	0.00	0.00	0.00	0.00	(0.13)	(0.01)	0.00	(0.01)	0.00	(0.01)
1930	Dry	0.00	0.00	0.00	0.00	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1931	Critical	0.00	0.01	(0.01)	(0.01)	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
1932	Dry	0.01	0.00	0.00	0.00	0.02	0.00	0.01	0.01	0.02	0.02	0.01	0.01	0.01
1933	Critical	0.00	0.00	0.03	0.02	0.02	(0.02)	(0.03)	(0.04)	(0.05)	(0.06)	(0.06)	(0.05)	(0.02)
1934	Critical	0.00	0.00	0.00	(0.19)	(0.07)	(0.01)	0.02	0.03	0.03	0.04	0.41	0.25	0.04
1935	Below Normal	(0.27)	(0.17)	(0.09)	0.02	0.01	0.01	(0.04)	(0.05)	(0.06)	(0.07)	(0.07)	(0.06)	(0.07)
1936	Below Normal	(0.05)	(0.03)	(0.03)	(0.03)	(0.02)	0.00	(0.01)	(0.01)	0.00	0.00	(0.01)	0.00	(0.02)
1937	Below Normal	0.00	0.00	0.00	0.00	0.00	0.00	3.17	0.01	0.00	0.00	0.00	0.01	0.27
1938	Wet	0.00	0.02	0.01	0.00	0.00	0.00	(3.92)	(2.36)	0.00	0.00	0.00	0.00	(0.52)
1939	Dry	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1940	Above Normal	(0.72)	(0.65)	0.86	(0.37)	(0.31)	(0.10)	0.00	(0.01)	(0.01)	0.00	(0.01)	(0.01)	(0.11)
1941	Wet	0.00	0.00	0.00	(0.01)	(0.01)	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00
1942	Wet	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1943	Wet	0.10	(1.16)	(0.09)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.10)
1944	Dry	2.00	(0.34)	(0.33)	(4.49)	(4.04)	(1.49)	(0.02)	(0.02)	(0.03)	(0.04)	(0.04)	(0.03)	(0.74)
1945	Below Normal	0.00	0.01	(0.07)	(0.05)	(0.05)	0.00	(0.06)	0.01	0.01	0.01	0.01	0.01	(0.01)
1946	Below Normal	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.05	0.06	0.05	0.02
1947	Dry	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01
1948	Below Normal	0.01	0.06	0.00	(0.26)	(0.24)	(0.09)	0.00	0.02	0.03	0.04	0.03	0.03	(0.03)
1949	Dry	0.00	0.04	0.02	0.02	0.02	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01
1950	Below Normal	0.00	0.02	0.00	(0.10)	(0.08)	(0.03)	0.00	0.00	0.00	0.00	(0.01)	0.00	(0.02)
1951	Above Normal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1952	Wet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1953	Wet	(4.59)	(2.68)	0.00	(2.11)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(1.92)	(0.94)
1954	Above Normal	(5.17)	(0.93)	(0.08)	0.00	0.00	0.00	0.00	1.81	1.11	1.12	1.13	1.11	(0.33)
1955	Dry	0.09	0.07	0.06	0.06	0.06	0.06	0.01	(0.04)	(0.06)	(0.07)	(0.09)	(0.08)	(0.01)
1956	Wet	(0.01)	(0.01)	(0.13)	0.00	(0.07)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.02)
1957	Above Normal	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.12)	(0.01)
1958	Wet	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1959	Below Normal	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1960	Dry	(0.06)	(2.10)	(0.15)	(0.18)	(0.17)	(0.03)	(0.03)	(0.02)	0.00	(0.03)	(0.03)	(0.03)	(0.24)
1961	Dry	(0.04)	(0.03)	0.00	0.28	0.24	0.12	0.01	0.02	0.01	0.03	0.04	0.05	0.06
1962	Below Normal	0.00	0.01	(0.05)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1963	Wet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1964	Dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1965	Wet	0.00	(0.01)	0.00	0.05	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01
1966	Below Normal	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	(0.19)	(0.07)	0.01	0.00	(0.02)
1967	Wet	0.00	0.00	0.00	(0.02)	(0.01)	(0.01)	0.00	(0.05)	(0.05)	0.00	(0.09)	(0.08)	(0.03)
1968	Below Normal	(0.06)	(0.04)	(0.04)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.01)
1969	Wet	1.06	0.21	0.04	(2.61)	0.01	10.54	0.00	0.00	0.00	0.00	0.00	0.00	0.77
1970	Wet	0.34	0.03	(0.36)	0.00	0.00	0.00	(0.34)	0.02	0.02	0.02	0.02	0.01	(0.02)
1971	Wet	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.17)	(0.01)
1972	Below Normal	(0.03)	(0.02)	(0.02)	(0.01)	(0.01)	(0.01)	0.00	0.00	0.00	0.00	0.00	(0.01)	(0.01)
1973	Above Normal	(0.01)	(0.01)	0.00	0.02	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1974	Wet	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1975	Wet	(2.58)	(0.27)	(0.28)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.26)
1976	Critical	(1.58)	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.08)	(0.07)	(0.13)
1977	Critical	(0.01)	(0.09)	(0.03)	(0.05)	(0.04)	(0.01)	0.00	0.00	0.00	0.00	0.10	0.05	(0.01)
1978	Above Normal	0.00	(0.05)	(0.10)	0.00	0.00	0.03	0.26	0.13	(0.03)	0.23	0.23	0.19	0.07
1979	Below Normal	0.07	0.05	0.53	0.00	0.00	0.00	7.43	1.70	(0.22)	(0.23)	(0.23)	(0.21)	0.74
1980	Above Normal	(0.02)	(0.24)	(0.11)	0.00	0.00	0.00	1.64	(1.10)	0.00	0.00	0.00	0.00	0.01
1981	Dry	(3.72)	(2.16)	(2.47)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.70)
1982	Wet	5.32	0.44	0.14	0.19	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
1983	Wet	(7.15)	4.14	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1984	Wet	0.00	0.00	(0.25)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.02)
1985	Dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1986	Wet	0.00	0.00	0.00	0.00	0.00	0.00	3.36	2.88	0.00	0.00	0.00	0.00	0.52
1987	Dry	4.94	4.38	(0.19)	0.00	0.00	0.00	0.00	0.00	0.00	(0.84)	(0.26)	(0.25)	0.65
1988	Critical	(0.05)	(0.03)	(0.01)	(0.21)	(0.33)	(0.03)	0.00	0.00	0.00	0.00	0.00	0.00	(0.06)
1989	Dry	0.00	0.00	0.00	0.00	0.00	(0.01)	(0.01)	(0.01)	(0.01)	(0.02)	(0.02)	(0.01)	(0.01)
1990	Critical	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	Critical	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	Critical	0.00	0.00	0.00	0.00	0.00	(0.01)	0.00	0.00	0.00	0.00	1.19	(0.40)	0.07
1993	Above Normal	(0.18)	(0.14)	(0.07)	(0.19)	(0.23)	0.01	0.01	0.00	0.00	0.01	0.01	0.01	(0.06)
1994	Critical	0.01	0.02	0.00	0.00	0.00	0.00	(0.15)	0.00	0.00	0.00	0.00	0.00	(0.01)
1995	Wet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	Wet	0.00	0.00	0.00	(9.93)	(8.91)	(2.31)	(4.72)	(5.28)	(1.68)	(0.35)	(0.34)	(0.32)	(2.82)
1997	Wet	(0.04)	(0.37)	(0.16)	0.00	0.00	0.00	0.00	(0.01)	0.00	0.00	(0.01)	(0.01)	(0.05)
1998	Wet	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	Wet	0.00	0.00	(3.08)	(3.66)	0.00	0.00	(0.01)	0.04	0.05	0.06	0.05	0.05	(0.54)
2000	Above Normal	0.01	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.04
2001	Dry	0.07	0.05	0.01	(0.55)	(0.48)	(0.20)	0.03	0.05	0.06	0.07	0.06	0.06	(0.06)
2002	Dry	0.01	0.00	0.00	0.10	0.02	0.00	(0.01)	(0.02)	(0.04)	(0.04)	(0.03)	(0.03)	0.00
2003	Above Normal	(0.01)	0.00	(0.06)	0.12	0.10	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Average		(0.15)	(0.02)	(0.04)	(0.30)	(0.18)	0.08	0.08	(0.03)	(0.03)	(0.01)	0.01	(0.03)	(0.05)
Wet		(0.29)	0.01	(0.04)	(0.70)	(0.34)	0.32	(0.22)	(0.18)	(0.06)	(0.01)	(0.01)	(0.09)	(0.14)
Above Normal		(0.51)	(0.16)	0.04	(0.04)	(0.04)	(0.00)	0.16	0.07	0.01	0.04	0.03	0.05	(0.03)
Below Normal		(0.02)	(0.01)	0.02	(0.03)	(0.03)	(0.01)	0.75	0.12	(0.03)	(0.02)	(0.02)	(0.01)	0.06
Dry		0.19	(0.00)	(0.16)	(0.26)	(0.24)	(0.09)	(0.00)	(0.00)	(0.00)	(0.05)	(0.02)	(0.01)	(0.06)
Critical		(0.14)	(0.00)	0.00	(0.04)	(0.04)	(0.01)	(0.02)	(0.02)	(0.01)	(0.01)	0.12	(0.03)	(0.02)

Percent Difference in Energy Use (GWh) At Pumping Plant at South Bay: Alternative5\_2005 minus Existing\_2005

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	1%	0%	-1%	-1%	0%	-1%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-2%	-3%	-3%	-2%	-4%	0%	0%	0%	0%	0%	0%	0%
1926	Dry	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	-5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	2%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1932	Dry	1%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	1%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%
1934	Critical	0%	0%	0%	-6%	-2%	0%	0%	0%	0%	1%	49%	7%
1935	Below Normal	-16%	-4%	-2%	1%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%
1936	Below Normal	-3%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	0%	44%	0%	0%	0%	0%	0%
1938	Wet	0%	1%	0%	0%	0%	0%	-46%	-16%	0%	0%	0%	0%
1939	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1940	Above Normal	-7%	-12%	9%	-36%	-21%	-1%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	1%	-12%	-2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1944	Dry	26%	-9%	-4%	-32%	-32%	-10%	0%	0%	0%	0%	0%	0%
1945	Below Normal	0%	1%	-3%	-1%	-1%	0%	-1%	0%	0%	0%	0%	0%
1946	Below Normal	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	1%	3%	0%	-2%	0%	-1%	0%	0%	0%	0%	0%	0%
1949	Dry	0%	4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	1%	0%	-5%	-3%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1953	Wet	-66%	-48%	0%	-14%	0%	0%	0%	0%	0%	0%	0%	-13%
1954	Above Normal	-78%	-49%	-2%	0%	0%	0%	0%	19%	1%	1%	1%	1%
1955	Dry	5%	2%	1%	1%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-3%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1958	Wet	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1960	Dry	-1%	-32%	-3%	-3%	-3%	0%	0%	0%	0%	0%	0%	0%
1961	Dry	-2%	-1%	0%	3%	3%	1%	0%	0%	0%	0%	0%	0%
1962	Below Normal	2%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1966	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	-1%
1968	Below Normal	-3%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1969	Wet	36%	9%	1%	-18%	0%	256%	0%	0%	0%	0%	0%	0%
1970	Wet	5%	0%	-4%	0%	0%	0%	-4%	0%	0%	0%	0%	0%
1971	Wet	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%
1972	Below Normal	-2%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1975	Wet	-29%	-10%	-4%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1976	Critical	-35%	3%	1%	0%	0%	0%	0%	0%	0%	0%	-1%	-1%
1977	Critical	-1%	-5%	-1%	-1%	-1%	0%	0%	0%	0%	0%	6%	1%
1978	Above Normal	0%	-1%	-2%	0%	0%	0%	3%	1%	0%	2%	2%	2%
1979	Below Normal	5%	5%	11%	0%	0%	0%	109%	17%	-2%	-2%	-2%	-2%
1980	Above Normal	-1%	-13%	-2%	0%	0%	0%	19%	-9%	0%	0%	0%	0%
1981	Dry	-51%	-37%	-25%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	Wet	335%	21%	3%	3%	2%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-49%	41%	31%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	-2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	0%	31%	24%	0%	0%	0%	0%
1987	Dry	93%	95%	-2%	0%	0%	0%	0%	0%	-6%	-3%	-3%	-3%
1988	Critical	-4%	-3%	-2%	-16%	-12%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	137%	-5%
1993	Above Normal	-18%	-18%	-18%	-19%	-9%	0%	0%	0%	0%	0%	0%	0%
1994	Critical	1%	1%	0%	0%	0%	0%	-2%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-68%	-65%	-16%	-33%	-36%	-12%	-3%	-3%	-3%
1997	Wet	-3%	-23%	-3%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	Wet	0%	0%	-21%	-29%	0%	0%	0%	0%	0%	0%	0%	0%
2000	Above Normal	1%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%
2001	Dry	4%	2%	0%	-6%	-5%	-2%	0%	1%	1%	1%	1%	1%
2002	Dry	1%	0%	0%	5%	1%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	-1%	0%	-1%	8%	5%	0%	0%	0%	0%	0%	0%	0%
Average		2%	-1%	-1%	-3%	-2%	3%	1%	0%	0%	0%	2%	0%
Wet		9%	-1%	0%	-5%	-2%	9%	-2%	-1%	0%	0%	0%	-1%
Above Normal		-9%	-7%	-1%	-4%	-2%	0%	2%	1%	0%	0%	0%	0%
Below Normal		-1%	0%	0%	-1%	0%	0%	11%	1%	0%	0%	0%	0%
Dry		4%	1%	-2%	-2%	-2%	-1%	0%	0%	0%	0%	0%	0%
Critical		-3%	0%	0%	-2%	-1%	0%	0%	0%	0%	0%	16%	0%

**Energy Use (GWh) At Pumping Plant at SWP Banks: Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Total
1922	Above Normal	90.57	60.97	131.24	65.00	53.04	82.37	18.03	17.24	109.40	121.99	121.99	118.05	989.89
1923	Below Normal	67.79	42.23	77.98	65.23	67.96	51.10	17.96	12.78	46.44	121.99	121.99	118.05	811.50
1924	Critical	63.18	55.29	51.48	55.50	37.15	5.48	5.30	11.98	5.30	108.32	5.48	10.15	414.61
1925	Dry	41.41	51.04	72.97	58.37	39.28	78.33	19.09	17.51	35.44	121.99	63.19	118.05	716.67
1926	Dry	54.72	47.93	50.32	58.68	29.28	5.48	20.05	15.81	42.24	121.99	61.50	62.26	570.26
1927	Wet	27.25	118.05	67.89	42.81	65.34	67.69	14.27	12.78	50.72	121.99	121.99	118.05	828.83
1928	Above Normal	59.07	38.49	129.71	62.82	37.28	78.31	15.25	12.78	45.21	111.99	121.99	118.05	830.95
1929	Critical	65.48	24.98	85.50	60.23	54.71	49.90	28.37	20.75	5.30	5.48	5.48	11.95	418.13
1930	Dry	20.61	16.97	60.61	43.46	41.21	46.14	24.64	22.21	28.52	121.99	49.78	118.05	594.19
1931	Critical	34.94	28.67	24.65	58.15	33.49	15.68	5.30	5.48	5.30	66.54	5.48	7.95	291.63
1932	Dry	18.13	26.96	131.02	62.50	69.87	74.11	5.30	12.78	5.30	121.99	78.02	42.13	648.11
1933	Critical	39.75	33.69	39.70	48.79	80.20	29.84	13.30	12.78	5.30	28.48	5.48	11.17	348.48
1934	Critical	19.08	20.63	73.80	109.04	69.89	25.44	5.30	14.12	5.30	5.48	5.48	9.08	362.64
1935	Below Normal	26.48	56.99	68.95	64.12	46.82	45.65	15.01	12.78	40.84	121.99	121.99	118.05	739.67
1936	Below Normal	57.68	49.54	56.06	40.46	144.14	131.51	18.13	12.78	48.80	121.99	121.99	95.97	899.05
1937	Below Normal	84.01	48.46	118.48	91.46	140.20	114.03	19.95	22.24	77.16	121.99	86.14	55.35	979.47
1938	Wet	90.73	118.05	111.21	139.11	113.11	120.18	42.07	112.80	118.05	117.76	118.74	81.63	1,283.44
1939	Dry	58.61	5.30	108.67	62.05	45.06	32.39	9.04	16.83	5.30	121.99	84.58	118.05	667.87
1940	Above Normal	36.85	18.36	61.90	47.29	56.83	103.88	20.21	12.78	48.47	115.60	121.99	118.05	762.21
1941	Wet	56.68	24.14	77.58	72.93	140.20	138.07	24.83	25.74	69.81	121.99	121.99	109.59	983.55
1942	Wet	42.43	5.30	76.87	90.91	85.25	90.18	21.00	21.13	68.30	121.99	121.99	100.95	846.30
1943	Wet	53.03	5.30	71.96	107.65	99.71	138.07	22.05	14.83	48.67	121.99	121.99	113.96	918.92
1944	Dry	49.89	5.30	129.82	62.08	63.07	45.04	15.43	12.78	33.01	121.99	82.56	46.04	667.01
1945	Below Normal	37.68	118.05	72.40	62.25	67.77	120.22	15.38	12.78	34.84	121.99	121.99	98.62	883.97
1946	Below Normal	98.41	115.64	103.02	75.52	48.88	62.01	13.46	12.78	34.88	121.99	121.99	101.40	909.98
1947	Dry	88.22	86.20	78.99	51.84	58.29	24.49	17.81	12.78	30.25	121.99	76.13	118.05	765.04
1948	Below Normal	77.32	62.33	41.44	36.92	5.13	46.20	12.37	12.78	47.38	121.99	121.99	118.05	703.90
1949	Dry	55.97	47.40	78.03	58.70	54.82	35.44	12.37	12.78	30.64	121.99	64.30	118.05	690.49
1950	Below Normal	30.17	33.82	40.14	40.76	42.71	62.92	12.37	12.78	37.12	121.80	121.99	118.05	674.63
1951	Above Normal	89.21	118.05	140.22	114.64	104.13	116.90	14.09	12.78	47.63	107.63	121.99	105.58	1,092.85
1952	Wet	56.21	68.28	71.83	83.97	67.50	138.07	27.85	41.83	102.10	121.99	121.99	102.37	1,003.99
1953	Wet	52.16	5.30	129.74	57.86	64.06	67.72	14.97	13.29	34.24	121.99	121.99	118.05	801.37
1954	Above Normal	39.96	5.30	128.12	37.58	41.46	63.11	12.59	12.78	46.31	106.23	121.99	118.05	733.48
1955	Dry	55.69	53.27	128.33	65.11	49.77	43.86	15.05	12.78	5.30	121.99	42.29	87.72	681.16
1956	Wet	35.55	68.57	109.49	155.23	109.94	118.40	15.06	16.98	75.00	121.99	121.99	100.26	1,048.46
1957	Above Normal	54.24	5.30	128.53	60.18	31.46	23.92	14.91	12.78	30.63	121.75	121.99	118.05	723.74
1958	Wet	121.99	46.38	67.70	46.22	67.57	138.07	42.33	36.32	93.26	121.99	121.99	118.05	1,021.87
1959	Below Normal	68.81	5.30	129.25	39.60	50.64	70.19	19.05	15.65	29.41	121.99	121.99	118.05	789.93
1960	Dry	58.77	48.77	42.88	58.16	38.27	44.41	5.30	22.32	26.90	121.99	91.01	118.05	676.83
1961	Dry	26.23	73.59	127.64	60.11	33.80	60.30	13.40	14.64	1.51	121.99	37.97	43.94	615.12
1962	Below Normal	15.57	47.35	53.46	45.35	51.70	70.00	16.57	12.78	30.25	118.28	121.99	118.05	701.35
1963	Wet	121.99	118.05	64.59	43.91	47.88	65.05	13.37	12.78	40.22	121.99	121.99	118.05	889.87
1964	Dry	72.67	118.05	91.21	62.09	46.76	39.76	12.37	12.78	5.30	121.99	55.34	118.05	756.37
1965	Wet	53.44	53.21	71.32	100.67	72.02	77.08	18.80	12.78	50.05	121.66	121.99	115.96	868.98
1966	Below Normal	35.39	66.46	137.04	71.27	65.83	55.00	12.37	12.78	29.58	119.51	121.99	118.05	845.27
1967	Wet	45.87	66.87	69.51	68.02	59.74	81.86	35.34	35.25	118.05	121.99	121.99	118.05	942.54
1968	Below Normal	74.69	5.30	126.38	61.79	38.98	64.43	17.11	15.85	29.35	121.69	121.99	118.05	795.61
1969	Wet	74.05	70.97	128.68	80.99	62.20	70.34	47.92	79.37	95.08	97.14	111.87	78.96	997.57
1970	Wet	62.85	5.30	75.09	138.07	110.11	121.44	12.37	12.78	32.60	121.99	121.99	64.15	878.74
1971	Wet	48.53	93.73	72.11	60.36	55.28	73.80	15.52	12.78	46.78	121.99	121.99	118.05	840.92
1972	Below Normal	52.46	5.30	128.55	58.73	30.92	42.62	21.00	13.00	29.05	121.99	121.99	118.05	743.66
1973	Above Normal	66.70	118.05	67.22	52.83	72.16	75.08	14.71	12.78	50.27	121.67	121.99	88.76	862.22
1974	Wet	98.82	118.05	80.60	80.82	64.82	109.87	17.00	12.78	60.65	121.99	121.99	108.42	995.81
1975	Wet	79.87	5.30	130.26	61.86	53.26	102.72	15.65	12.78	66.37	121.99	121.99	118.05	890.10
1976	Critical	110.14	5.30	128.74	52.67	34.07	51.90	22.86	20.21	5.30	115.53	75.63	118.05	740.40
1977	Critical	58.91	25.80	21.44	32.37	11.50	5.48	5.30	10.18	4.62	5.48	5.48	24.23	210.79
1978	Above Normal	5.48	29.86	53.35	52.59	77.62	90.47	29.84	26.59	94.48	121.99	121.99	118.05	822.31
1979	Below Normal	57.89	27.87	129.85	71.62	88.12	88.66	15.27	20.39	34.56	121.99	121.99	68.26	846.47
1980	Above Normal	84.23	53.21	129.13	111.30	82.22	78.00	15.54	16.53	78.64	121.99	91.94	6.01	868.74
1981	Dry	68.65	6.62	128.82	61.92	55.99	53.38	20.04	16.41	29.13	121.99	86.22	118.05	767.22
1982	Wet	57.73	118.05	66.88	70.27	131.21	132.07	108.25	44.20	92.12	121.99	121.99	118.05	1,182.81
1983	Wet	112.24	65.11	85.32	74.11	64.93	63.18	40.64	37.00	57.12	55.67	94.44	65.00	814.76
1984	Wet	117.81	107.79	123.45	122.72	115.94	119.30	14.79	12.78	35.88	121.70	121.99	102.82	1,116.97
1985	Dry	71.57	118.05	128.44	61.82	58.34	53.45	19.52	16.35	29.57	121.99	60.35	118.05	857.50
1986	Wet	83.40	96.26	78.05	38.95	139.19	120.53	26.97	26.20	69.02	121.99	74.79	118.05	993.40
1987	Dry	65.66	5.30	129.24	60.19	55.42	42.94	9.71	32.76	28.82	73.80	13.75	38.52	556.11
1988	Critical	8.42	15.00	60.60	42.64	5.13	30.14	17.99	17.75	5.30	90.42	5.48	22.30	321.17
1989	Dry	5.48	51.97	56.18	57.92	13.50	22.04	19.97	14.89	41.62	121.99	97.00	118.05	620.61
1990	Critical	60.59	40.73	59.22	56.26	35.64	18.67	5.30	16.70	4.25	121.99	5.48	32.23	457.06
1991	Critical	6.85	8.92	23.51	5.48	20.98	23.30	18.05	15.64	37.06	113.99	5.48	10.87	290.13
1992	Critical	13.03	9.29	25.30	24.58	28.97	43.69	12.37	12.78	25.54	5.48	5.48	37.69	244.20
1993	Above Normal	35.15	8.73	62.56	57.30	68.22	71.88	12.37	12.78	70.04	121.99	121.99	118.05	761.06
1994	Critical	64.29	5.30	127.55	58.43	54.59	42.35	16.33	18.73	4.31	121.99	21.58	57.38	592.83
1995	Wet	16.94	34.52	63.01	54.64	59.88	138.07	28.89	112.80	118.05	121.99	121.99	118.05	988.83
1996	Wet	39.79	22.06	68.92	51.39	133.97	126.07	17.77	17.06	59.25	121.99	121.99	118.05	898.31
1997	Wet	27.54	9.80	140.22	155.23	140.20	132.03	12.37	13.86	50.76	110.14	121.99	118.05	1,032.19
1998	Wet	37.76	13.74	128.71	54.90	140.20	138.07	32.29	38.03	118.05	121.99	121.99	118.05	1,063.78
1999	Wet	121.99	118.05	73.81	74.66	119.47	90.59	15.02	12.78	50.64	121.99	121.99	56.96	977.95
2000	Above Normal	40.78	5.30	127.64	40.53	88.19	104.07	14.61	12.78	44.23	113.8			

**Energy Use (GWh) At Pumping Plant at SWP Banks: Alternative5\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Total
1922	Above Normal	90.57	60.97	131.24	65.00	53.10	82.50	18.03	17.24	109.40	121.99	121.99	118.05	990.08
1923	Below Normal	67.79	42.15	77.98	64.32	68.31	51.15	17.96	12.78	43.66	121.99	121.99	118.05	808.13
1924	Critical	62.95	55.07	51.24	57.27	37.15	5.48	5.30	11.98	5.30	100.50	5.48	9.81	407.53
1925	Dry	41.53	50.17	73.00	58.37	39.28	78.31	19.09	17.51	37.71	121.99	62.02	118.05	717.03
1926	Dry	54.91	48.09	50.31	58.68	29.28	5.48	20.05	15.21	42.25	121.99	58.82	64.98	570.05
1927	Wet	27.22	118.05	67.89	42.81	65.34	67.69	14.27	12.78	50.72	121.99	121.99	118.05	828.80
1928	Above Normal	59.08	38.49	129.71	62.82	37.28	78.31	15.25	12.78	45.21	111.93	121.99	118.05	830.90
1929	Critical	65.46	24.97	85.48	60.23	54.71	49.93	28.37	20.75	5.30	5.48	5.48	11.95	418.11
1930	Dry	20.61	16.97	60.61	43.46	41.21	46.14	24.64	22.21	28.52	121.99	49.66	118.05	594.07
1931	Critical	34.93	28.66	24.66	58.15	33.49	15.68	5.30	5.48	5.30	67.35	5.48	7.90	292.38
1932	Dry	18.19	26.97	131.02	62.50	70.57	74.11	5.30	12.78	5.30	121.99	77.05	42.13	647.91
1933	Critical	39.92	33.87	39.71	48.78	78.32	29.84	13.30	12.78	5.30	29.13	5.48	11.19	347.62
1934	Critical	19.07	20.74	73.69	109.02	69.87	25.45	5.30	14.12	5.30	5.48	5.48	9.10	362.62
1935	Below Normal	23.94	56.96	69.00	64.12	46.83	45.65	15.01	12.78	40.84	121.99	121.99	118.05	737.16
1936	Below Normal	57.53	49.43	56.08	40.46	144.14	129.64	18.13	12.78	48.80	121.99	121.99	95.64	896.61
1937	Below Normal	84.03	48.48	118.48	69.83	140.20	115.93	17.48	16.13	85.74	121.99	82.02	55.44	955.75
1938	Wet	90.74	118.05	91.80	121.63	120.31	122.16	37.63	46.02	113.33	121.99	121.99	102.96	1,208.61
1939	Dry	61.04	5.30	104.73	62.05	45.07	32.39	9.24	15.71	5.30	121.99	84.38	118.05	665.25
1940	Above Normal	30.23	18.25	61.12	47.41	56.83	103.88	20.21	12.78	48.48	115.58	121.99	118.05	754.81
1941	Wet	56.67	24.22	77.58	72.92	137.83	138.07	24.83	23.98	69.20	121.99	121.99	109.59	978.87
1942	Wet	42.96	5.30	76.87	85.20	83.61	90.18	21.00	21.13	68.30	121.99	121.99	109.39	847.92
1943	Wet	52.99	5.30	71.96	87.75	98.70	138.07	21.64	14.41	42.53	121.70	121.99	113.23	890.27
1944	Dry	51.12	5.30	129.82	62.08	63.07	45.04	15.43	12.78	33.01	121.99	84.58	46.11	670.33
1945	Below Normal	37.69	118.05	72.40	62.25	61.19	113.90	15.37	12.78	34.83	121.99	121.99	99.57	872.01
1946	Below Normal	98.77	118.05	103.02	75.52	49.18	62.01	13.46	12.78	34.88	121.99	121.99	100.62	912.27
1947	Dry	88.24	86.21	78.93	51.84	58.28	24.49	17.81	12.78	30.25	121.99	76.29	118.05	765.16
1948	Below Normal	77.37	62.34	41.41	36.92	5.13	46.20	12.37	12.78	47.38	121.99	121.99	118.05	703.93
1949	Dry	56.04	47.47	78.02	58.70	54.82	35.44	12.37	12.78	30.64	121.99	64.24	118.05	690.56
1950	Below Normal	29.34	33.82	40.14	40.76	42.71	62.92	12.37	12.78	37.10	121.80	121.99	118.05	673.78
1951	Above Normal	89.22	118.05	139.69	114.63	104.13	116.90	14.09	12.78	47.63	107.64	121.99	105.58	1,092.33
1952	Wet	56.21	68.30	71.83	83.34	67.68	138.07	25.20	35.25	88.50	121.99	121.99	112.03	990.39
1953	Wet	49.94	5.30	129.74	49.62	64.06	67.71	14.97	13.28	34.24	121.99	121.99	118.05	790.89
1954	Above Normal	40.02	5.30	128.12	37.58	41.46	63.11	12.60	12.78	46.31	106.23	121.99	118.05	733.55
1955	Dry	56.03	53.27	128.33	65.11	49.77	43.86	15.05	12.78	5.30	121.99	42.30	85.52	679.31
1956	Wet	35.58	68.58	93.82	155.23	109.92	118.41	15.06	16.98	75.00	121.99	121.99	100.77	1,033.33
1957	Above Normal	54.26	5.30	128.53	60.18	31.46	23.92	14.91	12.78	30.63	121.75	121.99	118.05	723.76
1958	Wet	121.99	46.36	67.70	46.22	67.57	138.07	39.24	31.17	89.17	121.99	121.99	118.05	1,009.52
1959	Below Normal	68.81	5.30	129.25	39.60	50.64	67.74	19.06	15.65	29.41	121.99	121.99	118.05	787.49
1960	Dry	58.42	47.72	42.48	58.16	38.27	44.41	5.30	22.32	26.90	121.99	91.78	118.05	675.80
1961	Dry	27.77	73.53	127.64	60.11	33.80	60.30	13.40	14.64	1.51	121.99	37.96	43.94	616.59
1962	Below Normal	15.58	47.37	53.46	45.36	51.70	70.00	16.57	12.78	30.25	118.28	121.99	118.05	701.39
1963	Wet	121.99	118.05	64.59	43.91	47.88	65.05	13.37	12.78	40.22	121.99	121.99	118.05	889.87
1964	Dry	72.69	118.05	91.21	62.09	46.76	39.76	12.37	12.78	5.30	121.99	55.42	118.05	756.47
1965	Wet	53.67	53.21	71.32	99.48	72.02	77.08	18.80	12.78	50.04	121.66	121.99	115.99	868.04
1966	Below Normal	35.41	66.45	137.04	71.27	65.83	55.00	12.37	12.78	29.58	119.51	121.99	118.05	845.28
1967	Wet	46.32	66.87	69.51	68.02	59.74	81.85	32.37	29.97	110.88	121.99	121.99	118.05	927.56
1968	Below Normal	73.59	5.30	128.63	61.79	38.98	64.43	17.11	15.85	29.35	121.69	121.99	118.05	796.76
1969	Wet	68.15	71.51	128.68	71.58	76.28	74.23	39.02	87.60	94.66	96.72	111.45	78.64	998.52
1970	Wet	62.68	5.30	75.09	137.43	111.80	121.42	12.37	12.78	32.60	121.99	121.99	63.10	878.55
1971	Wet	48.53	93.72	72.11	60.36	55.28	73.80	15.52	12.78	46.78	121.99	121.99	118.05	840.91
1972	Below Normal	52.42	5.30	128.55	58.73	30.92	42.62	21.00	13.00	29.05	121.99	121.99	118.05	743.62
1973	Above Normal	66.70	118.05	67.22	52.83	72.16	75.08	14.71	12.78	50.27	121.67	121.99	88.73	862.19
1974	Wet	98.37	118.05	80.60	77.29	64.82	92.42	16.96	12.78	60.63	121.99	121.99	118.05	983.95
1975	Wet	79.82	5.30	130.26	61.86	53.26	102.88	15.65	12.78	66.37	121.99	121.99	118.05	890.21
1976	Critical	110.82	5.30	128.74	52.67	34.06	51.90	22.86	20.21	5.30	114.80	75.56	118.05	740.27
1977	Critical	58.52	25.83	21.51	32.18	11.50	5.48	5.30	10.21	4.66	5.48	5.48	24.24	210.39
1978	Above Normal	5.48	30.32	53.15	52.59	71.47	81.11	24.02	20.48	73.54	121.99	121.99	118.05	774.19
1979	Below Normal	57.70	27.78	129.85	71.62	87.35	87.09	15.27	20.39	34.56	121.99	121.99	83.34	858.93
1980	Above Normal	98.76	55.94	129.13	77.56	88.87	81.97	15.54	16.53	77.64	98.93	69.05	55.45	865.37
1981	Dry	67.58	6.77	128.82	61.92	55.99	45.14	20.04	16.40	29.13	121.99	86.29	118.05	758.12
1982	Wet	60.54	118.05	66.88	70.27	130.19	135.27	108.25	37.51	83.05	121.99	121.99	118.05	1,172.04
1983	Wet	121.99	69.93	86.44	74.11	64.93	63.18	40.64	37.00	57.12	55.67	94.44	65.00	830.45
1984	Wet	117.81	107.79	123.36	122.72	115.92	119.30	14.79	12.78	35.88	121.70	121.99	102.84	1,116.88
1985	Dry	71.57	118.05	128.44	61.82	58.34	53.45	19.52	16.35	29.57	121.99	60.34	118.05	857.49
1986	Wet	83.40	96.26	78.05	38.95	105.49	138.07	26.55	22.76	67.49	121.99	97.47	98.38	974.86
1987	Dry	65.75	5.30	129.24	60.19	55.42	42.94	9.73	32.75	28.82	70.77	13.77	38.53	553.21
1988	Critical	8.40	14.97	60.60	42.64	5.14	30.18	17.99	17.75	5.30	90.61	5.48	22.31	321.37
1989	Dry	5.48	51.97	56.10	57.92	13.50	22.04	19.97	14.89	41.62	121.99	95.28	118.05	618.81
1990	Critical	60.98	40.70	59.88	56.26	35.63	18.67	5.30	16.70	4.25	121.99	5.48	32.23	458.07
1991	Critical	6.84	8.94	23.51	5.48	20.98	23.30	18.05	15.64	37.06	114.44	5.48	10.83	290.55
1992	Critical	12.97	9.25	25.32	24.40	28.97	43.69	12.37	12.78	25.54	5.48	5.48	37.68	243.93
1993	Above Normal	35.15	8.71	62.55	57.30	68.20	71.88	12.37	12.78	70.04	121.99	121.99	118.05	761.01
1994	Critical	64.28	5.30	127.55	58.43	54.59	42.35	16.33	18.73	4.31	121.99	21.58	57.35	592.79
1995	Wet	16.93	34.53	63.00	54.61	59.88	138.07	25.00	45.37	101.23	121.99	121.99	118.05	900.65
1996	Wet	36.96	19.33	68.92	51.39	133.90	122.90	17.77	17.07	59.25	121.99	121.99	118.05	889.52
1997	Wet	27.50	9.39	140.22	155.23	140.20	127.80	12.37	12.78	48.91	121.99	121.99	118.05	1,036.43
1998	Wet	37.72	13.66	128.71	54.85	140.20	138.07	29.73	32.99	118.05	121.99	121.99	118.05	1,056.01
1999	Wet	121.99	118.05	73.81	74.66	116.75	90.59	15.02	12.78	50.64	121.99	121.99	54.41	972.68
2000	Above Normal	40.79	5.30	127.64	40.53	87.15	103.25	14.61	12.78	44.23	113.86	121.9		

**Difference in Energy Use (GWh) At Pumping Plant at SWP Banks: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Average
1922	Above Normal	0.00	0.00	0.00	0.00	0.06	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.02
1923	Below Normal	0.00	(0.08)	0.00	(0.91)	0.35	0.05	0.00	0.00	(2.78)	0.00	0.00	0.00	(0.28)
1924	Critical	(0.23)	(0.22)	(0.24)	1.77	0.00	0.00	0.00	0.00	0.00	(7.82)	0.00	(0.34)	(0.59)
1925	Dry	0.12	(0.87)	0.03	0.00	0.00	(0.02)	0.00	0.00	2.27	0.00	(1.17)	0.00	0.03
1926	Dry	0.19	0.16	(0.01)	0.00	0.00	0.00	0.00	(0.60)	0.01	0.00	(2.68)	2.72	(0.02)
1927	Wet	(0.03)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1928	Above Normal	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.06)	0.00	0.00	0.00
1929	Critical	(0.02)	(0.01)	(0.02)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1930	Dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.12)	0.00	(0.01)
1931	Critical	(0.01)	(0.01)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	(0.05)	0.06
1932	Dry	0.06	0.01	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	(0.97)	0.00	(0.02)
1933	Critical	0.17	0.18	0.01	(0.01)	(1.88)	0.00	0.00	0.00	0.00	0.65	0.00	0.02	(0.07)
1934	Critical	(0.01)	0.11	(0.11)	(0.02)	(0.02)	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00
1935	Below Normal	(2.54)	(0.03)	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.21)
1936	Below Normal	(0.15)	(0.11)	0.02	0.00	0.00	(1.87)	0.00	0.00	0.00	0.00	0.00	(0.33)	(0.20)
1937	Below Normal	0.02	0.02	0.00	(21.63)	0.00	1.90	(2.47)	(6.11)	8.58	0.00	(4.12)	0.09	(1.98)
1938	Wet	0.01	0.00	(19.41)	(17.48)	7.20	1.98	(4.44)	(66.78)	(4.72)	4.23	3.25	21.33	(6.24)
1939	Dry	2.43	0.00	(3.94)	0.00	0.01	0.00	0.20	(1.12)	0.00	0.00	(0.20)	0.00	(0.22)
1940	Above Normal	(6.62)	(0.11)	(0.78)	0.12	0.00	0.00	0.00	0.00	0.01	(0.02)	0.00	0.00	(0.62)
1941	Wet	(0.01)	0.08	0.00	(0.01)	(2.37)	0.00	0.00	(1.76)	(0.61)	0.00	0.00	0.00	(0.39)
1942	Wet	0.53	0.00	0.00	(5.71)	(1.64)	0.00	0.00	0.00	0.00	0.00	0.00	8.44	0.14
1943	Wet	(0.04)	0.00	0.00	(19.90)	(1.01)	0.00	(0.41)	(0.42)	(6.14)	0.00	0.00	(0.73)	(2.39)
1944	Dry	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.07	0.28
1945	Below Normal	0.01	0.00	0.00	0.00	(6.58)	(6.32)	(0.01)	0.00	(0.01)	0.00	0.00	0.95	(1.00)
1946	Below Normal	0.36	2.41	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	(0.78)	0.19
1947	Dry	0.02	0.01	(0.06)	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01
1948	Below Normal	0.05	0.01	(0.03)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1949	Dry	0.07	0.07	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.06)	0.00	0.01
1950	Below Normal	(0.83)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.02)	0.00	0.00	0.00	(0.07)
1951	Above Normal	0.01	0.00	(0.53)	(0.01)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	(0.04)
1952	Wet	0.00	0.02	0.00	(0.63)	0.18	0.00	(2.65)	(6.58)	(13.60)	0.00	0.00	9.66	(1.13)
1953	Wet	(2.22)	0.00	0.00	(8.24)	0.00	(0.01)	0.00	(0.01)	0.00	0.00	0.00	0.00	(0.87)
1954	Above Normal	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
1955	Dry	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	(2.20)	(0.15)
1956	Wet	0.03	0.01	(15.67)	0.00	(0.02)	0.01	0.00	0.00	0.00	0.00	0.00	0.51	(1.26)
1957	Above Normal	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1958	Wet	0.00	(0.02)	0.00	0.00	0.00	0.00	(3.09)	(5.15)	(4.09)	0.00	0.00	0.00	(1.03)
1959	Below Normal	0.00	0.00	0.00	0.00	0.00	(2.45)	0.01	0.00	0.00	0.00	0.00	0.00	(0.20)
1960	Dry	(0.35)	(1.05)	(0.40)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	(0.09)
1961	Dry	1.54	(0.06)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.01)	0.00	0.12
1962	Below Normal	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1963	Wet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1964	Dry	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.01
1965	Wet	0.23	0.00	0.00	(1.19)	0.00	0.00	0.00	0.00	(0.01)	0.00	0.00	0.03	(0.08)
1966	Below Normal	0.02	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1967	Wet	0.45	0.00	0.00	0.00	0.00	(0.01)	(2.97)	(5.28)	(7.17)	0.00	0.00	0.00	(1.25)
1968	Below Normal	(1.10)	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
1969	Wet	(5.90)	0.54	0.00	(9.41)	14.08	3.89	(8.90)	8.23	(0.42)	(0.42)	(0.42)	(0.32)	0.08
1970	Wet	(0.17)	0.00	0.00	(0.64)	1.69	(0.02)	0.00	0.00	0.00	0.00	0.00	(1.05)	(0.02)
1971	Wet	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1972	Below Normal	(0.04)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1973	Above Normal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.03)	0.00
1974	Wet	(0.45)	0.00	0.00	(3.53)	0.00	(17.45)	(0.04)	0.00	(0.02)	0.00	0.00	9.63	(0.99)
1975	Wet	(0.05)	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.01
1976	Critical	0.68	0.00	0.00	0.00	(0.01)	0.00	0.00	0.00	0.00	(0.73)	(0.07)	0.00	(0.01)
1977	Critical	(0.39)	0.03	0.07	(0.19)	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.01	(0.03)
1978	Above Normal	0.00	0.46	(0.20)	0.00	(6.15)	(9.36)	(5.82)	(6.11)	(20.94)	0.00	0.00	0.00	(4.01)
1979	Below Normal	(0.19)	(0.09)	0.00	0.00	(0.77)	(1.57)	0.00	0.00	0.00	0.00	0.00	15.08	1.04
1980	Above Normal	14.53	2.73	0.00	(33.74)	6.65	3.97	0.00	0.00	(1.00)	(23.06)	(22.89)	49.44	(0.28)
1981	Dry	(1.07)	0.15	0.00	0.00	0.00	(8.24)	0.00	(0.01)	0.00	0.00	0.07	0.00	(0.76)
1982	Wet	2.81	0.00	0.00	0.00	(1.02)	3.20	0.00	(6.69)	(9.07)	0.00	0.00	0.00	(0.90)
1983	Wet	9.75	4.82	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31
1984	Wet	0.00	0.00	(0.09)	0.00	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	(0.01)
1985	Dry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.01)	0.00	0.00
1986	Wet	0.00	0.00	0.00	0.00	(33.70)	17.54	(0.42)	(3.44)	(1.53)	0.00	22.68	(19.67)	(1.55)
1987	Dry	0.09	0.00	0.00	0.00	0.00	0.00	0.02	(0.01)	0.00	(3.03)	0.02	0.01	(0.24)
1988	Critical	(0.02)	(0.03)	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.19	0.00	0.01	0.02
1989	Dry	0.00	0.00	(0.08)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(1.72)	0.00	(0.15)
1990	Critical	0.39	(0.03)	0.66	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
1991	Critical	(0.01)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	(0.04)	0.04
1992	Critical	(0.06)	(0.04)	0.02	(0.18)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.01)	(0.02)
1993	Above Normal	0.00	(0.02)	(0.01)	0.00	(0.02)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	Critical	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.03)	0.00
1995	Wet	(0.01)	0.01	(0.01)	(0.03)	0.00	0.00	(3.89)	(67.43)	(16.82)	0.00	0.00	0.00	(7.35)
1996	Wet	(2.83)	(2.73)	0.00	0.00	(0.07)	(3.17)	0.00	0.01	0.00	0.00	0.00	0.00	(0.73)
1997	Wet	(0.04)	(0.41)	0.00	0.00	0.00	(4.23)	0.00	(1.08)	(1.85)	11.85	0.00	0.00	0.35
1998	Wet	(0.04)	(0.08)	0.00	(0.05)	0.00	0.00	(2.56)	(5.04)	0.00	0.00	0.00	0.00	(0.65)
1999	Wet	0.00	0.00	0.00	0.00	(2.72)	0.00	0.00	0.00	0.00	0.00	0.00	(2.55)	(0.44)
2000	Above Normal	0.01	0.00	0.00	0.00	(1.04)	(0.82)	0.00	0.00	0.00	(0.01)	0.00	0.00	(0.15)
2001	Dry	(0.04)	0.00	(5.02)	0.00	0.00	0.00	0.00	0.00	0.00	3.56	(0.11)	0.02	(0.13)
2002	Dry	0.00	(0.02)	0.00	0.00	(0.01)	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.11
2003	Above Normal	0.00	(0.18)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(0.02)
Average		0.13	0.07	(0.52)	(1.48)	(0.34)	(0.28)	(0.46)	(2.14)	(0.97)	(0.16)	(0.07)	1.11	(0.42)
Wet		0.08	0.09	(1.31)	(2.57)	(0.75)	0.07	(1.13)	(6.21)	(2.54)	0.60	0.98	0.97	(0.98)
Above Normal		0.67	0.24	(0.13)	(2.80)	(0.04)	(0.51)	(0.48)	(0.51)	(1.83)	(1.93)	(1.91)	4.12	(0.42)
Below Normal		(0.31)	0.15	0.16	(1.61)	(0.48)	(0.73)	(0.18)	(0.44)	0.41	0.00	(0.29)	1.07	(0.19)
Dry		0.26	(0.09)	(0.53)	0.00	0.04	(0.46)	0.01	(0.10)	0.13	0.03	(0.22)	0.11	(0.07)
Critical		0.04	0.00	0.03	0.11	(0.16)	0.01	0.00	0.00	0.00	(0.54)	(0.01)	(0.03)	(0.04)



**Energy Use (GWh) At Pumping Plant at SWP Dos Amigos: Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Total
1922	Above Normal	39.20	49.47	27.00	7.25	13.46	22.05	30.16	34.24	43.51	43.87	44.42	31.55	386.18
1923	Below Normal	29.11	35.32	21.37	34.85	34.36	33.65	24.76	32.29	42.86	47.34	43.54	28.72	408.17
1924	Critical	29.35	18.38	15.72	11.27	11.41	10.06	13.65	17.60	23.72	28.21	20.70	13.54	213.61
1925	Dry	7.05	5.33	4.80	3.47	5.38	20.51	23.37	33.71	45.02	50.52	52.14	29.62	280.92
1926	Dry	21.08	18.26	15.27	6.87	8.24	11.83	17.48	29.26	38.85	43.51	42.92	25.70	279.27
1927	Wet	18.09	15.60	12.96	6.64	11.29	25.30	31.70	36.26	45.64	45.97	46.49	33.45	329.39
1928	Above Normal	28.17	34.19	23.07	28.94	28.84	17.97	31.34	35.42	44.37	44.85	45.09	32.58	394.83
1929	Critical	27.30	32.60	22.29	26.16	24.63	13.92	11.51	16.21	21.54	22.94	18.82	12.26	250.18
1930	Dry	6.53	5.02	4.54	3.14	6.13	8.31	19.34	25.22	33.87	37.14	36.91	21.09	207.24
1931	Critical	13.41	11.05	9.13	5.39	6.60	7.80	15.51	20.12	27.20	31.63	23.79	15.36	186.99
1932	Dry	8.06	6.32	5.60	4.35	7.21	10.33	19.81	25.77	34.40	38.41	38.26	22.27	220.79
1933	Critical	15.10	12.84	10.59	5.88	7.13	9.59	17.41	23.61	32.11	36.43	28.94	18.80	218.43
1934	Critical	10.95	8.43	6.92	4.95	5.73	8.15	16.53	21.46	29.13	34.28	12.91	3.39	162.83
1935	Below Normal	11.83	19.27	14.94	4.71	6.88	9.85	25.64	33.84	35.80	52.72	47.43	31.50	294.41
1936	Below Normal	27.70	19.63	16.37	7.14	9.55	36.01	30.03	37.69	47.41	47.77	48.33	42.65	370.28
1937	Below Normal	29.38	26.08	24.07	29.42	46.60	49.96	31.16	34.32	45.48	49.98	56.49	35.20	458.14
1938	Wet	29.19	25.79	23.89	48.65	50.02	52.87	25.39	40.85	50.88	54.97	56.70	34.69	493.89
1939	Dry	34.21	33.19	23.57	34.95	34.34	38.58	28.83	33.37	31.14	51.85	46.24	34.41	424.68
1940	Above Normal	25.66	16.23	25.08	5.04	6.13	13.54	25.50	34.17	41.73	52.06	46.76	30.71	322.61
1941	Wet	23.52	25.17	15.93	11.31	15.60	34.98	26.73	30.10	40.27	44.83	45.47	31.32	345.23
1942	Wet	35.14	26.67	20.37	35.63	35.51	40.02	34.51	34.86	44.68	45.11	45.71	32.09	430.30
1943	Wet	33.76	31.44	21.63	29.47	34.86	33.52	34.62	35.32	46.66	51.20	51.86	36.28	440.62
1944	Dry	38.13	33.71	24.72	25.03	23.50	15.09	20.00	26.17	34.73	38.60	38.76	22.41	340.85
1945	Below Normal	14.95	12.62	10.46	7.10	8.12	46.91	29.98	36.25	45.64	45.99	46.49	42.49	347.00
1946	Below Normal	30.13	24.98	30.99	32.44	26.00	27.62	29.95	34.55	43.58	43.95	44.55	39.66	408.40
1947	Dry	29.77	23.69	21.80	29.11	28.56	18.75	29.28	35.51	45.95	49.07	54.57	31.89	397.95
1948	Below Normal	24.77	21.75	19.14	16.90	16.31	10.89	16.58	25.71	19.65	49.71	45.05	30.91	297.37
1949	Dry	26.35	19.46	16.11	7.69	8.55	10.94	29.54	35.39	45.71	48.44	56.85	31.91	336.94
1950	Below Normal	25.05	22.03	19.52	8.03	8.34	9.48	23.35	30.47	17.60	50.72	45.74	30.85	291.18
1951	Above Normal	28.58	18.30	17.71	50.62	47.00	52.39	28.01	35.70	45.12	45.44	46.06	32.99	447.92
1952	Wet	30.82	32.28	22.16	34.81	35.48	27.39	21.73	29.09	38.70	43.35	44.10	30.44	390.35
1953	Wet	28.79	35.09	35.80	36.02	35.42	39.50	33.51	32.20	41.23	43.38	42.04	29.09	432.07
1954	Above Normal	26.34	24.31	18.05	21.67	22.41	22.64	25.73	33.76	44.47	49.76	46.02	30.06	365.22
1955	Dry	23.81	23.16	15.50	7.65	9.49	12.58	21.69	28.42	37.76	42.42	46.06	24.91	293.45
1956	Wet	17.42	15.02	12.48	38.11	48.91	53.00	32.22	39.38	50.11	50.50	51.20	36.38	444.73
1957	Above Normal	36.32	35.70	25.05	33.52	32.24	21.90	21.53	23.10	11.91	50.23	44.91	29.64	366.05
1958	Wet	21.02	22.41	15.07	6.65	17.69	43.15	33.74	41.72	50.01	54.57	55.31	38.26	399.60
1959	Below Normal	31.81	45.61	25.91	34.11	33.48	35.14	24.60	32.12	31.49	50.78	45.67	30.35	421.07
1960	Dry	27.62	18.87	15.70	6.66	7.11	9.62	27.65	35.76	39.68	54.49	48.36	35.34	326.86
1961	Dry	26.04	22.77	19.13	8.80	9.58	9.50	23.19	30.24	40.28	45.12	44.86	19.32	298.83
1962	Below Normal	6.80	21.69	24.18	4.07	4.96	12.43	23.53	30.98	19.60	51.20	46.86	31.21	276.84
1963	Wet	22.42	19.47	16.20	14.93	17.85	23.89	29.58	34.31	43.27	43.62	44.23	31.71	341.48
1964	Dry	26.51	23.50	41.07	26.22	19.59	20.33	31.52	35.41	44.58	44.92	53.45	32.70	399.80
1965	Wet	27.51	24.37	22.48	28.55	30.96	25.36	28.71	32.77	40.81	42.56	42.42	30.20	376.70
1966	Below Normal	36.20	24.44	20.06	31.15	33.10	25.84	25.11	32.64	42.19	50.03	44.45	29.11	394.32
1967	Wet	28.46	18.29	9.25	8.84	14.06	19.50	32.37	33.64	44.34	48.84	49.47	34.76	341.82
1968	Below Normal	28.95	43.25	24.67	35.05	36.05	37.25	28.80	32.17	42.23	45.45	42.83	28.90	425.60
1969	Wet	28.21	19.29	16.84	24.64	26.41	31.53	23.86	30.10	40.27	52.21	52.38	33.43	379.17
1970	Wet	32.46	22.66	19.94	53.81	48.62	53.39	29.25	35.55	44.88	45.20	45.81	36.81	468.38
1971	Wet	33.13	25.93	22.49	34.79	34.14	28.04	23.98	31.98	42.78	48.40	43.51	28.19	397.36
1972	Below Normal	25.69	17.67	14.44	7.56	15.17	21.73	26.18	33.37	44.28	48.82	44.73	29.58	329.22
1973	Above Normal	29.00	18.93	16.15	10.91	21.99	28.85	29.16	36.50	46.03	46.28	46.87	33.66	364.33
1974	Wet	28.34	25.13	23.18	35.11	35.21	37.05	32.97	37.45	48.09	48.46	49.13	34.49	434.61
1975	Wet	28.69	40.93	23.40	34.09	33.04	34.62	31.64	35.60	44.82	45.08	45.59	32.84	430.34
1976	Critical	27.57	35.37	22.58	28.68	28.37	18.53	24.23	31.81	29.60	52.26	38.72	32.43	370.15
1977	Critical	23.43	20.45	16.94	6.59	7.08	7.41	7.77	3.84	1.44	3.75	1.52	10.31	110.53
1978	Above Normal	2.36	13.35	24.00	3.97	7.58	20.44	22.77	19.88	36.82	42.49	42.95	30.68	267.29
1979	Below Normal	31.64	33.07	20.83	28.08	30.98	38.20	28.61	35.67	45.36	45.68	46.19	42.48	426.79
1980	Above Normal	27.29	24.13	22.29	30.25	35.59	33.26	22.60	30.58	44.38	43.31	60.78	34.26	408.72
1981	Dry	27.09	23.76	21.78	33.42	33.75	24.73	23.63	31.50	23.85	51.13	50.96	31.73	377.33
1982	Wet	22.81	19.90	16.49	13.83	17.43	52.92	47.06	39.39	52.83	53.38	54.11	37.24	427.39
1983	Wet	36.82	41.74	38.19	31.79	27.65	26.95	16.95	14.19	22.78	39.16	39.62	26.94	362.78
1984	Wet	48.18	47.68	55.09	54.35	51.25	52.37	28.18	35.98	45.33	45.74	46.36	33.29	543.80
1985	Dry	27.93	24.80	31.84	31.31	30.92	30.43	29.49	33.95	42.80	43.06	51.97	31.31	409.81
1986	Wet	26.21	23.25	21.40	27.27	25.77	37.98	30.72	37.95	47.76	48.46	61.26	34.98	423.01
1987	Dry	29.26	25.82	23.74	33.53	32.16	17.96	17.04	22.29	30.20	36.79	26.31	17.24	312.34
1988	Critical	9.47	7.08	6.22	4.20	6.39	6.98	11.89	15.26	20.31	21.82	17.74	11.81	139.17
1989	Dry	6.01	4.66	4.23	2.93	5.59	6.96	26.60	35.29	40.70	54.12	52.50	32.92	272.51
1990	Critical	23.73	20.64	17.20	6.89	7.74	8.69	15.01	19.50	26.33	28.03	22.95	15.08	211.79
1991	Critical	8.05	6.00	5.40	3.78	5.31	6.81	12.07	14.90	15.74	27.47	19.47	13.16	138.16
1992	Critical	6.73	4.87	4.59	3.31	5.10	6.58	11.91	15.19	20.09	13.02	1.66	15.93	108.98
1993	Above Normal	15.76	4.02	18.12	4.23	14.21	20.88	27.84	33.40	36.04	47.09	45.24	31.47	298.30
1994	Critical	28.41	28.31	19.39	20.06	19.55	16.01	22.17	28.83	35.17	43.98	33.38	26.34	321.60
1995	Wet	7.44	16.02	28.66	4.03	12.45	16.67	34.28	39.76	50.66	51.43	52.08	36.59	350.07
1996	Wet	36.10	38.26	25.03	32.58	33.89	31.18	32.24	36.29	45.83	46.18	46.77	33.50	437.85
1997	Wet	40.67	24.95	23.02	34.95	34.85	47.51	30.31	36.33	46.79	47.27	47.92	33.34	447.91
1998	Wet	31.31	34.60	22.40	33.10	35.04	35.91	30.80	38.62	50.50	51.20	51.89	35.33	450.70
1999	Wet	29.90	52.43	31.99	35.79	49.62	39.12	30.47	35.64	44.94	45.40	46.04	38.66	480.00
2000	Above Normal	30.29	25.48	22.62	30.29	29.91	24.16	26.89	34.49	45.64	50.43	46.18	30.63	397.01
2001	Dry	26.70	24.75	16.80	10.83	10.80	10.12	17.22	22.66	30.77	38.88	26.93	17.59	255.05
2002	Dry	9.62	7.24	6.32	3.93	8.24	12.99	31.93	35.67	44.65	45.06	51.87	32.95</	

**Energy Use (GWh) At Pumping Plant at SWP Dos Amigos: Alternative5\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September	Total
1922	Above Normal	39.20	49.47	27.00	7.25	13.46	22.05	30.16	34.25	43.51	43.88	44.43	31.55	386.21
1923	Below Normal	29.97	34.37	21.38	34.85	34.36	33.60	24.75	32.30	42.87	47.38	43.55	28.72	408.10
1924	Critical	29.22	18.36	15.69	11.08	11.23	9.92	13.41	17.27	23.25	27.89	20.29	13.28	210.89
1925	Dry	6.89	5.23	4.71	3.40	5.32	18.84	23.45	33.82	45.16	50.68	51.38	29.72	278.60
1926	Dry	21.15	18.32	15.32	6.88	8.23	11.80	17.43	29.18	38.74	43.39	43.36	25.63	279.43
1927	Wet	18.03	15.56	12.92	6.64	11.22	25.31	31.74	36.30	45.69	46.02	46.54	33.49	329.46
1928	Above Normal	28.20	34.04	23.10	28.97	28.86	17.97	31.32	35.43	44.39	44.89	45.11	32.57	394.85
1929	Critical	27.28	32.59	22.26	26.07	24.55	13.89	11.51	16.20	21.53	22.93	18.81	12.29	249.91
1930	Dry	6.51	5.01	4.53	3.13	6.13	8.31	19.33	25.22	33.87	37.14	36.97	21.09	207.24
1931	Critical	13.41	11.05	9.12	5.39	6.61	7.81	15.54	20.15	27.25	31.70	23.83	15.49	187.35
1932	Dry	8.10	6.26	5.58	4.34	7.21	10.35	19.83	25.80	34.42	38.46	38.34	22.32	221.01
1933	Critical	15.16	12.90	10.65	5.89	7.14	9.52	17.31	23.49	31.96	36.22	28.68	18.62	217.54
1934	Critical	10.76	8.24	6.82	4.84	5.69	8.18	16.60	21.55	29.27	34.44	13.19	3.35	162.93
1935	Below Normal	10.70	19.95	15.46	4.72	6.89	9.85	25.51	33.66	35.00	52.53	47.28	31.44	292.99
1936	Below Normal	27.69	19.60	16.35	7.16	9.61	35.51	30.02	37.68	47.40	47.75	48.32	42.64	369.73
1937	Below Normal	29.37	26.07	24.07	29.43	36.54	50.84	30.82	34.00	45.15	49.65	56.13	34.88	446.95
1938	Wet	28.86	25.49	23.61	35.25	50.12	53.78	25.80	33.49	45.32	49.86	50.57	34.41	456.56
1939	Dry	32.99	37.39	23.35	34.65	34.00	37.41	26.80	33.98	33.93	51.87	45.34	34.63	426.34
1940	Above Normal	25.96	12.83	26.89	4.09	5.29	13.27	25.49	34.16	41.68	52.04	46.75	30.71	319.16
1941	Wet	23.57	25.63	15.92	11.32	15.60	33.94	26.73	30.10	40.27	44.84	45.47	31.32	344.71
1942	Wet	35.02	26.52	20.37	35.62	35.48	39.95	34.31	34.61	44.29	44.72	45.32	31.87	428.08
1943	Wet	33.61	31.24	21.50	29.68	34.75	33.89	34.99	35.10	46.27	50.80	51.44	36.08	439.35
1944	Dry	37.72	33.79	24.61	22.04	20.81	14.18	19.94	26.10	34.66	38.49	38.47	22.31	333.12
1945	Below Normal	14.83	12.49	10.35	7.06	8.10	42.13	30.02	36.29	45.69	46.03	46.54	42.09	341.62
1946	Below Normal	30.25	25.01	31.29	32.44	26.00	27.71	30.08	34.70	43.77	44.14	44.75	40.17	410.31
1947	Dry	29.26	23.80	21.90	29.28	28.59	18.72	29.19	35.52	46.02	49.25	54.70	31.86	398.09
1948	Below Normal	24.67	21.65	19.02	16.49	15.94	10.76	16.60	26.16	19.64	49.80	45.13	30.95	296.81
1949	Dry	26.34	19.47	16.13	7.69	8.56	10.92	29.52	35.39	45.73	48.49	56.89	31.91	337.04
1950	Below Normal	25.03	22.00	19.49	7.78	8.12	9.40	23.34	30.46	17.58	50.74	45.75	30.83	290.52
1951	Above Normal	28.55	18.30	17.48	50.62	47.00	52.39	28.01	35.70	45.12	45.44	46.06	32.99	447.66
1952	Wet	30.82	32.28	22.16	34.81	35.48	27.39	21.73	27.92	37.47	42.08	42.69	29.30	384.13
1953	Wet	28.46	33.59	37.85	35.65	34.99	36.92	28.97	32.01	41.09	42.88	41.91	29.21	423.53
1954	Above Normal	26.66	24.25	18.46	22.98	23.65	23.65	25.91	34.01	45.53	49.85	46.28	30.19	371.42
1955	Dry	23.84	23.41	15.58	7.72	9.49	12.55	21.53	28.20	37.47	42.09	45.74	24.72	292.34
1956	Wet	17.27	14.89	12.37	31.18	48.91	53.00	32.24	39.40	50.13	50.52	51.22	36.40	437.53
1957	Above Normal	36.33	35.73	25.07	33.52	32.23	21.89	21.54	23.18	11.91	50.12	44.85	29.68	366.05
1958	Wet	21.08	22.47	15.12	6.65	17.69	43.10	33.74	41.72	50.01	54.57	55.31	38.26	399.72
1959	Below Normal	31.81	45.08	25.91	34.11	33.45	34.22	24.02	31.34	27.15	50.27	45.23	30.25	412.84
1960	Dry	27.51	18.84	15.64	6.57	7.02	9.68	27.75	35.77	40.50	54.14	49.08	34.88	327.38
1961	Dry	25.80	22.56	19.01	9.24	9.97	9.66	23.24	30.31	40.37	45.23	45.14	19.32	299.85
1962	Below Normal	6.79	21.70	24.18	4.07	4.96	12.43	23.53	30.98	19.60	51.20	46.19	31.21	276.84
1963	Wet	22.42	19.47	16.20	14.93	17.85	23.89	29.58	34.31	43.27	43.62	44.23	31.70	341.47
1964	Dry	26.51	23.50	40.98	26.22	19.59	20.39	31.51	35.39	44.56	44.90	53.45	32.69	399.69
1965	Wet	27.50	24.36	22.47	28.65	31.02	25.17	28.70	32.80	40.49	42.74	42.54	30.27	376.71
1966	Below Normal	36.23	23.82	20.08	30.98	32.93	25.76	25.11	32.65	42.18	50.05	44.46	29.11	393.36
1967	Wet	28.29	18.29	9.24	8.81	14.05	19.50	32.38	33.55	44.20	48.69	49.32	34.68	341.00
1968	Below Normal	28.89	43.20	23.58	34.98	35.98	37.25	28.43	32.19	42.61	46.51	43.17	28.75	425.54
1969	Wet	27.62	18.72	16.13	19.24	27.21	31.52	23.72	29.94	40.07	52.21	52.38	33.28	372.04
1970	Wet	32.36	22.54	19.82	53.81	49.40	53.37	28.96	35.61	44.96	45.28	45.88	37.11	469.10
1971	Wet	33.28	25.63	22.53	34.79	34.14	27.97	23.92	31.91	42.33	48.35	43.46	28.19	396.50
1972	Below Normal	25.70	17.64	14.44	7.58	15.20	21.74	26.17	33.36	44.26	48.80	44.71	29.57	329.17
1973	Above Normal	29.01	18.93	16.15	10.94	22.02	28.91	29.11	36.51	46.04	46.29	46.87	33.67	364.45
1974	Wet	28.34	25.14	23.19	35.11	35.19	35.83	33.76	36.79	47.07	47.42	48.07	33.91	429.82
1975	Wet	28.26	40.09	23.04	33.49	32.73	33.61	31.99	36.00	45.33	45.59	46.11	33.21	429.45
1976	Critical	27.91	35.77	22.86	28.99	28.61	18.56	24.07	31.60	29.41	52.26	38.35	32.14	370.53
1977	Critical	23.20	20.24	16.76	6.57	7.06	7.40	8.54	3.86	1.45	3.75	1.50	10.31	110.64
1978	Above Normal	2.36	13.58	23.93	3.97	7.59	19.87	22.14	19.95	37.50	44.37	43.53	30.44	269.23
1979	Below Normal	30.70	31.16	19.55	23.41	23.23	28.90	31.23	35.61	45.15	45.45	45.96	42.48	402.83
1980	Above Normal	27.35	24.20	22.35	29.11	35.55	35.10	21.11	29.42	43.10	52.71	50.37	31.70	402.07
1981	Dry	26.05	22.88	21.02	33.71	33.47	27.65	24.17	32.28	28.23	51.63	50.13	32.10	383.32
1982	Wet	23.09	20.14	16.71	13.90	17.50	52.90	47.06	39.40	52.84	53.39	54.12	37.24	428.29
1983	Wet	30.79	47.78	38.19	31.79	27.65	26.95	16.95	14.19	22.78	39.16	39.62	26.94	362.79
1984	Wet	48.18	47.68	55.09	54.35	51.25	52.37	28.18	35.98	45.33	45.74	46.36	33.29	543.80
1985	Dry	27.93	24.80	31.84	31.31	30.92	30.43	29.49	33.95	42.80	43.06	51.97	31.31	409.81
1986	Wet	26.21	23.25	21.40	27.27	25.77	30.48	32.38	37.97	47.78	48.48	60.63	35.00	416.62
1987	Dry	29.28	26.54	23.75	33.54	32.17	17.97	16.49	21.54	29.14	35.60	25.38	16.66	308.06
1988	Critical	9.10	6.78	6.00	4.11	6.35	6.96	11.89	15.26	20.31	21.76	17.74	11.81	138.07
1989	Dry	6.01	4.66	4.23	2.92	5.58	6.95	26.57	35.26	40.54	54.10	51.72	33.15	271.69
1990	Critical	23.91	20.82	17.33	6.89	7.73	8.69	15.01	19.50	26.34	28.04	22.95	15.09	212.30
1991	Critical	8.06	6.01	5.41	3.78	5.31	6.81	12.07	14.66	15.74	27.33	19.72	13.21	138.11
1992	Critical	6.76	4.63	4.76	3.41	5.10	6.58	11.90	15.19	20.09	12.69	1.45	15.99	108.55
1993	Above Normal	15.79	4.03	18.53	4.23	14.19	20.81	27.82	33.41	35.80	47.21	45.32	31.52	298.66
1994	Critical	28.43	28.26	19.39	19.93	19.43	15.96	22.17	28.83	35.21	43.98	33.40	26.33	321.32
1995	Wet	7.43	16.02	28.66	4.03	12.45	16.67	34.28	39.76	50.66	51.43	52.08	36.59	350.06
1996	Wet	36.75	36.64	25.03	18.28	21.36	25.29	31.53	35.46	44.70	45.04	45.63	32.76	398.47
1997	Wet	40.16	24.39	22.47	34.88	34.80	47.68	30.49	36.37	46.83	47.31	47.96	33.39	446.73
1998	Wet	35.77	29.95	22.44	33.25	35.04	35.88	30.77	36.21	46.98	47.59	48.21	33.20	435.29
1999	Wet	41.45	52.44	32.53	35.41	49.38	39.12	29.29	35.73	45.08	45.53	46.18	39.34	491.48
2000	Above Normal	30.73	24.68	22.68	30.41	30.07	23.92	26.72	34.48	45.75	50.76	46.27	30.56	397.03
2001	Dry	26.47	24.54	16.55	9.98	10.04	9.91	17.35	22.83	31.02	40.16	27.15	17.73	253.73
2002	Dry	9.71	7.30	6.37	3.94	8.26	12.97	31.84	35.56	44.52	44.92	51.73	32.85	





**Percent Difference in Energy Use (GWh) At Pumping Plant at SWP Dos Amigos: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	3%	-3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-2%	-1%	-2%	-2%	-2%	-1%	-2%	-2%
1925	Dry	-2%	-2%	-2%	-2%	-1%	-8%	0%	0%	0%	0%	-1%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	0%	1%	0%	0%	-1%	-1%	-1%	0%	-1%	-1%	-1%
1934	Critical	-2%	-2%	-1%	-2%	-1%	0%	0%	0%	0%	0%	2%	-1%
1935	Below Normal	-10%	4%	3%	0%	0%	0%	-1%	-1%	-2%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	-22%	2%	-1%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-1%	-1%	-1%	-28%	0%	2%	2%	-18%	-11%	-9%	-11%	-1%
1939	Dry	-4%	13%	-1%	-1%	-1%	-3%	-7%	2%	9%	0%	-2%	1%
1940	Above Normal	1%	-21%	7%	-19%	-14%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	2%	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	-1%	0%	0%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1943	Wet	0%	-1%	-1%	1%	0%	1%	1%	-1%	-1%	-1%	-1%	-1%
1944	Dry	-1%	0%	0%	-12%	-11%	-6%	0%	0%	0%	0%	-1%	0%
1945	Below Normal	-1%	-1%	-1%	-1%	0%	-10%	0%	0%	0%	0%	0%	-1%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1947	Dry	-2%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	-1%	-2%	-2%	-1%	0%	2%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-4%	-3%	-3%	-3%	-4%
1953	Wet	-1%	-4%	6%	-1%	-1%	-7%	-14%	-1%	0%	-1%	0%	0%
1954	Above Normal	1%	0%	2%	6%	6%	4%	1%	1%	2%	0%	1%	0%
1955	Dry	0%	1%	1%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-18%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	-1%	0%	0%	0%	-3%	-2%	-2%	-14%	-1%	-1%	0%
1960	Dry	0%	0%	0%	-1%	0%	1%	0%	0%	2%	1%	1%	-1%
1961	Dry	-1%	-1%	-1%	5%	4%	2%	0%	0%	0%	0%	1%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-1%	0%	0%	0%
1966	Below Normal	0%	-3%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	-4%	0%	0%	0%	-1%	0%	1%	2%	1%	-1%
1969	Wet	-2%	-3%	-4%	-22%	3%	0%	-1%	-1%	0%	0%	0%	0%
1970	Wet	0%	-1%	-1%	0%	2%	0%	-1%	0%	0%	0%	0%	1%
1971	Wet	0%	-1%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-3%	2%	-2%	-2%	-2%	-2%	-2%
1975	Wet	-1%	-2%	-2%	-2%	-1%	-3%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	0%	0%	-1%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	10%	1%	1%	0%	-1%	0%
1978	Above Normal	0%	2%	0%	0%	0%	-3%	-3%	0%	2%	4%	1%	-1%
1979	Below Normal	-3%	-6%	-6%	-17%	-25%	-24%	9%	0%	0%	-1%	0%	0%
1980	Above Normal	0%	0%	0%	-4%	0%	6%	-7%	-4%	-3%	22%	-17%	-7%
1981	Dry	-4%	-4%	-3%	1%	-1%	12%	2%	2%	18%	1%	-2%	1%
1982	Wet	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-16%	14%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-20%	5%	0%	0%	0%	-1%	0%
1987	Dry	0%	3%	0%	0%	0%	0%	-3%	-3%	-4%	-3%	-4%	-3%
1988	Critical	-4%	-4%	-4%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	-1%	1%	0%
1992	Critical	0%	-5%	4%	3%	0%	0%	0%	0%	0%	-3%	-13%	0%
1993	Above Normal	0%	0%	2%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	2%	-4%	0%	-44%	-37%	-19%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-1%	-2%	-2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1998	Wet	14%	-13%	0%	0%	0%	0%	0%	-6%	-7%	-7%	-7%	-6%
1999	Wet	39%	0%	2%	-1%	0%	0%	-4%	0%	0%	0%	0%	2%
2000	Above Normal	1%	-3%	0%	0%	1%	-1%	-1%	0%	0%	1%	0%	0%
2001	Dry	-1%	-1%	-1%	-8%	-1%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	3%	-3%	5%	3%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	0%	0%	0%	-1%	0%
Wet		1%	-1%	0%	-4%	-1%	-2%	0%	-1%	-1%	-1%	-1%	0%
Above Normal		0%	-2%	1%	-1%	0%	0%	-1%	0%	0%	2%	-1%	-1%
Below Normal		-1%	-1%	-1%	-2%	-4%	-3%	0%	0%	-1%	0%	0%	0%
Dry		-1%	1%	0%	-1%	-1%	0%	0%	0%	1%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	-1%	0%







**Percent Difference in Energy Use (GWh) At Pumping Plant at SWP San Luis: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-2%	-10%	-1%
1923	Below Normal	-2%	0%	0%	0%	0%	0%	0%	0%	0%	-2%	-2%	-4%
1924	Critical	-2%	-3%	-3%	5%	1%	0%	0%	0%	0%	-23%	0%	0%
1925	Dry	-3%	-9%	-1%	-2%	-2%	10%	0%	0%	0%	-3%	0%	-2%
1926	Dry	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	80%
1927	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	0%	-1%	-1%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	11%	0%	0%
1932	Dry	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%	-11%	0%
1933	Critical	0%	0%	-1%	0%	-3%	3%	0%	0%	0%	0%	0%	0%
1934	Critical	0%	22%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1935	Below Normal	0%	-10%	-3%	0%	0%	0%	0%	0%	0%	5%	1%	0%
1936	Below Normal	0%	-1%	0%	0%	0%	-2%	0%	0%	0%	-2%	-2%	-4%
1937	Below Normal	-2%	0%	-2%	-97%	61%	0%	0%	0%	0%	2%	0%	0%
1938	Wet	-1%	-3%	-35%	37%	>1,000%	0%	0%	-100%	245%	330%	469%	>1,000%
1939	Dry	0%	-9%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-1%
1940	Above Normal	0%	0%	-100%	8%	5%	2%	0%	0%	0%	-1%	0%	0%
1941	Wet	0%	0%	-1%	0%	-3%	3%	0%	0%	0%	-1%	0%	0%
1942	Wet	0%	0%	0%	-68%	-46%	0%	0%	0%	0%	-3%	1%	33%
1943	Wet	0%	0%	2%	-53%	-6%	-4%	0%	0%	0%	-2%	-2%	-9%
1944	Dry	0%	0%	-13%	296%	97%	36%	0%	0%	0%	1%	17%	0%
1945	Below Normal	6%	1%	1%	1%	-14%	28%	0%	0%	0%	-1%	-1%	4%
1946	Below Normal	1%	0%	-2%	0%	0%	0%	0%	0%	0%	-2%	-2%	-4%
1947	Dry	-1%	-1%	-1%	0%	0%	0%	0%	0%	0%	-3%	0%	0%
1948	Below Normal	1%	1%	0%	0%	0%	2%	0%	0%	0%	-1%	-1%	0%
1949	Dry	0%	0%	0%	0%	0%	1%	0%	0%	0%	-1%	0%	0%
1950	Below Normal	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	-19%	0%	-1%	0%	0%	-85%	7%	6%	34%
1953	Wet	0%	0%	-9%	0%	0%	0%	0%	0%	0%	6%	4%	6%
1954	Above Normal	0%	0%	0%	0%	0%	-25%	0%	0%	0%	-25%	-3%	-1%
1955	Dry	1%	-2%	0%	-1%	0%	0%	0%	0%	0%	3%	0%	-6%
1956	Wet	0%	1%	-20%	20%	-11%	0%	0%	0%	0%	0%	0%	3%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%
1958	Wet	0%	-1%	0%	0%	0%	0%	0%	0%	0%	-2%	-1%	-1%
1959	Below Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	10%	5%	1%
1960	Dry	-1%	-3%	1%	1%	1%	0%	0%	0%	0%	28%	0%	2%
1961	Dry	0%	2%	1%	-2%	-9%	-1%	0%	0%	0%	-1%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	4%	0%	-4%	-100%	1%	0%	0%	0%	-2%	-1%	0%
1966	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	-	0%	0%	0%	0%	0%	0%	0%	-43%	-2%	-3%	-4%
1968	Below Normal	-13%	0%	2%	0%	0%	0%	0%	0%	0%	-12%	-5%	-3%
1969	Wet	-29%	4%	0%	12%	>1,000%	0%	0%	83%	0%	0%	0%	0%
1970	Wet	0%	0%	1%	-4%	0%	0%	0%	0%	0%	5%	-1%	0%
1971	Wet	0%	0%	-1%	0%	0%	2%	0%	0%	0%	1%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	-2%	0%	0%	0%	-2%	-2%	-1%
1974	Wet	-2%	-1%	-1%	0%	0%	-62%	0%	0%	0%	0%	6%	34%
1975	Wet	13%	0%	1%	0%	0%	11%	0%	0%	0%	-4%	-4%	-2%
1976	Critical	2%	0%	-1%	0%	0%	-1%	0%	0%	0%	0%	0%	1%
1977	Critical	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1978	Above Normal	0%	0%	0%	0%	-11%	-21%	0%	0%	-100%	-26%	-27%	-19%
1979	Below Normal	70%	0%	-2%	175%	93%	>1,000%	0%	0%	0%	1%	-6%	-
1980	Above Normal	58%	257%	1%	-78%	>1,000%	0%	0%	0%	0%	-72%	0%	0%
1981	Dry	65%	0%	6%	0%	0%	0%	0%	0%	0%	-11%	0%	-2%
1982	Wet	2%	-1%	-2%	-1%	-2%	26%	0%	0%	0%	-3%	-2%	-2%
1983	Wet	39%	-5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	-44%	98%	0%	0%	0%	-2%	0%	-52%
1987	Dry	-100%	0%	-1%	0%	0%	0%	0%	0%	0%	-6%	0%	116%
1988	Critical	0%	-	0%	1%	0%	1%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	1%	0%	0%	0%	2%	0%	-1%
1990	Critical	0%	0%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1992	Critical	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%	0%
1993	Above Normal	0%	0%	-4%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%
1994	Critical	-1%	0%	0%	3%	4%	5%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	-1%	0%	-100%	-100%	-10%	-23%	-22%
1996	Wet	0%	0%	-21%	-	49%	17%	0%	0%	0%	7%	9%	4%
1997	Wet	0%	0%	2%	0%	0%	-19%	0%	0%	0%	625%	0%	3%
1998	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	219%	96%	63%	14%
1999	Wet	-47%	0%	0%	0%	-30%	0%	0%	0%	0%	-1%	-1%	0%
2000	Above Normal	0%	0%	0%	0%	-8%	-1%	0%	0%	0%	-11%	-1%	-1%
2001	Dry	0%	0%	-4%	5%	8%	2%	0%	0%	0%	25%	0%	-2%
2002	Dry	0%	-1%	0%	0%	0%	0%	0%	0%	0%	1%	0%	7%
2003	Above Normal	0%	0%	28%	-3%	-2%	-1%	0%	0%	0%	0%	0%	0%
Average		1%	3%	-2%	3%	0%	1%	0%	-1%	2%	11%	6%	2%
Wet		-1%	0%	-3%	-3%	-7%	3%	0%	-5%	9%	40%	20%	1%
Above Normal		5%	21%	-6%	-6%	-1%	-4%	0%	0%	-9%	-11%	-4%	-2%
Below Normal		4%	-1%	-1%	6%	10%	2%	0%	0%	0%	0%	-1%	-1%
Dry		-2%	-1%	-2%	17%	5%	3%	0%	0%	0%	2%	0%	11%
Critical		0%	2%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%









**Percent Difference in Energy Use (GWh) At Pumping Plant at System Total: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	0%	-1%	-1%	-2%	-2%	-2%	-5%	-2%	-2%
1925	Dry	-2%	-3%	-1%	-1%	-1%	-4%	0%	0%	1%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%
1927	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	1%	0%	0%	-1%	-1%	0%	0%	0%	0%	-1%	-1%
1934	Critical	-2%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	9%	-1%
1935	Below Normal	-14%	3%	3%	0%	0%	0%	-1%	-1%	-4%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	-5%	2%	10%	-1%	-2%	0%	-1%	-2%	-1%
1938	Wet	-1%	-1%	-8%	-2%	1%	-2%	1%	-17%	-5%	0%	-3%	5%
1939	Dry	-1%	0%	-2%	0%	0%	-2%	-9%	2%	23%	0%	-2%	0%
1940	Above Normal	-1%	-28%	6%	-10%	-7%	-1%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	-1%	-3%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	2%
1943	Wet	0%	-1%	0%	-3%	0%	1%	2%	0%	-1%	0%	0%	0%
1944	Dry	0%	0%	-1%	-11%	-11%	-5%	0%	0%	0%	0%	0%	0%
1945	Below Normal	-1%	-1%	-1%	0%	-5%	-8%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	3%	0%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-2%	-2%	0%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	1%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-5%	-7%	-3%	-3%	0%
1953	Wet	-5%	-5%	3%	-1%	0%	-7%	-16%	-2%	-1%	-1%	-1%	-1%
1954	Above Normal	-1%	0%	1%	5%	5%	3%	1%	1%	4%	0%	0%	0%
1955	Dry	0%	0%	0%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-7%	-10%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-2%	-2%	-2%	-29%	0%	0%	0%
1960	Dry	0%	-1%	0%	-1%	-1%	0%	0%	0%	5%	-1%	3%	-2%
1961	Dry	-1%	-1%	-1%	3%	3%	1%	0%	0%	0%	0%	1%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-2%	0%	0%	0%
1966	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	-1%	-2%	0%	0%	0%
1968	Below Normal	0%	0%	-4%	0%	0%	0%	0%	1%	1%	2%	1%	1%
1969	Wet	-2%	0%	-1%	-21%	3%	2%	-2%	2%	-1%	0%	0%	-1%
1970	Wet	0%	-1%	-1%	-1%	0%	0%	-1%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	-2%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-7%	4%	-1%	-1%	-1%	-1%	1%
1975	Wet	-1%	-1%	0%	-2%	-1%	-3%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-1%	-1%	0%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	13%	0%	2%	0%	-1%	-1%
1978	Above Normal	-2%	6%	0%	0%	-4%	-5%	-1%	2%	-2%	3%	2%	2%
1979	Below Normal	0%	-1%	-2%	-13%	-21%	-1%	13%	1%	1%	1%	0%	4%
1980	Above Normal	5%	21%	1%	-11%	2%	3%	-5%	-4%	-4%	-7%	-8%	4%
1981	Dry	-4%	-5%	-3%	2%	0%	10%	2%	2%	62%	0%	-3%	1%
1982	Wet	2%	1%	1%	0%	0%	1%	0%	-1%	-1%	0%	0%	0%
1983	Wet	-4%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	-8%	-15%	7%	0%	0%	0%	3%	-4%
1987	Dry	1%	1%	0%	0%	0%	0%	-3%	-3%	-3%	-4%	-3%	-3%
1988	Critical	-4%	-4%	-2%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-3%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1992	Critical	0%	-6%	4%	2%	0%	0%	0%	0%	0%	-1%	3%	-1%
1993	Above Normal	0%	-8%	1%	0%	0%	0%	0%	0%	-1%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	3%	-1%	0%	0%	0%	0%	-1%	-10%	-2%	0%	0%	-1%
1996	Wet	0%	-1%	0%	-46%	-33%	-17%	-2%	-3%	-2%	-2%	-2%	-1%
1997	Wet	-2%	-2%	-1%	0%	1%	-1%	1%	0%	0%	3%	0%	0%
1998	Wet	1%	-1%	0%	1%	0%	0%	0%	-4%	-3%	-3%	-3%	-3%
1999	Wet	2%	-4%	2%	0%	0%	-5%	-5%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%
2001	Dry	0%	0%	-2%	-5%	-5%	-1%	1%	1%	2%	1%	1%	1%
2002	Dry	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	5%	-3%	3%	2%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	-1%	0%	0%	0%	0%
Wet		0%	0%	-1%	-3%	-2%	-2%	-1%	-2%	-1%	0%	0%	0%
Above Normal		0%	-2%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	1%
Below Normal		-1%	0%	0%	-2%	-2%	0%	1%	0%	-2%	0%	0%	0%
Dry		0%	0%	-1%	-1%	-1%	0%	-1%	0%	5%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	1%	0%







**Percent Difference in Energy Use (GWh) At Pumping Plant at Teerink: Alternative5\_2005 minus Existing\_2005**

Year	Year Type	October	November	December	January	February	March	April	May	June	July	August	September
1922	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1923	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1924	Critical	0%	0%	0%	-2%	-1%	-1%	-2%	-2%	-2%	-2%	-2%	-2%
1925	Dry	-3%	-2%	-2%	-2%	-1%	-6%	0%	0%	0%	0%	0%	0%
1926	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1927	Wet	0%	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%
1928	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1929	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1930	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1931	Critical	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%
1932	Dry	1%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1933	Critical	0%	1%	1%	0%	0%	-1%	-1%	0%	0%	0%	-1%	-1%
1934	Critical	-2%	-3%	-2%	-2%	-1%	0%	0%	0%	0%	0%	8%	0%
1935	Below Normal	-13%	4%	4%	0%	0%	0%	-1%	-1%	-4%	0%	0%	0%
1936	Below Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	0%	0%	0%
1937	Below Normal	0%	0%	0%	0%	0%	12%	-2%	-1%	-1%	-1%	-1%	-1%
1938	Wet	-2%	-2%	-2%	0%	0%	-2%	2%	-6%	-6%	-2%	-5%	-1%
1939	Dry	-1%	-1%	-1%	0%	0%	-2%	-9%	2%	24%	0%	-2%	0%
1940	Above Normal	0%	-27%	7%	-18%	-13%	-2%	0%	0%	0%	0%	0%	0%
1941	Wet	0%	0%	0%	0%	0%	-3%	0%	0%	0%	0%	0%	0%
1942	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1943	Wet	0%	0%	0%	1%	0%	2%	2%	0%	0%	0%	0%	0%
1944	Dry	0%	0%	0%	-13%	-12%	-7%	0%	0%	0%	0%	0%	0%
1945	Below Normal	-1%	-1%	-1%	-1%	0%	-8%	0%	0%	0%	0%	0%	0%
1946	Below Normal	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1947	Dry	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1948	Below Normal	0%	0%	0%	-2%	-2%	-1%	0%	2%	-3%	0%	0%	0%
1949	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1950	Below Normal	0%	0%	0%	-3%	-3%	-1%	0%	0%	0%	0%	0%	0%
1951	Above Normal	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1952	Wet	0%	0%	0%	0%	0%	0%	0%	-4%	-4%	-4%	-5%	-4%
1953	Wet	-4%	-4%	4%	0%	0%	-7%	-17%	-2%	-1%	-1%	-1%	-1%
1954	Above Normal	0%	0%	1%	6%	6%	4%	1%	1%	4%	0%	0%	0%
1955	Dry	0%	0%	0%	1%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1956	Wet	-1%	-1%	-1%	-14%	0%	0%	0%	0%	0%	0%	0%	0%
1957	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1958	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1959	Below Normal	0%	0%	0%	0%	0%	-2%	-2%	-2%	-32%	0%	0%	0%
1960	Dry	0%	0%	0%	-1%	-1%	1%	0%	4%	-1%	3%	-2%	-2%
1961	Dry	-1%	-2%	-1%	5%	4%	2%	0%	0%	0%	1%	0%	0%
1962	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1963	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1964	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1965	Wet	0%	0%	0%	0%	0%	-1%	0%	0%	-2%	1%	1%	1%
1966	Below Normal	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1967	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1968	Below Normal	0%	0%	-6%	0%	0%	0%	2%	2%	2%	2%	2%	2%
1969	Wet	0%	-1%	-2%	-24%	0%	0%	-1%	-1%	-1%	-1%	-1%	-1%
1970	Wet	-1%	-1%	-1%	0%	0%	0%	-1%	0%	0%	0%	0%	0%
1971	Wet	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1972	Below Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1973	Above Normal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1974	Wet	0%	0%	0%	0%	0%	-4%	4%	-1%	-1%	-1%	-1%	-1%
1975	Wet	-1%	-1%	-1%	-2%	-1%	-4%	1%	1%	1%	1%	1%	1%
1976	Critical	1%	1%	1%	1%	1%	0%	-1%	-1%	-1%	-1%	0%	-1%
1977	Critical	-1%	-1%	-1%	0%	0%	0%	13%	0%	2%	0%	-2%	0%
1978	Above Normal	0%	4%	0%	0%	0%	-2%	0%	4%	3%	5%	4%	4%
1979	Below Normal	0%	0%	-3%	-17%	-26%	-3%	13%	1%	1%	1%	1%	1%
1980	Above Normal	1%	1%	1%	-4%	0%	3%	-5%	-4%	-4%	-4%	-4%	-4%
1981	Dry	-4%	-4%	-4%	2%	0%	12%	2%	2%	78%	0%	-3%	1%
1982	Wet	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1983	Wet	-7%	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	Dry	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	Wet	0%	0%	0%	0%	0%	-22%	8%	0%	0%	0%	0%	0%
1987	Dry	0%	0%	0%	0%	0%	0%	-3%	-3%	-4%	-4%	-4%	-4%
1988	Critical	-4%	-5%	-4%	-2%	-1%	0%	0%	0%	0%	0%	0%	0%
1989	Dry	0%	0%	0%	0%	0%	0%	0%	0%	-1%	0%	-3%	1%
1990	Critical	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	Critical	0%	0%	0%	0%	0%	0%	0%	-2%	0%	0%	0%	0%
1992	Critical	0%	-7%	5%	3%	0%	0%	0%	0%	0%	0%	0%	-1%
1993	Above Normal	0%	-8%	1%	0%	0%	0%	0%	0%	-2%	0%	0%	0%
1994	Critical	0%	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%
1995	Wet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	Wet	0%	0%	0%	-50%	-43%	-22%	-2%	-2%	-2%	-2%	-2%	-2%
1997	Wet	-2%	-2%	-2%	0%	0%	0%	1%	0%	0%	0%	0%	0%
1998	Wet	0%	0%	0%	1%	0%	0%	0%	-4%	-4%	-4%	-4%	-4%
1999	Wet	4%	-6%	2%	0%	0%	-6%	-5%	0%	0%	0%	0%	0%
2000	Above Normal	0%	0%	0%	0%	1%	-1%	0%	0%	0%	1%	1%	0%
2001	Dry	0%	0%	-1%	-8%	-2%	-2%	1%	1%	1%	1%	1%	1%
2002	Dry	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	Above Normal	0%	5%	-3%	6%	3%	1%	0%	0%	0%	0%	0%	0%
Average		0%	-1%	0%	-2%	-1%	-1%	0%	0%	1%	0%	0%	0%
Wet		0%	0%	0%	-3%	-2%	-3%	0%	-1%	-1%	-1%	-1%	0%
Above Normal		0%	-2%	1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
Below Normal		-1%	0%	0%	-2%	-2%	0%	1%	0%	-3%	0%	0%	0%
Dry		0%	0%	0%	-1%	-1%	0%	-1%	0%	6%	0%	0%	0%
Critical		0%	-1%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%