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To: "Andy Fecko" <AFecko@waterrights.swrcb.ca.gov>
Date: Thu, Jul 24, 2003 3:42 PM
Subject: model Cachuma shortages

Andy,

Attached are the model results for the Cachuma Project deliveries and shortages for the EIR alternatives (1, 2, 3A-C, and 4A-B) that you requested. These results already include Tecolote Tunnel infiltration, which averages about 2,000 acre-feet per year. The annual draft from the Cachuma Project is 25,714 acre-feet. All of the simulation runs reduce the Cachuma annual draft when the storage level goes below 100,000 acre-feet on May 1st and have a minimum storage level of 12,000 acre-feet in the critical drought year 1951. The model assumes the ability of perfect forecast.

Please let me know if you have any questions or need additional information.

Thank, Curtis

<<CachumaProjectShortages.xls>> <<CachumaProjectDeliveries.xls>>

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Cachuma Project Deliveries in Acre-feet - Alternative 1 (SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,597	2,925	3,549	3,369	2,597	25,517
1926	1,861	1,300	1,255	1,188	1,121	1,603	2,015	2,631	2,963	3,595	3,414	2,631	25,578
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,551	2,872	3,485	3,309	2,551	25,246
1931	1,827	1,277	1,233	1,167	1,101	1,574	1,979	2,179	2,453	2,977	2,826	2,179	22,771
1932	1,561	1,091	1,053	997	940	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,542
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1937	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,407	2,711	3,289	3,123	2,407	24,415
1950	1,725	1,205	1,164	1,101	1,039	1,485	1,867	2,093	2,357	2,860	2,716	2,093	21,706
1951	1,500	1,048	1,012	958	904	1,292	1,624	1,781	2,005	2,433	2,310	1,781	18,646
1952	1,276	891	861	815	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,878
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,570	2,894	3,512	3,334	2,570	25,360
1957	1,841	1,287	1,242	1,176	1,109	1,586	1,994	2,288	2,577	3,126	2,968	2,288	23,482
1958	1,639	1,146	1,106	1,047	988	1,412	2,041	2,631	2,963	3,595	3,414	2,631	24,613
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1962	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1966	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,510	2,826	3,429	3,255	2,510	25,008
1990	1,798	1,256	1,213	1,148	1,083	1,549	1,947	2,140	2,410	2,924	2,776	2,140	22,383
1991	1,533	1,071	1,034	979	924	1,321	1,660	2,388	2,689	3,262	3,097	2,388	22,345
1992	1,711	1,195	1,154	1,092	1,030	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,082
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,853	1,295	1,250	1,183	1,121	1,608	2,025	2,586	2,912	3,533	3,355	2,586	25,308
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Deliveries in Acre-feet - Alternative 2 (SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,585	2,911	3,532	3,353	2,585	25,445
1926	1,852	1,294	1,249	1,183	1,116	1,595	2,005	2,631	2,963	3,595	3,414	2,631	25,529
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,488	2,802	3,399	3,227	2,488	24,883
1931	1,782	1,246	1,203	1,138	1,074	1,535	1,930	1,987	2,238	2,715	2,578	1,987	21,414
1932	1,424	995	961	909	858	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,046
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,627	2,959	3,590	3,408	2,627	25,691
1937	1,882	1,315	1,270	1,202	1,134	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,704
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,287	2,576	3,125	2,967	2,287	23,722
1950	1,639	1,145	1,106	1,046	987	1,412	1,774	1,863	2,098	2,545	2,417	1,863	19,895
1951	1,335	933	901	852	804	1,150	1,445	1,466	1,651	2,003	1,901	1,466	15,906
1952	1,050	734	709	671	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,199
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,524	2,842	3,448	3,274	2,524	25,090
1957	1,808	1,263	1,220	1,155	1,089	1,557	1,958	2,141	2,411	2,926	2,778	2,141	22,448
1958	1,534	1,072	1,035	980	924	1,321	2,041	2,631	2,963	3,595	3,414	2,631	24,143
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,626	2,957	3,587	3,406	2,626	25,680
1962	1,881	1,314	1,269	1,201	1,133	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,699
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,550	2,872	3,484	3,308	2,550	25,243
1966	1,827	1,277	1,233	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,576
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,419	2,724	3,305	3,138	2,419	24,485
1990	1,733	1,211	1,169	1,107	1,044	1,493	1,877	1,923	2,166	2,628	2,495	1,923	20,769
1991	1,378	963	930	880	830	1,187	1,492	2,273	2,560	3,106	2,949	2,273	20,820
1992	1,629	1,138	1,099	1,040	981	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,786
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,837	1,284	1,240	1,174	1,114	1,601	2,017	2,565	2,888	3,504	3,327	2,565	25,115
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Deliveries in Acre-feet - Alternative 3A													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,485	2,798	3,395	3,223	2,485	24,864
1926	1,780	1,244	1,201	1,137	1,072	1,533	1,927	2,631	2,963	3,595	3,414	2,631	25,130
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,413	2,717	3,297	3,130	2,413	24,451
1931	1,729	1,208	1,167	1,104	1,042	1,489	1,872	1,838	2,069	2,511	2,384	1,838	20,250
1932	1,317	920	888	841	793	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,659
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,588	2,914	3,536	3,357	2,588	25,462
1937	1,854	1,296	1,251	1,184	1,117	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,601
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,172	2,446	2,968	2,818	2,172	23,055
1950	1,556	1,087	1,050	994	937	1,340	1,685	1,668	1,879	2,279	2,164	1,668	18,309
1951	1,195	835	806	763	720	1,030	1,294	1,253	1,411	1,713	1,626	1,253	13,901
1952	898	628	606	573	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	22,740
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,450	2,759	3,348	3,179	2,450	24,665
1957	1,755	1,227	1,184	1,121	1,058	1,512	1,901	2,017	2,271	2,756	2,617	2,017	21,436
1958	1,445	1,010	975	923	871	1,245	2,041	2,631	2,963	3,595	3,414	2,631	23,744
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,508	2,824	3,426	3,253	2,508	24,998
1962	1,797	1,256	1,212	1,147	1,082	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,394
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,415	2,719	3,300	3,133	2,415	24,461
1966	1,730	1,209	1,167	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,346
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,283	2,570	3,119	2,961	2,283	23,695
1990	1,635	1,143	1,103	1,044	985	1,409	1,771	1,710	1,926	2,337	2,218	1,710	18,991
1991	1,225	856	827	782	738	1,055	1,327	2,152	2,424	2,941	2,792	2,152	19,272
1992	1,542	1,078	1,040	985	929	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,474
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,820	1,272	1,228	1,164	1,106	1,593	2,008	2,541	2,861	3,471	3,296	2,541	24,901
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Deliveries in Acre-feet - Alternative 3B													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,540	2,861	3,471	3,295	2,540	25,187
1926	1,820	1,272	1,228	1,162	1,096	1,568	1,971	2,631	2,963	3,595	3,414	2,631	25,351
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,471	2,783	3,376	3,206	2,471	24,786
1931	1,770	1,237	1,194	1,131	1,067	1,525	1,917	1,904	2,144	2,601	2,470	1,904	20,863
1932	1,364	953	920	871	822	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,830
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,578	2,903	3,523	3,345	2,578	25,407
1937	1,847	1,291	1,246	1,180	1,113	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,577
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,221	2,501	3,034	2,881	2,221	23,337
1950	1,591	1,112	1,074	1,016	959	1,371	1,723	1,725	1,943	2,357	2,238	1,725	18,832
1951	1,236	864	834	789	745	1,065	1,338	1,310	1,475	1,789	1,699	1,310	14,452
1952	938	656	633	599	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	22,862
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,506	2,822	3,424	3,251	2,506	24,987
1957	1,795	1,255	1,211	1,146	1,081	1,546	1,944	2,076	2,338	2,837	2,694	2,076	22,000
1958	1,488	1,040	1,004	950	896	1,281	2,041	2,631	2,963	3,595	3,414	2,631	23,934
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,562	2,885	3,500	3,323	2,562	25,311
1962	1,835	1,283	1,238	1,172	1,106	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,534
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,456	2,765	3,355	3,186	2,456	24,698
1966	1,759	1,230	1,187	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,415
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,342	2,638	3,200	3,039	2,342	24,041
1990	1,678	1,173	1,132	1,072	1,011	1,445	1,817	1,777	2,001	2,427	2,305	1,777	19,614
1991	1,273	889	859	813	767	1,096	1,378	2,190	2,466	2,992	2,841	2,190	19,756
1992	1,569	1,097	1,059	1,002	945	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,572
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,827	1,277	1,233	1,168	1,109	1,596	2,012	2,550	2,872	3,484	3,308	2,550	24,986
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Deliveries in Acre-feet - Alternative 3C													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,602	2,930	3,555	3,375	2,602	25,543
1926	1,864	1,303	1,258	1,190	1,123	1,606	2,018	2,631	2,963	3,595	3,414	2,631	25,597
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,539	2,859	3,469	3,294	2,539	25,181
1931	1,819	1,271	1,227	1,162	1,096	1,567	1,970	2,014	2,268	2,752	2,613	2,014	21,772
1932	1,443	1,008	974	921	869	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,115
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,603	2,931	3,556	3,376	2,603	25,547
1937	1,865	1,303	1,258	1,191	1,123	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,639
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,324	2,617	3,175	3,014	2,324	23,932
1950	1,665	1,163	1,123	1,063	1,003	1,434	1,803	1,857	2,091	2,537	2,409	1,857	20,005
1951	1,330	930	898	850	801	1,146	1,441	1,455	1,638	1,988	1,887	1,455	15,819
1952	1,042	728	703	666	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,175
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,559	2,881	3,496	3,319	2,559	25,294
1957	1,833	1,281	1,237	1,171	1,104	1,579	1,985	2,161	2,433	2,953	2,803	2,161	22,702
1958	1,548	1,082	1,045	989	933	1,334	2,041	2,631	2,963	3,595	3,414	2,631	24,206
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,618	2,948	3,577	3,396	2,618	25,636
1962	1,876	1,311	1,265	1,198	1,130	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,679
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,504	2,820	3,421	3,248	2,504	24,977
1966	1,794	1,254	1,210	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,498
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,422	2,727	3,309	3,142	2,422	24,501
1990	1,735	1,213	1,171	1,108	1,045	1,495	1,879	1,896	2,135	2,590	2,459	1,896	20,621
1991	1,358	949	916	867	818	1,170	1,471	2,249	2,533	3,073	2,918	2,249	20,573
1992	1,612	1,126	1,087	1,029	971	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,725
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,838	1,284	1,240	1,174	1,114	1,602	2,019	2,565	2,888	3,505	3,328	2,565	25,122
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Deliveries in Acre-feet - Alternative 4A&B (SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1919	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1920	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1921	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1922	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1923	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1924	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1925	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1926	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1927	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1928	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1929	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1930	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,629	2,960	3,592	3,411	2,629	25,701
1931	1,884	1,316	1,271	1,203	1,135	1,622	2,039	2,055	2,316	2,819	2,676	2,057	22,394
1932	1,470	1,027	992	939	886	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,214
1933	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1934	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1935	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1936	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1937	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1938	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1939	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1940	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1941	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1942	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1943	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1944	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1945	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1946	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1947	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1948	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1949	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,461	2,772	3,365	3,195	2,461	24,734
1950	1,762	1,232	1,189	1,125	1,062	1,519	1,910	1,941	2,188	2,666	2,530	1,943	21,068
1951	1,388	970	937	887	836	1,198	1,508	1,483	1,674	2,049	1,944	1,487	16,363
1952	1,059	740	714	676	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	23,224
1953	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1954	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1955	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1956	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,592	2,919	3,543	3,363	2,592	25,489
1957	1,857	1,298	1,253	1,186	1,119	1,600	2,011	2,161	2,435	2,962	2,812	2,163	22,857
1958	1,547	1,081	1,044	988	932	1,334	2,041	2,631	2,963	3,595	3,414	2,631	24,201
1959	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1960	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1961	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,595	2,922	3,547	3,367	2,595	25,506
1962	1,859	1,299	1,254	1,187	1,120	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,620
1963	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1964	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1965	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,389	2,691	3,269	3,103	2,390	24,321
1966	1,711	1,195	1,154	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,300
1967	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1968	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1969	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1970	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1971	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1972	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1973	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1974	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1975	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1976	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1977	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1978	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1979	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1980	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1981	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1982	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1983	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1984	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1985	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1986	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1987	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1988	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
1989	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,438	2,746	3,334	3,166	2,438	24,601
1990	1,746	1,220	1,178	1,115	1,052	1,504	1,892	1,899	2,141	2,609	2,476	1,901	20,731
1991	1,358	949	916	867	818	1,172	1,476	2,223	2,505	3,046	2,891	2,224	20,444
1992	1,591	1,112	1,074	1,016	959	1,624	2,041	2,631	2,963	3,595	3,414	2,631	24,652
1993	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714
AVG	1,841	1,286	1,242	1,177	1,117	1,605	2,023	2,569	2,894	3,512	3,334	2,570	25,169
MEDIAN	1,885	1,317	1,272	1,204	1,136	1,624	2,041	2,631	2,963	3,595	3,414	2,631	25,714

Cachuma Project Shortages in Acre-feet - Alternative 1 (SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	34	38	47	44	34	197
1926	24	17	16	16	15	21	26	0	0	0	0	0	136
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	81	91	111	105	81	468
1931	58	41	39	37	35	50	63	453	510	618	587	453	2,943
1932	324	227	219	207	195	0	0	0	0	0	0	0	1,172
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	224	253	306	291	224	1,299
1950	161	112	108	103	97	138	174	538	606	735	698	538	4,008
1951	385	269	260	246	232	332	417	851	958	1,162	1,104	851	7,068
1952	610	426	411	389	0	0	0	0	0	0	0	0	1,836
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	61	69	84	79	61	354
1957	44	31	30	28	26	38	47	343	387	469	445	343	2,232
1958	246	172	166	157	148	212	0	0	0	0	0	0	1,101
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	122	137	167	158	122	706
1990	87	61	59	56	53	75	95	492	554	672	638	492	3,331
1991	352	246	238	225	212	303	381	244	275	333	316	244	3,369
1992	175	122	118	112	105	0	0	0	0	0	0	0	632
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	32	23	22	21	15	15	16	45	51	62	59	45	406
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0

Cachuma Project Shortages in Acre-feet - Alternative 2													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	47	52	64	60	47	269
1926	33	23	23	21	20	29	36	0	0	0	0	0	185
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	144	162	196	186	144	831
1931	103	72	69	66	62	89	111	644	725	880	835	644	4,300
1932	461	322	311	295	278	0	0	0	0	0	0	0	1,668
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	4	5	5	5	4	23
1937	3	2	2	2	2	0	0	0	0	0	0	0	10
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	344	387	470	446	344	1,992
1950	247	172	166	157	148	212	267	768	865	1,050	997	768	5,819
1951	550	385	371	352	332	474	596	1,166	1,313	1,593	1,512	1,166	9,808
1952	835	584	563	533	0	0	0	0	0	0	0	0	2,515
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	108	121	147	140	108	624
1957	77	54	52	49	47	66	84	490	552	669	636	490	3,266
1958	351	245	237	224	211	302	0	0	0	0	0	0	1,571
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	6	7	8	8	6	34
1962	4	3	3	3	3	0	0	0	0	0	0	0	15
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	81	92	111	105	81	471
1966	58	41	39	0	0	0	0	0	0	0	0	0	138
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	212	239	290	275	212	1,229
1990	152	106	103	97	92	131	165	708	797	968	919	708	4,945
1991	507	355	342	324	306	437	549	358	403	490	465	358	4,894
1992	257	179	173	164	155	0	0	0	0	0	0	0	928
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	48	33	32	30	22	23	24	67	75	91	87	67	599
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0

Cachuma Project Shortages in Acre-feet - Alternative 3A													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	147	165	200	190	147	850
1926	105	73	71	67	63	91	114	0	0	0	0	0	584
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	218	246	298	283	218	1,263
1931	156	109	105	100	94	135	169	794	894	1,084	1,030	794	5,464
1932	569	397	384	363	343	0	0	0	0	0	0	0	2,055
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	44	49	59	56	44	252
1937	31	22	21	20	19	0	0	0	0	0	0	0	113
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	459	517	627	596	459	2,659
1950	329	230	222	210	198	283	356	963	1,085	1,316	1,249	963	7,405
1951	690	482	466	441	416	594	747	1,378	1,552	1,883	1,788	1,378	11,813
1952	987	690	666	630	0	0	0	0	0	0	0	0	2,974
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	181	204	248	235	181	1,049
1957	130	91	88	83	78	112	141	614	692	839	797	614	4,278
1958	440	308	297	281	265	379	0	0	0	0	0	0	1,970
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	124	139	169	160	124	716
1962	89	62	60	57	53	0	0	0	0	0	0	0	320
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	216	244	296	281	216	1,253
1966	155	108	105	0	0	0	0	0	0	0	0	0	368
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	349	393	476	452	349	2,019
1990	250	175	169	160	151	215	271	921	1,037	1,259	1,195	921	6,723
1991	660	461	445	421	398	569	715	479	539	654	621	479	6,442
1992	343	240	232	219	207	0	0	0	0	0	0	0	1,240
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	65	45	44	40	30	31	33	91	102	124	118	91	813
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0

Cachuma Project Shortages in Acre-feet - Alternative 3B													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	91	103	124	118	91	527
1926	65	46	44	42	39	56	71	0	0	0	0	0	363
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	160	181	219	208	160	928
1931	115	80	77	73	69	99	124	728	819	994	944	728	4,851
1932	521	364	352	333	314	0	0	0	0	0	0	0	1,884
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	53	60	72	69	53	307
1937	38	27	26	24	23	0	0	0	0	0	0	0	137
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	411	462	561	533	411	2,377
1950	294	206	198	188	177	253	318	906	1,021	1,238	1,176	906	6,882
1951	649	454	438	415	391	559	703	1,322	1,488	1,806	1,715	1,322	11,262
1952	947	662	639	605	0	0	0	0	0	0	0	0	2,852
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	126	141	172	163	126	727
1957	90	63	61	57	54	78	97	555	625	758	720	555	3,714
1958	398	278	268	254	240	343	0	0	0	0	0	0	1,780
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	70	78	95	90	70	403
1962	50	35	34	32	30	0	0	0	0	0	0	0	180
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	176	198	240	228	176	1,017
1966	126	88	85	0	0	0	0	0	0	0	0	0	299
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	289	325	395	375	289	1,673
1990	207	145	140	132	125	178	224	855	963	1,168	1,109	855	6,100
1991	612	428	413	391	369	528	663	441	497	603	572	441	5,958
1992	316	221	213	202	190	0	0	0	0	0	0	0	1,142
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	58	41	39	36	27	28	29	81	92	111	106	81	728
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0

Cachuma Project Shortages in Acre-feet - Alternative 3C													
(SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	29	33	40	38	29	171
1926	21	15	14	13	13	18	23	0	0	0	0	0	117
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	92	104	126	119	92	533
1931	66	46	45	42	40	57	71	617	695	844	801	617	3,942
1932	442	309	298	282	266	0	0	0	0	0	0	0	1,599
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	29	32	39	37	29	167
1937	21	14	14	13	12	0	0	0	0	0	0	0	75
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	308	347	421	399	308	1,782
1950	221	154	149	141	133	190	239	774	872	1,058	1,005	774	5,709
1951	555	388	374	354	334	478	601	1,176	1,325	1,607	1,526	1,176	9,895
1952	843	589	569	538	0	0	0	0	0	0	0	0	2,539
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	73	82	99	94	73	420
1957	52	36	35	33	31	45	56	470	530	643	610	470	3,012
1958	337	236	227	215	203	290	0	0	0	0	0	0	1,508
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	14	15	19	18	14	78
1962	10	7	7	6	6	0	0	0	0	0	0	0	35
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	127	143	174	165	127	737
1966	91	64	62	0	0	0	0	0	0	0	0	0	216
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	209	236	286	272	209	1,213
1990	150	105	101	96	90	129	162	736	828	1,005	954	736	5,093
1991	527	368	356	337	317	454	571	382	430	522	495	382	5,141
1992	274	191	185	175	165	0	0	0	0	0	0	0	989
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	47	33	32	30	21	22	23	66	75	91	86	66	592
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0

Cachuma Project Shortages in Acre-feet - Alternative 4A&B (SYRHM simulation 1918-1993)													
Water													
Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SUM
1918	0	0	0	0	0	0	0	0	0	0	0	0	0
1919	0	0	0	0	0	0	0	0	0	0	0	0	0
1920	0	0	0	0	0	0	0	0	0	0	0	0	0
1921	0	0	0	0	0	0	0	0	0	0	0	0	0
1922	0	0	0	0	0	0	0	0	0	0	0	0	0
1923	0	0	0	0	0	0	0	0	0	0	0	0	0
1924	0	0	0	0	0	0	0	0	0	0	0	0	0
1925	0	0	0	0	0	0	0	0	0	0	0	0	0
1926	0	0	0	0	0	0	0	0	0	0	0	0	0
1927	0	0	0	0	0	0	0	0	0	0	0	0	0
1928	0	0	0	0	0	0	0	0	0	0	0	0	0
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	2	3	3	3	2	13
1931	2	1	1	1	1	1	2	576	647	776	737	575	3,320
1932	415	290	280	265	250	0	0	0	0	0	0	0	1,500
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	171	192	230	218	170	980
1950	123	86	83	78	74	105	132	690	775	929	883	688	4,646
1951	497	347	335	317	299	426	533	1,148	1,289	1,546	1,469	1,144	9,351
1952	827	578	558	528	0	0	0	0	0	0	0	0	2,490
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	39	44	53	50	39	225
1957	28	20	19	18	17	24	30	470	528	633	601	469	2,857
1958	338	236	228	216	204	290	0	0	0	0	0	0	1,513
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	36	41	49	46	36	208
1962	26	18	18	17	16	0	0	0	0	0	0	0	94
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	242	272	326	310	242	1,393
1966	175	122	118	0	0	0	0	0	0	0	0	0	414
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	194	217	261	248	193	1,113
1990	139	97	94	89	84	120	150	733	822	987	938	730	4,983
1991	528	369	356	337	318	452	566	408	458	550	522	407	5,270
1992	294	205	198	188	177	0	0	0	0	0	0	0	1,062
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG	45	31	30	27	19	19	19	62	70	83	79	62	545
MEDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0