



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION IX
 75 Hawthorne Street
 San Francisco, CA 94105

356

August 17, 1994

Mr. George W. Barnes, Jr.
 Division of Planning
 Dept. of Water Resources
 P.O. Box 942836
 Sacramento, CA 93236-0001

Dear Mr. Barnes:

We are writing to request an additional DWRSIM model run to estimate water costs of EPA's proposed standards. This run is necessary in order to provide information on the costs of the alternative salmon smolt survival standards. We recognize that you are now capable of using a mixed demand level, however a run at 6 MAF export demand level is our highest priority for comparison purposes. We are also interested in the run at the mixed demand level that the State Board is requesting.

Our request is for a re-run of study 2b (68LOD + NMFS + salmon) with salmon measures modified as outlined in the enclosed table. A run including these alternative salmon measures + NMFS without X2 would also be very useful to us. We would like to have the pulse flow requirement at Vernalis solely on New Melones before any other river systems share requirements. If you have information regarding senior water rights water, please do not affect senior water rights water in New Melones.

Please do not hesitate to call me at (415) 744-1991 if you have any questions. We very much appreciate your continuing help.

Sincerely,
Susan Hatfield
 Susan Hatfield
 Bay-Delta Section

cc: Tom Howard, SWRCB

Post-It™ brand fax transmittal memo 7671		# of pages	4
To	Tom Howard	From	S. Hatfield
Co.	SWRCB	Co.	EPA
Dept.		Phone #	415-744-1991
Fax #	916-657-1485	Fax #	

Salmon Implementation for DWRSIM run requested 8/17/94
Years are defined by 60-20-20 San Joaquin Water Year Index

Exports in cfs 4/1 to 4/15 and 5/16 to 5/31

years ≤ 2.5 MAF	$1191.13 + 964.08 * WYIND$ in MAF
years < 3.8 MAF > 2.5 MAF	$13.79 + 1432.41 * WYIND$ in MAF
years ≥ 3.8 MAF	6000 cfs

Exports 4/15 to 5/15 1500 cfs

Exports 6/1 to 6/30

years ≤ 2.8 MAF	4000 cfs
years < 3.8 MAF > 2.8 MAF	$13.79 + 1432.41 * WYIND$ in MAF
years ≥ 3.8 MAF	6000 cfs

Vernalis flows in cfs 4/15 to 5/15

years ≤ 2.5 MAF	$832.52 + 1749.08 * WYINDEX$ in MAF
years < 4.2 MAF > 2.5 MAF	$-1972.43 + 2864.82 * WYINDEX$ in MAF
years ≥ 4.2 MAF	10000

3.08	BN	1918	4426	6851
3.073	BN	1962	4416	6831
3.025	BN	1953	4347	6694
3.008	BN	1957	4322	6645
2.929	BN	1925	4209	6419
2.886	BN	1971	4148	6295
2.854	BN	1950	4102	6204
2.763	BN	1944	3972	5943
2.72	BN	1954	3910	5820
2.698	BN	1948	3878	5757
2.642	BN	1920	3798	5596
2.632	BN	1928	3784	5568
2.62	BN	1919	3767	5533
2.549	BN	1912	3665	5330
2.533	BN	1949	3642	5284
2.514	BN	1966	3615	5230
2.442	D	1981	3545	5104
2.441	D	1933	3544	5102
2.404	D	1985	3509	5037
2.396	D	1908	3501	5023
2.3	D	1926	3408	4855
2.3	D	1955	3408	4855
2.215	D	1968	3326	4707
2.209	D	1959	3321	4696
2.199	D	1939	3311	4679
2.187	D	1964	3299	4658
2.183	D	1947	3296	4651
2.159	D	1972	3272	4609
2.016	C	1930	3135	4359
2.005	C	1929	3124	4339
2.002	C	1913	3121	4334
1.964	C	1989	3084	4268
1.955	C	1991	3076	4252
1.861	C	1987	2985	4087
1.854	C	1960	2978	4075
1.568	C	1976	2703	3575
1.558	C	1992	2693	3557
1.514	C	1990	2651	3481
1.476	C	1988	2614	3414
1.44	C	1934	2579	3351
1.42	C	1924	2560	3316
1.375	C	1961	2517	3237
1.201	C	1931	2349	2933
0.839	C	1977	2000	2300

IMPLEMENTATION FOR SAN JOAQUIN SALMON SMOLT
SURVIVAL SLIDING SCALE

wyind	Class	Year	TOTAL VERNALIS	
			EXPORTS 4/1-4/15 & 5/16-5/31	FLows 4/15-5/15
7.22	W	1983	6000	10000
6.695	W	1906	6000	10000
6.198	W	1907	6000	10000
6.095	W	1969	6000	10000
5.968	W	1911	6000	10000
5.895	W	1938	6000	10000
5.446	W	1982	6000	10000
5.252	W	1967	6000	10000
5.165	W	1952	6000	10000
4.773	W	1958	6000	10000
4.73	W	1980	6000	10000
4.653	W	1916	6000	10000
4.593	W	1909	6000	10000
4.583	W	1978	6000	10000
4.544	W	1922	6000	10000
4.463	W	1956	6000	10000
4.441	W	1942	6000	10000
4.426	W	1941	6000	10000
4.348	W	1914	6000	10000
4.306	W	1986	6000	10000
4.161	W	1993	6000	9948
4.134	W	1917	6000	9871
4.098	W	1915	6000	9768
4.028	W	1943	6000	9567
3.903	W	1974	6000	9209
3.898	W	1937	6000	9195
3.846	W	1975	6000	9046
3.812	W	1965	6000	8948
3.74	AN	1936	5371	8742
3.689	AN	1984	5298	8596
3.689	AN	1979	5269	8539
3.647	AN	1910	5238	8476
3.59	AN	1945	5156	8312
3.573	AN	1963	5132	8264
3.559	AN	1927	5112	8223
3.557	AN	1935	5109	8218
3.55	AN	1923	5099	8198
3.495	AN	1973	5020	8040
3.41	AN	1932	4898	7797
3.364	AN	1940	4832	7665
3.305	AN	1946	4748	7496
3.226	AN	1921	4635	7269
3.183	AN	1970	4573	7146
3.139	AN	1951	4510	7020