

Delta Endangered Species Criteria

February 15, 1994 - February 14, 1995

CRITERIA	1995			1994								
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Maximum Combined SWP/CVP Exports (cfs)	Conditional [A]			Conditional [A]								
	Conditional [D]											
	Conditional [E]											
North Bay Aqueduct Exports	Conditional [E]											
	Conditional [E]											
Minimum Daily Delta Outflow	6800-12000 cfs [F]											
	3500 cfs min.											
	Conditional [E]											
Delta Cross-Channel Closed	Conditional [B]			Conditional [B]								
	Closed			Conditional [B]								
	Conditional [B]											
San Joaquin River @ QWEST Minimum Flow (cfs) (14-day run. avg)	-2000 cfs [C]			-2000 cfs [C]								
	0 cfs [C]			0 cfs [C]								
	Conditional [G]											
San Joaquin River @ Vernalis Flow (cfs)	Conditional [B]											
	Conditional [G]											

LEGEND

NMFS Biological Opinion for Winter-Run Salmon



USFWS Biological Opinion for Delta Smelt



[*] See Attached Notes

NMFS Biological Opinion for Winter-Run Salmon February 12, 1993

- [A] Export reductions as necessary to comply with 1% take limit (limit is 905 smolts in 1994).
- [B] Cross Channel closure based on real time monitoring for presence of winter-run salmon from Oct 1 - Jan 31.
- [C] 7-day running average can not be more than 1000 cfs less than applicable standard.

USFWS Biological Opinion for Delta Smelt for 1994 February 4, 1994

[D] If 14-day running average of estimated combined SWP/CVP salvage exceeds values calculated below, modify operations to restore 14-day average. Take limits are:

	Wet, Above Normal, Below Normal	Dry, Critical	Likely 1994 Limit
Dec, Jan	1) 100 if FMTI is between 0 and 250; 2) 200 if preceding FMTI is between 250 and 500; 3) 300 if between 500 and 1000; 4) 400 if between 1000 and 1500; 5) 500 if greater than 1500	1) 100 if FMTI is between 0 and 250; 2) 200 if preceding FMTI is between 250 and 500; 3) 300 if between 500 and 1000; 4) 400 if between 1000 and 1500; 5) 500 if greater than 1500	[400]
Feb, Mar	Fall midwater trawl index (Latest Available) x 0.7	Fall midwater trawl index (Latest Available) x 0.7	[755]
Apr, May, Jun	Prev. year's FMTI x 0.7 (may not be greater than 755) or 600 (use greater)	Prev. year's FMTI x 0.7 (may not be greater than 755) or 400 (use greater)	[755]
July	Prev. year's FMTI or 600 (use greater). If this year's summer townet survey is less than mean of wet, above normal & below normal years, then use lesser value	Prev. year's FMTI or 300 (use lesser). If this year's summer townet survey is greater than mean for dry and critical dry years, then use greater value	[1078 or 300]
Aug	Prev. year's FMTI or 300 (use greater). If this year's summer townet survey is less than mean of wet, above normal & below normal years, then use lesser value	Prev. year's FMTI or 200 (use lesser). If this year's summer townet survey is greater than mean for dry and critical dry years, then use greater value	[1078 or 200]
Sep, Oct, Nov	The lesser value of: 1) Prev. year's FMTI, or 2) Latest value for this year's FMTI, but 3) >100	The greater value of: 1) 100 2) Latest value for this year's FMTI	conditional [>100]

FMTI - Fall Midwater Trawl Index

[E] When monitoring indicates the presence of Delta Smelt juveniles and larvae, diversions from Barker Slough shall be reduced within 48 hours to a 3-day running average rate of 65 cfs (to be maintained for a minimum of 2 weeks).

[F] Minimum Daily Delta Outflow for specified number of days between Feb 1 and June 30. Counting of days begins after 2 ppt downstream of Collinsville.

Year Type	At or above 12,000 cfs	At or above 6,800 cfs
Wet	150 days	150 days
Above Normal	150 days	150 days
Below Normal	85 days	114 days
Dry	64 days	109 days
Critical*	18 days	40 days

[G] Minimum required San Joaquin River flow component of Delta Outflow, Feb 1 - June 30:

Year Type	Vernalls Component
Wet	2,000 cfs
Above Normal	2,000 cfs
Below Normal	1,500 cfs
Dry	1,200 cfs
Critical	800 cfs

[H] 30-day average San Joaquin Transport Flows depending on monitoring results.

Year Type	Vernalls Transport Flow
Wet	5,200 cfs
Above Normal	3,600 cfs
Below Normal	3,200 cfs
Dry	2,600 cfs
Critical	2,400 cfs

* In critical dry years, counting of the required 18 days at 12,000 cfs may precede placement of the 2 ppt isohaline at Collinsville. 6,800 cfs outflow is required for a minimum of 40 days starting between April 1 and June 30 (after placement of 2 ppt isohaline).