

Bay-Delta Objectives Exceedance Metrics

(Joint SWP/CVP responsibility)¹

D-1485	FLOW/OPERATIONAL										WATER QUALITY STANDARDS															
	Fish and Wildlife										Municipal & Industrial								Agriculture							
	Export Limits		Delta Outflow @ Chipps for Bass Spawning		Delta Outflow @ Chipps for Bass Survival		Delta Outflow @ Chipps for Suisun Marsh		Rio Vista for Salmon migration		CCF @ West Canal		DMC @ Tracy PP		Contra Costa Canal PP#1		CCC PP#1 or SJR @ Antioch Intake		Western / Interior Delta							
Emmaton on Sac																			Jersey Pt. on SJR		Terminous on Moke.		San Andreas on SJR			
Calendar Year	May 1-Jun 30 Monthly Avg <= 3000 cfs July 1-31 Monthly Avg <= 4600 cfs		Apr 1-Apr 14 md >=6700 cfs		May 6-Jul 31 Outflow Index >= Varies by Month and Hydro Conditions		Jan 1-May 31 Outflow Index >= Varies by Month and Hydro Conditions		Jan 1-Dec 31 30-day avg >= Varies by Month and WY Type		Jan 1-Dec 31 md Cl <= 250 mg/L		Jan 1-Dec 31 md Cl <= 250 mg/L		Jan 1-Dec 31 md Cl <= 250 mg/L		Jan 1-Dec 31 md Cl <= 150 mg/L (no. of days varies by WY type)		Apr 1- Varies by WY 14-day avg <= 0.45 mmhos Varies by WY-Aug 15 14-day avg <= Varies by WY		Apr 1- Varies by WY 14-day avg <= 0.45 mmhos Varies by WY-Aug 15 14-day avg <= Varies by WY		Apr 1- Aug 15 14-day avg <= 0.45 mmhos Except Critical WY 14-day avg <= 0.54 mmhos		Apr 1- Varies by WY 14-day avg <= 0.45 mmhos Varies by WY-Aug 15 14-day avg <= Varies by WY	
	No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days	
		Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd
1978	0	0	0	0	0	0	0	0	153	0	153	0	153	0	153	0	153	0	15	0	15	0	15	0	15	0
1979	92	61	14	0	87	0	151	0	365	0	365	0	365	0	365	0	175	0	137	0	137	0	137	0	137	0
1980	92	0	14	0	87	0	152	0	366	0	366	0	366	0	366	0	190	0	137	0	137	0	137	0	137	0
1981	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	165	0	137	7	137	1	137	0	137	0
1982	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	240	0	137	0	137	0	137	0	137	0
1983	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	240	0	137	0	137	0	137	0	137	0
1984	92	0	14	0	87	0	152	0	366	0	366	0	366	0	366	0	240	0	137	0	137	0	137	0	137	0
1985	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	165	0	137	4	137	0	137	0	137	0
1986	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	240	0	137	0	137	0	137	0	137	0
1987	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	1	165	0	137	0	137	0	137	0	137	0
1988	92	0	14	0	87	0	152	0	366	0	366	0	366	0	366	0	155	0	137	0	137	0	137	0	137	0
1989	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	5	165	0	137	3	137	13	137	0	137	0
1990	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	11	155	0	137	7	137	0	137	0	137	0
1991	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	12	155	0	137	0	137	0	137	0	137	0
1992	92	0	14	0	87	0	152	0	366	0	366	0	366	0	366	0	155	0	137	60	137	0	137	0	137	0
1993	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	190	0	137	0	137	0	137	0	137	0
1994	92	0	14	0	87	0	151	0	365	0	365	0	365	0	365	0	155	0	137	0	137	0	137	0	137	0
Subtotal	1,472	61	224	0	1,392	0	2,420	0	5,997	0	5,997	0	5,997	0	5,997	29	3,103	0	2,207	81	2,207	14	2,207	0	2,207	0

Footnotes: ¹ This analysis only considers those standards for which both Projects (SWP and CVP) are jointly responsible. It does NOT include those standards for which only one Project is operationally responsible, e.g. Vernalis standards.

Bay-Delta Objectives Exceedance Metrics

(Joint SWP/CVP responsibility)¹

D-1485	WATER QUALITY STANDARDS (CONTINUED)																						Total No. of Days Standards are Required	Total No. of Days Standards are Exceeded
	Fish & Wildlife																							
	Striped Bass Spawning				Suisun Marsh																			
	Prisoners Pt.		Antioch Intake		Chipps @ O&A Ferry		Collinsville		Miens Landing @ Mont. Sl.		Mont. Sl. @ Cutoff Sl.		Mont. Sl near mouth		Suisun Sl. near Voltani		Suisun Sl. near mouth		Goodyear Sl. near Pierce Harbor		Cordelia Sl. abv S.P.R.R.			
Calendar Year	Apr 1-May 5 md EC <= 0.55 mmhos		Apr 15-May 5 md EC <= 1.5 mmhos ²		Jan 1-May31; Oct 1-Dec 31 28-day avg <= 12.5 mmhos		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month		Oct 1-May 31 Monthly Avg <= Varies by Month			
	No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days		No. of Days			
	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed	Req'd	Exceed		
1978	0	0	0	0	92	0	92	0	92	0	92	0	92	0	92	0	92	0	92	0	92	0	1,653	0
1979	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,770	61
1980	35	0	21	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	4,799	0
1981	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,760	8
1982	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,835	0
1983	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,835	0
1984	35	0	21	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	4,849	0
1985	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,760	4
1986	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,835	0
1987	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,760	1
1988	35	0	21	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	4,764	0
1989	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,760	21
1990	35	0	21	0	243	0	243	0	243	0	243	30	243	0	243	0	243	0	243	0	243	0	4,750	48
1991	35	0	21	0	243	50	243	28	243	28	243	59	243	0	243	0	243	0	243	0	243	0	4,750	177
1992	35	0	21	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	244	0	4,764	60
1993	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,785	0
1994	35	0	21	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	243	0	4,750	0
Subtotal	560	0	336	0	3,984	50	3,984	28	3,984	28	3,984	89	3,984	0	3,984	0	3,984	0	3,984	0	3,984	0	78,179	380

Footnotes: ¹ This analysis only considers those standards for which both Projects (SWP and CVP) are jointly responsible. It does NOT include those standards for which only one Project is operationally responsible, e.g. Vernalis standards.

² A Relaxation Provision is included in D-1485 allowing the replacement of the standard whenever the Projects impose deficiencies in firm supplies, which are defined on page 40 (footnote 5).

Percent of Time Exceeding D-1485 Objectives =

0.5%