		Current Delta Flow Performance and/or Criteria	Delta Flow Criteria Recommendations, 2010						
Location for Flow Criterion	Ecosystem Function	D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	C-WIN/CSPA (C-WIN, Exhibit 2, Table 4, pp. 30-34; CSPA Exhibit 6)		
					mmendations are compa tion submitted as testim				
Delta Outflows at Chipps Island	Estuarine Habitat Expansion, Invasive Species Suppression	From February through June, Net Delta Outflow is governed by X2 position modulated by number of days at a given position between Chipps Island and Port Chicago. X2 was equally likely to be under or over 80 km from the Golden Gate (near Collinsville, east of Chipps Island). X2 was likely to be east of 71 km location (west of Chipps Island) 80 percent of the time. (UC Davis Experts, Figure 8, p. 13) In July net Delta outflow could range from 4,000 to 8,000 cfs by water year type; in August 3,000 to 4,000 cfs; in September 3,000 cfs in all years; in October 4,000 cfs in all years, except 3,000 in critical years; and in November through January, 4,500 cfs in all years except critical years in November and December.	Egeria suppression flows of 8,000 cfs from August through September for 3 driest of every 10 years; and <i>Corbula</i> clam suppression flows of 120,000 cfs from February through April in 3 of every 10 years.	In three 1992 alternative scenarios, DFG presented April through July mean Delta outflows ranging from 4,500 cfs to 6,700 cfs in critical years, to 29,000 cfs to 43,000 cfs in wet years. DFG presented August through December outflows ranging from 3,700 cfs in critical years to 14,300 cfs in wet years. They also presented February Delta outflows ranging from 8,000 cfs in critical years to 93,500 cfs in wet years; and for March Delta outflows ranging from 7,200 cfs in critical years to 74,300 cfs in wet years. (WRINT-DFG Exhibit 8, 1992)	when fish abundance cohabited with some export activity. (USDOI, p. 48)	Outflows in January through June period should exceed 6.3 MAF in at least 8 of 10 years; exceed 13.5 MAF in half of years; and exceed 20 MAF in at least one-third of years. Outflows of less than 3.2 MAF should occur in no more than 1 of every 20 years (TBI, Exhibit 2, p. 25); fall Delta outflows (September through November) should be no less than 5,750 cfs in all years; no less than 7,500 cfs in dry years; no less than 9,700 cfs in below normal years; no less than 12,400 cfs in above normal years; and no less than 16,100 cfs in wet years to protect abundance and spatial extent of public trust resources. (TBI, Exhibit 2, p. 35)	(wet); April 1 through July 31 would range from averages of 6,700 cfs (critical) to 43,000 cfs (wet); and from August 1 through January 31 would range from averages of 4,100 cfs (critical) to		
X2 and/or San Joaquin River at Jersey Point	Estuarine Salinity Regulation and Habitat Expansion and Variability	X2 was equally likely to be under or over 80 km from the Golden Gate (near Collinsville, east of Chipps Island). X2 was likely to be east of 71 km location (west of Chipps Island) 80 percent of the time. (UC Davis Experts, Figure 8, p. 13)	None offered; however, historically under unimpaired flows, X2 was "equally likely to be upstream or downstream of the 71 km location [west of Chipps Island in Suisun Bay]" (Figure 8, p. 13).	DFG recommended in its Exhibit 2 a composite estuarine indicator that incorporates X2, unimpaired runoff, sediment, mysid shrimp density which indicates a downward trend since the mid-1960s after which State Water Project exports began. (DFG Exhibit 2, pages 1-4 (including Table 1) 6, 13).	Move X2 westward in fall to increase quality and quarity of suitable Delta smelt habitat, reduce risk of pump entrainment. (USDOI, p. 46)	Average monthly X2 values for September through November should be less than 83 km from Golden Gate in all years; < 80 km in dry years; < 77 km in below normal years; < 74 km in above normal years; and < 71 km in wet years. (TBI, Exhibit 2, Table 1, p. 35)	Average 14-day running average position of X2 measured 1 meter from channel bottom, expressed in kilometers from the Golden Gate: Feb 1 through March 31: 51 km (wet) to 79 (critical); April 1 through July 31: 54 km (wet) to 83 (critical); August 1 through January 31: 50 km (wet) to 90 km (critical). (C-WIN, Exhibit 2, Table 4, p. 33)		

	Ecosystem Function	Current Delta Flow Performance and/or Criteria	Delta Flow Criteria Recommendations, 2010							
Location for Flow Criterion		D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	C-WIN/CSPA (C-WIN, Exhibit 2, Table 4, pp. 30-34; CSPA Exhibit 6)			
			DISCLAIMER: These Delta flow criteria recommendations are compared here for illustrative purposes only. For full descriptions, see the original narrative information submitted as testimony to the State Water Resources Control Board.							
	Base Flows	Base flows at Rio Vista established only for Sept through Dec all years, ranging from 3,000 cfs in critical years to 4,500 cfs in non-critical years.	10,000 cfs in all months in all years				6,000 cfs February 1 through October 30 in all years measured at Rio Vista.			
	Pulse Flows for adult salmon		10,000 cfs from October through June, 6 of 10 years							
Sacramento Valley Outflows	Pulse flows for juvenile salmon and smolt migration		25,000 cfs from March through June, 6 of 10 years	Maximum survival of salmon smolts was observed at or above 20,000 to 30,000 cfs. Flows are important for Chinook salmon smolts from November through June, with the greatest need for flows occuring in May.	Provide flows that mimic natural hydrograph. Smolt survival is maximized between 20,000 and 30,000 cfs flow at Rio Vista in spring months. (USDOI, p. 57)		30,000 cfs April 1 through June 30 in all years, from Freeport to Chipps Island.			
	Pulse flows for adult sturgeon migration		70,000 cfs from January through May, 1 year in 10	Increased early spring Delta and river flows would likely increase attraction and successful migration of adult green sturgeon and white sturgeon, both of which are presumed to spawn in the mainstem Sacramento River.						
	Suppression Flows for Corbula amurensis		120,000 cfs from February through April, 3 years of 10							

		Current Delta Flow Performance and/or Criteria		Delta Flow Criteria Recommendations, 2010						
Location for Flow Criterion	Ecosystem Function	D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	C-WIN/CSPA (C-WIN, Exhibit 2, Table 4, pp. 30-34; CSPA Exhibit 6)			
			DISCLAIMER: These Delta flow criteria recommendations are compared here for illustrative purposes only. For full descriptions, see the original narrative information submitted as testimony to the State Water Resources Control Board.							
Old River from Head of Old River to Downstream Confluence with San Joaquin River	Maintain salmonid outmigration corridor						2,000 cfs from March 15 through May 15.			
Old and Middle River	Flow Direction, Entrainment Prevention and Provision of Migration Corridors	Historically, under unimpaired flows, net OMR flows > 0 cfs occurred only about 8 percent of the time. (UC Davis Experts, Figure 9, p. 15, point B)	None offered; however, historically under unimpaired flows, net OMR flows > 0 about 84 percent of the time.	DFG reports that "increased flow into the south Delta increases survival by reducing the effects of these various mortality factors"; that is, of Port of Stockton ship traffic (DWSC) and entrainment at the export pumps. DFG Exhibit 3, p. 14.	Inverse relation between OMR flows and Delta smelt and other fish salvage at pumps. State Water Board should develop criteria for OMR positive net flows (flows > 0 cfs) in January through June to protect public trust resources. (USDOI, p. 53)	Base net OMR flows of > -2,000 cfs from October through June; adjusted as follows: in December through February in all year types, net OMR flows should be > -1,500 cfs, and > -1,500 cfs in critical years in March as well; positive net OMR flows > 0 cfs from March through May in all years except for March in critical years; and > -1,500 cfs in June of all years. (TBI, Exhibit 4, Table 1, p. 30)	Base positive net OMR flow of 2,000 cfs March 15, through May 15 in all years. Pulse flows derived from San Joaquin Valley outflows (see below).			
San Joaquin Valley Outflows	Pulse Flows to All Attract Years Adult Spawning Salmonids		2,000 cfs in all months of all years.		1,000 cfs pulse flow for 10 days in mid-October needed to maintain high levels of gamete viability in migrating salmon and to minimize straying to the Sacramento River watershed during periods of high exports (i.e., exports no more than 300% of Vernalis flow). USFWS, 2005, p. 12.	July through February in all years, 2,000 cfs (TBI, Exhibit 3, p. 28)	5,400 cfs on the San Joaquin River at Vernalis, with each major tributary contributing 1,200 cfs at their confluences with the San Joaquin River from October 20 to October 29.			

			Performar	Delta Flow nce and/or reria		Delta Flo	w Criteria R	ecommenda	tions, 2010				
Location for Flow Criterion	Ecosystem Function		D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)		UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	Interior (US	tment of the 5 DOI, unless se noted)	Bay Institute (Exhibits 2, 3, and 4)	Exhibit 2, ⁻	PA (C-WIN, Table 4, pp. PA Exhibit 6)		
					DISCLAIMER: These Delta flow criteria recommendations are compared here for illustrative purposes only. For full descriptions, see the original narrative information submitted as testimony to the State Water Resources Control Board.								
San Joaquin Valley Outflows	Wet Years	Pulse Flows for Temp Control, Habitat	Non-VAMP Flow Dates - Feb 1 - April 14; May 16 - June 30 (Higher flow to move X2	ow DatesVAMP FlowFeb 1 -Dates -oril 14;April 15ay 16 -throughine 30May 15ligher flow(Higher flowmove X2to move X2est ofwest ofhippsChippsland)Island)130 or7,330 or	20,000 cfs from April through June, 2 years of every 10	15,000 cfs for 70 days in VAMP-like spring period. Pulse flows based on DFG's San Joaquin River modeling program. DFG's model projects a 191 percent increase in Chipps Island smolt			April through mid-May,	Combined flow releases for Stanislaus, Tuolumne Merced and San Joaquir Rivers, plus other accretions and inflows, measured in cfs at Vernalis.** Feb 15 to March 15 flows for rearing habitat in floodplains would call for 13,400 cfs for 17 days and 26,800 cfs for 5 days.			
		Inundation and Migration	Chipps Island)				Month	Flow (cfs)	0	March 15 - 31	13,400		
		Migration	2,130 or			projected escapement later.	February	6,600		April 1-15	13,400		
			3,420 cfs			later.	March	13,200		April 16-20	13,400		
							April	15,600		April 21-30	13,400		
							May	25,900		May 1-15	13,400		
							USFWS, 20	05, p. 10.		May 16- June 15	14,900		
		Pulse	Non-VAMP Flow Dates	VAMP Flow Dates						Date	Combined San Joaquin Valley Flows		
			2,130 or 3,420 cfs	5,730 or 7,020 cfs		10,000 cfs for 60 days in VAMP-like spring period. Pulse flows based on		ows for San Joaquin s, other	Late March, 5,000 cfs; April, 20,000 cfs; May, 7,000 cfs; June, 2,000	February 15 - March 15	13,400 for 13 days; 26,800 for 5 days		
San Joaquin	Above	Flows for Temp			15,000 cfs from April	DFG's San Joaquin River modeling program.				March 15 - 31	4,500		
Valley	Norm	Control, Habitat			through mid-June, 4 years of every 10	DFG's model projects a 102 percent increase in	Month	Flow (cfs)	cfs. Flow regime recommended for 40	Amuil 1 15	6 700		
Outflows	Years	Inundation			years of every 10	Chipps Island smolt	February		percent of all years (TBI,	April 1-15	6,700		
		and Migration				abundance, and a 58 percent increase in	March	7,700	$\Gamma_{1}(h;h;h;h;h;h;h;h;h;h;h;h;h;h;h;h;h;h;h;$	April 16-20	8,900		
		mgration				projected escapement	April	12,200	-	April 21-30	8,900		
						later.	May	20,500		May 1-15	11,200		
							USFWS, 20	05, p. 10.		May 16- June 15	1,200		

	Ecosystem Function		Performa	Delta Flow nce and/or teria		Delta Flo	w Criteria F	lecommenda	tions, 2010			
Location for Flow Criterion			-		UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	Interior (US	tment of the 5 DOI, unless ise noted)	Bay Institute (Exhibits 2, 3, and 4)	Exhibit 2,	PA (C-WIN, Table 4, pp. PA Exhibit 6)	
						e Delta flow criteria reco riginal narrative informat						
			Non-VAMP Flow Dates	VAMP Flow Dates			Average mo doubling flo	ows for			Combined	
San Joaquin Valley Outflows	Below Norm Years		1.420 or 4.620 or		8 E00 of a for E0 days in	combined San Joaquin Valley rivers, other inflows and accretions. (USFWS, 2005, p. 10.)			Date	San Joaquin Valley Flows		
			Pulse 2,2 Flows for Temp Control,	2,280 cfs	5,480 cfs	s Pulse flows based on DFG's San Joaquin River modeling program. DFG's model projects a 10,000 cfs from April through May in 6 years	Month	Flow (cfs)	March, 2,000 cfs; early April 20,000 cfs; late April, 10,000 cfs; early May 7,000 cfs; late May 5,000 cfs; June 2,000	February 15 - March 15	13,400 for 16 days; 26,800 for 2 days	
		Habitat Inundation			of every 10	106 percent increase in Chipps Island smolt abundance, and a 60			cfs. Flow regime recommended for 60	March 15 - 31	4,500	
		and Migration				percent increase in	February	2,700	-	April 1-15	6,700	
		wigration				projected escapement	March	5,200		April 16-20	8,900	
						later.	April	10,000		April 21-30	8,900	
							Мау	14,800		May 1-15	11,200	
							USFWS, 20	05, p. 10.		May 16- June 15	1,200	
		Pulse	Non-VAMP Flow Dates	VAMP Flow Dates	_		Average monthly fish doubling flows for combined San Joaquin Valley rivers, other			Date	Combined San Joaquin Valley Flows	
			1,420 or	4,020 or						February 15 - March 15	13,400 for 2 days	
			2,280 cfs	VAMP-like spring period.	inflows and accretions. (USFWS, 2005, p. 10.)		March 2,000 cfs; early	March 15 - 31	4,500			
San Joaquin	Dry	Flows for Temp Control.			7,000 cfs from April	Pulse flows based on DFG's San Joaquin River modeling program. M DFG's model projects a	Month	Flow (cfs)	April 5,000 cfs; late April 10,000 cfs; early May 7,000 cfs; late May	April 1-15	6,700	
Valley Outflows	Years	Habitat Inundation			through mid-May in 8 years of every 10	60 percent increase in Chipps Island smolt	February	2,700	5,000 cfs; June 2,000 ofs. Flow regime recommended for 80 percent of all years (TBI, Exhibit 3, p. 28)	· •	-,	
		and Migration				abundance, and a 36 percent increase in projected escapement	March	4,700		April 16-20	8,900	
							later.	April	8,800	00	April 21-30	1,200
							Мау	11,600		May 1-6/15	1,200	

	Ecosystem Function		Performar	Delta Flow nce and/or eria	Delta Flow Criteria Recommendations, 2010							
Location for Flow Criterion					UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	Interior (U	tment of the S DOI, unless ise noted)	Bay Institute (Exhibits 2, 3, and 4)	Exhibit 2,	PA (C-WIN, Table 4, pp. PA Exhibit 6)	
						e Delta flow criteria reco riginal narrative informat						
	Critic Dry Years	Pulse Flows for Temp Control, Dry	Non-VAMP Flow Dates	VAMP Flow Dates	5,000 cfs in the month of	7,000 cfs for 31 days in VAMP-like spring period. Pulse flows based on DFG's San Joaquin River modeling program. DFG's model projects a 59 percent increase in Chipps Island smolt abundance and a 36	Average modeling float			Date	Combined San Joaquin Valley Flows	
			710 or 1,140				combined San Joaquin Valley rivers, other		March 2,000 cfs; April through May, 5,000 cfs; June 2,000 cfs. Minimum flow regime	February 15 - March 15	13,400 for 2 days	
San Joaquin Valley			cfs 3,54	3,540 cfs						March 15 - 31	4,500	
Outflows					year.		Month	Flow (cfs)		April 1-15	6,700	
		And Migration				percent increase in	February	2,600		April 16-20	0.000	
						projected escapement later.	March April	4,200		April 16-20 April 21-30	8,900	
							May	8,400	-	May 1-6/15	1,200	
San Joaquin Valley Outflows	throug Deep Ch inclue for in	se Flows Ih Stockton Water Ship nannel - ding flows mproving ved Oxygen	Ckton Ship - ows ing October only - 1,000 cfs give or take 20% on a daily basis. No dissolved oxygen criterion provided.		2,000 cfs from July through October in all years.				July through February in all years, 2,000 cfs (TBI, Exhibit 3, p. 28)			
Delta Cross- Channel and Georgiana Slough	an Sur Enti	nid Juvenile d Smolt vival via rainment evention	November th January close for up to 45 c consultation of NMFS, and D Between May June 15, close for total of 14 similar consu procedures.	e DČC gates lays in with FWS, 0FG. / 21 and e DCC gates days, with		In 1992, DFG recommended closing DCC Gates and Georgiana Slough from Feb 1 through June 30 in all water years. (WRINT- DFG Exhibit 8, p. 10; C- WIN Exhibit 20, p. 10)				DCC gates v between Feb through June water years; Slough woul by an acoust during the sa	oruary 1 e 30 in all Georgiana d be closed tical barrier	

		Current Delta Flow Performance and/or Criteria	Delta Flow Criteria Recommendations, 2010						
Location for Flow Criterion	Ecosystem Function	D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	C-WIN/CSPA (C-WIN, Exhibit 2, Table 4, pp. 30-34; CSPA Exhibit 6)		
				e Delta flow criteria reco priginal narrative informat					
Banks, Jones and Contra Costa Pumping Plants	Export Pumping Rate	For Jones and Banks pumping plants only: From April 15 through May 15, no more than 1,500 cfs or 100% of 3- day running average San Joaquin River flow at Vernalis (whichever is greater); Between February through June, the export rate is to be no more than 35 percent of Delta inflow; from July through January, export rate can be no more than 65 percent of Delta inflow.	Recognized as potential parameter, but no recommendations provided.	In 1992, DFG recommended 0 cfs exports at Banks and Jones Pumping Plants from April 1 through June 30 in all water years (WRINT-DFG Exhibit 8, p. 11; C-WIN Exhibit 20, p. 11)		TBI also recommends use of two ratios to regulate export rates in the Delta: the ratio of Vernalis flow to exports (VF:E) in March through May; and the ratio of exports to total inflows (E:I) from December through June in all but	Combined export rate would be 0 cfs in all		
Mainstem Tributary Streams of the Central Valley Watershed	Inflow Contributions to Delta Outflow			In its 1992 recommendations, DFG stated that SWRCB should consider requiring flow contributions from the tributaries to provide a fair share portion of Delta outflow. DFG suggested allocating responsibility to tributaries based on the period of record from 1906 to present, unimpaired flow share, 50 year averages. (WRINT-DFG Exhibit No. 29, 1992; C-WIN 18, pp. 3-4)			Determine equitable shares of inflows to Delta expanding responsible parties to include DWR and USBR but other major reservoir owners and water right holders in the Central Valley watershed of the Delta estuary.		

		Current Delta Flow Performance and/or Criteria		Delta Flo	w Criteria Recommenda	tions, 2010				
Location for Flow Criterion	Ecosystem Function	D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	Exhibit	/CSPA (C-WIN, 2, Table 4, pp. CSPA Exhibit 6)		
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Mainstem Tributary Streams of the Central Valley Watershed	Temperature Protection for Juvenile Salmon and Salmon Smolts			Juvenile early rearing, < 61 degrees F; smoltification < 59 degrees F; for steelhead smolts < 57 degrees F. See DFG Exhibit 4, Table 1.	Adopt biological goals of the Anadromous Fish Restoration Program (AFRP) based on 2005 streamflow schedules for AFRP doubling goals. (USDOI, p. 57)	To provide adequate temperatures in the lower San Joaquin River/ southern Delta that avoid lethal effects and increase outmigration success of juvenile Chinook salmon and steelhead, provide flows sufficient to provide average daily water temperatures of 65 degrees F or lower from April 1 through May 31 in all years. (TBI, Exhibit 3, p. 21)	flows abo maintain temperat than 59 c provide n juvenile s get juven to rear be	quin Valley pulse ove intend to tributary ures at no higher legrees F, and nigration cues for salmon, and to iles to the Delta fore Delta water ures get too		
						By notching Fremont Weir at north end of Yolo Bypass, frequency of floodplain inundation should be maximized	Water Year	San Joaquin Valley Base/ Pulse Outflows		
							Critical and Dry	13,400 cfs for 2 days		
Sacramento and San Joaquin	Floodplain		2,500 cfs in base flows between Feb-April in 8		Flood flows on the Sacramento River	(i.e., yearly): 27,500 cfs in early March for 15 days in critical years; 27,500 cfs in March in	Below Norm	13,400 cfs 16 days/ 26,800 cfs for 2 days		
River Floodplains and	Inundation for Habitat Expansion and Variability		of 10 years to Yolo Bypass. 4,000 cfs pulse flows in March-April, 6 of		should exceed 70,000 cfs in at least 6 of 10 years, to enable spillage into Yolo Bypass. (USDOI, p. 54)	dry years for 30 days; 30,000 cfs from late February to mid-April in below normal years; 32,500 cfs from February through April for 90 days; and 35,000 cfs from late January through mid-May for 120 days. (TBI, Exhibit 3, Table 3, p. 36)	Above Norm	13,400 cfs 13 days/ 26,800 cfs for 5 days		
Seasonal Wetlands			10 years to Yolo Bypass				Wet	13,400 cfs for 17 days; 26,800 cfs for 5 days		
							equitable flows from	February 15 and for assuming portioning of m each major stream (p. 30).		
		* Combined Valley outflow: obtained from US Fish & W 2, p. 10 (CSPA Exhibit 20, unimpaired runoff; Carl Me <i>Public Trust Resources wit</i> 19; CSPA Exhibit 7). Flows	and cited in US DOI testim sick, <i>Statement of Key Iss</i> <i>h Particular Reference to F</i>	mmended Streamflow Scl ony for this proceeding); s ues on the Volume, Quality all-Run Chinook Salmon ir	nedules to Meet the AFRP hares of unimpaired runof , and Timing of Delta Outf n the San Joaquin River Ba	Doubling Goal in the San of f obtained from Bulletin 12 flows, Necessary for the De asin, February 16, 2010, Ta	Joaquin Ri 0-2008 (N elta Ecosys ible 1, p.3	<i>iver Basin</i> , Table lay issue) for stem to Protect (C-WIN Exhibit		

	Ecosystem Function	Current Delta Flow Performance and/or Criteria	Delta Flow Criteria Recommendations, 2010							
Location for Flow Criterion		D-1641 (Table 3, pages 184, 186, 187; unless otherwise noted)	UC Davis Experts (All flows from Table 3, page 19)	California Department of Fish and Game (DFG, Exhibits 1, 2, 3, and 4; unless otherwise noted)	US Department of the Interior (US DOI, unless otherwise noted)	Bay Institute (Exhibits 2, 3, and 4)	C-WIN/CSPA (C-WIN, Exhibit 2, Table 4, pp. 30-34; CSPA Exhibit 6)			
			DISCLAIMER: These Delta flow criteria recommendations are compared here for illustrative purposes only. For full descriptions, see the original narrative information submitted as testimony to the State Water Resources Control Board.							
		** Combined Valley outflow are obtained from Carl Mes to inundate floodplains for through the lower tributarie under base flows [of 275 cf temperatures throughout th relatively good chance of s River] provide maximum flo temperatures."	sick's submitted testimony at least 2 days in the uppers, and causes about 40 pers is per tributary]. Early smo the tributaries to the conflue urvival as they migrate thr	r, C-WIN Exhibit 19, p. 1; C er tributary reaches, augme ercent of the smolts to beg it migration is important be ence with the San Joaquin ough the Delta. Prolonged	CSPA Exhibit 7, p. 1: "Provi ents the food supply for juv jin migrating in late March ecause it is possible to use River prior to May 15, whi winter flow releases of 8,0	ding winter flows of at least enile salmon, improves the and early April, compared flow management to mair ch helps produce healthy 00 cfs [from all three tribut	st 3,000 cfs [per tributary] eir survival as they migrate to 8 percent migrating ntain optimum water smolts that have a taries on the San Joaquin			