

Attachment A

CVP/SWP Deliveries Table

Deliveries (TAF/year) (change from No Project Alternative conditions) ^a	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
CVP OpFlex Deliveries	1	3	7	15	1	3	23	61
NOD Ag	-2	1	-2	2	-2	1	0	6
NOD M&I	0	1	0	1	0	1	1	3
SOD Ag	4	1	9	12	4	1	22	51
SOD M&I	0	0	0	1	0	0	0	2
CVP Refuge Water Supply	0	1	0	1	0	1	0	1
NOD (Level 2)	0	1	0	1	0	1	0	1
SOD (Level 2)	0	0	0	0	0	0	0	0
SWP Deliveries	5	4	0	0	4	4	-4	12
SWP SOD Ag (Table A)	1	2	0	1	0	2	0	4
SWP SOD M&I (Table A)	2	5	3	6	2	5	1	10
SWP SOD Interruptible (Article 21)	2	-3	-3	-7	1	-3	-6	-2
Total change in CVP/SWP Deliveries	6	7	8	16	5	7	19	74

Notes:

^a Values shown are the net change between the Project Alternative and No Project Alternative
Results are dependent on storage allocations (see storage allocation table)

Shasta Storage and Operations Table

Volumes (TAF/year) (change from No Project Alternative conditions) ^a	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
Additional End of April Shasta Storage	13	36	17	41	12	33	32	75
CVP OpFlex Storage	11	29	15	36	10	27	31	73
Storage exchanged from Sites	3	8	2	5	2	6	1	2
Additional End of September Shasta Storage	20	26	36	51	21	27	102	135
CVP OpFlex Storage	7	19	31	45	6	20	96	132
Storage exchanged from Sites	14	7	5	6	15	7	6	3
Fall Flow Stability (Oct - Feb)	2	-1	7	4	2	-2	23	18
CVP OpFlex Fall Flow Stability	-2	-4	0	-2	-2	-4	11	3
Exchange Fall Flow Stability	4	2	7	6	4	2	12	14
Spring Pulse Flow (Mar - May)	1	3	30	-3	1	3	31	4
CVP OpFlex Spring Pulse Flow	1	3	-2	-3	1	3	-1	4
Exchange Spring Pulse Flow	0	0	31	0	0	0	31	0

Notes:

^a Values shown are the net change between the Project Alternative and No Project Alternative
Results are dependent on storage allocations (see storage allocation table)

Authority Deliveries Table

Deliveries (TAF/year) (change from No Project Alternative conditions) ^a	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
Authority PWA Deliveries	114	268	109	254	107	250	90	205
NOD	24	47	23	44	23	43	21	37
SOD	89	221	85	210	84	206	70	168
CVP Operational Flexibility	1	3	7	15	1	3	23	61
Sub-Total Supplemental Deliveries for Water Supply	115	271	116	269	108	252	113	267
Refuge Water Supply	19	32	18	29	19	33	16	28
NOD (Level 4)	4	5	4	5	4	5	4	5
SOD (Level 4)	14	26	14	24	15	28	12	23
Yolo Bypass Habitat Water Supply	36	10	34	9	40	14	32	10
Total Authority Deliveries	170	313	168	308	167	300	162	304
Percentage of Total Authority Deliveries								
Authority PWA Deliveries - North of Delta	14%	15%	14%	14%	14%	14%	13%	12%
Authority PWA Deliveries - South of Delta	53%	71%	51%	68%	50%	69%	43%	55%
CVP Deliveries - Operational Flexibility	1%	1%	4%	5%	1%	1%	14%	20%
Refuge Water Supply	11%	10%	11%	10%	12%	11%	10%	9%
Yolo Bypass Habitat Water Supply	21%	3%	20%	3%	24%	5%	20%	3%
Consideration of Incidental Change to CVP and SWP Deliveries								
Incidental Change to SWP Deliveries	5	4	0	0	4	4	-4	12
Total Authority, CVP OpFlex and SWP Deliveries	174	316	169	308	171	304	157	316
Incremental Change as a Percentage of Total Authority Deliveries	3%	1%	0%	0%	2%	1%	-3%	4%
Incremental Change as a Percentage of Total Authority, CVP OpFlex and SWP Deliveries	3%	1%	0%	0%	2%	1%	-3%	4%

Notes:

^a Values shown are the net change between the Project Alternative and No Project Alternative
Results are dependent on storage allocations (see storage allocation table)

Storage Table

Storage Increases (TAF) (above No Project Alternative conditions) ^a	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
End-of-April								
Additional end-of-April storage	16	37	19	44	15	37	36	79
Trinity	0	0	0	0	0	0	0	0
Shasta	13	36	17	41	12	33	32	75
CVP OpFlex Storage	11	29	15	36	10	27	31	73
Storage exchanged from Sites	3	8	2	5	2	6	1	2
Oroville	2	2	3	4	2	1	3	4
SWP Storage	2	2	3	4	2	1	3	4
Sites Delta Participants Storage	0	0	0	0	0	0	0	0
Folsom (CVP OpFlex)	0	-1	0	-1	1	2	0	1
Percentage of Total Additional End-of-April Storage								
Portion of total additional end-of-April storage								
Trinity	0%	0%	0%	0%	0%	0%	0%	0%
Shasta	86%	97%	88%	93%	82%	91%	90%	94%
Oroville	16%	6%	14%	9%	13%	4%	10%	5%
Folsom	-2%	-3%	-2%	-2%	5%	6%	1%	1%
End-of-September								
Additional end-of-September storage	35	61	50	91	35	61	124	169
Trinity	0	0	0	0	0	0	0	0
Shasta	20	26	36	51	21	27	102	135
CVP OpFlex Storage	7	19	31	45	6	20	96	132
Storage exchanged from Sites	14	7	5	6	15	7	6	3
Oroville	14	34	12	37	13	31	11	30
SWP Storage	-2	0	-4	3	-2	-2	0	7
Sites Delta Participants Storage	16	34	15	34	15	33	11	23
Folsom (CVP OpFlex)	1	1	2	3	1	3	11	4
Percentage of Total Additional End-of-September Storage								
Portion of total additional end-of-September storage								
Trinity	0%	0%	0%	0%	0%	0%	0%	0%
Shasta	58%	43%	73%	56%	60%	44%	82%	80%
Oroville	40%	55%	24%	41%	36%	52%	9%	18%
Folsom	2%	2%	4%	3%	4%	4%	9%	2%

Notes:

^a Values shown are the net change between the Project Alternative and No Project Alternative
Results are dependent on storage allocations (see storage allocation table)

Sites Releases Table

Releases (TAF/year)	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
Releases for Authority PWA Deliveries - North of Delta	24	47	23	44	23	43	21	37
Assumed transfer from North of Delta to South of Delta	7	6	6	6	6	5	5	5
Releases for Authority PWA Deliveries - South of Delta	113	258	103	246	108	240	86	191
Releases for CVP Deliveries - Operational Flexibility	0	0	28	30	0	0	89	91
Releases for Refuge Water Supply	22	38	21	35	23	40	19	33
Releases for Yolo Bypass Habitat Water Supply	41	11	39	10	46	16	37	11
Total Releases	208	361	221	372	205	345	256	369
Percentage of Total Releases from Sites								
Releases for Authority PWA Deliveries - North of Delta	12%	13%	11%	12%	11%	13%	8%	10%
Assumed transfer from North of Delta to South of Delta	3%	2%	3%	2%	3%	2%	2%	1%
Releases for Authority PWA Deliveries - South of Delta	54%	72%	47%	66%	53%	70%	34%	52%
Releases for CVP Deliveries - Operational Flexibility	0%	0%	12%	8%	0%	0%	35%	25%
Releases for Refuge Water Supply	11%	10%	10%	9%	11%	12%	7%	9%
Releases for Yolo Bypass Habitat Water Supply	20%	3%	18%	3%	22%	5%	15%	3%

Notes:

Results are dependent on storage allocations (see storage allocation table)

Sites Fills Table

Fills (TAF/year)	ALT 1A 051722		ALT 1B 051722		ALT 2 051722		ALT 3 051722	
	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical	Average	Dry and Critical
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate		1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate		1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	
Fills for Authority PWA - North of Delta	39	18	37	16	35	17	30	13
Fills for Authority PWA - South of Delta	128	56	117	50	120	53	95	40
Fills for CVP Operational Flexibility	0	0	28	12	0	0	91	32
Fills for Refuge Water Supply	24	11	23	8	25	12	21	8
Fills for Yolo Bypass Habitat Water Supply	44	13	41	10	48	16	39	10
Total Fill	236	98	246	96	229	98	276	103
Percentage of Total Fills								
Fills for Authority PWA - North of Delta	17%	18%	15%	17%	15%	17%	11%	12%
Fills for Authority PWA - South of Delta	54%	58%	48%	52%	52%	55%	35%	38%
Fills for CVP Operational Flexibility	0%	0%	11%	13%	0%	0%	33%	31%
Fills for Refuge Water Supply	10%	11%	9%	9%	11%	12%	8%	8%
Fills for Yolo Bypass Habitat Water Supply	19%	13%	17%	10%	21%	16%	14%	10%

Notes:

Results are dependent on storage allocations (see storage allocation table)

Sites Storage Allocation Table

Storage Volumes (TAF)	ALT 1A 051722	ALT 1B 051722	ALT 2 051722	ALT 3 051722
	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate	1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R) Historic Climate	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD) Historic Climate
Authority PWA - North of Delta	294	269	238	205
TCCA	156	143	126	109
GCID	36	33	29	25
RD108	31	28	25	21
Other Sacramento Valley	71	65	58	50
Authority PWA - South of Delta	902	826	729	631
CVP Operational Flexibility	0	101	0	360
Refuge Water Supply	124	124	124	124
Yolo Bypass Habitat Water Supply	120	120	120	120
Dead Pool Storage	60	60	60	60
Total Storage	1500	1500	1271	1500
Percentage of Total Storage Capacity				
Authority PWA - North of Delta	20%	19%	20%	14%
Authority PWA - South of Delta	63%	57%	60%	44%
CVP Operational Flexibility	0%	7%	0%	25%
Refuge Water Supply	9%	9%	10%	9%
Yolo Bypass Habitat Water Supply	8%	8%	10%	8%

Notes:

Results are dependent on storage allocations

Ratios Table

Ratios	ALT 1A 051722			ALT 1B 051722			ALT 2 051722			ALT 3 051722		
	Releases/ Fills	Deliveries/ Releases	Estimated Salinity Cost Factor	Releases/ Fills	Deliveries/ Releases	Estimated Salinity Cost Factor	Releases/ Fills	Deliveries/ Releases	Estimated Salinity Cost Factor	Releases/ Fills	Deliveries/ Releases	Estimated Salinity Cost Factor
Alternative Facilities	1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD)			1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD)			1.27 MAF Reservoir Dunnigan Pipeline (outlet to Sac R)			1.5 MAF Reservoir Dunnigan Pipeline (outlet to CBD)		
Ratios for Authority PWA Deliveries - North of Delta	63%	100%		64%	100%		66%	100%		67%	100%	
Ratios for Authority PWA Deliveries - South of Delta	93%	75%	25%	94%	78%	22%	95%	74%	26%	95%	77%	23%
Ratios for CVP Deliveries - Operational Flexibility	0%	1188229703687020%		99%	26%		0%	-370387394207%		98%	25%	
Ratios for Refuge Water Supply	90%	85%	15%	92%	85%	15%	90%	85%	15%	92%	85%	15%
NOD		100%			100%			100%			100%	
SOD		81%	19%		81%	19%		81%	19%		81%	19%
Ratios for Yolo Bypass Habitat Water Supply	94%	87%		95%	87%		94%	87%		96%	87%	
Overall	88%	82%		90%	76%		90%	82%		93%	63%	