Table: Comparison of Long-Term Operations (LTO) alternatives to the No Action Alternative (NAA) as presented in the Federal FINAL EIS.

Percentage change from the NAA for each variable as presented in the U.S. Bureau of Reclamation's Final Environmental Impact Statement for Long-Term Operation of the Central Valley Project and State Water Project (referenced in the "Located" column). Alternative 2 (all variants) represent the federal Proposed Project; "Alt2-TUCP+AltVA" is full implementation of the VAs without the possibility of temporary urgency changes. Green highlighting represents the superior environmental outcome among alternatives within each analysis. Uncolored cells reflect results that are better than NAA, though the difference may be marginal. Yellow represents no improvement from NAA. Red represents environmental outcomes worse than the NAA. Inclusion of results in this table does not reflect an endorsement of the models or methods used to generate those results.

	Alternative Performance Relative to NAA									
Variable	Year Type	NAA	Alt1	Alt2+TUCP -VA	Alt2-TUCP -VA	Alt2-TUCP +DeltaVA	Alt2-TUCP +Aliva	Alt 3	Alt 4	Analysis Located
Winter-run Temperature Dependent Egg	Critical	0%	8.3%	-33.9%	-18.7%	-20.0%	-13.0%	-43.6%	-15.2%	Table L.2-2
Mortality (TDM) Martin model	All	0%	15.5%	-46.5%	-34.2%	-33.7%	-31.6%	-52.4%	-21.4%	
			1							-
Winter-run temperatures at Hamilton City during adult migration* (May)	All	0%	0.00%	1.00%	1.00%	1.00%	1.00%	-1.00%	1.00%	Table L.1-8
Winter-run temperatures at Red Bluff associated with disease in adults* (May)	All	0%	-41.4%	-17.2%	-19.2%	-20.2%	-19.2%	-31.3%	-10.1%	Table L.1-12
		-		1	1	r	-			r
Winter-run temperatures at Keswick during adult holding (May)	All	0%	-30.30%	-27.30%	-29.30%	-27.30%	-27.30%	-30.30%	-12.10%	Table L.1-16
				0.150/	0.1501	0.0001	5 5 4 4			
Winter-run Juvenile Production Index	Above Normal Below Normal	0%	N/A N/A	-2.45%	-2.45%	-2.08%	-5.74%	N/A N/A	N/A N/A	Table L.3-5
	Critical	0%	N/A	-23.25%	-11.47%	-14.01%	-17.69%	N/A	N/A	
	Dry	0%	N/A	-8.02%	-7.99%	-6.05%	-11.94%	N/A	N/A	
	Critical	0%	N/A	-0.33%	-0.33%	-0.32%	-0.34%	N/A	N/A	
	Mat	0%	15.04%	7 1 29/	2.64%	0.26%	0.25%	22,200/	2 219/	r
Winter-run IOS model, female escapement	Above Normal	0%	-13.33%	6.30%	5.26%	0.46%	-0.20%	20.63%	2.21%	Table F.5-12
	Below Normal	0%	-11.84%	10.84%	5.00%	1.85%	1.44%	27.28%	5.62%	
	Dry	0%	-15.05%	9.47%	5.41%	0.12%	1.79%	21.15%	3.30%	
	Critical	0%	-14.48%	7.87%	2.06%	-2.65%	-0.69%	16.87%	3.52%	
	[1			1	
Winter-run through-Delta survival (STARS)	All	0%	-1.70%	0.40%	0.00%	0.20%	0.60%	1.70%	0.02%	Table I.5-4
Winter-run through Delta survival to Chipps Island (DPM)	Above Normal	0%	-2.63%	-0.31%	-0.48%	-0.10%	0.99%	7.73%	0.14%	
	Below Normal	0%	-2.68%	-0.29%	-0.48%	-0.12%	1.52%	7.02%	0.46%	
	Critical	0%	-1.67%	0.18%	2.17%	1.45%	2.77%	4.04%	0.17%	
	Wet	0%	-1.62%	-0.19%	-0.20%	-0.16%	-0.04%	6.62%	0.03%	
										Table I.6-6
Fall-run through Delta survival to Chipps Island (DPM)	Above Normal	0%	-0.68%	-0.81%	-1.14%	-0.33%	2.07%	8.34%	-0.75%	
	Below Normal	0%	0.42%	-0.98%	-1.09%	-0.79%	2.75%	4.33%	-0.46%	
	Dry	0%	-0.57%	-0.51%	-0.52%	-0.48%	2 13%	3 21%	-0.24%	
	Wet	0%	-0.16%	-0.56%	-0.60%	-0.26%	-0.16%	8.81%	-0.55%	
Delta Smelt Life Cycle Model - Mean	All	0%	-24%	-2%	-3%	1%	1%	23%	-5%	T-1-1-547
population growth rates	Drier	0%	-18%	1%	-7%		-4%	20%	-2%	Table F.4-7
	wetter	078	-3270	-776	-778	-578	-470	2378	-10/0	
Delta Smelt Model - Maunder and Deriso Revised	Above Normal	0%	-37%	0%	0%	0%	0%	11%	-1%	Table F.1-7
	Below Normal	0%	-26%	-1%	-1%	-1%	-2%	40%	-1%	
	Critical	0%	-11%	2%	2%	1%	2%	37%	3%	
	Dry	0%	-22%	-2%	-2%	-2%	1%	21%	-1%	
	wet	0/0	10/0	270	270	270	270	5170	0/0	
Longfin Smelt Abundance - Delta Outflow Model	Wet	0%	-8%	-2%	-2%	-1%	0%	40%	0%	Table J.1-3
	Above Normal	0%	-10%	-2%	-3%	0%	3%	32%	-1%	
	Below Normal	0%	-8%	-2%	-2%	0%	4%	23%	0%	
	Dry Critical	0%	-8%	-1%	-1% 1%	1% 2%	4% 4%	19%	-1%	
Longfin Smelt salvage-OMR relationship (entrainment)	Wet	0%	197%	173%	173%	103%	98%	-92%	158%	Table I.4-2
	Above Normal	0%	295%	181%	181%	37%	33%	-80%	185%	
	Below Normal	0%	134%	75%	75%	31%	22%	-73%	86%	
	Dry	0%	63% 35%	43%	43%	8% 29%	-4%	-69%	45%	
	criddal	070	5370	2970	2.970	2.370	2.470	-770	2370	
White Sturgeon - Year Class Strength with	Wet	0%	-0.8%	-2.0%	-2.0%	-1.2%	-1.2%	35.9%	-2.0%	
Delta Outflow	Above Normal	0%	-11.9%	-6.0%	-7.5%	-1.5%	1 5%	24.2%	-4.5%	Table J.2-5
	Above Normal	070	-11.370	-0.076	-7.5%	-1.3%	1.370	24.270	-4.376	

