

## Fiscal Year 2012 Science Work Plan

Work Group	IDT ranking	Fate	Project Title	Project Cost	Cumulative Cost	Comments
General		Existing con.	Streamgaging	223,388	223,388	
Fish	1, 2	Inv. Plan	Assessing effects of restoration on Chinook Salmon and Coho Salmon rearing habitat.	286,013	509,401	120K in FY11 proposal for FY12
Fish	3	Inv. Plan	Spring and fall Chinook and coho salmon and fall-run steelhead run-size estimation using mark-recapture methods.	623,249	1,132,650	
Fish	4, 5, 13, 25, 26, 33	Inv. Plan	Trinity River juvenile salmonid outmigrant monitoring program	773,333	1,905,983	
Fish	5	Inv. Plan	Trinity River Juvenile Chinook Salmon Disease Assessment	61,322	1,967,305	
Temperature		Sub-group	Annual Operations Process (Reservoir forecasting (DWR & CVO); Reservoir modeling (CVO & TRRP); River modeling (TRRP & USFWS); River temperature tracking)	6,626	1,973,931	
Temperature	6	Market Res.	Cold Water Pool Volume Analysis	25,000	1,998,931	
Temperature	7	Sub-group	Temperature Model Support	25,000	2,023,931	Estimated cost
Fish	8, 31	Inv. Plan	Trinity River Chinook salmon redd and carcass survey	252,757	2,276,688	
Fish	9	Inv. Plan	Monitor harvest of naturally produced fall Chinook	359,393	2,636,081	Includes tribal and sport harvest projects
Physical	10	Existing con.	USGS Geomorphic Assessment		2,636,081	Part of the Phase 2 Planning effort;
Riparian / Wildlife	11	Inv. Plan	Map and Quantify Riparian Vegetation	150,546	2,786,627	Includes \$5K in compliance mapping
Riparian / Wildlife	12, 29, 39, 45,	Existing con.	Wildlife Monitoring and Assessment	0	2,786,627	RIG Funded (roughly \$173K / year)
Fish	14, 22	Inv. Plan	Trinity River juvenile salmonid spatial and temporal density monitoring	326,683	3,113,310	
Physical	16	Inv. Plan	Implementation monitoring and analysis	88,400	3,201,710	
Physical	17	Inv. Plan	Geomorphic monitoring and assessment of bed scour and mobility	226,016	3,427,726	
Physical	20	Existing con.	Sediment monitoring	271,541	3,699,267	
General		Other	Water year specific activities	75,000	3,774,267	
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Fish	21	Inv. Plan	Trinity River Hatchery Chinook Coded Wire Tagging	260,937	4,035,204	Hoopa and PSMFC
Fish	21	Inv. Plan	Develop cohort reconstructions for Chinook and coho evaluate cohort performance or year class strength, and population growth rate.	10,000	4,045,204	
Fish	21	Inv. Plan	Klamath-Trinity River fall/spring run Chinook scale age analysis	130,529	4,175,733	
Fish	23	Sub-group	Juvenile salmonid survival: Coho salmon spawner success and limiting life stages.	0	4,175,733	
Riparian / Wildlife	24	Market Res.	Trinity River Foothill Yellow-legged Frog Egg Mass Surveys	TBD	4,175,733	Has a compliance element; need to work with CDFG
Fish	27	Inv. Plan	Monitor harvest of naturally produced spring Chinook	52,777	4,228,510	
Riparian / Wildlife	28, 34	Market Res.	Monitor the distribution and abundance of western pond turtles	TBD	4,228,510	Need to work with CDFG
Physical	30	Market Res.	Test and Evaluate Side Channel and Alcove Parameters	100,000	4,328,510	Part of the Phase 2 Planning effort; placeholder
Fish	32	Inv. Plan	Adult Fall-Run Chinook Salmon Disease Assessment	27,676	4,356,186	
Riparian / Wildlife	35	Inv. Plan	Model how proposed WY2012 streamflows will affect hardwood regeneration	24,544	4,380,730	
Fish	36	Sub-group	Range of Thermal Heterogeneity, a Simple Data Collection and Analysis	0	4,380,730	Staff time
Physical	40	Inv. Plan	Linking sediment supply to channel complexity	0	4,380,730	Staff time
Physical	40	Inv. Plan	Retrospective evaluation of topographic changes at Rush Creek and Indian Creek deltas on the Trinity River	63,787	4,444,517	
Physical	41	Inv. Plan	Quantifying Channel Complexity	0	4,444,517	Staff time
Fish	46	Market Res.	Map and quantify the extent (area) of available adult holding habitat at rehab sites and throughout the mainstem	TBD	4,444,517	
Riparian / Wildlife	53	Sub-group	Riparian PITAs 3, 4, 5	40,416	4,484,933	
Fish		Sub-group	Limiting factor analysis for the South Fork Trinity River spring Chinook salmon population	0	4,484,933	
Temperature		Market Res.	Lewiston Appraisal Study	TBD	4,484,933	Need to rank