

CALFED BAY-DELTA PROGRAM
Tracking Table for Ecosystem Restoration Projects

June 2, 1999

CALFED No.	Project Description	Applicant	Geographic Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funds	Other Funds	Acres	Monitoring	Status
Contract Agency: CALFED Bay-Delta Program (Prop 204 Funds)											
97-C01	RD 108 screen construction (A175)	Reclamation District 108	Sacramento Mainstem	\$2,500,000	\$2,500,000	\$2,209,957	\$3,800,000			Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Fully executed 7/16/98 - Construction 95% complete. Requested Amendment to extend contract 6 mos. Through 12/31/99. High water levels have delayed completion of construction until Fall 1999.
97-C02	Princeton Fish screen construction B73(A227)	Reclamation District 1004	Sacramento Mainstem	\$1,750,000	\$1,750,000	\$1,469,027	\$544,000	\$2,675,000		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Fully executed 9/22/98, Construction 95% complete. Finishing start-up testing.
97-C03	Watershed management planning for Sacramento River Riparian Program (G195)	Department of Water Resources	Sacramento Mainstem	\$200,000	\$200,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Participation and extent of implementation activities. Protect and enhance riparian habitat. Measure riparian density and species composition, pre and post project.	Fully executed 8/4/98. DWR completed subcontract with Chico State for the program.
97-C04A	Selected fish screens (A129)	Department of Fish and Game	Sacramento Tributaries	\$446,250	\$374,850	\$24,463	\$0	\$0		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Fully executed contract for small screens for 374,850 on 2/2/99.
97-C04B	Selected fish screens (A129)	DWR	Suisun Marsh	\$2,784,600	\$0	\$0	\$0	\$151,000		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	DFG cannot contract for fish screen construction over \$500,000, so contract is for small screens for 374,850. Suisun marsh screens will go under DWR contract for \$2,784,600.
97-C05	Effects of wetlands restoration on methyl mercury levels (D274)	UC Davis	Delta	\$546,171	\$546,171	\$68,602	\$0	\$0		Evaluate relationship of physical, chemical and biological gradients on methyl mercury production and bioaccumulation. Sample levels of mercury in bioindicator species from various sites in the Delta. Sample sediment cores from various sites and locations in the Delta will be used in mercury methylation experiments.	Fully executed 9/24/98. Completed purchase of mercury analyzer and working on verifying analytical methods-field sampling ongoing to catalogue wetlands & determine key gradients.
97-C06	Contaminant effects on smelt (E6)	UC Davis	Delta	\$437,326	\$437,326	\$2,563	\$0	\$0		Evaluate the potential impact of contaminants on Delta smelt. Obtain samples and evaluate using histopathology, genetic and otolith analyses. Evaluate exposure of young smelt to chemical commonly found in Delta.	Fully executed 11/20/98.
97-C07	Preventing exotic introductions from ballast water (I46)	UC Sea Grant Extension Program	North Bay	\$222,830	\$222,830	\$9,651	\$0	\$63,885		Increase maritime industry members' awareness of ballast release issues and alternative practices to reduce new introduction into the Delta. Participation and effectiveness surveys.	Fully executed 8/24/98. Project delayed until 2/99 due to staffing problems. Work on newsletter & outreach has begun.
97-C08	San Joaquin River real-time water quality management program (D252)	Department of Water Resources	San Joaquin Mainstem	\$932,000	\$931,857	\$0	\$0	\$0		Increase water user awareness of real time data and its beneficial use. Survey participation, use of data base and changes in load adjustments. Reduce water quality excursion in the SJ Delta system as real time data is utilized. Measure water quality conditions and variances over time. Monitor New Melones water operations for net decrease in releases following a forecast.	Fully executed 3/30/99.
97-C09	Developing a genetic baseline for San Joaquin salmon (I121)	Department of Fish and Game	San Joaquin Mainstem	\$387,003	\$387,003	\$0	\$0	\$600,000		Characterize the genetic makeup of SJ Fall run chinook salmon. Collect and analyze tissue samples from populations over 3 year period.	Contract fully executed by 2/1/99.

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97-C11	Gravel at Basso Bridge (H125)	Department of Fish and Game	Tuolumne River	\$250,975	\$250,975	\$0	\$0	\$22,100		Improve the quality and quantity of spawning habitat, use, and durability. Redds survey; visual observation; carcass surveys - pre and post project. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles), pre and post project and over time. Insert storage of gravel will be transported downstream over time to support downstream habitats. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles) at downstream locations, pre and post project.	Fully executed 1/5/99. Permit application complete & should receive approval soon.
97-C12	Evaluation of alternative pesticide use reduction practices (B211)	UC Davis	Other	\$957,781	\$957,781	\$18,405	\$0	\$746,827		Monitor water quality before and after outreach program to determine efficiency of program.	Fully executed 8/26/98, completed Task Order for year 1 work 11/18/98. Development of Alternative Practices Matrix 49% complete
98-C01	Twitchell Island Subsidence Study (K250)	Department of Water Resource	Delta	\$3,583,000	\$3,583,000	\$0	\$0	\$0		Evaluate techniques to reverse the subsidence of Delta island habitat. Monitor biomass accretions and deposition of sediment over time, and costs.	Fully executed 5/20/99. Developing subcontracts for the project.
98-C02	Culture of Delta Smelt (I166)		Delta	\$194,870	\$194,870	\$119,278	\$0	\$0		Develop culture methods to supply all life stage of delta smelt for research studies. Collect data on larvae size, weight, and food intake for different water types, tank size, and water constituents.	Fully executed 9/10/98. Physical improvements to site completed, testing, & delta water supply with larval fish. Broodfish collection & rotifer culture 70% complete.
98-C03	Hamilton wetlands restoration planning (M140)	Calif. Coastal Conservancy and SF BCDC	Northbay	\$1,000,015	\$1,000,015	\$272,123	\$0	\$1,324,000		Restore subsided diked area to upland seasonal and tidal wetland habitats. Monitoring of site physical characteristics (elevation, contours, etc.) and hydraulics. Water quality monitoring (salinity, temperature, and DOJ. Monitor vegetation development (extent, location, composition, and density). Survey of use by fish and wildlife.	Fully Executed 10/28/98 Signed Task Orders 1-3 for EIR/EIS, Hamilton Conceptual Restoration Plan, and feasibility study. EIR/EIS complete.
98-C04	Merced River Ranch acquisition and restoration (H122)	Department of Fish and Game	Merced River	\$658,000	\$658,000	\$0	\$0	\$45,500	42	Protect and enhance riparian, wetland and aquatic habitats, and provide supply of gravel for spawning habitat projects.	Combined with 98-C05 Basso Bridge land acquisition.
98-C05	Basso Bridge land acquisition (H123)	Department of Fish and Game	Tuolumne River	\$172,500	\$172,500	\$0	\$0	\$0	318	Protect spawning riffles, and protect and enhance riparian species.	Fully executed 1/5/99.
98-C06	Water Quality Criteria for Chlorpyrifos and Diazinon (Designated Action)	Department of Fish and Game	Landscape	\$70,000	\$67,753	\$0	\$0	\$0		Develop water quality criteria for chlorpyrifos and diazinon Conduct toxicity test on ceriodaphnia and psysa	Contract fully executed 3/8/99.
98-C07	Fathead Minnow Toxicity (DA)	CVRWQCB	Landscape	\$400,000	\$400,000	\$0	\$0	\$0		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphnia reproduction)	Contract fully executed 2/5/99.
98-C08	Algal Toxicity (DA)	CVRWQCB	Sacramento River	\$500,000	\$500,000	\$0	\$0	\$0		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity.	Contract fully executed 2/5/99.
98-C09a	Sediment Water Quality (DA)	DPC	Delta	\$24,000	\$24,000	\$0	\$0	\$0		Determine toxicity criteria and sediment reuse potential to develop a Delta Dredging Reuse Strategy.	Contract fully executed 4/18/99.
98-C09b	Sediment Water Quality (DA)	DFG	Delta	\$276,000	\$276,000	\$0	\$0	\$0		Same as 98-C09a	Fully executed 3/30/99.
98-C09c	Sediment Water Quality (DA)	RWQC	Delta	\$200,000	\$0	\$0	\$0	\$0		Same as 98-C09a	Contract sent to DGS for signature 5/28/99.
98-C10	CMARP (DA)	DWR	Landscape	\$800,000	\$800,000	\$0	\$0	\$0		Develop a Comprehensive Monitoring and Research Program for CALFED.	Fully executed 5/4/99

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98-C11	Chinook Salmon Movement in the Lower SJR and South Delta(A1000)	DFG	San Joaquin River and Delta	\$285,000	\$285,000	\$0	\$0	\$0		Evaluate fish migration and delays through lower San Joaquin River and south Delta as potentially impacted by South Delta Temporary Barriers, Head of Old River Barrier and/or low DO levels. Track movement of ultrasonic tagged adults.	Contract fully executed 6/2/99.
98-C12	Genetic Comparison of Steelhead Stocks in Clear Creek (F1001)	USFWS	Clear Creek	\$45,493	\$0	\$0	\$0	\$0		Evaluate alternative steelhead stocks for future restocking of Clear Creek. Collect tissue samples for genetic evaluation.	Contract sent to DGS for signature 5/4/99.
98-C13	Spawning Areas of Green Sturgeon in the Upper Sacramento River (F1002)	USFWS	Sacramento River	\$60,801	\$0	\$0	\$0	\$0		Characterization of Green Sturgeon habitat and life history patterns in the upper Sacramento River. Survey of spawning areas.	Contract sent to contractor for signature 3/19/99.
98-C14	Monitoring Spring and Winter-run Chinook Salmon and Steelhead in Battle Creek (F1003)	USFWS	Battle Creek	\$150,000	\$0	\$0	\$0	\$0		Evaluate life history characteristics for spring and winter run chinook and steelhead in Battle Creek. Fish counts, snorkel surveys, juvenile monitoring using screw traps. Genetic data for species.	Contract sent to contractor for signature 5/20/99.
98-C15	Biological Assessment of Green Sturgeon in the Sacramento-San Joaquin Watershed (F1007)	UC Davis	Sacramento-San Joaquin Watershed	\$241,000	\$241,000	\$0	\$0	\$0		Identify the biological characteristics of green sturgeon. Behavioral and tolerance limits to temperature ranges for various size fish. Biological examination of reproduction system and function. Genetic data for GS and white sturgeon. Examine Embryo samples to measure developmental process over time and varying river conditions.	Contract fully executed 3/30/99.
98-C16	Developing a Methodology to Accurately Simulate Entrainment of Fish (I1000)	DFG	Delta	\$200,000	\$0	\$0	\$0	\$0		Evaluate effectiveness of barge sampling in estimating existence of fish at/near diversion locations. Perform fish-friendly pump sampling and diversion net sampling at various times.	Contractor has completed review & was received at DGS contract office 5/26/99.
99-C01	Cosumnes Rver Feasibility Study (DA11)	The Nature Conservancy	Delta	\$400,000	\$0	\$0	\$0	\$0		Feasibility Study of Ecosystem Restoration opportunities on the Cosumnes River.	Contract at CALFED Legal, awaiting sole source approval from DGS.
99-C02	Mokelumne River Feasibility Study (DA12)	EBMUD	Delta	\$400,000	\$400,000	\$0	\$0	\$0		Feasibility Study of Ecosystem Restoration opportunities on the Mokelumne River.	Contract fully executed 4/20/99
			Total:	\$ 21,075,615	\$17,160,931	\$4,194,069					
			32		81%	20%					78%
			Contracts		Obligated	Expended					Executed

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Contract Agency: National Fish and Wildlife Foundation (Prop 204 funds)											
97-N01	Assessment and implementation of urban use reduction of diazlon and chlorpyrifos (Sacramento County) (B217)	Sacramento Area Stormwater Permittees	Sacramento Mainstem	\$663,500	\$663,500	\$0	\$0	\$193,000		Characterize baseline temporal and spatial trends of OP Pesticide runoff in the Sacramento region. Concentration during various conditions and at various locations pre project. Evaluate effect of OP Pesticide control program on the water quality conditions. Concentration during various conditions and at various locations post project. Evaluate if the level/conditions are significant contributors to toxicity. Cerodaphnia toxicity tests.	Contract signed 8/29/98, received QAQC, need to review 2 draft subcontracts.
97-N02	Sacramento River floodplain acquisition and riparian restoration (G261)	WCB, USFWS, The Nature Conservancy	Sacramento Mainstem	\$9,879,800	\$9,879,800	\$1,914,801	\$0	\$0	1,500 ¹	Increase extent of channel meander and flood zones. Mapping of aquatic and terrestrial habitats. Increase native riparian growth and reduce exotic distribution adjacent to the river. Measure tree density and species composition and height, pre and post project. Measure exotic weed cover, pre and post project. Measure floor litter quality and quantity to evaluate accumulation and Carbon/Nitrogen ratios, pre and post project. Conduct point counts and areas searches for songbird populations and habitat characteristics as indicator of ecological health. Groundwater piezometers samples for evaluating water quality adjacent to restoration area, pre and post project and adjacent sites.	Contract signed 2/4/99. First property purchase in escrow.
97-N03A	Sacramento River acquisition and riparian forest restoration (G278)	USFWS, The Nature Conservancy	Sacramento Mainstem	\$780,000	\$780,000	\$1,435	\$0	\$0	300 ²	Same as 97-N02	Contract signed 12/8/98.
97-N03B	Sacramento River floodplain acquisition and riparian restoration (G278)	WCB	Sacramento Mainstem	\$512,500	\$0	\$0	\$0	\$0	See 97N03A	Same as 97-N02	Scope of work received 3/16/99. Under review. Draft contract complete.
97-N04	Sacramento River meander restoration (G291)	The Nature Conservancy	Sacramento Mainstem	\$898,700	\$898,700	\$816,800	\$0	\$0	95	Same as 97-N02	Contract signed 10/28/98. Property purchased. Completing subcontracts for site preparation and planting.
97-N05	Restoration planning (M and N Fork American River, Auburn Ravine, Coon Creek) (F297)	Placer County	American River	\$222,530	\$222,530	\$0	\$0	\$222,530		Evaluate restoration needs toward the protection and improvement in water quality, aquatic habitat and its assessibility, and riparian communities.	Contract executed 3/29/99.
97-N06	Butte Creek acquisition and riparian restoration (G218)	CSU, Chico	Butte Creek	\$187,128	\$187,128	\$0	\$0	\$135,000	90 ²	Protect riparian habitat. Monitor revegetation. Similar to 97-N02.	Contract signed 12/21/98.
97-N07	Cottonwood Creek channel restoration planning (G171)	Graham Matthews & Associates	Cottonwood Creek	\$61,000	\$61,000	\$17,516	\$0	\$10,000		Describe geomorphic conditions and changes in region toward development of channel and riparian restoration plan. Survey of geomorphic and riparian characteristics, current and historical, and eventually post project.	Contractor signed 7/1/98. Work is ongoing.
97-N08	Lower Mill Creek riparian restoration (G292)	Mill Creek Conservancy, The Nature Conservancy	Mill Creek	\$69,000	\$69,000	\$1,899	\$30,000	\$109,670	3	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Contract signed 12/29/98.
97-N09	Monitoring of Delta contaminants (D264)	San Francisco Baykeeper	Delta	\$100,000	\$100,000	\$29,318	\$0	\$20,000		Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphnia reproduction)	Contract signed 9/18/98.

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97-N10	Jepson Prairie restoration and conservation plan (K109)	Solano County Farmlands, Open Space Foundation	Delta	\$244,801	\$244,801	\$0	\$0	\$0	600 ²	Restore habitat. Monitor vegetation/tree survivorship, abundance, size and distribution, pre and post project and comparison to control.	Contract signed 1/29/99.
97-N11	In-Channel Island restoration/demonstration (K185)	Association of Bay Area Governments	Delta	\$270,270	\$270,270	\$11,993	\$0	\$91,000		Demonstrate effective biotechnical methods to reduce erosion of in-channel islands and adjacent delta island banks. Visual observation of wave and current energy, pre and post project for different application practices for different hydrodynamic conditions. Field mapping and sediment deposition/accretion pre and post project and compare with control. Survey of fish and wildlife use and breeding, including invasive non-native species. Demonstrate that installations can be installed while minimizing impact to existing ecological values. Pre and post project surveys of fisher and terrestrial biota. Survey for vegetation colonization and succession.	Contract signed 7/15/98.
97-N12	Franks Tract restoration (K216)	Moffat and Nichol Engineers, DPR, DWR	Delta	\$231,500	\$231,500	\$9,762		\$370,000	40	Restoration of deeply flooded habitat to tidal perennial aquatic, shaded riverine aquatic, and mid channel island shoal and shoal habitats. TBD - Physical/geomorphological characteristics of islands.	Contract signed 12/29/98.
97-N13	Tyler Island levee protection and habitat restoration pilot project (K38)	Habitat Assessment & Restoration Team, Inc	Delta	\$885,202	\$885,202	\$32,567	\$0	\$0	6	Evaluate alternative vegetative and biotechnical techniques for restoring and stabilizing levee and bank erosion and riparian and shallow water habitat. Measure boat wake energy dissipation for different installation practices, compare with control. Measure sediment deposition occurring with different installation practices, compare with control and different locations. Survey macroinvertebrate and fishery population for the different installation practices, compare with control and different locations. Survey survival and growth of vegetation between different installation practices, compare with control and different locations.	Contract signed 7/22/98.
97-N14	Cosumnes start-up stewardship and restoration (H307)	WCB, The Nature Conservancy	Cosumnes River	\$1,975,100	\$0	\$0	\$0	\$0		Conduct baseline monitoring of riparian vegetation, wildlife, avian and fish resources	Reviewing Scope of Services and Task Order.
97-N16	Bay Point shoreline Restoration Plan (K42)	East Bay Regional Park District	Suisun Marsh and Bay	\$185,000	\$185,000	\$0	\$0	\$53,900	52 ²	Restore tidal salt marsh habitat and function. Monitor tidal flow and range over time. Monitor water quality and sedimentation processes over time. Monitor changes in plant species diversity, density and cover. Survey use by fish and wildlife over time.	Contract signed 8/12/98.
97-N18	Cullinan Ranch restoration (M327)	Ducks Unlimited, Inc.	North Bay	\$368,500	\$368,500	\$0	\$0	\$662,000	1,495 ²	See 97-N16	Contract executed 3/30/99.
97-N19	Tolay Creek restoration (M326)	Ducks Unlimited, Inc.	Tolay Creek	\$283,000	\$283,000	\$232,090	\$0	\$422,000	312 ²	See 97-N16	Contract and first task order approved by CALFED and signed 10/16/98. Channel modifications complete and levee breached Dec. 1998.
97-N20	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds (B289)	Community Alliance with Family Farmers	San Joaquin Mainstem	\$1,680,631	\$1,680,631	\$318,742	\$0	\$0		Increase awareness of users to detrimental impacts and mitigation approaches. User survey on past and post-project application. Evaluate different application techniques and their impact on runoff water quality, develop protocols and models. Water quality and flow measurements in surface water adjacent to sites. Increase farmer awareness of impacts of pesticide use and alternatives to reduce water quality problems in the Central Valley, and San Joaquin basin.	Contract signed 7/20/98.

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97-N21	Knights Ferry gravel replenishment (H137)	Carl Mesick Consultants	Stanislaus River	\$536,410	\$536,410	\$73,494	\$0	\$90,000		Improve spawning habitat quality and quantity, and evaluate conditions for successful and durable restoration. Map redd locations and changes over time and under different gravel supply conditions, at various sites. Measure transect and vertical hydraulic gradient during spawning period and after incubation at various sites. Improve incubation habitat and conditions by adding gravel with no fines. Intergravel water temperatures, flows, DO levels, substrate size, fine sediment intrusion at various sites.	Contract signed 9/30/98.
98-N01	RD 2035 Fish Screen(A1002)	Reclamation District 2035	Sacramento River	\$100,000	\$100,000	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Contract executed 3/31/99.
98-N02	Expanding California Salmon Habitat to Alter Dams and Diversions (A1006)	Institute for Fisheries Resources	Bay-Delta Watershed	\$49,000	\$49,000	\$0	\$0	\$0		Research project to inventory and develop a mechanism to purchase dams and diversions from willing sellers to improve fish passage	Contract signed 3/12/99.
98-N03	Life History and Stock Composition of Steelhead Trout (F1005)	Yuba Co. Water Agency	Yuba River	\$120,000	\$0	\$0	\$0	\$0		Characterization of steelhead habitat and life history patterns in the Yuba River. Trap fish through year, and then measure and collect scale and tissue samples for evaluation. Genetic data for steelhead.	Contract sent to contractor for signature on 4/5/99.
98-N04	Small Fish Screen Evaluation (I1003)	Pelgar Mutual Water Company	Sacramento River	\$95,000	\$0	\$0	\$0	\$0		Evaluate the effect of screening small screen diversion. Fyke net and live box sampling at screened and unscreened diversions at various hydraulic and operating conditions.	Contract sent to contractor for signature on 3/26/99.
99-N01	ACID Fish Screen(DA4)	Sacramento Area Stormwater Permittees	Sacramento River	\$5,100,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Evaluate the impact of shallow water restoration actions on water quality. Collect and conduct physical/chemical analysis of water and soil samples.	Draft proposal under review. Will meet in April to continue to discuss water as cost-share.
			Total: \$	\$25,498,572	\$17,695,972	\$3,460,417					
			25		69%	14%					80%
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Contract Agency: California Urban Water Agencies/ Metropolitan Water District (Stakeholder funds)											
95-M01	Interim Flow Restoration	U.S. Fish & Wildlife Service	Sacramento Tributaries	\$0	\$0	\$0	\$500,000	\$0		A separate Battle Creek Project recently approved has monitoring. See 98-B16.	Completed.
95-M02	Fish Screen and Ladder Construction	Durham Mutual	Sacramento Tributaries	\$316,500	\$316,500	\$258,208	\$464,720	\$127,031		For Butte Creek system, 100,000 juvenile spring-run have been marked. Also evaluation of fish behavior at ladder entrance was completed.	Completed.
95-M03	Construct Fish Ladder on Parrott-Phelan Dam	M&T Ranch/Parrott	Sacramento Tributaries	\$0	\$0	\$0	\$100,000	\$318,000		For Butte Creek system, 100,000 juvenile spring-run have been marked.	Completed.
95-M04	Gravel Restoration Project	DWR	Sacramento River	\$0	\$0	\$0	\$39,400	\$13,100		Small gravel project. Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Completed.
95-M05	Pump Station Relocation Construction	M&T Ranch/Parrott Investments Co.	Sacramento Tributaries	\$1,610,000	\$1,610,000	\$1,610,000	\$2,254,000	\$830,000		A separate AFRP monitoring plan. NMFS monitored velocity on screen face. Improve and restore spawning habitat and durability. Conduct redd counts and other use surveys.	Completed.
95-M06	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds (BIOS)	Community Alliance with Family Farmers	Watershed	\$660,000	\$660,000	\$654,200	\$0	\$0		Monitoring of progress of willingness of farmers to reduce pesticide use is being documented.	Year 2 of 3 year project.
95-M07	Fish Screen Construction	Suisun RCD	Suisun Marsh	\$450,000	\$450,000	\$450,000	\$450,000	\$0		Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
95-M08	Winter-run Chinook Salmon Captive Broodstock	DWR	Watershed	\$300,000	\$300,000	\$284,000	\$0	\$250,000		Research protocols are peer-reviewed.	Completed.
96-M01	Construct Siphon & Associated Improvements.	Western Canal Water District	Sacramento Tributaries	\$3,095,873	\$3,095,873	\$2,986,067	\$3,095,873	\$3,265,873		Monitoring plan has been designed and is underway. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M02	Prospect Island - Shallow Water Habitat/Wetlands Restoration Plan	DWR	Delta	\$2,500,000	\$2,500,000	\$0	\$0	\$6,650,000		Design, implement and monitor restoration of shallow water habitat/wetlands on Prospect Island.	Expect contract execution in near future.
96-M03	Riparian Habitat Restoration Verona-Collinsville (Phase 1-Feas.)		Sacramento River	\$500,000	\$500,000	\$237,725	\$0	\$500,000		Demonstration project will monitor riparian habitat	Completed.
96-M04	Princeton Pumping Plant Fish Screen (Phase 1-Feas.)	Reclamation District 1004	Sacramento River	\$75,000	\$75,000	\$75,000	\$150,000	\$100,000		Reduce entrainment measure screen approach, sweep and bypass flow velocities.	Completed.
96-M05	Fish Screen -Feasibility Engineering	Princeton-Codora-Glenn / Provident Irrigation Districts	Sacramento River	\$75,000	\$75,000	\$75,000	\$75,000	\$0		Monitoring does not apply to a feasibility study.	Completed.
96-M06	Cosumnes River Preserve (Valensin Ranch Acquisition)	The Nature Conservancy	Delta	\$1,500,000	\$1,500,000	\$1,500,000	\$1,250,000	\$9,250,000	3,300 ¹	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Completed.

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CALFED No.	Project Description	Applicant	Geographic Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funds	Other Funds	Acres	Monitoring	Status
96-M07	Fish Screen Construction	Princeton-Codora-Glenn / Provident Irrigation Districts	Sacramento River	\$5,500,000	\$5,500,000	\$3,503,773	\$5,281,200	\$0		Screen will have velocity monitoring. Owner will conduct fyke netting for fish counts.	Completion expected in August 1999.
96-M08	Fish Screen Construction (Phase 2 - Install Additional Screens)	Suisun RCD	Suisun Marsh	\$500,000	\$500,000	\$0	\$500,000	\$0		Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Need USFWS decision on priorities.
96-M09	Sherman Island - Levee Habitat Demonstration Project	DWR	Delta	\$480,000	\$480,000	\$76,266	\$0	\$480,000		Riparian habitat will be monitored for growth and endurance.	Bids exceed budget. Steering Committee denied request for additional funding. Proponent evaluating next step.
96-M10	Research to Predict Evolution of Restored Diked Wetlands	University of Washington	Delta	\$575,172	\$575,172	\$121,559	\$0	\$0		Project develops conceptual model based on field investigations.	Steering Committee approved additional \$100,172 for additional fisheries and bird field work.
96-M11	Applied Research to Identify Chinook Salmon Runs via Genetics	DWR	Watershed	\$450,000	\$450,000	\$0	\$0	\$600,000		Research protocols are peer-reviewed.	Project is underway.
96-M12	Battle Creek - Chinook Salmon & Steelhead Restoration Study	Bill Keir Associates	Sacramento Tributaries	\$306,000	\$306,000	\$274,278	\$0	\$0		Monitoring is part of a recently approved Battle Creek project. See 98-B16.	Completed.
96-M13	Yolo Bypass - Habitat Restoration Study	DWR	Yolo Bypass	\$226,000	\$226,000	\$205,000	\$0	\$30,000		Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.
96-M14	Clear Creek - Property Acquisition	Western Shasta RCD	Sacramento Tributaries	\$211,000	\$211,000	\$211,000	\$211,000	\$0	120	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.
96-M15	Intro. of Non-indigenous Aquatic Species Research Program	San Francisco Estuary Institute	Watershed	\$197,000	\$197,000	\$184,650	\$0	\$0		Reports are peer-reviewed.	90% complete.
96-M16	Sacramento River and Major Trib.- Corridor Mapping Project	CSU, Chico	Sacramento River	\$145,200	\$145,200	\$61,342	\$0	\$0		Products meet mapping standards.	80% complete.
96-M17	Yuba River Fish Screen Replacement	Browns Valley Irrigation District	Sacramento Tributaries	\$114,750	\$114,750	\$40,453	\$114,750	\$116,500		Reduce entrainment. Measure screen approach, sweep and bypass flow velocities..	30% complete.
96-M18	Determine Effects of Toxics	Phyllis Fox & Associates	Watershed	\$110,000	\$110,000	\$15,000	\$0	\$0		Project terminated.	Agreement could not be reached on project scope.
96-M19	Wilkins Slough - Fish Screen Prelim. Design	Reclamation District 108	Sacramento River	\$100,000	\$100,000	\$100,000	\$100,000	\$16,300		Monitoring does not apply to a feasibility study.	Completed.
96-M20	Fish Screen Project	Banta-Carbona Irrigation District	San Joaquin River	\$100,000	\$100,000	\$0	\$1,916,750	\$0		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep and bypass flow velocities.	In order to accommodate delta smelt habitat, a new feasibility study has been completed.
96-M21	Adams Dam Fish Screen & Ladder	El Escalon Ranch	Sacramento Tributaries	\$70,304	\$70,304	\$63,271	\$0	\$50,000		Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M22	Gorriil Dam Fish Screen & Ladder	Gorriil Ranch	Sacramento Tributaries	\$67,990	\$67,990	\$61,191	\$0	\$58,500		Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Completed.
96-M23	Innovative Fish Screen for Small Diversions Demonstration Project	Jim Buell & Associates	Watershed	\$90,000	\$90,000	\$51,773	\$0	\$0		Research protocols are peer-reviewed.	Project will be complete at 60% of work due to ESA concerns.
96-M24	Butte Creek - Watershed Management Strategy	CSU, Chico	Sacramento Tributaries	\$83,000	\$83,000	\$0	\$0	\$83,000		Existing conditions report and recommendation for future action including monitoring.	90% complete.

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96-M25	Battle Creek - Chinook Salmon & Establish Watershed Conservancy	Western Shasta RCD	Sacramento Tributaries	\$50,000	\$50,000	\$25,065	\$50,000	\$0		Monitoring is part of a recently approved Battle Creek project. See 98-B16.	50% complete.
96-M26	Prospect Island - Develop Monitoring Plan	DWR	Delta	\$35,000	\$35,000	\$35,000	\$0	\$0		Monitoring plan is complete.	Completed.
96-M27	North Delta Area - Juvenile Salmon Rearing	CSU, Sacramento	Delta	\$24,500	\$24,500	\$9,245	\$0	\$0		Inventory of rearing habitat for fisheries, including fisheries surveys.	75% Complete
97-M01	Wilson Ranch screen (A313)	Deseret Farms of Calif.	Sacramento Mainstem	\$200,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft contract sent to Deseret Farms of California.
97-M02	Battle Creek screens and fish passage (A194)	Department of Water Resources	Battle Creek	\$395,000	\$395,000		\$0	\$0		See 98-B16	DWR has completed first phase of work; remaining work in progress.
97-M03	Gorrill Dam screen and ladder (A179)	Gorrill Land Company	Butte Creek	\$369,641	\$369,641	\$61,191	\$755,948	\$268,318		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Project is complete.
97-M04	Adams Dam screen and passage (A330)	Ducks Unlimited, Inc.	Butte Creek	\$217,000	\$217,000	\$157,500	\$508,192	\$171,000		Increase upstream passage of returning adults. Monitoring of fish behavior at the entrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Project is complete.
97-M05	Saeltzer Dam Fish Passage (A108)	Townsend Flat Water Ditch Company	Clear Creek	\$138,200	\$0	\$0	\$0	\$0		Increase upstream passage of returning adults. Monitoring of fish behavior at the entrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	USBR undertaking environmental and permitting tasks; so CUWA's funding for this project was reduced by about \$100,000. Project on hold until negotiations between Townsend Flat Water Ditch Co. and USBR regarding water rights are
97-M06	Hastings Tract screen feasibility study (A314)	Hastings Island Land Company	Delta	\$27,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Draft contract being prepared.
97-M07	Banta-Carbona fish screen (A101)	Banta-Carbona Irrigation District	San Joaquin Mainstem	\$938,875	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Received proponents indication of desire to proceed. Contract under preparation.
97-M08	Tuolumne River channel restoration (Pool 9) (H134)	Turlock Irrigation District	Tuolumne River	\$2,353,100	\$0	\$0	\$0	\$0		Increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture experiments. Protect and restore spawning habitats and their durability. Monitor flows and geomorphic and channel characteristics pre and post project. Survey spawning activity, pre and post project.	Negotiating a change of scope for review by CALFED.
97-M09	Tuolumne River setback levees and channel restoration (H136)	Turlock Irrigation District	Tuolumne River	\$2,801,000	\$0	\$0	\$0	\$0		Increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture experiments. Protect and restore spawning habitats and their durability. Monitor flows and geomorphic and channel characteristics pre and post project. Survey spawning activity, pre and post project.	Negotiating a change of scope for review by CALFED.
			Total:	\$ 27,958,105	\$21,499,930	\$13,387,758					
			43		77%	48%					77%
			Contracts		Obligated	Expended					Executed

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Contract Agency: U.S. Bureau of Reclamation (Federal funds)											
97-B01	Watershed improvements/sediment stabilization (Deer, Mill, Antelope Creeks) (F5)	US Forest Service	Sacramento Tributaries	\$371,000	\$371,000	\$50,000	\$0	\$69,000		Existing long-term condition monitoring program in place	Contract executed 3/16/98.
97-B02	Sedimentation movement and availability and monitoring in the Delta (D283)	USGS	Delta	\$1,046,200	\$1,046,200	\$243,000	\$0	\$0		Describe the movement and availability of sediment in the Delta, as needed for habitat restoration. Monitor sediment transport (suspended load and bedload) at several locations.	Contract executed 3/16/98 for \$587,000. Contract executed 5/21/98 for \$460,000.
97-B03	Liberty Island acquisition (K207)	USFWS	Delta	\$8,577,000	\$8,577,000	\$0	\$25,000	\$0	4,760 ¹	Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats. Measure distribution of habitats and species populations.	Contract executed 3/11/98. NEPA documentation underway. Acquisition expected by 10/31/99.
97-B04	Acquisition and restoration of Refuge lands (SJR NWR) (L209)	USFWS	San Joaquin Mainstem	\$10,647,000	\$10,647,000	\$1,651,000	\$0	\$9,353,000	6169 ¹	Protect and restore lands, riparian corridors, and other wetland habitats. Measure distribution of habitats and species populations.	Contract executed 3/11/98. One parcel acquired, appraisals underway on other parcels. Closure expected in Sept.
97-B05	Bear Creek floodplain restoration demonstration project (SLNWR) (L212)	USFWS	Bear Creek	\$334,000	\$334,000	\$332,000	\$0	\$80,000	1326 ²	Protect and enhance riparian, floodplain and wetland habitats. Measure distribution of habitats and species populations.	Contract executed 3/14/98.
97-B06	Assessment of organic matter in the habitat and its relationship to the food chain (J3)	USGS	Other	\$1,400,000	\$1,400,000	\$382,000	\$0	\$0		Evaluate habitat influences on the production and utilization of organic matter as food source in the Delta, and improve modeling capabilities. Obtain or measure food quality and quantity from various locations and habitat types	Contract executed 3/16/98 for \$517,000. Contract executed 7/22/98 for \$833,000.
98-B01	Richter Brothers screen (A226)	Richter Brothers	Sacramento Mainstem	\$49,000	\$49,000	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 6/5/98.
98-B02	Boeger Family Farm screen (A319)	Boeger Family Farms	Sacramento Mainstem	\$15,000	\$15,000	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 8/18/98.
98-B03	ACID fish passage (A215)	Anderson-Cottonwood Irrigation District	Sacramento Mainstem	\$325,000	\$325,000	\$325,000	\$0	\$50,000		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 6/5/98.
98-B05	Sand and Salt Creek watershed project (F189)	Colusa County Resource Conservation District	Colusa Basin	\$598,633	\$598,633	\$23,000	\$0	\$1,508,000		Evaluate different application practices and vegetation conditions on impact to level of surface runoff of OP pesticides and sediments. Water quality and flow measurements in runoff adjacent to sites. Evaluate if stable grade conditions will reduce erosion. Site erosion monitoring, pre and post project.	Executed 6/24/98.
98-B07	Evaluation of selenium sources, levels, and consequences in the Delta (B103)	USGS	Delta	\$1,588,709	\$1,588,709	\$225,000	\$0	\$1,190,655		Evaluate sources of selenium at various times and locations. Collect and analyze water column samples. Evaluate impact of selenium on critical prey/indicator species at various times and locations, and relate to impacts on species of concern. Collect and analyze selected prey/indicator species. Measure levels and kinetics in species of concern under controlled uptake conditions.	Interagency contract executed 8/12/98.
98-B08	Cache Slough habitat enhancement (M315)	Reclamation District No. 2060	Delta	\$85,000	\$85,000	\$0	\$0	\$0	9 ²	Restoration of levee using environmentally friendly approaches. Sediment deposition/accretion and topographic surveys, pre and post project. Survey of vegetation survivorship, diversity and growth at various increments of time.	Executed 6/2/98.

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98-B09	IPM Partnership to Improve Water Quality in Suisun Bay and Local Creeks (B236)	Central Contra Costa Sanitary District	Delta	\$266,000	\$266,000	\$16,000	\$0	\$191,000		Increase awareness of users to detrimental impacts and mitigations approaches. User survey on participation, value, and product sales pre and post implementation. Reduce the runoff levels as a result of implementation. Concentration of OP pesticides in influent of waste water, and may have urban creek water quality measurements, and compare pre and post project.	Executed 8/20/98.
98-B10	Inventory of forest road systems, Cat Creek Watershed (F65)	US Forest Service	Cosumnes River	\$38,000	\$38,000	\$0	\$0	\$0		Develop watershed restoration plan to reduce erosion. Monitor aquatic habitat and channel characteristics, water chemistry and species population/use.	Executed 8/6/98.
98-B11	Woodbridge fish screen and passage (A197)	Woodbridge Irrigation District	Mokelumne River	\$1,575,000	\$1,575,000	\$79,000	\$0	\$0		Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 6/30/98.
98-B13	Napa River Wetlands acquisition (M131)	Napa County Land Trust	Northbay	\$1,000,000	\$1,000,000	\$0	\$0	\$0	956	Protect and restore native marsh wetland habitat. Monitor vegetation, fish and wildlife populations.	Executed 9/24/98.
98-B14	Bacterial treatment of Selenium in the Panoche Drainage (B273)	UC Berkeley	San Joaquin Mainstem	\$1,148,326	\$1,148,326	\$140,000	\$0	\$0		Demonstrate the effectiveness of microalgae as a substrate for nitrate and selenium reduction in agricultural discharge water. Treatment effectiveness and operational issues. Costs of process, to estimate costs for full scale operation.	Executed 9/9/98.
98-B15	Evaluation of tagging data (I80)	Northwest Marine Technology Inc	Landscape	\$625,000	\$625,000	\$0	\$0	\$0		Evaluate feasibility and benefits for mass marking techniques. Data review on tagging and recovery.	Executed 7/1/98.
98-B16	Battle Creek screens and fish passage (A194)	Department of Water Resources	Battle Creek	\$395,000	\$395,000	\$5,000	\$0	\$0		Increase upstream passage of returning adults over barriers to make habitat available for spawning and rearing. Video observation and radiotag tracking at the CNFH fish ladder. Monitor and estimate populations via snorkel, carcass counts, redd and aerial surveys. Measure relative abundance, distribution and emigration timing of juveniles via screwtrap. Measure and evaluate fish injury with CNFH passage using organosomatic index. Measurement of flow and velocity at various stage heights to determine performance and reliability to design standards. Preclude passage of hatchery fish during their return to the hatchery. Direct observations at weir and upstream; tracking of radio tagged fish. Increase riverine habitat quality and quantity (flow). Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Executed 9/10/98.
98-B17	Cosumnes floodplain acquisition and restoration (H307)	The Nature Conservancy	Cosumnes River	\$3,400,000	\$3,500,000	\$3,500,000	\$0	\$0	2,256 ¹	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Executed 7/8/98.
98-B21	Anadromous Fish Passage at Clough Dam on Mill Creek (B1000)	Department of Water Resources	Mill Creek	\$1,280,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B22	Fish Passage Improvement Project at the Red Bluff Diversion Dam (B1004)	Tehama-Colusa Canal Authority	Sacramento Mainstem	\$340,600	\$340,600	\$0	\$0	\$0		Similar to 98-B16	Executed 3/8/99.
98-B23	Steelhead and Chinook Salmon Fish Passage Barrier Remediation on the Guadalupe River (B005)	Natural Heritage Institute et. al.	Other	\$178,200	\$0	\$0	\$0	\$0		Increase upstream passage of returning adults. Measure physical configuration and velocities. Observation of upstream migration.	Agreement sent 3/16/99.

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98-B24	ACID Fish Passage and Fish Screen Improvement Project, Phase II, Final Design (B1007)	Anderson-Cottonwood Irrigation District	Sacramento Mainstem	\$860,000	\$0	\$1	\$0	\$0		Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats	Agreement sent 3/11/99.
98-B25	Cosumnes River Salmoid Barrier Program Fishery(B1009)	Foundation of California	Cosumnes River	\$188,255	\$188,255	\$0	\$0	\$188,255		Increase upstream passage of returning adults. Pre and Post project monitoring of spatial and temporal spawning distribution and spawning habitat.	Executed 3/11/99.
98-B26	Boeger Family Farm Fish screen Phase II: Construction (B1014)	Boeger Family Farms	Sacramento Mainstem	\$139,500	\$0	\$0	\$0	\$139,500		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B27	Hastings Tract Fish Screen Phase II: Construction (B1015)	Hastings Island Land Company	Delta	\$271,250	\$0	\$0	\$0	\$271,750		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B28	City of Sacramento Fish Screen Replacement Project Phase 2 - Design (B1016)	City of Sacramento	Sacramento River	\$654,500	\$0	\$0	\$0	\$745,000		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B29	American Basin Fish Screen and Habitat Improvement Project (B1017)	Natomas Mutual Water Company	Sacramento River	\$200,000	\$0	\$0	\$200,000	\$0		Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B30	San Joaquin Valley Salmonids in the Classroom Program Enhancement (H1001)	Department of Fish and Game	San Joaquin River	\$3,000	\$0	\$0	\$0	\$0		Increase student awareness of issues and needs of aquatic, and terrestrial natural resources.	Executed.
98-B31	Traveling Film Festival/Heron Booth/Video Archive (H1002)	Independent Documentary Group	Landscape	\$54,000	\$54,000	\$36,000	\$0	\$0		Increase public awareness of issues and needs of functional river system.	Executed 2/23/99.
98-B32	Environmental Agriculture Conferences and Field Tours (H1005)	Committee for Sustainable Agriculture	Other	\$28,000	\$28,000	\$14,000	\$0	\$0		Increase farmer awareness of issues and needs of functional river system.	Executed 2/25/99.
98-B33	Sacramento River, Headwaters to the Ocean, Public Information and Education (H1006)	Sacramento River Discovery Center	Sacramento River	\$49,640	\$49,640	\$8,000	\$410,000	\$1,082,500		Increase public awareness of issues and needs of functional river system.	Executed 2/25/99.
98-B34	Discover the Flyway (H1008)	Yolo Basin Foundation	Delta	\$49,000	\$49,000	\$0	\$0	\$0		Increase student awareness of wetlands and wildlife issues in the Yolo Basin.	Executed 3/22/99.
98-B35	The Butte Creek Watershed Educational Workshops and Field Tours Series (H1010)	CSU-Chico	Sacramento River	\$33,000	\$33,000	\$0	\$0	\$0		Increase public awareness of issues and needs of aquatic and terrestrial natural resources.	Executed 3/15/99.
98-B36	Bay-Delta Environmental Restoration Education Program (H1015)	Water Education Foundation	Landscape	\$40,000	\$40,000	\$0	\$0	\$0		Increase public awareness of environmental issues in the Bay-Delta.	Executed 3/8/99.
98-B37	The Virtual Science Center and Hands-on Learning Programs (H1016)	The Delta Science Center at Big Break	Delta	\$42,000	\$0	\$1	\$0	\$0		Increase public awareness of environmental issues in the Bay-Delta.	Contractor not responding.
98-B38	Water Hyacinth Education Program (H1017)	Sacramento Regional County Sanitation District	Other	\$9,600	\$0	\$2	\$0	\$0		Increase public awareness of issues related to release of hyacinth.	Executed.

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98-B39	Water Challenge 2010 (H1018)	San Francisco Bay Model Visitor Center, USACE	Landscape	\$64,500	\$64,500	\$0	\$0	\$15,000		Increase public awareness of environmental and water management issues in the Bay-Delta.	Executed 3/5/99.
98-B40	Tuolumne River Natural Resources Program (H1019)	City of Modesto	Delta	\$44,700	\$0	\$0	\$0	\$0		Increase public awareness of issues and needs of river system environment.	Executed.
99-B01	Battle Creek Salmon and Steelhead Restoration Project (DA1)	PG&E	Sacramento Tributary	\$28,000,000	\$49,000	\$49,000	\$0	\$0		Increase upstream passage of winter-run salmon and spring-run salmon	Contract being prepared.
99-B02	Lower Butte Creek Project Phase II (DA3)	Ducks Unlimited, Inc.	Sacramento Tributary	\$775,000	\$0	\$0	\$0	\$0		Increase upstream passage of returning adult s. Reduce entrainment of outmigrating fish.	Contract being prepared.
99-B03	ACID Fish Passage and Fish Screen Improvement Project, Phase III (DA4)	Anderson-Cottonwood Irrigation District	Sacramento Mainstem	\$5,253,000	\$0	\$0	\$0	\$0		Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Evaluate the impact of shallow water restoration actions on water quality. Collect and conduct physical/chemical analysis of water and soil samples.	Contract being prepared.
99-B04	Merced River Salmon Habitat Enhancement; Lower Stone (DA6)	Dept. of Water Resources	Merced River	\$130,000	\$0	\$0	\$0	\$0		Reduce entrainment of outmigrating fish. Measure temperature and fish distribution and abundance.	Contract being prepared.
99-B05	Merced River Salmon Habitat Enhancement; Ratzlaff Reach (DA7)	Dept. of Water Resources	Merced River	\$1,633,000	\$0	\$0	\$0	\$0		Same as 99-B04	Contract being prepared.
99-B06	Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta Watershed	Dept. of Fish and Game	Bay-Delta	\$3,800,000	\$0	\$0	\$0	\$710,000		Determine bioavailable sources of mercury in the Bay-Delta Watershed. Obtain data on mercury levels in fish and complete pilot mine remediation feasibility studies.	Contract being prepared.
			Total: \$	\$77,604,613	\$34,479,863	\$7,078,004					
			46		44%	9%					67%
			Contracts		Obligated	Expended					Executed

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Contract Agency: US Environmental Protection Agency (Federal funds)											
97-E01	Watershed Plan (Big Chico Creek) (F219)	Big Chico Creek Watershed Alliance	Big Chico Creek	\$295,313	\$295,313	\$118,125				Reduce impacts of past and ongoing land use practices to enhance aquatic habitats. Conduct riparian and geomorphic surveys, pre and post project.	\$127,517 will be obligated in April. EPA watershed funds.
97-E02	Watershed planning (Deer Creek) (F237)	Deer Creek Watershed Conservancy, CSU Chico	Deer Creek	\$196,554	\$196,554	\$78,622		\$231,000		Reduce land use practices detrimental to aquatic environments. Monitor water quality.	Executed.
98-E01	Napa River watershed (M92)	Napa County Resource Conservation District	Northbay	\$252,000	\$252,000	\$145,378	\$0	\$0		Protect and enhance the riparian and riverine habitats. Monitor habitat characteristics, geomorphology and bank stability, flow/runoff, species assessments, and water quality. Facilitate broadbased local stakeholder group in development of watershed plan. Develop river model to assess alternative scenarios. Collect flow and channel/geomorphology data.	Executed 5/29/98.
98-E02	Sonoma Creek watershed (M113)	Southern Sonoma County Resource Conservation District	Northbay	\$302,000	\$302,000	\$80,738	\$0	\$0		Protect and enhance the riparian and riverine habitats. Monitor riverine conditions: gravel, temperature. Riparian monitoring and non native control. Implement environmentally-responsible vineyard management practices. Monitor water quality and habitat characteristics. Increase public awareness of issues and needs of aquatic and terrestrial natural resources. Increase upstream passage of returning adults.	Executed 5/29/98.
98-E03	Regional Wetlands Goals Project (M130)	San Francisco Estuary Institute	Northbay	\$76,000	\$76,000	\$0	\$0	\$0		Evaluate restoration and rehabilitation needs of region.	Completed.
98-E04	Petaluma River Watershed Restoration Program (G1014)	Southern Sonoma County Resource Conservation District	Northbay	\$220,000	\$220,000	\$0	\$0	\$0		Evaluate and implement restoration and rehabilitation needs of the region.	Executed 5/13/99
98-E05	Cottonwood Creek Watershed Group Formation (G1015)	Cottonwood Creek Watershed Group	Sacramento Tributary	\$161,000	\$161,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed on 5/11/99
98-E06	Battle Creek Watershed Stewardship (G1018)	Battle Creek Watershed Conservancy	Battle Creek	\$145,000	\$145,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Improve watershed practices to reduce detrimental impacts on aquatic habitats.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected by end of June.
98-E07	Local Watershed Stewardship: Steelhead Trout Plan (G1022)	Friends of Corte Madera Creek Watershed	Northbay	\$47,500	\$47,500	\$0	\$0	\$0		Develop steelhead restoration plan. Collect fish habitat and population information and thermograph data.	Executed on 4/2/99.
98-E08	Cold Water Fisheries and Water Quality Element (G1023)	City of San Jose Environmental Services Department	Other	\$200,000	\$200,000	\$0	\$0	\$0		Evaluate restoration needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF subagreement is expected by end of May.
98-E09	Merced River Corridor Restoration Plan (G1026)	Stillwater Sciences & Merced Co. Planning & Comm. Develop. Dept.	San Joaquin River	\$300,000	\$300,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 5/25/99

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CALFED No.	Project Description	Applicant	Geographic Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funds	Other Funds	Acres	Monitoring	Status
98-E10	South Yuba River Coordinated Watershed Management Plan (G1029)	Department of Parks and Recreation	Sacramento River	\$264,000	\$264,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 5/13/99
98-E11	Watershed Restoration Strategy for the Yolo Bypass (G1033)	Yolo Basin Foundation, Inc.	Delta	\$244,188	\$244,188	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected by
98-E12	Proposal to Develop Local Watershed Stewardship Plan for the Lower Mokelumne River (G1029)	San Joaquin County Resource Conservation District	Mokelumne River	\$159,000	\$159,000	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Executed 4/9/99
98-E13	Union School Slough Watershed Improvement Program (G1040)	National Audubon Society - California	Other	\$636,000	\$636,000	\$0	\$0	\$0		Develop and implement riparian restoration project on farms. Water quality and habitat surveys	Executed 5/25/99
98-E14	American River Integrated Watershed Stewardship Strategy (G1047)	Placer County Resource Conservation District	Sacramento River	\$220,750	\$220,750	\$0	\$0	\$0		Evaluate restoration needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected by end of May.
98-E15	Sulphur Creek Coordinated Resource Management Planning Group (G1049)	Sacramento Watersheds Action Group	Sacramento River	\$23,828	\$23,828	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in implementation of restoration activities.	Executed 5/13/99
98-E16	Lower Putah Creek Watershed Stewardship Program (G1052)	Solano County, Department of Environmental Management	Sacramento Tributary	\$100,500	\$100,500	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration and rehabilitation needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected by end of April.
98-E17	Alhambra Creek Watershed CRMP Program (G1053)	Contra Costa Resource Conservation District	Suisun Marsh	\$138,500	\$138,500	\$0	\$0	\$0		Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate and implement restoration and rehabilitation needs of region.	Executed 4/8/99
			Total:	\$ 3,982,133	\$3,982,133	\$422,863					
			19		100%	11%					100%
			Contracts		Obligated	Expended					Executed

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CALFED No.	Project Description	Applicant	Geographic Area	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funds	Other Funds	Acres	Monitoring	Status
Contract Agency: US Fish and Wildlife Service (Federal funds)											
98-F01	Butte Creek Watershed (F222,224,225)	CSU Chico	Butte Creek	\$261,300	\$261,300	\$0	\$0	\$0		Evaluate erosion sediment sources and implement corrective actions. Inventory road infrastructure and erosion features and changes over time. Protection and enhancement of riparian corridors and floodplain habitats and processes. Collect geomorphic data (channel incisions, gravel deposits, terraces, etc.) in channel and riparian characterization via surveys. Increase awareness of issues and needs of watershed health.	Executed.
98-F02	Butte Creek Watershed Coordinator Assistant (F221)	Butte Creek Watershed Conservancy	Butte Creek	\$32,700	\$32,700	\$0	\$0	\$0		Improve coordination of watershed groups and restoration activities.	Contract under preparation.
98-F03	Butte Creek acquisition and riparian restoration (G218)	CSU, Chico	Butte Creek	\$125,000	\$125,000	\$125,000	\$0	\$0	80	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Executed.
98-F04	Lower Mill Creek riparian restoration (G292)	Mill Creek Conservancy, The Nature Conservancy	Mill Creek	\$29,730	\$29,730	\$0	\$0	\$0	74 ²	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Executed.
98-F06	Tuolumne River setback levees and channel restoration (H136)	Turlock Irrigation District	Tuolumne River	\$655,700	\$0	\$655,700	\$0	\$0		Improve and restore spawning habitat and durability. Monitor geomorphology (pebble counts, tracer rocks, stabilization) and channel characteristics, pre and post project and after flow events. Conduct redd counts and other use surveys. Conduct tracer rock evaluations. Improve survival of outmigrating smolts due to predation. Measure conversion of predator habitat (temperature, flow, transit, channel cross section). Survey predator population density. Conduct mark-recapture of smolts. Improve and restore riparian communities. Monitor composition, distribution, and survival of plantings pre and post project.	Executed 9/3/98.
98-F07	Grayson River Ranch Perpetual Easement and Restoration (C1003)	East Stanislaus RCD and Friends of the Tuolumne	San Joaquin River	\$732,000	\$732,000	\$0	\$0	\$311,000	140 ¹	Protect and enhance riparian and floodplain habitats. Measure species diversity and populations compared with desired conditions.	Executed
98-F08	Hill Slough West Habitat Demonstration Project (C1004)	Department of Fish and Game, Bay-Delta and Special Water Project Division	Suisun Marsh	\$200,000	\$200,000	\$0	\$0	\$0		Restore tidal action of seasonal and permanent wetlands. Survey fishery and wildlife use and habitats. Survey vegetation composition, growth, trends and recruitment.	Agreement signed by Cooperator 1/7/99. Implementation begun.
98-F09	Rhode Island Floodplain Management and Habitat Restoration (C1006)	Department of Fish and Game	Della	\$25,000	\$25,000	\$0	\$0	\$0	67 ²	Restore and improve floodplain functions and shallow water and riparian habitat. Survey of fish and avian use. Survey of habitat conditions.	Cooperative Agreement sent to Applicant for signature 1/13/99. 30-day notice sent.
98-F10	Nelson Slough Wildlife Area Restoration Demonstration Project (C1008)	Department of Fish and Game	Sacramento River	\$256,476	\$256,476	\$0	\$0	\$10,000	85 ²	Evaluate effectiveness of passive floodplain functioning to restore riparian and wetland vegetation. Monitor natural colonization of vegetation; fish use of floodplain; and fish stranding.	Contract under preparation.
98-F11	Phase 3 - Merced River Salmon Habitat Enhancement (C1009)	Department of Fish and Game	Merced River	\$2,433,759	\$2,433,759	\$0	\$2,433,759	\$790,000		Monitor physical processes, abundance of fish, revegetation and predation. Topo surveys, fish sampling. Mark/recapture, photo survey, population census.	Executed

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98-F12	Stone Lakes NWR Land Acquisitions (C1010)	US Fish and Wildlife Service, Sacramento Realty Office	Delta	\$1,900,000	\$1,900,000	\$0	\$0	\$0	658 ¹	Protect and restore tidal and seasonal wetlands, riparian corridors and upland habitats. Survey for fish and wildlife use.	Funds transferred to USFWS, Sacramento Realty Office. Implementation begun. Offer made on one property 3/3/99.
98-F13	Petaluma Marsh Expansion Project - Marin County (C1016)	Marin Audubon Society	Northbay	\$352,135	\$352,135	\$0	\$0	\$525,885	181	Protect and restore tidal marsh. Evaluate fish and avian use, sedimentation and other channel/geomorphic processes, vegetation and habitat characterization	Agreement signed by Cooperator 1/7/99. Implementation begun.
98-F14	South Napa River Wetlands Acquisition and Restoration Program (C1017)	Napa County Land Trust	Northbay	\$431,000	\$431,000	\$0	\$0	\$65,000	600	Recolonization of native plants, plant surveys and survival rates. Monitor tidal and over bank flows and sedimentation.	Executed
98-F15	Lower Clear Creek Floodway Restoration Project (C024)	Western Shasta Resource Conservation District	Sacramento River	\$3,559,596	\$3,559,596	\$0	\$500,000	\$0	70	Improve spawning and rearing habitat and its durability. Survey spawning habitats and spawning/rearing use. Conduct tracer rock evaluations across different locations. Monitor flows and geomorphic and channel characteristics over time. Reduce stranding of outmigrating/rearing fish. Visual, seining and electrofishing survey following flood events. Restore natural functioning riparian communities. Map and characterize the composition of vegetation	Executed
98-F16	Fern-Headreach Tidal Perennial Aquatic and Shaded River Aquatic	Thomas Luckey (L & L Farms, LLC)	Delta	\$425,000	\$425,000	\$0	\$0	\$0	168 ²	Project will protect riparian and tidal shallow water habitat. Survey for fish and wildlife use.	Executed
98-F17	Benicia Waterfront Marsh Restoration (C1026)	City Of Benicia	Suisun Marsh	\$59,000	\$59,000	\$0	\$0	\$0	8 ²	Restore tidal action to salt marsh habitat to provide tidal saline emergent wetlands. Survey target wetland vegetation and removal of exotic plants. Survey for fish and wildlife use.	Agreement signed by Cooperator 1/13/99. Implementation begun.
98-F18	Floodplain Acquisition, Management, and Monitoring on the Sacramento River (C1028)	The Nature Conservancy, Wildlife Conservation Board, and others.	Sacramento Mainstem	\$1,000,000	\$1,000,000	\$0	\$0	\$0	500	Develop projectwide monitoring to assess channel meander and habitat restoration. Survey geomorphologic processes and floodplain habitat response.	Cooperative Agreement submitted to FWS Regional Office for review and approval 3/1/99.
98-F19	Cosumnes River Acquisition, Restoration Planning and	The Nature Conservancy	Cosumnes River	\$750,000	\$750,000	\$0	\$0	\$0	800 ²	Acquire and restore floodplain and wetland habitat and functions. Monitor habitat characteristics and species use.	Cooperative Agreement submitted to FWS Regional Office for review and approval 3/1/99.
98-F20	Deer and Mill Creeks Acquisition and Enhancement (C1033)	The Nature Conservancy	Sacramento River Tributaries	\$1,000,000	\$1,000,000	\$0	\$0	\$0	2,500 ¹	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Cooperative Agreement submitted to FWS Regional Office for review and approval 3/3/99.
98-F21	Lower San Joaquin River Floodplain Protection and Restoration Project (C1038)	US Fish and Wildlife Service, San Luis National Wildlife Refuge	San Joaquin River	\$1,100,000	\$1,100,000	\$0	\$0	\$4,799,000	4,099 ¹	Protect and enhance riparian and floodplain habitats. Baseline habitat and wildlife surveys. Habitat mapping.	Funds transferred to USFWS, San Luis NWR Complex. Implementation begun. Appraisals made and negotiations underway to acquire
98-F22	Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay	California State University Hayward	Suisun Marsh	\$772,667	\$772,667	\$0	\$0	\$243,812	272 ²	Restore emergent and immersed marshland. Monthly monitoring for sedimentation, water quality, vegetation, fish and avian use and populations, and planktonic foods.	Agreement signed by Cooperator 1/4/99. Implementation begun.
98-F23	South Napa River Tidal Slough and Floodplain Restoration Project	City of American Canyon	Northbay	\$1,455,000	\$1,455,000	\$0	\$0	\$718,000	519 ²	Monitor return of tidal flows, recolonization of native plants, survival of riparian vegetation and fish utilization.	Agreement signed by Cooperator 1/9/99. Implementation begun.

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98-F24	Butte Creek Riparian Restoration Demonstration (C1046)	Don Holtgrieve, Department of Geography and Planning, CSU Chico	Butte Creek	\$76,348	\$76,348	\$0	\$0	\$0		Monitor revegetation success. Bioassessment of benthic invertebrates. Water quality monitoring. Wildlife inventories.	Agreement signed by Cooperator 2/11/99. Implementation begun.
98-F25	Exotic Species Control Program	U.S. Fish and Wildlife Service	Watershed	\$1,250,000	\$1,250,000	\$0	\$0	\$0		CALFED has developed this program to identify and implement projects addressing exotic species control.	Projects under this program will be selected through the current PSP.
99-F01	Restore Special Run Pool 10 Reach (DA8)	Turlock Irrigation District	Tuolumne River	\$165,000	\$0	\$0	\$356,000	\$0		Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.
99-F02	Restore MJ Ruddy Reach (DA9)	Turlock Irrigation District	Tuolumne River	\$3,332,000	\$0	\$0	\$3,079,000	\$0		Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.
99-F03	Restore habitat on McCormack-Williamson levees (DA13)	The Nature Conservancy	Delta	\$860,000	\$0	\$0	\$0	\$250,000		Monitor riparian vegetation, wildlife, avian and fish resources.	Proponent expects to sign option 4/99.
99-F04	McCormack-Williamson Tract Acquisition (F1-	The Nature Conservancy	Delta	\$5,250,000	\$0	\$0	\$0	\$0	1655 ¹	See 99-F03	Proponent expects to sign option 4/99.
			Total: \$	\$28,489,411	\$18,226,711	\$780,700					
			28		%						46%
			Contracts		Obligated	Expended					Executed

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98-A01	Prospect Island (DA)	Delta		\$2,000,000	\$2,000,000	\$1,671,000	\$0	\$0		Repair levee breach and pump out island	Project complete.
98-A02	Flood Control Bypass	Delta		\$1,200,000	\$1,200,000	\$4,000	\$0	\$0		CALFED has identified this program to fund Flood Control Bypass habitat projects. They are now developing a strategy for implementation.	Developing strategy. Projects under this program will be selected through the current PSP.
99-A01	Prospect Island Monitoring Project (DAS)	Delta		\$915,000	\$0	\$0	\$0	\$0		Restore 1,300 acres of shallow water habitat. Monitor fish, wildlife, water quality, vegetation, sediments, nutrients and benthic communities.	Contract being prepared
				Total: \$	\$4,115,000	\$3,200,000	\$2,455,700				
				Contracts	3	78%	60%				33%
						Expended					Executed

Contract Agency: US Army Corps of Engineers (Federal funds)

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E-031707

E-031707

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Contract Agency: National Resources Conservation Service (Federal funds)											
98-R01	Small Diversion Fish Screen Program	NRCS	Delta	\$900,000	\$900,000	\$0	\$0	\$0		Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Funds will be used to complete existing projects. New projects will be recruited through NRCS process.
99-R01	Floodplain Easements; Lower Tuolumne and San Joaquin	NRCS	San Joaquin River	\$1,545,000		\$0		\$1,500,000	1,200	Acquire and restore area prone to flood damage. Monitor vegetation and wildlife populations.	Contract being prepared
			Total: \$	\$2,445,000	\$900,000	\$0					
			²		37%	0%					0%
			Contracts		Obligated	Expended					Executed

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