

ERP TRACKING TABLE

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
<i>NFWF</i>											
1997-N01	Assessment and Implementation of Urban Use Reduction of Diazion and Chlorpyrifos (Sacramento County)	Environmental Water Quality	Sacramento Area Stormwater Permittees	Sacramento River	\$663,500	\$663,500	\$64,414	\$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. EMP/QAPP complete, sampling beginning, creating draft SOS for watershed model and ERA workshop.
1997-N02	Sacramento River Floodplain Acquisition and Riparian Restoration	Habitat Restoration	WCB, USFWS, The Nature Conservancy	Sacramento River	\$9,879,800	\$9,879,800	\$6,072,838	\$0	\$0	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. Two properties purchased.
1997-N03A	Sacramento River Acquisition and Riparian Forest Restoration	Habitat Restoration	USFWS, The Nature Conservancy	Sacramento River	\$780,000	\$780,000	\$292,713	\$0	\$0	Same as 97-N02	Contract signed 12/8/98. Property acquired and restoration project-planting and monitoring have begun.
1997-N03B	Sacramento River Floodplain Acquisition and Riparian Restoration	Habitat Restoration	WCB	Sacramento River	\$512,500	\$512,500	\$61,449	\$0	\$0	Same as 97-N02	Contract signed 7/20/99

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1997-N04	Sacramento River Meander Restoration	Habitat Restoration	The Nature Conservancy	Sacramento River	\$898,700	\$898,700	\$816,800	\$0	\$0	Same as 97-N02	Contract signed 10/28/98. Property purchased. Completing subcontracts for site preparation and planting.
1997-N05	Restoration Planning (M and N Fork American River, Auburn Ravine, Coon Creek)	Habitat Restoration	Placer County	American River Basin	\$222,530	\$222,530	\$0	\$0	\$222,530	Evaluate restoration needs toward the protection and improvement in water quality, aquatic habitat and its accessibility, and riparian communities.	Contract executed 3/29/99.
1997-N06	Butte Creek Acquisition and Riparian Restoration	Habitat Restoration	CSU, Chico	Butte Basin	\$187,128	\$187,128	\$161,092	\$0	\$135,000	Protect riparian habitat. Monitor revegetation. Similar to 97-N02.	Contract signed 12/21/98. Property acquired. Also funded with 98-F03. Ecological Reserve Management Plan received.
1997-N07	Cottonwood Creek Channel Restoration Planning	Habitat Restoration	Graham Matthews & Associates	Cottonwood Creek	\$61,000	\$61,000	\$26,617	\$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.	Contract signed 7/1/98. Work is ongoing.
1997-N08	Lower Mill Creek Riparian Restoration	Habitat Restoration	Mill Creek Conservancy, The Nature Conservancy	Butte Basin	\$69,000	\$69,000	\$10,493	\$30,000	\$109,670	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. Property acquired and site restoration plan and monitoring protocol received. Also funded with 98-F04
1997-N09	Monitoring of Delta Contaminants	Environmental Water Quality	San Francisco Baykeeper	Delta	\$100,000	\$100,000	\$55,752	\$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. Monitoring has begun.
1997-N10	Jepson Prairie Restoration and Conservation Plan	Habitat Restoration	Solano County Farmlands, Open Space Foundation	Delta	\$244,801	\$244,801	\$30,168	\$0	\$0	Restore habitat. Monitor vegetation/tree survivorship, abundance, size and distribution, pre and post project and comparison to control.	Contract signed 1/29/99. Plans prepared and restoration underway.

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1997-N11	In-Channel Island Restoration/Demonstration	Habitat Restoration	Association of Bay Area Governments	Delta	\$270,270	\$270,270	\$232,355	\$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. Plan Complete.
1997-N12	Franks Tract Restoration	Habitat Restoration	Moffat and Nichol Engineers, DPR, DWR	Delta	\$248,000	\$231,500	\$142,043		\$370,000	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. Budget amendment for \$16,500 recommended for approval - waiting Secretary's signature. 30% of design completed.
1997-N13	Tyler Island Levee Protection and Habitat Restoration Pilot Project	Habitat Restoration	Habitat Assessment & Restoration Team, Inc	Delta	\$885,202	\$885,202	\$373,170	\$0	\$0	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. Levee restoration and planting nearly complete, monitoring to begin.
1997-N14	Cosumnes Start-up Stewardship and Restoration	Habitat Restoration	WCB, The Nature Conservancy	Eastside Delta Tributaries	\$1,975,100	\$1,975,100	\$460,955	\$0	\$0	Conduct baseline monitoring of riparian vegetation, wildlife, avian and fish resources	Contract signed 6/22/99. Property will be acquired.

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1997-N16	Bay Point Shoreline Restoration Plan	Habitat Restoration	East Bay Regional Park District	Suisun Marsh & North Bay	\$185,000	\$185,000	\$0	\$0	\$53,900	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 8/21/98. Subcontract with consultant complete (plan), final negotiation of 2nd subcontract (design) underway.
1997-N18	Cullinan Ranch Restoration	Habitat Restoration	Ducks Unlimited, Inc.	Suisun Marsh & North Bay	\$368,500	\$368,500	\$0	\$0	\$662,000	See 97-N16	Contract executed 3/30/99. Monitoring ready to start.
1997-N19	Tolay Creek Restoration	Habitat Restoration	Ducks Unlimited, Inc.	Suisun Marsh & North Bay	\$283,000	\$283,000	\$232,090	\$0	\$422,000	See 97-N16	Contract and first task order approved by CALFED and signed 10/17/98. Construction complete, monitoring has begun.
1997-N20	Implementing Programs to Reduce the Use of Pesticides and Fertilizers in Sacramento and San Joaquin Watersheds	Environmental Water Quality	Community Alliance with Family Farmers	Landscape	\$1,680,631	\$1,680,631	\$916,999	\$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. Task 1-3 almost complete, transitioning to BIOS program.
1997-N21	Knights Ferry Gravel Replenishment	Habitat Restoration	Carl Mesick Consultants	East San Joaquin	\$536,410	\$536,410	\$458,970	\$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. Gravel placement almost complete, monitoring has begun.
1998-N01	RD 2035 Fish Screen	Fish Screen/Passage	RD 2035	Sacramento River	\$100,000	\$100,000	\$0	\$225,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Contract executed 3/31/99. Subcontract approved

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1999-N08	Assessment of Pesticide Effects on Fish & Their Food Resources in the Sacramento/San Joaquin Delta	Environmental Water Quality	UC Berkeley	Landscape	\$1,586,894	\$0	\$0	\$0			Scope okay, waiting for invoicing resolution.
1999-N09	Effects of Introduced Species of Zooplankton & Clams on the Bay-Delta Food Web	Introduced & Undesirable Species	SF State University	Landscape	\$653,384	\$0	\$0	\$0			Waiting for review.
1999-N10	Assessing Ecological & Economic Impacts of the Chinese Mitten crab	Introduced & Undesirable Species	UC Berkeley	Landscape	\$113,033	\$0	\$0	\$0			Scope okay, waiting for invoicing resolution.
1999-N11	Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento-San Joaquin River Delta System	Introduced & Undesirable Species	DFA	Landscape	\$127,473	\$127,473	\$0	\$0			Contract signed 10-12-99.
1999-N12	Central Valley Steelhead Genetic Evaluation	Fish Management/Hatchery	DFG	Landscape	\$70,636	\$0	\$0	\$0			Contract sent for contractor signature 12/99.
1999-N13	Development of a Comprehensive Implementation Plan for a Statistically Designed Marking & Recovery Plan	Fish Management/Hatchery	DFG	Landscape	\$74,951	\$0	\$0	\$0			Received new deliverable schedule 1/5/00
1999-N14	Colusa Basin Watershed Project	Watershed Management	Colusa County RCD/Colusa Basin Drainage District	Colusa Basin	\$492,500	\$0	\$0	\$0	\$0		Waiting for approval
1999-N15	Lower Mokelumne Stewardship	Watershed Management	San Joaquin Resource Conservation District	Eastside Delta Tributaries	\$227,000	\$0	\$0	\$0	\$0		Waiting for approval
1999-N16	Clear Creek Prescription	Watershed Management	Western Shasta Resource Conservation District	North Sacramento Valley	\$256,260	\$0	\$0	\$0	\$0		Waiting for approval
1999-N17	Yuba Watershed Council	Watershed Management	Yuba Watershed Council/Nevada City RCD	Feather River and Sutter Basin	\$142,618	\$0	\$0	\$0	\$0		Waiting for approval
1999-N18	Levee Setback Geomorphic Model	Watershed Management	UC Davis	Landscape	\$104,458	\$0	\$0	\$0	\$0		Waiting for approval
1999-N19	American River (South and Middle Fork) Watershed Stewardship Project	Watershed Management	Georgetown Divdie Resource Conservation District	American River Basin	\$203,250	\$0	\$0	\$0	\$0		Waiting for approval
1999-N20	Napa River Watershed Stewardship Year 2	Watershed Management	Napa County Resource Conservation District	Suisun Marsh/North San Francisco Bay	\$191,100	\$0	\$0	\$0	\$0		Waiting for approval

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1999-N21	Development of a River corridor Management Plan for the Lower American River	Watershed Management	Sacramento City/Water Forum	American River Basin.	\$250,000						Waiting for approval
Summary for 'Contracting Agency' = NFWF (45 detail records)											
Sum					\$34,329,070	\$28,999,382	\$11,100,645	\$255,000	\$2,379,100		
PROP 204											
1997-C01	RD 108 Screen Construction	Fish Screen/Passage	RD 108	Sacramento River	\$2,500,000	\$2,500,000	\$2,413,077	\$6,001,037	3,550,000	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Construction 96% complete. Completed Amendment to extend contract 6 mos. through 12/31/99. High water levels delayed completion of construction but will be completed in 11/99.
1997-C02	Princeton Fish Screen Construction	Fish Screen/Passage	RD 1004	Sacramento River	\$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.	Construction complete. Start-up testings complete.
1997-C03	Watershed Management Planning for Sacramento River Riparian Program	Watershed Management	DWR	Sacramento River	\$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.
1997-C04A	Selected Fish Screens	Fish Screen/Passage	DFG	Sacramento River	\$374,850	\$374,850	\$28,955	\$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. One fish screen is 40% complete & other work is proceeding.
1997-C04B	Selected Fish Screens	Fish Screen/Passage	DWR	Suisun Marsh & North Bay	\$0	\$0	\$0	\$0	\$151,000	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Project cancelled.
1997-C05	Effects of Wetlands Restoration on Methyl Mercury Levels	Environmental Water Quality	UC Davis	Delta	\$546,171	\$546,171	\$125,385	\$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.	Completed purchase of mercury analyzer & have verified analytical methods. Field sampling & field sample analysis ongoing. Have completed 1st year summary report. Started mercury methylation experiments.

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1997-C06	Contaminant Effects on Smelt	Environmental Water Quality	UC Davis	Delta	\$437,326	\$437,326	\$66,454	\$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.	Archived smelt analysis started. Sampling conducted in cooperation w/ IEP & analysis of samples started.
1997-C07	Preventing Exotic Introductions from Ballast Water	Introduced & Undesirable Species	UC Sea Grant Extension Program	Landscape	\$222,830	\$222,830	\$38,708	\$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.	First newsletter completed, first video-conference & ballast forum held.
1997-C08	San Joaquin River Real-time Water Quality Management Program	Environmental Water Quality	DWR	San Joaquin River	\$931,857	\$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.	Water quality sampling and analysis ongoing. San Joaquin River Real-time Water Quality Forecast available on web to MOU cosigners each week.
1997-C09	Developing a Genetic Baseline for San Joaquin Salmon	Fish Management/Hatchery	DFG	San Joaquin River	\$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. Project has been delayed & they have requested a time extension. Genetic analysis started Aug 1999.
1997-C11	Gravel at Basso Bridge	Habitat Restoration	DFG	East San Joaquin	\$250,975	\$250,975	\$4,202	\$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.	All permits received. Construction complete. Monitoring started in September 1999.
1997-C12	Evaluation of Alternative Pesticide Use Reduction Practices	Environmental Water Quality	UC Davis	Landscape	\$957,781	\$957,781	\$122,130	\$0	\$746,827	Monitor water quality before and after outreach program to determine efficiency of program.	First Draft of Alternative Practices Matrix complete. Education, outreach and Field Studies ongoing.

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1998-C01	Twitchell Island Subsidence Study	Habitat Restoration	DWR	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. All subcontracts signed.
1998-C02	Culture of Delta Smelt	Fish Management/Hatchery	UC Davis	Delta	\$194,870	\$194,870	\$177,164	\$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.	Physical improvements to site, broodfish collection & rotifer culture, larval rearing trials & post-larval field collection complete. Final report due 10/29/99.
1998-C03	Hamilton Wetlands Restoration Planning	Habitat Restoration	Calif. Coastal Conservancy and SF BCDC	Suisun Marsh & North Bay	\$1,025,015	\$1,000,015	\$502,396	\$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 DO). Monitor vegetation development (extent, location, composition, and density). Survey of use by fish and wildlife.	Completed the feasibility study, EIR/EIS, Hamilton Conceptual Restoration Plan. Bel Marin Keys feasibility study ongoing.
1998-C04	Merced River Ranch Acquisition and Restoration	Habitat Restoration	DFG	East San Joaquin	\$658,000	\$658,000	\$0	\$0	\$45,500	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. Merced River Ranch appraisal expected to be completed 11/99.
1998-C05	Basso Bridge Land Acquisition	Habitat Restoration	DFG	East San Joaquin	\$172,500	\$172,500	\$0	\$0	\$0	Protect spawning riffles, and protect and enhance riparian species.	Working with Wildlife Conservation Board to contact property owners and get properties appraised.
1998-C06	Water Quality Criteria for Chlorpyrifos and Diazinon (Designated Action)	Environmental Water Quality	DFG	Landscape	\$67,753	\$67,753	\$0	\$0	\$0	Develop water quality criteria for chlorpyrifos and diazinon. Conduct toxicity test on ceriodaphnia and psysa	All toxicity tests and reports complete. Draft final report out for peer review 10/99. Final report due 3/31/00.
1998-C07	Fathead Minnow Toxicity	Environmental Water Quality	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)	Draft report summarizing existing data on fathead minnow toxicity completed. Draft workplan completed. Subcontract with UCD for toxicity testing executed.
1998-C08	Algal Toxicity	Environmental Water Quality	CVRWQCB	Landscape	\$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.	Subcontract with UCD for toxicity testing executed. Summary report on existing algae toxicity data and workplan in progress.

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1998-C09a	Sediment Water Quality	Environmental Water Quality	DPC	Delta	\$24,000	\$24,000	\$0	\$0	\$0	Determine toxicity criteria and sediment reuse potential to develop a Delta Dredging Reuse Strategy. Will monitor sediment constituents as pilot projects are developed.	Technical Advisory Panels has been selected by DPC. First Meeting scheduled for 11/9/99.
1998-C09b	Sediment Water Quality	Environmental Water Quality	DFG	Delta	\$276,000	\$276,000	\$0	\$0	\$0	Same as 98-C09a	Signed task order for year one work. Helped select Technical Advisory Panel.
1998-C09c	Sediment Water Quality	Environmental Water Quality	RWQC	Delta	\$200,000	\$200,000	\$0	\$0	\$0	Same as 98-C09a	Signed task order for year one work. Helped select Technical Advisory Panel.
1998-C10	CMARP DA	Habitat Restoration	DWR	Landscape	\$800,000	\$800,000	\$0	\$0	\$0	Develop a Comprehensive Monitoring and Research Program for CALFED.	Draft report complete 6/99. Developing "white papers" in partnership with ERP. Wtr Quality Program/CMARP Drinking Wtr Workshop held 8/99. Report describing baseline monitoring elements in progress.
1998-C11	Chinook Salmon Movement in the Lower SJR and South Delta	Fish Management/Hatchery	DFG	San Joaquin River	\$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.	Due to staff changes and delays in obtaining equipment project will require time extension.
1998-C12	Genetic Comparison of Steelhead Stocks in Clear Creek	Fish Management/Hatchery	USFWS	North Sacramento Valley	\$45,493	\$45,493	\$0	\$0	\$0	Evaluate alternative steelhead stocks for future restocking of Clear Creek. Collect tissue samples for genetic evaluation.	Contract signed 11/10/99.
1998-C13	Spawning Areas of Green Sturgeon in the Upper Sacramento River	Habitat Restoration	USFWS	Sacramento River	\$60,801	\$60,801	\$0	\$0	\$0	Characterization of Green Sturgeon habitat and life history patterns in the upper Sacramento River. Survey of spawning areas.	Contract signed 11/10/99.
1998-C14	Monitoring Spring and Winter-run Chinook Salmon and Steelhead in Battle Creek	Fish Management/Hatchery	USFWS	North Sacramento Valley	\$150,000	\$150,000	\$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 signed 11/10/99.

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1998-C15	Biological Assessment of Green Sturgeon in the Sacramento-San Joaquin Watershed	Fish Management/Hatchery	UC Davis	Landscape	\$241,000	\$241,000	\$64,657	\$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.	Work on all tasks ongoing.
1998-C16	Developing a Methodology to Accurately Simulate Entrainment of Fish	Fish Screen/Passage	DFG	Delta	\$200,000	\$200,000	\$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.	Contract executed 12/6/99.
1999-C01	Cosumnes River Feasibility Study	Habitat Restoration	The Nature Conservancy	Eastside Delta Tributaries	\$400,000	\$0	\$0	\$0	\$0	Feasibility Study of Ecosystem Restoration opportunities on the Cosumnes River.	Working with corps to refine Project Study Plan (PSP) Draft PSP should be submitted for CALFED review 12/21/99. Waiting for completion PSP to finalize their role in implementing the plan.
1999-C02	Mokelumne River Feasibility Study	Habitat Restoration	EBMUD	Eastside Delta Tributaries	\$400,000	\$400,000	\$0	\$0	\$0	Feasibility Study of Ecosystem Restoration opportunities on the Mokelumne River.	Working with corps to refine Project Study Plan (PSP) Draft PSP should be submitted for CALFED review 12/21/99.
Summary for 'Contracting Agency' = PROP 204 (32 detail records)											
Sum					\$18,242,225	\$17,617,225	\$5,012,155	\$6,545,037	\$9,178,312		
Summary for 'State/Fed/Stake' = 1 (77 detail records)											
Sum					\$52,571,295	\$46,816,607	\$16,112,799	\$6,800,037	\$11,557,412		
DFG											
2000-G01	Dissolved Organic Carbon Release - Delta Wetlands Part 2	Environmental Water Quality	USGS	Landscape	\$1,030,000	\$0	\$0	\$0	\$0		Waiting for approval
PROGRAM	SOUTH DELTA PLANNING PROGRAM	Habitat Restoration		Delta	\$1,000,000						Waiting for approval of \$1,000,000
Summary for 'Contracting Agency' = DFG (2 detail records)											
Sum					\$2,030,000	\$0	\$0	\$0	\$0		
NRCS											

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1998-R01	Small Diversion Fish Screen Program	Fish Screen/Passage	NRCS	Delta	\$900,000	\$900,000	\$24,070	\$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.
1999-R01	Floodplain Easements; Lower Tuolumne and San Joaquin (DA9)	Habitat Restoration	NRCS	East San Joaquin	\$1,545,000	\$1,500,000	\$0	\$0	1,500,000	Acquire and restore area prone to flood damage. Monitor vegetation and wildlife populations.	Contract being prepared. Project underway.
2000-R01	Sacramento River Small Diversion Fish Screen Program - Mechanical Monitoring and Maintenance Project	Fish Screen/Passage	Family Water Alliance	Sacramento River	\$322,081	\$0	\$0	\$0	\$0		
Summary for 'Contracting Agency' = NRCS (3 detail records)											
Sum					\$2,767,081	\$2,400,000	\$24,070	\$0	\$1,500,000		
USBR											
1997-B01	Watershed Improvements/Sediment Stabilization (Deer, Mill, Antelope Creeks)	Watershed Management	USFS	Butte Basin	\$371,000	\$371,000	\$147,013	\$0	\$69,000	Existing long-term condition monitoring program in-place	Updating road mapping. Consulted with MNFS. 1/2 mile road removed.
1997-B02	Sedimentation Movement and Availability and Monitoring in the Delta	Habitat Restoration	USGS	Delta	\$1,046,010	\$1,046,010	\$242,800	\$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.
1997-B03	Liberty Island Acquisition	Habitat Restoration	USFWS	Delta	\$8,926,000	\$8,747,000	\$8,563,784	\$25,000	\$0	Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats. Measure distribution of habitats and species populations.	Property acquired 9/99.
1997-B04	Acquisition and Restoration of Refuge lands (SJR NWR)	Habitat Restoration	USFWS	San Joaquin River	\$10,647,000	\$10,647,000	\$1,831,129	\$0	3,353,000	Protect and restore lands, riparian corridors, and other wetland habitats. Measure distribution of habitats and species populations.	One parcel acquired, appraisals underway on other parcels. Closure expected soon.
1997-B05	Bear Creek Floodplain Eestoration Demonstration Project (SLNWR)	Habitat Restoration	USFWS	San Joaquin River	\$334,000	\$334,000	\$331,408	\$0	\$80,000	Protect and enhance riparian, floodplain and wetland habitats. Measure distribution of habitats and species populations.	Hydraulic modeling underway.
1997-B06	Assessment of Organic Matter in the Habitat and its Relationship to the Food Chain	Environmental Water Quality	USGS	Landscape	\$1,440,649	\$1,440,649	\$1,083,493	\$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. Project underway.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-B01	Richter Brothers Screen, Phase I	Fish Screen/Passage	Richter Brothers	Sacramento River	\$49,000	\$49,000	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Feasibility Study completed.
1998-B02	Boeger Family Farm Screen - Feasibility Study Phase I	Fish Screen/Passage	Boeger Family Farms	Sacramento River	\$15,000	\$15,000	\$13,811	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft feasibility study completed.
1998-B03	ACID Fish Passage	Fish Screen/Passage	Anderson-Cottonwood Irrigation District	Sacramento River	\$325,000	\$325,000	\$325,000	\$0	\$50,000	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Completed.
1998-B05	Sand and Salt Creek Watershed Project	Environmental Water Quality	Colusa County Resource Conservation District	Colusa Basin	\$598,633	\$598,633	\$46,000	\$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.	Baseline data gathered.
1998-B07	Evaluation of Selenium Sources, Levels, and Consequences in the Delta	Environmental Water Quality	USGS	Delta	\$1,627,117	\$1,588,709	\$928,662	\$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.	Project underway.
1998-B08	Cache Slough Habitat Enhancement	Habitat Restoration	RD No. 2060	Delta	\$85,000	\$85,000	\$11,685	\$0	\$0	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.	Topographic survey completed.

CALFED No	Project Title	Project Category	Applicant	Geo. Area	Approved	Obligated	Expended	CVPLA Funding	Other Funding	Monitoring	Status
1998-B09	IPM Partnership to Improve Water Quality in Suisun Bay and Local Creeks	Environmental Water Quality	Central Contra Costa Sanitary District	Suisun Marsh & North Bay	\$266,000	\$266,000	\$107,754	\$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.	Scripted and filmed training video. Trained Master Gardeners.
1998-B10	Inventory of Forest Road Systems, Cat Creek Watershed	Watershed Management	USFS	Eastside Delta Tributaries	\$45,320	\$45,320	\$8,000	\$0	\$0	Develop watershed restoration plan to reduce erosion. Monitor aquatic habitat and channel characteristics, water chemistry and species population/use.	Updating road mapping.
1998-B11	Woodbridge Fish Screen and Passage	Fish Screen/Passage	Woodbridge Irrigation District	Eastside Delta Tributaries	\$1,565,600	\$1,565,600	\$0	\$0	\$0	Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft EIR/EIS completed.
1998-B13	Napa River Wetlands Acquisition	Habitat Restoration	Napa County Land Trust	Suisun Marsh & North Bay	\$1,073,513	\$1,073,513	\$920,000	\$0	\$0	Protect and restore native marsh wetland habitat. Monitor vegetation, fish and wildlife populations.	Executed 9/24/98.
1998-B14	Bacterial treatment of Selenium in the Panoche Drainage	Environmental Water Quality	UC Berkeley	West San Joaquin	\$1,148,326	\$1,148,326	\$489,304	\$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.	Pilot treatment plants operating.
1998-B15	Evaluation of Tagging Data	Fish Management/Hatchery	Northwest Marine Technology Inc	Landscape	\$634,500	\$625,000	\$127,584	\$0	\$0	Evaluate feasibility and benefits for mass marking techniques. Data review on tagging and recovery.	Evaluation reports in progress.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-B16	Battle Creek Screens and Fish Passage	Fish Screen/Passage	USBR	North Sacramento Valley	\$395,000	\$395,000	\$10,688	\$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.	Completed topographic survey. Also funded with 97-M02
1998-B17	Cosumnes Floodplain Acquisition and Restoration	Habitat Restoration	The Nature Conservancy	Eastside Delta Tributaries	\$3,500,000	\$3,500,000	\$3,500,000	\$0	3,500,000	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Properties acquired 12/98. Completed
1998-B21	Anadromous Fish Passage at Clough Dam on Mill Creek	Fish Screen/Passage	DWR	Butte Basin	\$1,280,000	\$1,280,000	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
1998-B22	Fish Passage Improvement Project at the Red Bluff Diversion Dam	Fish Screen/Passage	Tehama-Colusa Canal Authority	Sacramento River	\$340,600	\$340,600	\$148,715	\$0	\$0	Similar to 98-B16	Field study completed.
1998-B23	Steelhead and Chinook Salmon Fish Passage Barrier Remediation on the Guadalupe River	Fish Screen/Passage	Natural Heritage Institute et. al.	Outside CALFED Region	\$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.
1998-B24	ACID Fish Passage and Fish Screen Improvement Project, Phase II, Final Design	Fish Screen/Passage	Anderson-Cottonwood Irrigation District	Sacramento River	\$860,000	\$860,000	\$774,763	\$0	\$0	Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats	Complete.
1998-B25	Cosumnes River Salmoid Barrier Program Fishery	Fish Screen/Passage	Foundation of California	Eastside Delta Tributaries	\$188,255	\$188,255	\$32,532	\$0	\$188,255	Increase upstream passage of returning adults. Pre and Post project monitoring of spatial and temporal spawning distribution and spawning habitat.	Permits submitted.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-B26	Boeger Family Farm Fish screen Phase II: Construction	Fish Screen/Passage	Boeger Family Farms	Sacramento River	\$139,500	\$139,500	\$0	\$0	\$139,500	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
1998-B27	Hastings Tract Fish Screen Phase II: Construction	Fish Screen/Passage	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.
1998-B28	City of Sacramento Fish Screen Replacement Project Phase 2 - Design	Fish Screen/Passage	City of Sacramento	Sacramento River	\$654,500	\$0	\$0	\$745,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
1998-B29	American Basin Fish Screen and Habitat Improvement Project	Fish Screen/Passage	Natomas Mutual Water Company	Sacramento River	\$200,000	\$200,000	\$0	\$200,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
1998-B30	San Joaquin Valley Salmonids in the Classroom Program Enhancement	Education	DFG	San Joaquin River	\$3,000	\$0	\$0	\$0	\$0	Increase student awareness of issues and needs of aquatic and terrestrial natural resources.	Executed.
1998-B31	Traveling Film Festival/Heron Booth/Video Archive	Education	Independent Documentary Group	Landscape	\$54,000	\$54,000	\$54,000	\$0	\$0	Increase public awareness of issues and needs of functional river system.	Exhibits in several locations have occurred.
1998-B32	Environmental Agriculture Conferences and Field Tours	Education	Committee for Sustainable Agriculture	Landscape	\$28,000	\$28,000	\$14,000	\$0	\$0	Increase farmer awareness of issues and needs of functional river system.	Two conferences held
1998-B33	Sacramento River, Headwaters to the Ocean, Public Information and Education	Education	Sacramento River Discovery Center	Sacramento River	\$49,640	\$49,640	\$21,907	\$410,000	1,082,500	Increase public awareness of issues and needs of functional river system.	Bird monitoring program expanded
1998-B34	Discover the Flyway	Education	Yolo Basin Foundation	Delta	\$49,000	\$49,000	\$0	\$0	\$0	Increase student awareness of wetlands and wildlife issues in the Yolo Basin.	Expanded program by 2000 students per year.
1998-B35	The Butte Creek Watershed Educational Workshops and Field Tours Series	Education	CSU, Chico	Butte Basin	\$33,000	\$33,000	\$0	\$0	\$0	Increase public awareness of issues and needs of aquatic and terrestrial natural resources.	Initial workshop held.
1998-B36	Bay-Delta Environmental Restoration Education Program	Education	Water Education Foundation	Landscape	\$40,000	\$40,000	\$0	\$0	\$0	Increase public awareness of environmental issues in the Bay-Delta.	23 reporters taken on tour.
1998-B37	The Virtual Science Center and Hands-on Learning Programs	Education	The Delta Science Center at Big Break	Suisun Marsh & North Bay	\$0	\$0	\$9,598	\$0	\$0	Increase public awareness of environmental issues in the Bay-Delta.	Project cancelled.
1998-B38	Water Hyacinth Education Program	Education	Sacramento Regional County Sanitation District	Delta	\$9,600	\$0	\$0	\$0	\$0	Increase public awareness of issues related to release of hyacinth.	Flyer prepared.

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1998-B39	Water Challenge 2010	Education	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.
1998-B40	Tuolumne River Natural Resources Program	Education	City of Modesto	East San Joaquin	\$55,255	\$55,255	\$0	\$0	\$0	Increase public awareness of issues and needs of river system environment.	Design concept under refinement
1999-B01	Battle Creek Salmon and Steelhead Restoration Project	Fish Screen/Passage	PG&E	North Sacramento Valley	\$28,000,000	\$28,000,000	\$464,877	\$0	\$0	Increase upstream passage of winter-run salmon and spring-run salmon	Contract being prepared. Program supervisor hired.
1999-B02	Lower Butte Creek Project Phase II	Fish Screen/Passage	Ducks Unlimited, Inc.	Butte Basin	\$775,000	\$750,000	\$0	\$0	\$0	Increase upstream passage of returning adult s. Reduce entrainment of outmigrating fish.	Contract being prepared. MOU prepared.
1999-B03	ACID Fish Passage and Fish Screen Improvement Project, Phase III	Fish Screen/Passage	Anderson-Cottonwood Irrigation District	Sacramento River	\$5,253,000	\$5,100,219	\$2,433	\$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.
1999-B04	Merced River Salmon Habitat Enhancement; Lower Stone	Habitat Restoration	DWR	East San Joaquin	\$130,000	\$0	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure temperature and fish distribution and abundance.	Contract being prepared.
1999-B05	Merced River Salmon Habitat Enhancement; Ratzlaff Reach	Habitat Restoration	DWR	East San Joaquin	\$1,586,350	\$2,348	\$0	\$0	\$0	Same as 99-B04	Contract being prepared. Project underway.
1999-B06	Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta Watershed	Environmental Water Quality	CSU, San Jose	Landscape	\$3,800,000	\$3,800,000	\$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.
1999-B07	Fish Passage Improvement Project at the Red Bluff Diversion Dam	Fish Screen/Passage	Tehama-Colusa Canal Authority	Sacramento River	\$1,030,000	\$0	\$0	\$0	\$0		Contract being prepared.
1999-B08	Improve Upstream Ladder & Barrier Weir @ Coleman Nat'l Fish Hatchery at Battle Creek	Fish Screen/Passage	USFWS	North Sacramento Valley	\$1,713,302	\$0	\$0	\$0	\$0		Contract being prepared.
1999-B09	Development of Implementation Plan for Lower Yuba River Anadromous Fish Habitat Restoration	Habitat Restoration	Surface Water Resources, Inc.	Feather River & Sutter Basin	\$176,130	\$0	\$0	\$0	\$0		Contract being prepared.

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1999-B10	Species & Community Profiles of the SF Bay Area Wetlands Ecosystem Goals Project	Environmental Water Quality	Friends of S.F. Estuary	Suisun Marsh & North Bay	\$45,320	\$0	\$0	\$0			Contract being prepared.
1999-B11	South Napa River Tidal Slough & Floodplain Restoration Project	Habitat Restoration	City of American Canyon	Suisun Marsh & North Bay	\$1,565,600	\$0	\$0	\$0			Contract being prepared.
1999-B12	Riparian Corridor Acquisition & Restoration Assessment	Habitat Restoration	USBLM	Sacramento River	\$2,240,250	\$0	\$0	\$0	2,000,000		Contract being prepared.
1999-B13	Understanding Tidal Marsh Restoration Processes & Patterns	Habitat Restoration	Univ. of Washington	Delta	\$1,073,513	\$0	\$0	\$0			Contract being prepared.
1999-B14	Biological Ag Systems in Cotton-BASIC-Reducing Synthetic Pesticides & Fertilizers in the N. SJ Vy	Watershed Management	Sustainable Cotton Project	Landscape	\$473,800	\$0	\$0	\$0			Contract being prepared.
1999-B15	Duncan/Long Canyon Paired - Watershed Project	Watershed Management	Placer Co Water Agency	American River Basin	\$86,108	\$0	\$0	\$0			Contract being prepared.
1999-B16	Determination of the Causes of Dissolved Oxygen Depletion in the SJ River	Environmental Water Quality	DWR	San Joaquin River	\$892,400	\$0	\$0	\$0			Contract being prepared.
1999-B17	Dissolved Organic Carbon Release from Delta Wetlands, Part 1	Environmental Water Quality	USGS	Delta	\$1,434,449	\$0	\$0	\$0			Contract being prepared.
1999-B18	Evaluation of Potential Impacts of Chinese Mitten crab on Benthic Comm. In the Delta	Introduced & Undesirable Species	DWR	Delta	\$152,233	\$0	\$0	\$0			Contract being prepared.
1999-B19	Health Monitoring of Hatchery & Natural Fall-run Chinook in SJ River	Fish Management/Hatchery	USFWS	San Joaquin River	\$38,996	\$0	\$0	\$0			Contract being prepared.
1999-B20	Sacramento River Discovery Center	Education	Sacramento River Discovery Center	Landscape	\$39,552	\$0	\$0	\$0			Contract being prepared.
1999-B21	Estuary Action Challenge Environmental Education Project	Education	Earth Island Institute	Landscape	\$51,500	\$0		\$0			Contract being prepared.
1999-B22	Water Challenge 2010 Exhibit	Education	USCOE	Landscape	\$52,015	\$0	\$0	\$0			Contract being prepared.
1999-B23	The Learning Watershed Project	Education	American River Watershed Institute	American River Basin	\$56,907	\$0	\$0	\$0			Contract being prepared.
1999-B24	Traveling Film Festival Exhibit	Education	Independent Documentary Group	Landscape	\$51,500	\$0	\$0	\$0			Contract being prepared.
1999-B25	River Studies Center Exhibits & Programs	Education	SJ River Parkway & Conservation Trust	San Joaquin River	\$70,467	\$0	\$0	\$0			Contract being prepared.

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1999-B26	1999/2000 Bay-Delta Education Program	Education	Water Education Foundation	Landscape	\$33,269	\$0	\$0	\$0			Contract being prepared.
1999-B27	Watershed Educational Training	Education	Colusa County Resource Conservation District	Landscape	\$13,390	\$0	\$0	\$0			Contract being prepared.
1999-B29	San Joaquin River Pilot Project	Environmental Water Acquisition	Friant Water Users Authority	San Joaquin River	\$2,575,000	\$2,575,000	\$0	\$0	\$0		Contract executed.
1999-B30	Water Acquisition	Environmental Water Acquisition	Oakdale & S. San Joaquin I.D.	East San Joaquin	\$3,090,000	\$3,090,000	\$3,007,488	\$0	\$0		Contract being prepared.
2000-B01	City of Redding Water Utility Fish Screen Rehabilitation	Fish Screen/Passage	City of Redding, Dept of Public Works	Sacramento River	\$510,262	\$0	\$0	\$0	\$0		Waiting for approval
2000-B02	Maxwell Irrigation District Tuttle Pump Relocation Project	Fish Screen/Passage	Maxwell Irrigation District	Sacramento River	\$440,737	\$0	\$0	\$0	\$0		Waiting for approval
2000-B03	Culture of Delta Smelt Phase II & III	Fish Management/Hatchery	UC Davis	Landscape	\$576,229	\$0	\$0	\$0	\$0		Waiting for approval
2000-B04	Focused Action to Develop Ecologically-based Hydrologic Models and Water Management Strategies in the San Joaquin Basin	Habitat Restoration	Natural Heritage Institute	San Joaquin River	\$304,803	\$0	\$0	\$0	\$0		Waiting for approval
2000-B06	Biological Assessment of Green Sturgeon, Phase II	Fish Management/Hatchery	UC Davis, Wildlife, Fish & Conservation	Landscape	\$211,164	\$0	\$0	\$0	\$0		Waiting for approval
PROGRAM	FISH PASSAGE PROGRAM	Fish Screen/Passage		Landscape	\$2,088,000						
PROGRAM	BAY-DELTA EDUCATION PROGRAM	Education		Landscape	\$34,007						
PROGRAM	ENVIRONMENTAL WATER ACQUISITION PROGRAM	Environmental Water Acquisition		Landscape	\$9,835,000						
Summary for 'Contracting Agency' = USBR (77 detail records)											
Sum					\$109,091,221	\$80,565,077	\$23,218,428	\$1,380,000	\$20,348,660		

USCOE

1998-A01	Prospect Island Habitat Protection Project	Habitat Restoration		Delta	\$2,000,000	\$2,000,565	\$1,689,000	\$0	\$0	Repair levee breach and pump out island	Project complete.
1999-A01	Inundation of a Section of the Yolo Bypass to Restore Sacramento Splittail & Other Native Species	Habitat Restoration	Natural Heritage Institute	Delta	\$820,679	\$1,200,000	\$12,226	\$0	\$0		Contract being prepared

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1999-A02	Prospect Island Monitoring Project	Habitat Restoration	DWR	Delta	\$915,000	\$1,078,412	\$9,810	\$0	\$0	Restore 1,300 acres of shallow water habitat. Monitor fish, wildlife, water quality, vegetation, sediments, nutrients and benthic communities.	Contract being prepared
PROGRAM	HABITAT RESTORATION/FLOOD CONTROL BYPASSES PROGRAM	Habitat Restoration		Delta	\$379,321	\$0	\$12,000	\$0	\$0	CALFED has identified this program to fund Flood Control Bypass habitat projects. They are now developing a strategy for implementation. \$1,200,000 total.	Developing strategy. One Project under this program select through the current PSP. (99-A01)
Summary for 'Contracting Agency' = USCOE (4 detail records)											
Sum					\$4,115,000	\$4,278,977	\$1,723,036	\$0	\$0		
USEPA											
1997-E01	Watershed Plan (Big Chico Creek)	Watershed Management	Big Chico Creek Watershed Alliance	Butte Basin	\$422,830	\$422,830	\$169,132			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.
1997-E02	Watershed Planning (Deer Creek)	Watershed Management	Deer Creek Watershed Conservancy, CSU Chico	Butte Basin	\$196,554	\$196,554	\$78,622		\$231,000	Reduce land use practices detrimental to aquatic environments. Monitor water quality.	Executed.
1998-E01	Napa River Watershed	Watershed Management	Napa County Resource Conservation District	Suisun Marsh & North Bay	\$252,000	\$252,000	\$213,317	\$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.
1998-E02	Sonoma Creek Watershed	Watershed Management	Southern Sonoma County Resource Conservation District	Suisun Marsh & North Bay	\$302,000	\$302,000	\$115,828	\$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.

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1998-E03	Regional Wetlands Goals Project	Habitat Restoration	San Francisco Estuary Institute	Suisun Marsh & North Bay	\$76,000	\$76,000	\$0	\$0	\$200,000	Evaluate restoration and rehabilitation needs of region.	Completed. Final report completed
1998-E04	Petaluma River Watershed Restoration Program	Watershed Management	Southern Sonoma County Resource Conservation District	Suisun Marsh & North Bay	\$220,000	\$220,000	\$11,218	\$0	\$0	Evaluate and implement restoration and rehabilitation needs of the region.	Completed review of on-going projects on Petaluma River. Wtrshd Council formed & Enhancement Plan published.
1998-E05	Cottonwood Creek Watershed Group Formation	Watershed Management	Cottonwood Creek Watershed Group	Cottonwood Creek	\$161,000	\$161,000	\$20,413	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Wtrshd coordinator hired.
1998-E06	Battle Creek Watershed Stewardship	Watershed Management	Battle Creek Watershed Conservancy	North Sacramento Valley	\$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.	Hired program manager.
1998-E07	Local Watershed Stewardship: Steelhead Trout Plan	Watershed Management	Friends of Corte Madera Creek Watershed	Outside CALFED Region	\$47,500	\$47,500	\$19,427	\$0	\$0	Develop steelhead restoration plan. Collect fish habitat and population information and thermograph data.	Developed QA/QC plan. Installed 29 thermographs.
1998-E08	Cold Water Fisheries and Water Quality Element	Watershed Management	City of San Jose	Outside CALFED Region	\$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.
1998-E09	Merced River Corridor Restoration Plan	Watershed Management	Stillwater Sciences & Merced Co.	East San Joaquin	\$300,000	\$300,000	\$120,295	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Prepared draft reports and began mapping analysis.
1998-E10	South Yuba River Coordinated Watershed Management Plan	Watershed Management	DPR	Feather River & Sutter Basin	\$264,000	\$264,000	\$0	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Recruiting project manager. Met with agencies.
1998-E11	Watershed Restoration Strategy for the Yolo Bypass	Watershed Management	Yolo Basin Foundation, Inc.	Delta	\$244,188	\$244,188	\$54,610	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	First watershed workgroup meeting has occurred.
1998-E12	Proposal to Develop Local Watershed Stewardship Plan for the Lower Mokelumne River	Watershed Management	San Joaquin County Resource Conservation District	Eastside Delta Tributaries	\$159,000	\$159,000	\$62,724	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Watershed coordinator hired.
1998-E13	Union School Slough Watershed Improvement Program	Watershed Management	National Audubon Society - California	Yolo Basin	\$636,000	\$636,000	\$51,204	\$0	\$0	Develop and implement riparian restoration project on farms. Water quality and habitat surveys	Program manager & restoration ecologist hired.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-E14	American River Integrated Watershed Stewardship Strategy	Watershed Management	Placer County Resource Conservation District	American River Basin	\$220,750	\$220,750	\$15,507	\$0	\$0	Evaluate restoration needs of region.	Recruiting staff. Meeting with stakeholders and agencies.
1998-E15	Sulphur Creek Coordinated Resource Management Planning Group	Watershed Management	Sacramento Watersheds Action Group	North Sacramento Valley	\$23,828	\$23,828	\$3,598	\$0	\$0	Facilitate broadbased local stakeholder group in implementation of restoration activities.	Initial meetings have occurred. Presentation made to City of Redding Planning Commission
1998-E16	Lower Putah Creek Watershed Stewardship Program	Watershed Management	Solano County, Department of Environmental Management	Yolo Basin	\$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.
1998-E17	Alhambra Creek Watershed CRMP Program	Watershed Management	Contra Costa Resource Conservation District	Suisun Marsh & North Bay	\$138,500	\$138,500	\$28,262	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate and implement restoration and rehabilitation needs of region.	Started GIS mapping analysis.
2000-B05	Adaptive Real-Time Water Quality Management of Seasonal Wetlands in the Grassland Water District	Environmental Water Quality	Grassland Water District	Sacramento River	\$671,900	\$0	\$0	\$0	\$0	Waiting for approval	
2000-E01	Last Chance Creek Watershed Restoration Project--Ferris Meadow Reach--Feather River Coordinated Resource Management (FR-CRM)	Watershed Management	Feather River Coord. Resource Mgmt-Plumas Corp	Feather River	\$1,009,400	\$0	\$0	\$0	\$0		Waiting for approval
2000-E02	Panoche/Silver Creek Watershed Manaement/Action Plan	Watershed Management	Westside Resource Conservation District	West San Joaquin	\$873,440	\$0	\$0	\$0	\$0		Waiting for approval
2000-E03	Cottonwood Creek Watershed Monitoring and Assessment	Watershed Management	Cottonwood Creek Watershed Group	Cottonwood Creek	\$360,500	\$0	\$0	\$0	\$0		Waiting for approval
2000-E04	Sonoma Creek Watershed Conservancy	Watershed Management	Southern Sonoma County Resource Conservation District	Suisun Marsh/North San Francisco Bay	\$504,621	\$0	\$0	\$0	\$0		Waiting for approval
PROGRAM	WATERSHED RESTORATION PLANNING AND IMPLEMENTATION PROGRAM	Watershed Management		Landscape	\$0						
Summary for 'Contracting Agency' = USEPA (25 detail records)											
Sum					\$7,529,511	\$4,109,650	\$964,157	\$0	\$431,000		

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CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-F01	Butte Creek Watershed	Watershed Management	CSU, Chico	Butte Basin	\$261,300	\$261,300	\$214,437	\$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.
1998-F02	Butte Creek Watershed Coordinator Assistant	Watershed Management	Butte Creek Watershed Conservancy	Butte Basin	\$41,445	\$41,445	\$41,445	\$0	\$0	Improve coordination of watershed groups and restoration activities.	Contract executed.
1998-F03	Butte Creek Acquisition and Riparian Restoration	Habitat Restoration	CSU, Chico	Butte Basin	\$125,000	\$125,000	\$0	\$0	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Property acquired 12/98 also funded with 97-N05.
1998-F04	Lower Mill Creek Riparian Restoration	Habitat Restoration	Mill Creek Conservancy, The Nature Conservancy	Butte Basin	\$30,000	\$30,000	\$0	\$0	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Property acquired 12/98. Also funded with 97-N08.
1998-F06	Tuolumne River Setback Levees and Channel Restoration	Habitat Restoration	Turlock Irrigation District	East San Joaquin	\$655,700	\$655,700	\$0	\$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.	Also funded with 97-M09. Design 90% complete.
1998-F07	Grayson River Ranch Perpetual Easement and Restoration	Habitat Restoration	East Stanislaus RCD and Friends of the Tuolumne	East San Joaquin	\$732,000	\$732,000	\$0	\$0	\$311,000	Protect and enhance riparian and floodplain habitats. Measure species diversity and populations compared with desired conditions.	Nearing completion of Perpetual Easement acquisition.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-F08	Hill Slough West Habitat Demonstration Project - Phase I	Habitat Restoration	DFG	Suisun Marsh & North Bay	\$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.	CDFG writing RFP to hire consultant to do topographic surveys & address hydrologic issues.
1998-F09	Rhode Island Floodplain Management and Habitat Restoration - Phase 1	Habitat Restoration	DFG	Delta	\$25,000	\$25,000	\$0	\$0	\$0	Restore and improve floodplain functions and shallow water and riparian habitat. Survey of fish and avian use. Survey of habitat conditions.	Executed 4/9/99
1998-F10	Practical Guidebook to Prevent & Control for Non-native Invasive Plants in Shallow Water Habitats of the Bay-Delta Ecosystem	Introduced & Undesirable Species	SFEI	Landscape	\$76,750	\$0	\$0	\$0			Contract being prepared.
1998-F11	Effects of Introduced Clams on the Food Supply of Bay-Delta Fishes	Introduced & Undesirable Species	SF State University	Landscape	\$100,490	\$0	\$0	\$0			Contract being prepared.
1998-F12	Stone Lakes NWR Land Acquisitions	Habitat Restoration	USFWS	Delta	\$1,900,000	\$1,900,000	\$0	\$0	\$0	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.
1998-F13	Petaluma Marsh Expansion Project - Marin County	Habitat Restoration	Marin Audubon Society	Suisun Marsh & North Bay	\$352,135	\$352,135	\$0	\$0	\$525,885	Protect and restore tidal marsh. Evaluate fish and avian use, sedimentation and other channel/geomorphic processes, vegetation and habitat characterization	Updated appraisal report shows property value of \$544,400. Finalizing restoration design.
1998-F14	South Napa River Wetlands Acquisition and Restoration Program	Habitat Restoration	Napa County Land Trust	Suisun Marsh & North Bay	\$431,000	\$431,000	\$0	\$0	\$65,000	Recolonization of native plants, plant surveys and survival rates. Monitor tidal and over bank flows and sedimentation.	Coordinating with Flood Control District regarding EIR for acquisition. Met with locals and attended public hearing regarding acquisitions.
1998-F15	Lower Clear Creek Floodway Restoration Project - Phase 2	Habitat Restoration	Western Shasta Resource Conservation District	North Sacramento Valley	\$3,559,596	\$3,559,596	\$2,954	\$500,000	\$0	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 communities and natural recruitment.	Executed.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1998-F16	Fern-Headreach Tidal Perennial Aquatic and Shaded River Aquatic Conservation Project	Habitat Restoration	Thomas Luckey (L & L Farms, LLC)	Delta	\$425,000	\$425,000	\$0	\$0	\$0	Project will protect riparian and tidal shallow water habitat. Survey for fish and wildlife use.	Property Approval, acquisition and Contaminant surveys being completed.
1998-F17	Benicia Waterfront Marsh Restoration - Phase I	Habitat Restoration	City of Benicia	Suisun Marsh & North Bay	\$59,000	\$59,000	\$0	\$0	\$0	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.	Contracts being executed with consultants.
1998-F18	Floodplain Acquisition, Management, and Monitoring on the Sacramento River	Habitat Restoration	The Nature Conservancy, WCB, and others.	Sacramento River	\$1,000,000	\$1,000,000	\$0	\$0	\$0	Develop projectwide monitoring to assess channel meander and habitat restoration. Survey geomorphologic processes and floodplain habitat response.	Executed.
1998-F19	Cosumnes River Acquisition, Restoration Planning and Demonstration	Habitat Restoration	The Nature Conservancy	Eastside Delta Tributaries	\$750,000	\$750,000	\$0	\$0	\$0	Acquire and restore floodplain and wetland habitat and functions. Monitor habitat characteristics and species use.	Executed.
1998-F20	Deer and Mill Creeks Acquisition and Enhancement	Habitat Restoration	The Nature Conservancy	Butte Basin	\$1,000,000	\$1,000,000	\$0	\$200,000	\$0	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Acquisition negotiations initiated.
1998-F21	Lower San Joaquin River Floodplain Protection and Restoration Project	Habitat Restoration	USFWS, San Luis National Wildlife Refuge	San Joaquin River	\$1,100,000	\$1,100,000	\$0	\$0	4,799,000	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
1998-F22	Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay Ecological Zone	Habitat Restoration	CSU, Hayward	Suisun Marsh & North Bay	\$772,667	\$772,667	\$55,374	\$0	\$243,812	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.
1998-F23	South Napa River Tidal Slough and Floodplain Restoration Project	Habitat Restoration	City of American Canyon	Suisun Marsh & North Bay	\$1,455,000	\$1,455,000	\$12,691	\$0	\$718,000	Monitor return of tidal flows, recolonization of native plants, survival of riparian vegetation and fish utilization.	Acquisition Appraisal Report sent to Realty for review on 6/22/99. Wetlands delineation completed.
1998-F24	Butte Creek Riparian Restoration Demonstration	Habitat Restoration	CSU, Chico	Butte Basin	\$76,348	\$76,348	\$693	\$0	\$0	Monitor revegetation success. Bioassessment of benthic invertebrates. Water quality monitoring. Wildlife inventories.	Planning and designing for restoration, trails and signing underway using Research Foundation employees.
1999-F01	Restore Special Run Pool 10 Reach	Habitat Restoration	Turlock Irrigation District	East San Joaquin	\$165,000	\$164,800	\$0	\$356,000	\$0	Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1999-F02	Restore M/J Ruddy Reach	Habitat Restoration	Turlock Irrigation District	East San Joaquin	\$3,332,050	\$3,332,050	\$0	\$3,079,000	\$0	Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.
1999-F03	Restore habitat on McCormack-Williamson levees	Habitat Restoration	The Nature Conservancy	Delta	\$860,778	\$860,000	\$0	\$0	\$250,000	Monitor riparian vegetation, wildlife, avian and fish resources.	Contract being prepared.
1999-F04	McCormack-Williamson Tract Acquisition	Habitat Restoration	The Nature Conservancy	Delta	\$5,356,000	\$5,250,000	\$5,200,000	\$0	See 99-F03	Property acquired 9/99.	
1999-F05	Non-native Invasive Species Advisory Council	Introduced & Undesirable Species	USFWS	Landscape	\$50,000	\$0	\$0	\$0	\$0		Contract being prepared.
1999-F06	Reducing Risk of Importation & Distribution on Non-native Invasive Species Through Outreach & Education	Introduced & Undesirable Species	UC Davis	Landscape	\$105,466	\$0	\$0	\$0	\$0		Contract being prepared.
1999-F07	Zebra Mussel Detection & Outreach Project	Introduced & Undesirable Species	DWR	Landscape	\$100,000	\$0	\$0	\$0	\$0		Contract being prepared.
1999-F08	Purple Loosestrife Prevention, Detection & Control in the SACSJ Delta & Associated Hydrologic Units	Introduced & Undesirable Species	DFA	Landscape	\$201,306	\$0	\$0	\$0	\$0		Contract being prepared.
1999-F09	Introduced Spartina Eradication Project	Introduced & Undesirable Species	California Conservancy	Landscape	\$250,000	\$0	\$0	\$0	\$0		Contract being prepared.
1999-F10	Nelson Slough Wildlife Area Restoration Demonstration Project - Phase 1 & 2	Habitat Restoration	DFG	Feather River & Sutter Basin	\$256,476	\$256,476	\$0	\$0	\$10,000	Evaluate effectiveness of passive floodplain functioning to restore riparian and wetland vegetation. Monitor natural colonization of vegetation; fish use of floodplain; and fish stranding.	CDFG withdrew proposal (per Ron Rempke), 6/29/99.
1999-F11	Phase 3 - Merced River Salmon Habitat Enhancement	Habitat Restoration	DFG	East San Joaquin	\$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
2000-F01	Tuolumne River Bobcat Flat Floodplain Acquisition	Habitat Restoration	Friends of the Tuolumne, Inc	East San Joaquin	\$2,043,650	\$0	\$0	\$0	\$0		Waiting for approval
2000-F02	Canal Ranch Habitat restoration Phase II	Habitat Restoration	DFG	Delta	\$135,940	\$0	\$0	\$0	\$0		Waiting for approval
2000-F03	Floodplain Acquisition and Subreach/Site-Specific Management Planning on the Sacramento River (Red Bluff to Colusa)	Habitat Restoration	The Nature Conservancy	Sacramento River	\$534,570	\$0	\$0	\$0	\$0		Waiting for approval

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CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
2000-F04	A Mechanistic Approach to Riparian Restoration - San Joaquin Basin, Phase I & II	Habitat Restoration	Stillwater Sciences	San Joaquin River	\$230,376	\$0	\$0	\$0	\$0		Waiting for approval
2000-F05	Merced River Corridor Restorator Project Phase III	Habitat Restoration	Stillwater Sciences	East San Joaquin	\$235,870	\$0	\$0	\$0	\$0		Waiting for approval
2000-F06	Liberty Island Acquisition and Restoration Phase I	Habitat Restoration	USFWS	Delta	\$2,701,735	\$0	\$0	\$0	\$0		Waiting for approval
2000-F07	McCormack-Williamson Tract Phase II Restoration Planning	Habitat Restoration	DWR	Delta	\$365,650	\$0	\$0	\$0	\$0		Waiting for approval
2000-F08	McCormack-Williamson Tract Phase II Monitoring Project	Habitat Restoration	UC Davis, Ctr for Integrated Watershed	Delta	\$572,886	\$0	\$0	\$0	\$0		Waiting for approval
2000-F09	Treating Ballast Water Discharges at Existing Municipal Wastewater Treatment Plants	Introduced & Undesirable Species	San Francisco Estuary Institute	Other	\$122,014	\$0	\$0	\$0	\$0		Waiting for approval
2000-F10	Determining the Biological, Physical and Chemical Characteristics of Ballast Water Arriving in San Francisco Bay	Introduced & Undesirable Species	San Francisco Estuary Institute	Other	\$387,183	\$0	\$0	\$0	\$0		Waiting for approval
2000-F11	Arundo Donax Eradication and Coordination	Introduced & Undesirable Species	Sonoma Ecology Center	Landscape	\$842,587	\$0	\$0	\$0	\$0		Waiting for approval
PROGRAM	FLOODPLAIN RESTORATION/HABITAT RESTORATION ON EXISTING CONSERVATION LANDS PROGRAM	Habitat Restoration		Delta	\$17,495						
PROGRAM	NON-NATIVE INVASIVE SPECIES PROGRAM	Introduced & Undesirable Species		Landscape	\$365,988	\$365,988	\$33,866	\$0	\$0	CALFED has developed this program to identify and implement projects addressing exotic species control.	Seven projects selected 99-F05-11.
Summary for 'Contracting Agency' = USFWS (47 detail records)											
Sum					\$36,795,410	\$27,614,264	\$5,561,460	\$6,568,759	\$7,712,697		
Summary for 'State/Fed/State' = 2 (158 detail records)											
Sum					\$162,328,223	118,967,968	\$31,491,151	\$7,948,759	\$29,992,357		
CUWA											
1995-M01	Interim Flow Restoration	Environmental Water Acquisition	USFWS	Sacramento River	\$0	\$0	\$0	\$500,000	\$0	A separate Battle Creek Project recently approved has monitoring. See 98-B16.	Project completed.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1995-M02	Fish Screen and Ladder Construction	Fish Screen/Passage	Durham Mutual	Butte Basin	\$316,500	\$316,500	\$316,500	\$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.	Project Completed.
1995-M03	Construct Fish Ladder on Parrott-Phelan Dam	Fish Screen/Passage	M&T Ranch/Parrott Investments Co.	Sacramento Trib	\$0	\$0	\$0	\$100,000	\$318,000	For Butte Creek system, 100,000 juvenile spring-run have been marked.	Project completed.
1995-M04	Gravel Restoration Project	Habitat Restoration	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 & wildlife populations.	Project completed
1995-M05	Pump Station Relocation Construction	Fish Screen/Passage	M&T Ranch/Parrott Investments Co.	Butte Basin	\$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.	Project Completed.
1995-M06	Implementing Programs to Reduce the Use of Pesticides and Fertilizers in Sacramento and San Joaquin Watersheds (BIOS)	Environmental Water Quality	Community Alliance with Family Farmers	Landscape	\$660,000	\$660,000	\$659,770	\$0	\$0	Monitoring of progress of willingness of farmers to reduce pesticide use is being documented.	Year 2 of 3 year project. Final deliverables due 12/99.
1995-M07	Fish Screen Construction	Fish Screen/Passage	Suisun Resource Conservation District	Suisun Marsh & North Bay	\$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.	Project Completed.
1995-M08	Winter-run Chinook Salmon Captive Broodstock Program	Fish Management/Hatchery	DWR	Landscape	\$300,000	\$300,000	\$284,000	\$0	\$250,000	Research protocols are peer-reviewed.	Project Completed.
1996-M01	Construct Siphon & Associated Improvements.	Fish Screen/Passage	Western Canal Water District	Butte Basin	\$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.	Project Completed.
1996-M02	Prospect Island - Shallow Water Habitat/Wetlands Restoration Plan	Habitat Restoration	DWR	Delta	\$2,500,000	\$2,500,000	\$0	\$0	3,650,000	Design, implement and monitor restoration of shallow water habitat/wetlands on Prospect Island.	Expect contract execution in near future.
1996-M03	Riparian Habitat Restoration Verona-Collinsville (Phase 1-Feas.)	Habitat Restoration	USCOE	Sacramento River	\$500,000	\$500,000	\$237,725	\$0	\$500,000	Demonstration project will monitor riparian habitat	Ready for Corps of Engineer work to be performed.
1996-M04	Princeton Pumping Plant Fish Screen (Phase 1-Feas.)	Fish Screen/Passage	RD 1004	Sacramento River	\$75,000	\$75,000	\$75,000	\$150,000	\$100,000	Reduce entrainment measure screen approach, sweep and bypass flow velocities.	Project Completed.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1996-M05	Fish Screen -Feasibility Engineering	Fish Screen/Passage	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.	Project Completed.
1996-M06	Cosumnes River Preserve (Valensin Ranch Acquisition)	Habitat Restoration	The Nature Conservancy	Eastside Delta Tributaries	\$1,500,000	\$1,500,000	\$1,500,000	\$1,250,000	\$250,000	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project Completed.
1996-M07	Fish Screen Construction	Fish Screen/Passage	Princeton-Codora-Glenn / Provident Irrigation Districts	Sacramento River	\$5,500,000	\$5,500,000	\$4,005,045	\$5,281,200	\$0	Screen will have velocity monitoring. Owner will conduct fyke netting for fish counts.	Project granted time extension to 12/31/2000.
1996-M08	Fish Screen Construction (Phase 2 - Install Additional Screens)	Fish Screen/Passage	Suisun Resource Conservation District	Suisun Marsh & North Bay	\$500,000	\$500,000	\$237,725	\$500,000	\$0	Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Steering Committee recommended rescinding funds.
1996-M09	Sherman Island - Levee Habitat Demonstration Project	Habitat Restoration	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.
1996-M10	Research to Predict Evolution of Restored Diked Wetlands	Habitat Restoration	University of Washington	Delta	\$575,172	\$575,172	\$283,658	\$0	\$0	Project develops conceptual model based on field investigations.	Steering Committee approved additional \$100,172 for additional fisheries and bird field work.
1996-M11	Applied Research to Identify Chinook Salmon Runs via Genetics	Fish Management/Hatchery	DWR	Landscape	\$450,000	\$450,000	\$0	\$0	\$600,000	Research protocols are peer-reviewed.	Project is underway.
1996-M12	Battle Creek - Chinook Salmon & Steelhead Restoration Study	Fish Management/Hatchery	Bill Keir Associates	North Sacramento Valley	\$306,000	\$306,000	\$306,000	\$0	\$0	Monitoring is part of a recently approved Battle Creek project. See 98-B16.	Project Completed.
1996-M13	Yolo Bypass - Habitat Restoration Study	Habitat Restoration	DWR	Delta	\$226,000	\$226,000	\$226,000	\$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.
1996-M14	Clear Creek - Property Acquisition	Habitat Restoration	USBLM	North Sacramento Valley	\$211,000	\$211,000	\$211,000	\$211,000	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed. Acquire dredger tailings.
1996-M15	Intro. of Non-indigenous Aquatic Species Research Program	Introduced & Undesirable Species	San Francisco Estuary Institute	Landscape	\$197,000	\$197,000	\$187,025	\$0	\$0	Reports are peer-reviewed.	Project 90% complete.
1996-M16	Sacramento River and Major Trib.-Corridor Mapping Project	Habitat Restoration	CSU, Chico	Sacramento River	\$145,200	\$145,200	\$61,342	\$0	\$0	Products meet mapping standards.	Project 80% complete.

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1996-M17	Yuba River Fish Screen Replacement	Fish Screen/Passage	Browns Valley Irrigation District	Feather River & Sutter Basin	\$114,750	\$114,750	\$110,778	\$114,750	\$116,500	Reduce entrainment. Measure screen approach, sweep and bypass flow velocities..	Project 95% complete.
1996-M18	Determine Effects of Toxics	Environmental Water Quality	Phyllis Fox & Associates	Landscape	\$110,000	\$110,000	\$15,000	\$0	\$0	Project terminated.	Steering Committee terminated project - agreement could not be reached on project scope.
1996-M19	Wilkins Slough - Fish Screen Prelim. Design	Fish Screen/Passage	RD 108	Sacramento River	\$100,000	\$100,000	\$100,000	\$100,000	\$16,300	Monitoring does not apply to a feasibility study.	Project Completed.
1996-M20	Fish Screen Project	Fish Screen/Passage	Banta-Carbona Irrigation District	San Joaquin River	\$100,000	\$100,000	\$100,000	\$1,916,750	\$0	Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep and bypass flow velocities.	Funding rescinded by mutual consent due to timing.
1996-M21	Adams Dam Fish Screen & Ladder	Fish Screen/Passage	El Escalon Ranch	Butte Basin	\$70,304	\$70,304	\$70,301	\$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.	Project Completed.
1996-M22	Gorrill Dam Fish Screen & Ladder	Fish Screen/Passage	Gorrill Ranch	Butte Basin	\$67,990	\$67,990	\$67,990	\$0	\$56,500	Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project Completed.
1996-M23	Innovative Fish Screen for Small Diversions Demonstration Project	Fish Screen/Passage	Jim Buell & Associates	Landscape	\$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.
1996-M24	Butte Creek - Watershed Management Strategy Plan	Watershed Management	CSU, Chico	Butte Basin	\$83,000	\$83,000	\$57,722	\$0	\$83,000	Existing conditions report and recommendation for future action including monitoring.	90% complete.
1996-M25	Battle Creek - Chinook Salmon & Establish Watershed Conservancy	Watershed Management	Western Shasta RCD	North Sacramento Valley	\$50,000	\$50,000	\$45,118	\$50,000	\$0	Monitoring is part of a recently approved Battle Creek project. See 98-B16.	50% complete.
1996-M26	Prospect Island - Develop Monitoring Plan	Habitat Restoration	DWR	Delta	\$35,000	\$35,000	\$35,000	\$0	\$0	Monitoring plan is complete.	Project Completed.
1996-M27	North Delta Area - Juvenile Salmon Rearing	Habitat Restoration.	CSU, Sacramento	Delta	\$24,500	\$24,500	\$24,500	\$0	\$0	Inventory of rearing habitat for fisheries, including fisheries surveys.	11/15/99 Project completed. Final Report received. Processing final payment.
1997-M01	Wilson Ranch Screen	Fish Screen/Passage	Deseret Farms of Calif.	Sacramento River	\$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.
1997-M02	Battle Creek Screens and Fish Passage	Fish Screen/Passage	DWR	North Sacramento Valley	\$395,000	\$395,000	\$0	\$0	\$0	See 98-B16. DWR has completed first phase of work.	DWR has completed first phase of work; remaining work in progress. Also funded with 99-B16

CALFED No	Project Title	Project Category	Applicant	Geo Area	Approved	Obligated	Expended	CVPIA Funding	Other Funding	Monitoring	Status
1997-M03	Gorrill Dam Screen and Ladder	Fish Screen/Passage	Gorrill Land Company	Butte Basin	\$369,641	\$369,641	\$369,641	\$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.
1997-M04	Adams Dam Screen and Passage	Fish Screen/Passage	Ducks Unlimited, Inc.	Butte Basin	\$217,000	\$217,000	\$216,892	\$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.
1997-M05	Saelzler Dam Fish Passage	Fish Screen/Passage	Townsend Flat Water Ditch Company	North Sacramento Valley	\$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 concluded.
1997-M06	Hastings Tract Screen Feasibility Study	Fish Screen/Passage	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. Waiting for response from Hastings.
1997-M07	Banta-Carbona Fish Sscreen	Fish Screen/Passage	Banta-Carbona Irrigation District	San Joaquin River	\$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.
1997-M08	Tuolumne River Channel Restoration (Pool 9)	Habitat Restoration	Turlock Irrigation District	East San Joaquin	\$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.

<i>CALFED No</i>	<i>Project Title</i>	<i>Project Category</i>	<i>Applicant</i>	<i>Geo Area</i>	<i>Approved</i>	<i>Obligated</i>	<i>Expended</i>	<i>CVPIA Funding</i>	<i>Other Funding</i>	<i>Monitoring</i>	<i>Status</i>
1997-M09	Tuolumne River Setback Levees and Channel Restoration	Habitat Restoration	Turlock Irrigation District	East San Joaquin	\$2,801,000	\$0	\$0	\$2,855,800	\$50,000	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. Also funded with 98-F06
<i>Summary for 'Contracting Agency' = CUWA (44 detail records)</i>											
Sum					\$27,958,105	\$21,499,930	\$15,052,838	\$20,672,633	\$23,225,622		
<i>Summary for 'State/Fed/Stake' = 3 (44 detail records)</i>											
Sum					\$27,958,105	\$21,499,930	\$15,052,838	\$20,672,633	\$23,225,622		
Grand Total					\$242,857,623	\$187,284,505	\$62,656,788	\$35,421,429	\$64,775,391		