Γ					MULT	I SPECIES	CONS	ERVAT	ION ST	RATEG	Y MILE	STONE 8	4 ROLLE	D UF	SUMMARY		
N p c s c e t t c t	IILES rograr f the p almon evelop valuat pols; c evices erm so	rone rogra and so accu e the) eval s; and lution	84 Develop and implicit fin major tributaries in tims should be achievem steelhead. The programurate and reliable water use of minimum carryow uate the use of new facility.	lement temperat the San Joaquin tent of the ERP t ns shall include p temperature pre ver storage level lities such as ter onal and/or phys	ture management River Basin. The goal temperature targets for provisions to: a) ediction models; b) Is and other operational mperature control ical facilities as a long-	PROJECTS REVIEWED - ERP-02-P28, AFRP-01-08, AFRP-01-12, AFRP-02-02		SUMMA achieve th Stanislaus Temperatu basis for a program o range plan temperatu Tuolumne documents Corridor an River corri identificatii could also	ARY An E is milestone of below Good re Feasibility n operational n the Tuolum for outreach re manageme River Techni s: the Tuolum nd Its Lands; dor. Docume on and resolu result in iden	RP contract on the Stanisl win Dam. Ad Investigatior solution. Th ne River, hov and steward ent. A cooper cal Advisory i une River Wat a brochure d entation of therm tification of th	and an AFR laus-Lower & Iditionally, th n Reconnais ere is no cu wever there ship that ma ative agreer Committee r tershed Map epicting land ese land use al impacts. nermal impa	P project have in San Joaquin Rive e Merced River V sance Report ma rent temperature s work being dor y create interest nent between the esulted in releas and the Lower T d use patterns in patterns could le Another study ha cts.	hitiated actions to er and on the Water ay provide the e management ne on a long in addressing e AFRP and the se of two Tuolumne River the Tuolumne end to as just begun that			AGENCY NOTES	NOTES CONT'D
			MULTI SPECI	ES CONSER	VATION STRATEG	BY MILEST	ONE 84	↓ EV#		ON OF I	NDIVIE	UAL PRC	JECTS RE	VIEV	VED TO FORMULATE T	HE ROLLED UP SUMM	IARY
	MS NUMBER REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
	SJR		Develop and implement temperature management programs within major tributaries in the San Joaquin River Basin. The goal of the programs should be achievement of the ERP temperature targets for salmon and steelhead. The programs shall include provisions to: a) develop accurate and reliable water temperature prediction models: b) evaluate the use of		84 A. Status of accurate and reliable water temperature prediction models for the Stanislaus River	ERP-02-P28	May-03	Apr-06	661 902		661 902	General Manager, Tri- Dam Project	Steve Felte		Stanislaus-Lower San Joaquin River Water Temperature Modeling and Analysis	Task 3: Extend the existing model to reaches to create a Stanislaus-San Jo Task 4: Refine the Stanislaus-San Jo using current water temperature and r complete. This project is current Lower San Joaquin River Water Tem designed to assess the relation alternatives, water temperature reg Stanislaus River, specifically, fa steelhead rainbow trout.	downstream San Joaquin River aquin River Temperature Model. aquin River Temperature Model neteorological data. <i>Project not</i> <i>ly developing a Stanislaus-</i> <i>nperature Model. The model is</i> <i>ship between operational</i> <i>imes and fish mortality in the</i> <i>II-run Chinook salmon and</i> <i>J.D. Wikert, USFWS.</i>
	<u></u>		niodels, b) evaluate the use of		84 A. Status of accurate and reliable water temperature prediction models for the Stanislaus River		May-05	Apr-00	001,002		001,002	Daminoject			Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus bas implementation of prioritized restora River below Goodwin Dam. The pro- finishing a summary of the existing will be provided to the Stanislaus and comment in January 2004 Restoration Plan and c	sed plan to direct the long term tion/research in the Stanislaus oject is currently focused on f fisheries data. The summary River Fish Group for review b. Work continues on the onceptual model.
	84 SJR	Ð			84 B. Status of evaluation of	AFRP-02-02						AFRP	JD Wikert USFWS		Stanislaus-Lower San Joaquin Divor	Tack 5: Perform Operational Studios	Task 6: Perform pro fossibility
	84 SJR	EP			or b. Status or evaluation of operational tools for temperature management in the Stanislaus River	ERP-02-P28	May-03	Apr-06	661,902		661,902	General Manager, Tri- Dam Project	Steve Felte		Water Temperature Modeling and Analysis	Tabk o. Perform Operational Studies. studies of alternative management ac This project is currently develop. Joaquin River Water Temperature I to assess the relationship betwee water temperature regimes and fis River , specifically, fall-run Chin rainbow trout. J.D. V	Task of Perform pre-reasibility ctions. Project not complete. ing a Stanislaus-Lower San Model. The model is designed en operational alternatives, is mortality in the Stanislaus ook salmon and Steelhead Vikert, USFWS.

84	84	84	84	84	MS Number
SJR	SJR	SJR	SJR	SJR	REGION
EP	EP	EP	Ъ	EP	Project Type
					Milestone
					ERP Targets taken from ERPP Vol 2
84 D. Status of a temperature management program which achieves the ERP temperature targets for salmon and steelhead for the Stanislaus River	64 D. Status of a temperature management program which achieves the ERP temperature targets for salmon and steelhead for the Stanislaus River	84 C. Status of the evaluation of the use of temperature control devices on the Stanislaus River.	84 C. Status of the evaluation of the use of temperature control devices on the Stanislaus River.	84 B. Status of evaluation of operational tools for temperature management in the Stanislaus River	MS Components or Questions for field personnel
AFRP-02-02	ERP-02-P28	AFRP-02-02	ERP-02-P28	AFRP-02-02	ERP PROJECT NUMBERS
	May-03		May-03		CONT START DATE
	Apr-06		Apr-06		RACT END DATE
	661,902		661,902		CALFED Award
					Cost Share
	661,902		661,902		Total Project Cost
AFRP	General Manager, Tri- Dam Project	AFRP	General Manager, Tri- Dam Project	AFRP	Applicant
JD Wikert USFWS	Steve Felte	JD Wikert USFWS	Steve Felte	JD Wikert USFWS	Principal Investigator
					Quantifiable Units
Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Water Temperature Modeling and Analysis	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Stanislaus-Lower San Joaquin River Water Temperature Modeling and Analysis	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Project Name
Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	for improvements in water temperature control. Improvements may include modifications to operations and physical structures. Project not complete. This project is currently developing a Stanislaus- Lower San Joaquin River Water Temperature Model. The model is designed to assess the relationship between operational alternatives, water temperature regimes and fish mortality in the Stanislaus River, specifically, fall-run Chinook salmon and Steelhead rainbow trout. J.D. Wikert, USFWS.	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	Task 5: Perform Operational Studies. Task 6: Perform pre-feasibility studies of alternative management actions. Project not complete. This project is currently developing a Stanislaus-Lower San Joaquin River Water Temperature Model. The model is designed to assess the relationship between operational alternatives, water temperature regimes and fish mortality in the Stanislaus River , specifically, fall-run Chinook salmon and Steelhead rainbow trout. J.D. Wikert, USFWS.	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	Comments

	4	84	MS Number
	л. 2	SJR	REGION
		E	Project Type
		Milestone	Milestone
		from ERPP Vol 2	ERP Targets taken from ERPP Vol 2
84 G. Status of the evaluation of the use of temperature control devices on the Tuolumne River.	84 F. Status of evaluation of operational tools for temperature management in the Tuolumne River	personnel 84 E. Status of accurate and reliable water temperature prediction models for the Tuolumne River	MS Components or Questions for field personnel
	AERD 01 12	AFRP-01-12	ERP PROJECT
		DATE	CONT START DATE
	Aug 02	Aug-03	END DATE
		Award	CALFED Award
		Cost Share	Cost Share
		Cost	Total Project Cost
	A500	Applicant	Applicant
	Cesar Blanco	Investigator Cesar Blanco USFWS	Principal Investigator
		ØÞ	Quantifiable Units
Tuolumne River watershed outreach and stewardship proposal	Tuolumne River watershed outreach and stewardship proposal	Project Name Tuolumne River watershed outreach and stewardship proposal	Project Name
Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumme River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	Comments Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	Comments

hber	l Type					CONT	RACT						iable		
S Nun	EGION roject		ERP Targets taken	MS Components or Questions for field	ERP PROJECT	START	END	CALFED		Total Project		Principal	uantifi nits		
W		Milestone	from ERPP Vol 2	personnel 84 H. Status of a temperature management program which achieves the ERP temperature targets for salmon and steelhead for the Tuolumne River	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	αΞ	Project Name Tuolumne River watershed outreach and stewardship proposal	Comments Objective: To create and utilize outreach materials as tools build awareness, understanding and support for the Tuolum River Technical Advisory Committee Plan, "Habitat Restorat Plan for the Lower Tuolumne River Corridor". The cooperat agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolum River Watershed Map and the Lower Tuolumne River Corrid and Its Lands; a brochure depicting land use patterns in th Tuolumne River corridor. The TRPT received a no-cost tim extension extending the end date to April 2003 to complete ti outreach to landowners who might be interested in easeme opportunities. TRPT submitted a final report in August 200 documenting their outreach efforts. This report, along with t Tuolumne River Watershed Map and the Lower Tuolumne Ri Corridor and Its Lands can be found on the AFRP website
84	SJR				AFRP-01-12		Aug-03				AFRP	Cesar Blanco USFWS			
	~			84 I. Status of accurate and reliable water temperature prediction models for the Merced River								leff McI ain		Merced River water temperature management feasibility study	Objective: To develop information that can be used to evaluate effective options for water temperature management in the Merce River and improve conditions for anadromous salmonids, principal during the fall and spring seasons. The final Merced River Wate Temperature Feasibility Investigation Reconnaissance Repor and accompanying data CD was received by the AFRP in earl January 2004. A digital copy is available on this web site and hard copies can be requested from the representative HRC.
84	S B			84.1 Status of evaluation of	AFRP-01-08		Jan-04				AFRP	USFWS		Merced River water temperature	Objective: To develop information that can be used to evaluate
	œ			operational tools for temperature management in the Merced River								Jeff McLain		management feasibility study	effective options for water temperature management in the Merce River and improve conditions for anadromous salmonids, principal during the fall and spring seasons. The final Merced River Wate Temperature Feasibility Investigation Reconnaissance Repor and accompanying data CD was received by the AFRP in earl January 2004. A digital copy is available on this web site and hard copies can be requested from the representative HRC.
84	<u>з</u> п			84 K. Status of the evaluation	AFRP-01-08		Jan-04				AFRP	USFWS		Merced River water temperature	Objective: To develop information that can be used to evaluate
				of the use of temperature control devices on the Merced River.										management feasibility study	effective options for water temperature management in the Merce River and improve conditions for anadromous salmonids, principal during the fall and spring seasons. The final Merced River Wate Temperature Feasibility Investigation Reconnaissance Repor and accompanying data CD was received by the AFRP in earl, January 2004. A digital copy is available on this web site and hard copies can be requested from the representative HRC.
84	RP S.R				AFRP-01-08		Jan-04				AFRP	Jeff McLain USFWS			
4	R C			84 L. Status of a temperature management program which achieves the ERP temperature targets for salmon and steelhead for the Merced River							4500	Jeff McLain		Merced River water temperature management feasibility study	Objective: To develop information that can be used to evaluate effective options for water temperature management in the Merce River and improve conditions for anadromous salmonids, principal during the fall and spring seasons. The final Merced River Wate Temperature Feasibility Investigation Reconnaissance Repor and accompanying data CD was received by the AFRP in earl January 2004. A digital copy is available on this web site and hard copies can be requested from the representative HRC.

				MULTI	5 ROLLE	D UP	SUMMARY									
MILE impa the p The p return thern base imple return	STONE cts of irrr rogram s program a n flows v nal impa d on imp mentation n flows.	85 Develop and imple gation return flows in the should be achieve Basin should include provision vith thermal impacts; b) cts from irrigation return facts to Chinook salmon on of some or all actions	ment a program San Joaquin Ri Plan objectives s to: a) identify le develop measure flows; and c) prio and steelhead. to address therm	to address the thermal iver Basin. The goal of for water temperature. ocations of irrigation es to avoid or eliminate pritize problem sites If feasible, proceed with nal impacts of irrigation	PROJECTS REVIEWED - ERP-97-C08, ERP-00-B05		SUMMA flows occu Joaquin Ri network of addressed the Grassla	IRY Two μ rred in the Sar ver Real-Time collected data the developm ands Water Di	orojects addr n Joaquin Riv e Temperatur a as well as tr ient of a Rea istrict near Lo	essing the the ver Basin. On re collection s emperature n I Time Water os Banos.	ermal impacts of e was to expand ystem to include lodeling and the Quality Manage	irrigation return i the existing San an internet second project ment Program in			AGENCY NOTES	NOTES CONT'D
		MULTI SPECIE	ES CONSER	VATION STRATEG	Y MILEST	ONE 85	5 EVA	ALUATIO	ON OF I	NDIVIDI	JAL PRO	JECTS RE	VIEW	ED TO FORMULATE TH	HE ROLLED UP SUMM	ARY
MS Number	REGION Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
85	SJR EP	Develop and implement a program to address the thermal impacts of irrigation return flows in the San Joaquin River Basin. The goal of the program should be achieve Basin Plan objectives for water temperature. The program should include provisions to: a) identify locations of irrigation return flows with thermal impacts; b) develop measures to avoid or eliminate thermal impacts from irrigation return flows; and c) prioritize problem sites based on impacts to Chinook salmon and steelhead. If feasible, proceed with implementation of some or all actions to address thermal impacts of irrigation return flows.		85 A. Status of the development of a program to address the thermal impacts of irrigation return flows in the San Joaquin River Basin. The goal of the program should be achieve Basin Plan objectives for water temperature.												
85	E SI			85 B. Status of the implementation of a program to address the thermal impacts of irrigation return flows in the San Joaquin River Basin. The goal of the program should be achieve Basin Plan objectives for water temperature.	ERP-97-C08	Jan-99	Dec-00	931,857			DWR	Earle Cummings		San Joaquin River Real-time Water Quality Management Program	Implementation of a comprehensive research program for aquatic habitats. salinity equipment to generate continu the field. <i>Monitoring project, com</i>	monitoring, assessment and Installation of Stream stage and ous radio telemetered data from oleted. Ernie Taylor, DWR.

85	85	85	85	MS Number
SJR	SJR	SJR	sJR	REGION
đ	E	EP	EP	Project Type
				Milestone
				ERP Targets taken from ERPP Vol 2
85 E. Status of prioritizing problem sites based on impacts to Chinook salmon and steelhead. If feasible, proceed with implementation of some or all actions to address thermal impacts of irrigation return flows.	85 D. Status of developing measures to avoid or eliminate thermal impacts from irrigation return flows;	85 C. Status of identifying locations of irrigation return flows with thermal impacts	85 B. Status of the implementation of a program to address the thermal impacts of irrigation return flows in the San Joaquin River Basin. The goal of the program should be achieve Basin Plan objectives for water temperature.	MS Components or Questions for field personnel
	ERP-00-B05		ERP-00-B05	ERP PROJECT NUMBERS
	Sep-00		Sep-00	CONT START DATE
	Sep-04		Sep-04	RACT END DATE
	652,330		652,330	CALFED Award
				Cost Share
	652,330		652,330	Total Project Cost
	Grasslands Water District		Grasslands Water District	Applicant
	Don Marciochi, General Manager		Don Marciochi, General Manager	Principal Investigator
				Quantifiable Units
	Adaptive Real-Time Water Quality Management of Seasonal Wetlands in the Grassland Water District		Adaptive Real-Time Water Quality Management of Seasonal Wetlands in the Grassland Water District	Project Name
	Development and implementation of a program to address the thermal impacts of irrigation return flows in the San Joaquin Basin. Project includes designing and installing a monitoring system for quantity and quality of wetland drainage flow from the Grassland Water District.		Development and implementation of a program to address the thermal impacts of irrigation return flows in the San Joaquin Basin. Project includes designing and installing a monitoring system for quantity and quality of wetland drainage flow from the Grassland Water District. Don Marciochi, Grasslands Water District. Monitoring. Project Still ongoing. Extended to 9/2004.	Comments

					MU	LTI SPECI	ES COI	NSERV	ATION ST	RATEG	GY MILEST	ONE 86	ROLLED L	IP SU	IMMARY		
MIL sed grav cha area prog tribu Sar tribu	EST(imentivel re- nnel r as, ar gram itary Joac itarie	DNE t sup cruiti main nd th to re withi quin s.	86 Complete a fluvial ply needs and sources to ment and natural sedime tenance, erosion and de e regeneration of ripariar duce erosion and mainta n each EMZ within the S Basin EMZ, complete flu	geomorphic ass o maintain, impre- ent transport pro- position, mainte- n vegetation. De ain gravel recruit an Joaquin Rive- vial geomorphic	essment of coarse ove, or supplement cesses linked to stream nance of fish spawning evelop and implement a ment on at least one r Basin. In the East assessments on all	PROJECTS REVIEWED - ERP- 97-C11, ERP-98- C04/C05, ERP-98- C04/C05, ERP-98-F06, ERP-98-F01, ERP- 99-B29, ERP-00- E05, ERP-00-F01, ERP-01-C03, ERP- 01-N42, ERP-02-P12-D, ERP-02-P12-D, AFRP- 00-77, AFR-00-93, AFRP- 00-41, AFRP-00-45, AFRP-00-46,	AFRP-01- 03, AFRP- 01-12, AFRP-02- 02, AFRP- 02-11,	SUMMA aspects of Joaquin I assessm develope assessm areas an for additi	RY Severa of gravel repl River Basin a ent of all of t and impler ents and sec d riparian ver onal effort ar	I ERP an enishme and the E hese proj nented to liment su getation. d directio	Id AFRP contr nt on tributarie iast SJ Basin I jects to determ o perform com ipply needs to Need to dete on.	acts have fu s within EM EMZ. Still n ine if a prog plete fluvial maintain fis rmine progre	nded various Zs of the San eeded is an gram was geomorphic h spawning ess and need			AGENCY NOTES	NOTES CONT'D
			MULTI SPE	CIES CONSI	ERVATION STRAT	EGY MILES	STONE	86 E	VALUATIO	ON OF	INDIVIDUA	L PROJE	CTS REVIE	WED	TO FORMULATE THE	ROLLED UP SUMMARY	,
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT	CON START DATE	TRACT	CALFED Award	Cost Share	Total Project	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commen	ts
86	2 2 2 2 2	а <u>.</u>	Complete a fluvial geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas, and the regeneration of riparian vegetation. Develop and implement a program to reduce erosion and maintain gravel recruitment on at least one tributary within each EMZ within the San Joaquin River Basin. In the East San Joaquin Basin EMZ, complete fluvial geomorphic assessments on all tributaries.		86 A. Status of a fluvial geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.	ERP-97-N21	Sep-98	Sep-01	536,410	97,000	633,410	Carl Mesick Consultants	Carl Mesick		Knights Ferry Gravel Replenishment Spawning Gravel Introduction, Tuolumne River, La Grange & Old Basin Bridge	Gravel will be placed at 18 project riffi Project completed. Multiphased pro non-CALFED funded phases Project will distribute approx 12,500 habitat for salmonids. Jeff McLain, miles of instream habitat. Projec phase of a larger project to restore	subic yards of gravel creating USFWS. A portion of 4 river to completed. This was one the course sediment supply
86	SJR	E			improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.	ERP-97-C11	Sep-98	Dec-01	250,975	none	250.975	CDFG	Clarence Mayott	4 miles		to the Tuolumne River by introducin between La Grange Dam and Old project would distribute approximal gravel at key sites within the upp salmonid habitat on the Tuolumne R the project distributed 12,500 cubic Grange Bri	g clean gravels into the river Basso Bridge. The overall ely 25-30,000 cubic yards of er 4 miles of anadromous iver. This particular phase of yards of gravel below the La dge.

ber		Type					CON	TRACT						able		
MS Num	REGION	Project 1	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifi Units	Project Name	Comments
					86 A. Status of a fluvial geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of										Merced River Corridor Restoration Plan	Project will address historical and current supply and transport of coarse and fine sediment. <i>Jeff McLain, USFWS. Planning. Final</i> <i>Plan completed.</i>
86	SJR	EP			nsn spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.	ERP-98-E09	Sep-98	Apr-01	300,000 (Phase II)	26,552 (Phase I)	326,552	Stillwater Sciences & Merced Co. Planning and Development	Jennifer Vick/Bob Smith			
					86 A. Status of a fluvial geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.										Tuolumne River Setback Levees and Channel Restoration.	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. Implementation project completed, Jeff McLain, USFWS.
86	SJR	₽			20 A Otatus of a fluxial	ERP-98-F06	Sep-98	Jun-04	1,362,000	5,847,260	7,209,260	USBR	Carolyn Mallory		Dilat Draigat to Dag of the Diagona	This assistant and the second s
6	Я	4			geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.							Friant Water			Pilot Project to Benefit Ripanan Vegetation along the San Joaquin River	through October, 1999 to promote dispersal and germination of seed from native riparian trees and the survival of young seedlings for riparian habitat. <i>Research project completed. Valerie Curley,</i> <i>USBR.</i>
86	Ś	ü			86 A. Status of a fluvial	ERP-99-B29	Sep-99	Jun-00	2,500,000		2,500,000	Users Authority	Douglas DeFlitch		Merced River Corridor Restoration	This project will develop a long-term restoration and monitoring plan.
36	SJR	đ			geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance of fish spawning areas and the regeneration of riparian vegetation for the San Joaquin River Basin.	ERP-00-E05	Feb-00	Sep-02	260.351		260.351	Stillwater Sciences	Jennifer Vick		Project Phase III	Merced River Corridor Restoration Plan was developed in Phase III. In addition to development of that plan, Stillwater Sciences completed field and modeling efforts and developed design guidelines for channel and floodplain restoration. Jeff McLain, USFWS.

Number	NOI	ect Type				MS Components or	MS Components or	MS Components or	MS Components or	MS Components or	MS Components or	MS Components or	MS Components or	MS Components or	MS Components or MS Components or	MS Components or MS Components or
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FRP-02D-P55	AFRP-00-46	AFRP-00-45	ERP-02-P29	ERP PROJECT NUMBERS
Oct-03			Jul-03	CON START DATE
Sep-06			Jun-06	TRACT
2 488 003			4.350.000	CALFED Award
0			50.000	Cost Share
2 488 003			4.400.000	Total Project Cost
Stillwater	AFRP	AFRP	Turlock Irrigation District	Applicant
Frank Ligon	Jeff McLain USFWS	Cesar Blanco USFWS	Wilton Frver	Principal Investigator
				Quantifiable Units
Physical Modeling Experiments to Guide River Restoration Projects	Merced River Wing-Dam Gravel Monitoring	Develop an adaptive management forum for large-scale restoration projects	Tuolumne River Sediment Acquisition and Spawning Gravel Transfusion Project	Project Name
The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. <i>Frank Ligon, Stillwater Sciences. Research;</i> <i>project not completed, Just started in Oct 2003.</i>	Objective: The monitoring in this project will evaluate how spawning- sized gravel moves from wing-dam sites, comparing two techniques: painted tracer rocks and radio-tagged rocks. This information can be used to assess whether these diversions are suitable locations for gravel introductions. Data collection was completed in the fall of 2002 and draft report was distributed for review in February 2003. Final report was submitted in April 2003.	Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. <i>This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.</i>	Project Task 8: Gravel Augmentation Implementation. This task will begin gravel augmentation at 2-3 selected sites on the Tuolumne River. Restoring the quantity and quality of spawning habitat below LaGrange Dam will reduce salmonid redd superimposition and egg mortality, increase fry production, and ultimately contribute to achieving salmon population targets. Improving the coarse sediment supply in the channel will help restore the fluvial geomorphic processes and natural channel morphology. Jeff McLain, USFWS.Implementation. Project has not started, USFWS is expecting a significant change in the scope of this contract.	Comments

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86 B. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 B. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	one tributary within the San 86 B. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 B. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributon within the Son	86A. Status of a fluvial geomorphic assessment of coarse sediment supply needs and sources to maintain, improve, or supplement gravel recruitment and natural sediment transport processes linked to stream channel maintenance, erosion and deposition, maintenance regeneration of riparian vegetation for the San Joaquin River Basin.	MS Components or Questions for field personnel
	AFRP-02-02	AFRP-00-09	EPP-07-N21	AFRP-00-23	ERP PROJECT
		360-30	Sen-98		CON START DATE
		Mar-o i	Mar-01		
		330,410	536.410		CAI FED Award
		97,000	97 000		Cost Share
		033,410	633.410		Total Project Cost
Carl Mesick	AFRP	AFRP	Carl Mesick	AFRP	Applicant
	JD Wikert	Jeff McLain USEWS	Carl Masick	Jeff McLain	Principal Investigator
					Quantifiable Jnits
Spawning habitat restoration in the Stanislaus River, Lover's Leap Reach	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Evaluate channel restoration and aggregate source potential for Two- mile Bar on the Stanislaus River	Knights Ferry Gravel Replenishment	Study the feasibility of developing a long-term aggregate source for San Joaquin tributary channel restoration projects	Project Name
Objective: To restore spawning and rearing habitat in the Lover's Leap Reach. Phase 1 of a demonstration project to restore spawning and rearing habitat on five reaches of the Stanislaus River below Goodwin Dam. Phase 1 encompasses acquisition and restoration activities in the upper 12-mile spawning reach (specifically at Two-Mile Bar, Knights Ferry, Six-Mile Bar, Lover's Leap, and Honolulu Bar). NEPA- CEQA permitting work continues. Plans are to begin gravel addition during July-August 2004. DWR 4-pumps has offered \$500,000 to expand the project. Paperwork is in USFWS DC	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	Objective: To assess the floodplain restoration potential and develop a conceptual restoration strategy for a 50-acre parcel known as Two- mile Bar, and to conduct aggregate and mineral appraisals to establish a fair market value of the land and provide the basis for acquisition in either fee or easement. A cooperative agreement between the AFRP and the Trust for Public Land (TPL) was completed in September of 2000. The TPL coordinated the site survey with the USACOE and subcontracted the aggregate and agricultural appraisals. Appraisals were not completed to federal standards and subsequently where rejected by the USFWS and USBR appraisal reviewers. TPL, CDFG, AFRP, and USBR are currently attempting to get the appraisals brought up to code so the offer to purchase the land can be made.	This project will add gravel to maintain gravel recruitment and reduce erosion. Project completed. Multiphased project with several subsequent non-CALFED funded phases. J.D. Wikert, USFWS.	Objective: To evaluate the potential (legal, economic and engineering feasibility) to use dredger tailings from the Merced River near Snelling as fill for channel and floodplain restoration efforts. In October 2000 a cooperative agreement between the AFRP and CDFG Region 4 was completed. A coordination meeting among the project participants took place in December 2000 to coordinate responsibilities and initiate the project. A draft product has been developed and is being circulated for review.	Comments

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						implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Staniclaus Biver	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus Biver	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Staniclaus Biver	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River EMZ -	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stroiclaus River	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanisture Piere	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Staniduue River	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stepiclaus Piver	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stopiciaus River	implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Straiblaus River
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	<u>, </u>					86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River 000 000 000 000 000 000 000 000 000 00	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River 000,110	86 C. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Stanislaus River	Bit Construction Bit Constructing on thiteraction Bit Construction Bit
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						development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Jacaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River
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<u> </u>						86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River 000000000000000000000000000000000000	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River 1000000000000000000000000000000000000	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River 1000 200,970 100000000000000000000000000000000000	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River Becon 200,913 Hote 200,913 Obt of	86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River Decvir 230,873 Hone 230,873 Out of Out of	B6 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River Device result of 200,910 Device result of 200,910 Device result of 200,910	B6 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River Separation Tuolumne River Setback Levees and Channel Restoration.
99							ERP-98-F06	FRP-98-F06 Sep-98	FRP-98-F06 Sep-98 Jun-04	ERP-98-506 Sep-98 Jup-04 1 362 000	ERP-98-F06 Sep-98 Jun-04 1 362 000 5 847 260	ERP_98-E06 Sep-98 Jup.04 1 362 000 5 847 260 7 209 260	EPP-98-E06 Sep-98 Jup-04 1 362 000 5 847 260 7 209 260 USBR	EPP-98-E06 Sep-98 Jun-04 1 362 000 5 847 260 7 209 260 USBR Carolyn Mallory	EPP-08-E06 Sep-08 Jup-04 1 362 000 5 847 260 7 209 260 LISBR Carolyn Mallory	

mber	z	Type			NO 0		CON	TRACT	-					fiable		
MS Nur	REGIOI	Project	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantif Units	Project Name	Comme
					86 D. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River										Partner with Modesto City and County Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Objective: Incorporate habitat nee the updated Tuolumne River Regic plans. Acquisition of the Gateway the regional park has necessitate use and master plans for the park. this planning effort include: (1) of program; (2) soliciting public conducting reconnaissance-lev environmental documentation (EIR Plan and Gateway Master Plan. Ti seven mile reach of the Tuolumne a migration corridor by fall-run C updated plans are expected to in salmon by incorporating elen understanding of the river's ec community needs, improvements and planning sciences, and r
99	SJR	e.				AFRP-2002-11						AFRP	Jeff McLain			
	มห ราย				86 E. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	FRP-00-F01	Oct-00	Aug-04	1 984 320		1 984 320	Friends of the Tuolumne Biver	Dave Boucher		Tuolumne River Bobcat Flat Floodplain Acquisition	Implement a program to maintain gra River. Acquisition protects this prope the potential for gravel mining. (F continuous river frontage). Property vegetation occurred. Money le currently being used for the de restoration plan. Jefn
8	JR S				86 E. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River				1,004,020		1,007,020		Jeff McLain		Enhance salmon and steelhead/rainbow trout spawning habitat by adding gravel to three riffles below the Old La Grange Bridge on the Tuolumne River	Objective: The purpose of the project supply to the Tuolumne River by in river between La Grange Dam and (improved Chinook salmon spawniny cooperative agreement betwee completed in September of 20 environmental documentation lea lead. This project was permitted a in the summer of 2002. Phase II ini Fisheries was complete in July 200 used to add gravel duri
	<u></u>				86 E. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Tuolumne River	AFRP-00-07						AFRP	USFWS		Basso Bridge Ecological Reserve Land Acquisition and Merced River Ranch Land Acquisition	Protect spawning riffles, and prote Basso Bridge component Plannin 75% complete. Three of four pa been purchased on the Tuolumne
						ERP-98-C04/C05	5 Sep-98	Dec-00	658,000			CDFG	Clarence Mayott			
					86 F. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River										Basso Bridge Ecological Reserve Land Acquisition and Merced River Ranch Land Acquisition	Develop a program to maintain gr River. Purpose of acquisition: To de construction of salmon restoration spawning gravel for additions to th Ranch Land acquisition componen acres to restore riparian, wetland Merced River. Claren
96	SJR	e.				ERP-98-C04/C05	Sen-98	Dec-00	658 000			CDEG	Clarence Mayott			

36	86	86	86	86	MS Number
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di	EP	EP	đ	EP	Project Type
					Milestone
					ERP Targets taken from ERPP Vol 2
86 G. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River	86 G. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River	86 G. Status of the implementation of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River	86 F. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River	86 F. Status of the development of a program to reduce erosion and maintain gravel recruitment on at least one tributary within the San Joaquin River EMZ - Merced River	MS Components or Questions for field personnel
ERP-98-F11	ERP-02-P12-D	ERP-01-C03	ERP-01-N42	ERP-00-E05	ERP PROJECT NUMBERS
Mar-99	May-03	Jul-01	Aug-01	Feb-00	CON START DATE
Sep-04	Apr-06	Jun-04	Jul-04	Sep-02	TRACT
2 433 759	2,192,515	1,699,101	1,066,593	260,351	CALFED Award
		6,176,800	0		Cost Share
	2,192,515	7,875,901	1,066,593	260,351	Total Project Cost
Department of Water Resources	Stillwater Sciences	Department of Water Resources	Community Alliance for Family Farmers	Stillwater Sciences	Applicant
Stephani Spaar	Dr. Peter Downs	Stephani Spaar	James Tischer	Jennifer Vick	Principal Investigator
					Quantifiable Units
Phase 3: Merced River Salmon Habital Enhancement	Merced River Corridor Restoration Plan Phase IV: Dredger Tailings Reach	Merced River Salmon Enhancement River Mile 42-44 Phase II	Educating Farmers and Landowners in Biological Resource Management	Merced River Corridor Restoration Project Phase III	Project Name
Reduce erosion and maintain gravel recruitment on the Merced River. Reconfigure the channel to improve river and floodplain dynamics and sediment transport. Fred Jurick, CDFG. Implementation. 2.0 miles of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, bought gravel rights, and did restored instream habitat	Develop a detailed sediment transport model. Jeff McLain, USFWS. Planning.	The Merced River Salmon Enhancement project will scale the channel between River miles 42 and 44 to fit the post-dam flow regime. Over the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximatele slope and bankfull flow of 1,700 cfs. The floodplains will be replanted with native riparian\vegetation.(Proposed 2 miles; 45 acres of pond area removed; 10 acres of pond area isolated). <i>Implementation project not completed. (Proposed restoration of 2.0 miles of instream and riparian habitat). Fred Jurick, CDFG.</i>	Project will develop plans to help landowners/growers make beneficial management decisions in relation to water quality improvement and habitat restoration and enhancement. This includes developing two demonstration sites, riparian and working farmland, and an educational outreach program. Some implementation, but primarily educational; project completed, Marcia Gibbs, Community Alliance with Family Farmers (CAFF); Project provided training for Merced River landowners in BMPs regarding fine sediment control, erosion control, biotechnical revetment and riparian buffer strip concepts, Rhonda Reed (CBDA).	This project will develop a long-term restoration and monitoring plan. Project completed. Some modeling implementation involved. The Merced River Corridor Restoration Plan was developed in Phase III. In addition to development of that plan, Stillwater Sciences completed field and modeling efforts and developed design guidelines for channel and floodplain restoration. Jeff McLain, USFWS.	Comments

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r f s i s t t t t	IILES hanag easibi etbac nprov hunda easor ibutan e asor ibutan e are 0 mile /est \$	TON emer lity st k leve e opp te the hal ba y with n Joa sas to San Jo	E 87 Develop floodplain nt plans, including studies to construct ees, to restore and portunities for rivers to eir floodplain on a asis for at least one hin each of the EMZs in aquin River Basin. Among b be included are at least stream channel in the oaquin EMZ.			PROJECTS REVIEWED - ERP- 97-B04, ERP-97-M09, ERP-98-E09, ERP- 98-F06, ERP-98- F11, ERP-00-E05, ERP-00-F01, ERP- 01-C03, ERP-02- D01, ERP-02-D955, ERP-02D-P59, ERP-02- P19-D, AFRP-00-43, AFRP-00-45,	AFRP-01- 09, AFRP- 01-12, AFRP-02, 02, AFRP- 02-11,	SUMMA feasibilit and We and exa Althoug have be occur to	ARY Seven ty studies for st San Joaqu mine opportu h numerous een undertake o determine v	al ERP and <i>i</i> tributaries ir un EMZ to se unities to set plans, studie en, a compila what should	AFRP projects p n all EMZs of the easonally inunda back levees to e s, engineering a ation and evalua continue.	rovide for pl San Joaqu ate respectiv enhance floo nd feasibilit tion of all ac	anning and in River Basin re floodplains odplains. y projects tions should			AGENCY NOTES	NOTES CONT'D
			MULTI SP	ECIES CON	ISERVATION STRA	TEGY MIL	ESTON	IE 87	- EVALUA	TION OF I	NDIVIDUAL	PROJEC ⁻	TS REVIEW	/ED T	O FORMULATE THE R	OLLED UP SUMMARY	
	-		9				CON	TRACT	_					e			
	MS Numbe	REGION	มัก มี ออี มี Milestone	ERP Targets take	MS Components or n Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiabl Units	Project Name	Comme	onts
	1	5JR	Develop floodplain management plans, including feasibility studies to construct setback levees, to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within each of the EMZs in the San Joaquin River Basin. Among the areas to be included are at least 10 miles of stream channel in the West San Joaquin EMZ.		87 A. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Stanislaus River	EPP 02 001	lan 02		1 681 123	381 100	2.062.223	Tuolumne River Preservation Truct	Patrick Koanala		Tuolumne River - Big Bend Project	Floodplain management to restore an to inundate their floodplain on a se River. Improve channel-floodplain co greater frequency (254 acres propo not completed; still in planning acres, 180 acres of CE, and is try Patrick Koepele, Tuolumne I	d improve opportunities for rivers asonal basis on the Tuolumme nnectivity to allow inundation at a sed). Implementation project ohase. Project acquired 197 ing to acquire 16 more acres. River Preservation Trust.
	8	~	<u><u>u</u></u>		87 A. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Stanislaus River	EKF-02-D01	Jan-UZ		1,001,123	361,100	2,002,223	nust	r-autok Koepele		Non-structural alternative at the San Joaquin River National Wildlife Refuge: Refinement of habitat enhancement	Objective: To conduct an engineeri proposed non-structural flood control Joaquin National Wildlife Refuge (S duration, and location of floodplain im benefits and impacts to anadromous the engineering analysis with managu to develop additional floodplain man manipulations that could potentia anadromous fish. The Anadromous cooperation with Ducks Unlimit Associates (PWA) to model the a COE (phase)). PWA has started ph recommendations proposed by th PWA will be soliciting input from of model to better benefit native	ing and hydraulic analysis of the alternative (NSA) within the San JNWR) to evaluate frequency, undation and to predict potential fish. Incorporate information from ment objectives of the SJRNWR agement recommendations and ly be implemented to benefit <i>s Fish Restoration Program in ed funded Philip Williams & Iternatives developed by the ase II which seeks to refine the <i>e COE</i>. <i>During this refinement</i>, experts on how to improve the fish, wildlife, and plants.</i>
	87	SJR	H			AFRP-01-09	Sep-00	Sep-04	312,451	13.000	325.451	Unlimited. Inc.	Dan Connelly				

	28	87	87	MS Number
	SJR EP	SJR EP	SJR	REGION Project Type
				Milestone
				ERP Targets taken from ERPP Vol 2
87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within	87 A. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Stanislaus River	87 A. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Stanislaus River	87 A. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Stanislaus River	MS Components or Questions for field personnel
	AFRP-00-45	AFRP-00-08	AFRP-02-02	ERP PROJECT
				CONT START DATE
				RACT END DATE
				CALFED Award
				Cost Share
				Total Project Cost
	AFRP	AFRP	AFRP	t Applicant
	Cesar Blanco USFWS	JD Wikert USFWS	JD Wikert USFWS	Principal Investigator
				Quantifiable Units
Tuolumne River Bobcat Flat Floodplain Acquisition	Develop an adaptive management forum for large-scale restoration projects	Evaluate proposed non-structural flood control management alternatives on the San Joaquin River National Wildlife Refuge (SJRNWR)	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Project Name
Acquisition project for the purpose of restoring property to self- sustaining natural floodplain. Proposed 280 Acres of alluvial floodplain (1.6 miles of continuous river frontage). Project complete. Property was acquired. Some limited re-vegetation occurred. Money left over from this contract is currently being used for the development of a conceptual restoration plan. Jeff McLain,	Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. <i>This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.</i>	Objective: To conduct an engineering and hydraulic analysis of the proposed non-structural flood control alternative (NSA) within the San Joaquin National Wildlife Refuge (SJNWR) to evaluate frequency, duration, and location of floodplain innundation and to predict potential benefits and impacts to anadromous fish. Incorporate information from the engineering analysis with management objectives of the SJRNWR to develop additional floodplain management recommendations and manipulations that could potentially be implemented to benefit anadromous fish. A cooperative agreement between the AFRP and Ducks Unlimited was completed in September 2000. DU subcontracted with Philip Williams and Associates (PWA) to complete the non-structural modeling. Phase I of the hydraulic modeling was completed in May of 2001. PWA is currently working on Phase II of the modeling work which includes the development of three nonstructural alternatives. Refuge seasonal wetlands design plans were developed through NSA work group and incorporated into alternatives.	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	Comments

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Numbe	NOIS	ject Ty		FRP Targets taken	MS Components or		START	END					Principal	antifiab ts		
MS	REC	Pro	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Investigator	Uni U	Project Name	Comments
					87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.										Tuolumne River watershed outreach and stewardship proposal	Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.
87	SJR	₽				AFRP-01-12		Aug-03				AFRP	Cesar Blanco USFWS			
					87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.										Evaluate channel restoration and aggregate source potential for Two- mile Bar on the Stanislaus River	Objective: To assess the floodplain restoration potential and develop a conceptual restoration strategy for a 50-acre parcel known as Two- mile Bar, and to conduct aggregate and mineral appraisals to establish a fair market value of the land and provide the basis for acquisition in either fee or easement. A cooperative agreement between the AFRP and the Trust for Public Land (TPL) was completed in September of 2000. The TPL coordinated the site survey with the USACOE and subcontracted the aggregate and agricultural appraisals. Appraisals were not completed to federal standards and subsequently where rejected by the USFWS and USBR appraisal reviewers. TPL, CDFG, AFRP, and USBR are currently attempting to get the appraisals brought up to code so the offer to purchase the land can be made.
87	SJR	e.				AFRP-00-09						AFRP	Jeff McLain USFWS			
	R				87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.								JD Wikert		Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.
87	Ś	Ξ			87 B. Status of floodplain	AFRP-02-02						AFRP	USFWS		Develop a river corridor physical	Objective: To evaluate current channel, floodplain, and river corridor
37	SJR	đ			an agement plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	AFRP-00-42						AFRP	JD Wikert USFWS		habitat assessment and restoration plan for the Stanislaus River	processes and habitat condition of the entire lower Stanislaus River in the context of historical and current agents of change; develop a restoration strategy document for floodplain, riparian and channel habitats of the Stanislaus River corridor. The next step will be for the Fish Group to develop a request for proposals and solicit input from technical interests.
87 8	SJR				87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	AFRP-00-43						AFRP	JD Wikert USFWS		Develop a river corridor physical habitat assessment and restoration plan for the Stanislaus River	Objective: To evaluate current channel, floodplain, and river corridor processes and habitat condition of the entire lower Stanislaus River in the context of historical and current agents of change; develop a restoration strategy document for floodplain, riparian and channel habitats of the Stanislaus River corridor. The next step will be for the Fish Group to develop a request for proposals and solicit input from technical interests.

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							ERP Targets taken from ERPP Vol 2
feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Tuolumne River	87 C. Status of floodplain management plans, including	87 C. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Tuolumne River	87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	87 B. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Stanislaus River.	MS Components or Questions for field personnel
	ERP-02-P19-D		AFRP-00-45	ERP-97-B04	EDD 020 055	ERP-02-P19-D	ERP PROJECT NUMBERS
	Mar-04			Aug-98	Oct 03	Mar-04	CONT START DATE
				Mar-02	Sep 06		RACT END DATE
	10,839,000			10.947.000	2 488 003	10.839.000	CALFED Award
				10.000.000	0		Cost Share
	10,839,000			20.947.000.00	2 488 003	10.839.000	Total Project Cost
	Turlock Irrigation District		AFRP	San Luis National Wildlife Refuge Complex	Stillwater	Turlock Irrigation District	Applicant
	Wilton Fryer		Cesar Blanco USFWS	Kim Forrest, Refuce Manager	Frank Ligan	Wilton Frver	Principal Investigator
							Quantifiable Units
	Tuolumne River Setback Levees and Channel Restoration.	Tuolumne River Mining Reach Restoration Project: Warner-Deardorff Segment No. 3 Construction	Develop an adaptive management forum for large-scale restoration projects	San Joaquin River National Wildlife Refuge Riparian Habitat Protection and Floodplain Restoration Project	Physical Modeling Experiments to Guide River Restoration Projects	Tuolumne River Mining Reach Restoration Project: Warner-Deardorff Segment No. 3 Construction	Project Name
characteristics, pre and post project and after flow events. Conduct redd counts and other use surveys. <i>Implementation project</i> <i>completed, Jeff McLain, USFWS.</i>	Improve and restore spawning habitat and durability. Monitor geomorphology (pebble counts, tracer rocks, stabilization)and channel	Feasibility studies to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis on the Tuolumne River. Reconstruct natural channel geometry scaled to current channel forming flows, which allows active fluvial processes to maintain the restored aquatic habitat within a 500 foot wide riparian floodway. (Proposed 73 acres,1.3 miles riverine habitat). <i>Implementation</i> <i>project not complete. Jeff McLain, USFWS.</i>	Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.	This contract represents Phase I of an overall project to acquire lands along the San Joaquin River for the benefit of fish and wildlife. Four separate parcels will be purchased totaling 6169 acres; this acreage will become part of the SJR NWR. This phase will also include pre- restoration planning. A Baseline Biological Inventory was completed as part of this project prior to future phase restoration. Phase II of this project will entail earth-moving and restoration. This project was completed, it included planning and baseline monitoring. Kim Forrest, USFWS, 209.826.3508	The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. <i>Frank Ligon, Stillwater Sciences. Research;</i> project not completed, Just started in Oct 2003.	Feasibility studies to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis on the Tuolumne River. Reconstruct natural channel geometry scaled to current channel forming flows, which allows active fluvial processes to maintain the restored aquatic habitat within a 500 foot wide riparian floodway. (Proposed 73 acres,1.3 miles riverine habitat). <i>Implementation</i> <i>project not complete. Jeff McLain, USFWS.</i>	Comments

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AS 1	Ê	Milestone	ERP Targets taken	Questions for field	ERP PROJECT			CALEED Award	Cost Share	Total Project Cost	Applicant	Principal	Jua	Project Name	Comments
				87 C. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one	Nomberto	DATE	DATE	ORE ED Award	outonate		Approduct	investigator		Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River	Project not begun yet. Proposing to establish for riparian brush rabbits a Lower Stanislaus River Riparian Preserve of 500-1,000 acres on the south bank of Stanislaus River in Stanislaus County, within an area defined by the confluence with the San
				tributary within the San Joaquin River Basin EMZ Tuolumne River							San Luis				Joaquin River up to river mile 9.5. Additionally, proposing expansion of the habitat at Caswell Memorial State Park, San Joaquin County, while monitoring the riparian brush rabbits response; and monitor the recently reintroduced rabbits at the San Joaquin River National Wildlife Refuge on the San Joaquin River in Stanislaus County to gain a better understanding of the reintroduction process. Kim Forrest, USFWS.
											National				
~	ч	<u>م</u>						0.407.404		0.407.404.00	Wildlife Refuge	Kim Forrest,			
8	Ś	Ш		87 C. Status of floodplain	ERP-02D-P59			6,427,131		6,427,131.00	Complex	Refuge Manager		Partner with Modesto City and County	Objective: Incorporate babitat needs of salmonids in developing
				management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Tuolumne River										Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	the updated Tuolumne River Regional Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The original plans were developed in the 1960s. The principal tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2)
															soliciting public and agency comment; (3) conducting reconnaissance-level field studies to document environmental setting and identify environmental opportunities and constraints; (4) prepare environmental documentation (EIR/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumne River that is used primarily as a migration corridor by fall-run Chinook salmon.
	¥											Jeff McLain			
87	S	<u> </u>		97 C. Status of floodslain	AFRP-02-11						AFRP	USFWS		Tuolumpo Biyor Sothaak Lovooo and	Construction of act back layeon. Construct a system of actback layeon
87	SJR	£		anagement plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Tuolumne River	ERP-97-M09	Jul-00	Dec-01	2.801.000	4,384,060	7,185,060	Turlock Irrigation District	Wilton Fryer		Channel Restoration (7/11 Segment of Mining Reach)	 Constitution of set back vectors. Constitute a system of set back levees. Constitution of set back vectors. Constitute a system of set back levees to create a more natural dynamic morphology that will improveriparian habitat. Jeff McLain, USFWS, 209.946.6400 x 304. Implementation6 river miles of riparian and riverine aquatic habitat. Project completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This specific project will eventually restore the 7/11 segment (.6 miles@ RM 37.7-40.3). This project filled-in mining pits for instream habitat and floodplain enhancement.
		-		87 C. Status of floodplain	2.4. 57 100		20001	2,001,000	1,004,000	.,	2.00100			Develop an adaptive management	Objective: To establish a multi-disciplinary technical forum where large-
				management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Tuolumne River										forum for large-scale restoration projects	scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.
	¥											Cesar Blanco			
87	S			1	AFRP-00-45						AFRP	USFWS			

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٩	EP	EP	<u></u>	E	Project Type
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					ERP Targets taken
87 E. Status of floodplain management plans, including feasibility studies to construct setback levees for at least one tributary within the San Joaquin River Basin EMZ Merced River	87 D. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Tuolumne River.	87 D. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Tuolumne River.	87 D. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Tuolumne River.	87 D. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one ributary within the San Joaquin Basin EMZ Tuolumne River.	MS Components or Questions for field
AEPP 00 45	AFRP-00-45	ERP-02D-P55	AERD 02 11	ERP-97-B05	ERP PROJECT
		Oct-03		Mar-98	CONT START
		Sep-06		Sep-00	
		2.488.003		334.000	CALEED Award
		0		0	Cost Share
		2.488.003		334.000	Total Project Cos
AEDD	AFRP	Stillwater Sciences		San Luis National Wildlife Refuge Complex	t Applicant
Cesar Blanco	Cesar Blanco USFWS	Frank Ligon	Jeff McLain	Kim Forrest, Refuce Manager	Principal
					Quantifiable Jnits
Develop an adaptive management forum for large-scale restoration projects	Develop an adaptive management forum for large-scale restoration projects	Physical Modeling Experiments to Guide River Restoration Projects	Partner with Modesto City and County Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Feasibility Analysis for the San Joaquin-Bear Creek Floodplain Restoration Project, San Luis National Wildlife Refuge.	Project Name
Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. <i>This contract was modified in 2002 to include a fourth forum session and</i> \$35,000.00 was added. The forum was held in March 2003 and a <i>final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.</i>	Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.	The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. <i>Frank Ligon 707.822.9607 Stillwater Sciences.</i> <i>Research; project not completed, Just started in Oct 2003.</i>	Objective: Incorporate habitat needs of salmonids in developing the updated Tuolumne River Regional Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The principal tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2) soliciting public and agency comment in part by conducting interviews with key stakeholders and facilitating public workshops and meetings; (3) conducting reconnaissance-level field studies to document environmental setting and identify environmental opportunities and constraints; (4) prepare environmental documentation (EIR/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumne River that is used primarily as a migration corridor by fall-run Chinook salmon.	This project is conducting a feasibility analysis that will eventually lead to a demonstration project that would require deauthorization of modification of a 10-mile section of levees along the San Joaquin River to restore more natural flooding hydrology. <i>Project completed</i> . <i>This was a planning project dealing with the feasibility of allowing passive breaches along a section of the SJR near the Bear Creek Unit of the Refuge. Kim Forrest, USFWS.</i>	Comments

ber		ype				CONT	RACT						able		
MS Num	REGION	ERP Ta	argets taken ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifi <i>e</i> Units	Project Name	Comments
				87 F. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.							Stillwater Sciences & Merced Co.			Merced River Corridor Restoration Plan	Project will address historical and current supply and transport of coarse and fine sediment. Jeff McLain. Planning. Final Plan completed. The final plan recommends actions to re-establish floodplain at elevations that are functional under the contemporary regulated flow regime, to establish a floodplain corridor and reconnect the river to its floodplain.
87	SJR	£			ERP-98-E09	Sep-98	Apr-01	300,000 0	265,520	326,552	Planning and Development	Jennifer Vick/Bob Smith			
				87 F. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.							Department of			Phase 3: Merced River Salmon Habitat Enhancement	Reduce erosion and maintain gravel recruitment on the Merced River. Reconfigure the channel to improve river and floodplain dynamics and sediment transport. Fred Jurick 916.445.3967 Department of Fish and Game. Implementation. 2.0 miles of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, bought gravel rights, and did restored instream habitat
22	R	<u>a</u>			FRP-98-F11	Mar-99	Sen-02	2 433 759		2 433 759	Water	Stenhani Snaar			
				87 F. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ.		Well-30		2,400,700		2,430,100	Resources			Merced River Corridor Restoration Plan Phase IV: Dredger Tailings Reach	Project will facilitate floodplain re-grading strategies that will encourage more frequent floodplain inundation. <i>Planning project not</i> <i>complete. Jeff McLain, USFWS.</i>
87	SJR	.		Merced River.	ERP-02-P12-D	May-03	Apr-06	2,192,515		2.192.515	Stillwater Sciences	Dr. Peter Downs			
	2	_		87 F. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.						21.02,010	Stillwater			Physical Modeling Experiments to Guide River Restoration Projects	The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. Research Project not completed, just started in October 2003. Frank Ligon, Stillwater Sciences.
87	S	<u>له المعامة الم</u>		87 E. Status of floodplain	ERP-02D-P55	Oct-03	Sep-06	2,488,003	0	2,488,003	Sciences	Frank Ligon		Merced Diver Corridor Restoration	This project will develop a long term restoration and monitoring plan
				analogement plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.										Project Phase III	Project completed. Some modeling implementation involved. The Merced River Corridor Restoration Plan was developed in Phase III. In addition to development of that plan, Stillwater Sciences completed field and modeling efforts and developed design guidelines for channel and floodplain restoration. Jeff McLain, USFWS.
	ĸ										Stillwater				
87	S			87 F. Status of floodplain	ERP-00-E05	Feb-00	Sep-02	260,351		260,351	Sciences	Jennifer Vick		Merced River Salmon Enhancement	The Merced River Salmon Enhancement project will scale the channel
				management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.										River Mile 42-44 Phase II	between River miles 42 and 44 to fit the post-dam flow regime. Over the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximatele slope and bankfull flow of 1,700 cfs. The floodplains will be replanted with native riparian/vegetation. (Proposed 2 miles; 45 acres of pond area removed; 10 acres of pond area isolated). <i>Implementation project</i> <i>not completed. (Proposed restoration of 2.0 miles of instream</i> <i>and riparian habitat). Fred Jurick, CDFG.</i>
											Department of				
87	SJF	<u>a</u>			ERP-01-C03	Jul-01	Jun-04	1,699,101	6,176,800	7,875,901	Resources	Stephani Spaar			

87	87	MS Number
sJR	SJR	REGION
EP	EP	Project Type
		Milestone
		ERP Targets taken from ERPP Vol 2
87 G. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis. Among the areas to be included are at least 10 miles of stream channel in the West San Joaquin EMZ.	87 F. Status of floodplain management plans to restore and improve opportunities for rivers to inundate their floodplain on a seasonal basis for at least one tributary within the San Joaquin Basin EMZ Merced River.	MS Components or Questions for field personnel
ERP-02D-P55	AFRP-00-45	ERP PROJECT NUMBERS
Oct-03		CONT START DATE
Sep-06		END DATE
2,488,003		CALFED Award
0		Cost Share
2,488,003		Total Project Cost
Stillwater Sciences	AFRP	Applicant
Frank Ligon	Cesar Blanco USFWS	Principal Investigator
		Quantifiable Units
Physical Modeling Experiments to Guide River Restoration Projects	Develop an adaptive management forum for large-scale restoration projects	Project Name
The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. <i>Research Project not completed, just started in</i> <i>October 2003. Frank Ligon, Stillwater Sciences.</i>	Objective: To establish a multi-disciplinary technical forum where large- scale channel restoration project planning, implementation, and monitoring will receive input and review to provide a more structured process of peer review and adaptive management. <i>This contract was modified in 2002 to include a fourth forum session and \$35,000.00 was added. The forum was held in March 2003 and a final report is pending. The Tuolumne, Merced, and Clear Creek reports have been submitted and are available on the AFRP website.</i>	Comments

Γ					MU	JLTI SPECIE	ES CON	SER	ATION S	TRATE	GY MILEST	ONE 88	ROLLED U	P SUI	MMARY		
N stf n ir to	ILEST awniri at incl es by ttural I pair s reduc	ONE g an isola near trean e sal	88 Develop a coopera d rearing habitat in the Tu the following elements: (ting or filling in in channe ider by removing riprap a n meander; and (3) restor monid predator habitat ar	ative program to uolumne, Stanis (1) reconstructir I gravel extraction ind relocating ott ring more natura nd improve migr	restore salmonid laus, and Merced Rivers ig channels at selected on areas; (2) increasing her structures that al channel configurations ration corridors.	PROJECTS REVIEWED ERP-97-M08, ERP 97-M09, ERP-97- N21, ERP-98-E09, ERP-98-F06, ERP- 98-F11, ERP-99-B05, ERP-99-F01, ERP-99-F01, ERP-99-F02, ERP- 99-R01, ERP-00- E05, ERP-00-F01, RP-01-N03, ERP- 01-C03, ERP-01- N09, ERP-02-P19-D, AFRP-00-06,	AFRP-00- 09, AFRP- 100-12, AFRP-00- 35, AFRP-01- 12, AFRP-01- 12, AFRP-02- 02-02, AFRP-03- 03	SUMM that co natural meand and rer are exp have fo Stanisl linked of these t	ARY Seventribute to response of the stream charts and migmoval of riproduced to reconsed on the aus Rivers. For phased pributaries.	eral ERP a econstruct nnels, spa gration cor ap and ott duce habit duce habit the Tuolum While the rojects tha	and AFRP proj ion and restor- wining and rea ridors by resto her channel ob at for predator ne River, follow projects are in t add to the le	ects have be ation efforts t ring habitat, ring gravel e structions. s of salmon. ved by the N ndependent, ngth of restor	en awarded o create more natural xtraction sites These actions Most projects erced, then they are often red reaches on			AGENCY NOTES	NOTES CONT'D
			MULTI SPE	ECIES CONS	ERVATION STRA		STONE	88 E	EVALUAT	ION OF	INDIVIDUA	L PROJE	CTS REVIE	NED	TO FORMULATE THE F	ROLLED UP SUMMARY	
	MS Number	Proiect Type	, Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT	CONTI START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
	88 0		Develop a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne, Stanislaus, and Merced Rivers that includes the following elements: (1) reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas; (2) increasing natural meander by removing riprap and relocating other structures that impair stream meander; and (3) restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridors.		88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	ERP-99-F01	Sep-99	Mar-02	164,800		164,800	Turlock Irrigation District	Wilton Fryer		Tuolumne River Run Pool 10 Restoration	Restoration of instream aquatic habit habitat and reduction of predatory salmon. The full SRP 10 project will rr River channel, at river mile 25.4. The ponds. This project is complete. SRP 10 Restoration Project to resto River. This phase included levee monitoring. This project contribute which will reduce salmonid fish p increase habitat for salmon prod channel geometry, and restore nativ Jeff McLain, to	at and shaded riverine aquatic fish habitat for the benefit of ebuild a portion of the Tuolumne a project will remove mining pit This is part of the larger full ore RM 25.4 on the Tuolumne breach repair and baseline as to eventual full restoration redator habitat, restore and uction, reconstruct natural re riparian plant communities. JSFWS.
	88 9				88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	ERP-00-F01	Oct-00	Aug-04	1,984,320		1,984,320	Friends of the Tuolumne River	Dave Boucher		Tuolumne River Bobcat Flat Floodplain Acquisition	Acquisition project for the purpose sustaining natural floodplain. Proposed (1.6 miles of continuous river frontage was acquired. Money left over fro being used for the development of a Jeff McLain, f	of restoring property to self- 1 280 Acres of alluvial floodplain). Project complete. Property m this contract is currently a conceptual restoration plan. JSFWS.

88	88	38	88	MS Number
л. Л	SJR	SJR	SJR	REGION
EP	EP	EP	EP	Project Type
				Milestone
				ERP Targets taken from ERPP Vol 2
88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	MS Components or Questions for field personnel
AFRP-02-11	ERP-99-F02	ERP-01-N09	AFRP-00-12	ERP PROJECT NUMBERS
	Sep-99	Aua-04		CONTR START DATE
	Mar-02	Aua-04		END DATE
	3,332,050	910.468		CALFED Award
	3,145,000			Cost Share
1,001,020	1,984,320			Total Project Cost
AFRP	Turlock Irrigation District	Turlock Irrigation District	AFRP	Applicant
Jeff McLain USFWS	Wilton Fryer	Wilton Frver	Jeff McLain USFWS	Principal Investigator
				Quantifiable Units
Partner with Modesto City and County Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Tuolumne River Mining Reach Restoration Project No. 2 - MJ Ruddy Segment	Tuolumne River Fine Sediment Management	Tuolumne River: Special Run Pool 10 Dike Repair and Pre-Project Monitoring	Project Name
Objective: Incorporate habitat needs of salmonids in developing the updated Tuolumne River Regional Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The original plans were developed in the 1960s. The principal tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2) soliciting public and agency comment; (3) conducting reconnaissance-level field studies to document environmental setting and identify environmental opportunities and constraints; (4) prepare environmental documentation (EIR/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumne River that is used primarily as a migration corridor by fall-run Chinook salmon.	The MJ Ruddy Segment is Project No. 2 located between river mile 36.5 and 37.6 on the Tuolumne River. Objectives: 1) Restore and increase habitat for natural salmon production. 2) Reconstruct natural channel geometry scaled to current channel forming flows. 3) Restore native riparian plant communities. 4) Reduce salmonid fish predator habitat. Jeff McLain, USFWS. Implementation. Project not completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This project will eventually restore MJ Ruddy Reach (1.1 miles @ RM 36.5-37.6). No actual restoration has been accomplished to date; land has not been purchased.	Implements actions to remove sand and clean five pool and riffles sites in the spawning reach of the Tuolumme River. This is a planning, design and implementation project. Implementation has not started, yet the planning and design phases are completed. Project is 32% complete. Wilton Fryer, Turlock Irrigation District.	Objective: A levee separating a gravel extraction pit from the Tuolumne River was damaged during the 1997 floods connecting the deepwater habitat with the Tuolumne River. This project will reduce juvenile salmonid fish predator habitat by repairing the levee and isolating the mining pit from the Tuolumne River. This project will also collect a second year of pre-project monitoring to better establish base line conditions for the full SRP 10 restoration project. The levee breach repair was completed in 2001 and the pre-project monitoring was completed in early 2002.	Comments

88	88	88	MS Number
SJR	SJR	sJR	REGION
đ	EP	E	Project Type
			Milestone
			ERP Targets taken from ERPP Vol 2
88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	88 A. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Tuolumne River.	MS Components or Questions for field personnel
ERP-97-M08	AFRP-01-12	ERP-97-M08	ERP PROJECT NUMBERS
Feb-98		Feb-98	CONTR START DATE
	Aug-03		END DATE
2,353,100	2,000,100	2.353,100	CALFED Award
			Cost Share
2,353,100			Total Project Cost
Turlock Irrigation District	AFRP	Turlock Irrigation District	Applicant
Tim Ford	Cesar Blanco USFWS	Tim Ford	Principal Investigator
			Quantifiable Units
Tuolumne River Special Run Pool 9 Restoration	Tuolumne River watershed outreach and stewardship proposal	Tuolumne River Special Run Pool 9 Restoration	Project Name
Reconstructing channels by isolating or filling in channel gravel extraction areas. Will change warmwater predator species habitat resulting from gravel mining to a more natural, dynamic morphology that will improve habitat for chinook salmon. Jeff McLain, USFWS. Implementation2 miles of riparian and riverine aquatic habitat (credited for Milestone 94B). This project was completed. A final joint Environmental Assessment and Initial study for the restoration projects Special Run Pool (SRP) 9 and 10 (ERP 99 F01) and four project segments of the Gravel Mining Reach was completed in October 1999 with funding from this agreement. Pre- project monitoring that included habitat mapping, fish community evaluation, salmon smolt survival experiments, and geomorphic variables occurred during spring through fall of 1998. Instream work, floodplain construction, and revegetation was completed in 2001. Restored floodplain is currently being maintained to enhance survival of plantings.	Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	Reconstructing channels by isolating or filling in channel gravel extraction areas. Will change warmwater predator species habitat resulting from gravel mining to a more natural, dynamic morphology that will improve habitat for chinook salmon. Jeff McLain, USFWS. Implementation2 miles of riparian and riverine aquatic habitat. This project was completed. A final joint Environmental Assessment and Initial study for the restoration projects Special Run Pool (SRP) 9 and 10 (ERP 99 F01) and four project segments of the Gravel Mining Reach was completed in October 1999 with funding from this agreement. Pre-project monitoring that included habitat mapping, fish community evaluation, salmon smolt survival experiments, and geomorphic variables occurred during spring through fall of 1998. Instream work, floodplain construction, and revegetation was completed in 2001. Restored floodplain is currently being maintained to enhance survival of plantings.	Comments

38	88	88	88 MS N	S Number
al.	als:		SJR	REION
e e	e e e e e e e e e e e e e e e e e e e	E	EP Proje	oject Type
			Milestone	
			ERP Targets taken from ERPP Vol 2	ERP Targets taken
River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas. 88 B. Status on the Tuolumne	88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	Questions for field personnel 88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	MS Components or Questions for field
ERP-98-F06	AFRP-00-12	AFRP-02-11	AFRP-01-12	ERP PROJECT
Sep-98			START DATE	CONT
Jun-04			END DATE	END
1.362.000			CALFED Award	
5,847,260			Cost Share	
7.209.260			Total Project Cost	Total Project
USBR	AFRP	AFRP	Applicant	
Carolyn Mallory	Jeff McLain USFWS	Jeff McLain USFWS	Principal Investigator	Principal
			Quan	lantifiable lits
Channel Restoration.	Tuolumne River: Special Run Pool 10 Dike Repair and Pre-Project Monitoring	Partner with Modesto City and County Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Project Name Tuolumne River watershed outreach and stewardship proposal	
geomorphology (pebble counts, tracer rocks, stabilization)and channel characteristics, pre and post project and after flow events. Conduct redd counts and other use surveys. Implementation project completed, Jeff McLain, USFWS.	Objective: A levee separating a gravel extraction pit from the Tuolumne River was damaged during the 1997 floods connecting the deepwater habitat with the Tuolumne River. This project will reduce juvenile salmonid fish predator habitat by repairing the levee and isolating the mining pit from the Tuolumne River. This project will also collect a second year of pre-project monitoring to better establish base line conditions for the full SRP 10 restoration project. The levee breach repair was completed in 2001 and the pre-project monitoring was completed in early 2002.	Objective: Incorporate habitat needs of salmonids in developing the updated Tuolumne River Regional Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The original plans were developed in the 1960s. The tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2) soliciting public and agency comment; (3) conducting reconnaissance-level field studies to document environmental setting and identify environmental doportunities and constraints; (4) prepare environmental documentation (EIR/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumne River that is used primarily as a migration corridor by fall-run Chinook salmon.	Comments Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	

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88 B. Status on the Tuolumne
AFRP-01-02
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na
3,501,000
3,376,000
6,877,000
Turlock Irrigation District
Wilton Fryer
Tuolumne River Mining Reach
necessary cooperative agreements have been obtained; some engineering work has been done to facilitate hydraulic and fluvial models, environmental permits, monitoring, and right-of-way footprints. Design and monitoring work is continuing. When finished, the preliminary design will be distributed for technical review and comment which will be used to finalize the design plans. Yes, this restoration will eventually cover 1.3 miles: river mile 35.2 to 36.5. References to 6.1 miles includes the entire river reach covered by four phased pro

88	88	88	88	MS Number
SJR	sJR	sJR	SJR	REGION
EP	E	EP	EP	Project Type
				Milestone
				ERP Targets taken from ERPP Vol 2
88 C. Status on the Tuolumne River of increasing natural meander by removing riprap and relocating other structures that impair stream meander	88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	88 B. Status on the Tuolumne River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.	MS Components or Questions for field personnel
AFRP-01-12	ERP-01-N03	AFRP-00-06	ERP-99-F02	ERP PROJECT NUMBERS
	Nov-01		Sep-99	CONTR START DATE
Aug-03	Nov-04		Mar-02	END DATE
	543,530		3,332,050	CALFED Award
	0		3,145,000	Cost Share
	543,530		17,716,000	Total Project Cost
AFRP	Turlock Irrigation District	AFRP	Turlock Irrigation District	Applicant
Cesar Blanco USFWS	Wilton Fryer	Jeff McLain USFWS	Wilton Fryer	Principal Investigator
				Quantifiable Units
Tuolumne River watershed outreach and stewardship proposal	Tuolumne River Restoration: Special Run Pool 10	Continue to restore the 7/11 segment of the mining reach on the Tuolumne River	Tuolumne River Mining Reach Restoration Project No. 2 - MJ Ruddy Segment	Project Name
Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website.	Project will fill in deep lake like pool areas created by past instream gravel mining thus reducing salmon fish predator habitat. Project completed. Jeff McLain, USFWS	Objective: To restore and increase riparian and instream habitat to support natural production of the San Joaquin fall-run Chinook salmon; Reconstruct a natural channel geometry scaled to current channel forming flows; Restore native riparian plant communities within their predicted hydrological regime; and Reduce the occurrence of salmonid fish predator habitat.	The MJ Ruddy Segment is Project No. 2 located between river mile 36.5 and 37.6 on the Tuolumne River. Objectives: 1) Restore and increase habitat for natural salmon production. 2) Reconstruct natural channel geometry scaled to current channel forming flows. 3) Restore native riparian plant communities. 4) Reduce salmonid fish predator habitat. Jeff McLain, USFWS. Implementation. Project not completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This project will eventually restore MJ Ruddy Reach (1.1 miles @ RM 36.5-37.6). No actual restoration has been accomplished to date; land has not been purchased.	Comments

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SM	RE	د Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	CALFED Award	Cost Share	Cost	Applicant	Investigator	ð 5	Project Name	Comments
				88 C. Status on the Tuolumne										Partner with Modesto City and County	Objective: Incorporate habitat needs of salmonids in develop
				River of increasing natural										Parks Departments for Restoration	the updated Tuolumne River Regional Park Land Use and Ma
				meander by removing riprap										Planning and Implementation on the	plans. Acquisition of the Gateway parcel located in the center
				and relocating other structures										Gateway Parcel	the regional park has necessitated the development of new la
				that impair stream meander											developed in the 1960s. The tasks involved in this planning of
															include: (1) development of a preliminary program that broad
															defines potential uses and activities within the Park corridor
															a set of baseline environmental objectives; (2) soliciting pub
															and agency comment; (3) conducting reconnaissance-level fi
															studies to document environmental setting and identify
															environmental opportunities and constraints; (4) prepare
															environmental documentation (EIR/EA); and (5) prepare Land
															Plan and Galeway Master Plan. This planning errort will arred
															a migration corridor by fall-run Chinook salmon.
	1														
	2											Jeff McLain			
88	S	<u><u></u></u>			AFRP-02-11						AFRP	USFWS			
				88 C. Status on the Tuolumne					\$132,892					Floodplain Easements - Lower	Acquire and restore area prone to flood damage. Removal or relo
				River of increasing natural					returned		Matural			I uolumne and San Joaquin Rivers	structures that impair stream meander.(Proposed 992.8 acres)
				and relocating other structures					because not		Natural				Project completed. Jen McLam, 03PWS.
	~			that impair stream meander					was		Conservation				
88	S	B		· · · · · · · · · · · · · · · · · · ·	ERP-99-R01	Jul-99	Mar-01	1,500,000	purchased	1,367,108	Service	Helen Flack			
				88 C. Status on the Tuolumne										Tuolumne River Mining Reach	This project is 1 of 4 phases of the overall Mining Reach Project
				River of increasing natural										Restoration No. 3, Warner-Deardorff	restore floodplain and riparian habitat to 6.1 miles of the Tuolum
				meander by removing riprap										Segment	River. This project ties into the permanent floodplain channel
				and relocating other structures											reconstruction at the downstream end of a set back dike construct
															mining will be filled in to re-create a riffle and run pattern that follo
															the restored meander channel of the river. Jeff McLain. Planni
															and pre-project monitoring; in planning phase. To date
															necessary cooperative agreements have been obtained; son
															engineering work has been done to facilitate hydraulic and flu
															models, environmental permits, monitoring, and right-of-wa
															footprints. Design and monitoring work is continuing. Whe
															review and comment which will be used to finalize the design
															plans. Restoration will eventually cover 1.3 miles: river mile
															to 36.5. References to 6.1 miles includes the entire river rea
															covered by four phased proj
											_		1		
											Turlock				
œ	L'R	<u>.</u>				D 2	P 2	3 501 000	3 376 000	6 877 000	District	Wilton Enver			
8	<i>s</i>			88 C. Status on the Tuolumne	ALT: 11-02	IId	IId	3,301,000	3,370,000	0,077,000	District	willon Fiyer		Tuolumne River - Big Bend Project	Increase the natural meander by removing riprap and relocating of
	1			River of increasing natural										2.5 2010 10000	structures that impair stream meander from the property to the
	1			meander by removing riprap											Tuolumne river. Increase the natural meander by removing riprap
	1			and relocating other structures											relocating other structures that impair stream meander on the
				that impair stream meander									1		Tuolumne river. Implementation project not completed; still
	1										Tuolumne				planning phase. Project acquired 197 acres, 180 acres of CE,
	1										River				River Preservation Trust
œ	R	<u>e</u>				lup 05		1 691 102	381 100	2 062 222	Preservation	Patrick Koopala			
ŵ	s		+	88 C. Status on the Tuolumne	ERP-02-D01	Jun-05	<u> </u>	1,001,123	301,100	2,002,223	TUST	Patrick Koepele	+	Tuolumne River Mining Reach	Increasing natural meander on the Tuolumne River by relocation
				River of increasing natural									1	Restoration Project: Warner-Deardorff	structures that impair stream meander. Restore river channel abili
	1			meander by removing riprap										Segment No. 3 Construction	migrate within the restored floodway to improve and maintain ripa
				and relocating other structures		Mar-03 -					Turlock		1		and salmonid habitat. Implementation project not complete. J
_	R			that impair stream meander		Notification					Irrigation				McLain, USFWS.
88	5	丗	1	1	ERP-02-P19-D	Letter	1	10 839 000	1	10 839 000	District	Wilton Erver	1		1

88	88	88	88	MS Number
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£.	<u>.</u>	EP	EP	Project Type
				Milestone
				ERP Targets taken from ERPP Vol 2
natural channel configurations to reduce salmonid predator habitat and improve migration corridor	88 D. Status on the Tuolumne River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor	88 D. Status on the Tuolumne River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor	88 D. Status on the Tuolumne River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor	MS Components or Questions for field personnel
AFRP-02-11	AFRP-01-12	AFRP-00-06	ERP-97-M09	ERP PROJECT NUMBERS
			Jul-00	CONTR START DATE
	Aug-03		Dec-01	END DATE
			2,801,000	CALFED Award
			4,384,060	Cost Share
			7,185,060	Total Project Cost
AFRP	AFRP	AFRP	Turlock Irrigation District	Applicant
Jeff McLain USFWS	Cesar Blanco USFWS	Jeff McLain USFWS	Wilton Fryer	Principal Investigator
				Quantifiable Units
Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Tuolumne River watershed outreach and stewardship proposal	Continue to restore the 7/11 segment of the mining reach on the Tuolumne River	Tuolumne River Setback Levees and Channel Restoration	Project Name
Ine updated Tuolumne Kiver Keglonal Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The original plans were developed in the 1960s. The principal tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2) soliciting public and agency comment; (3) conducting reconnaissance-level field studies to document environmental setting and identify environmental opportunities and constraints; (4) prepare environmental documentation (EIR/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumme River that is used primarily as a migration corridor by fall-run Chinook salmon.	Objective: To create and utilize outreach materials as tools to build awareness, understanding and support for the Tuolumne River Technical Advisory Committee Plan, "Habitat Restoration Plan for the Lower Tuolumne River Corridor". The cooperative agreement between the AFRP and TRPT was completed in October of 2001. TRPT released two documents: the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands; a brochure depicting land use patterns in the Tuolumne River corridor. The TRPT received a no-cost time extension extending the end date to April 2003 to complete their outreach to landowners who might be interested in easement opportunities. TRPT submitted a final report in August 2003 documenting their outreach efforts. This report, along with the Tuolumne River Watershed Map and the Lower Tuolumne River Corridor and Its Lands can be found on the AFRP website. Objective: Incorporate habitat needs of salmonids in developing the undeted Tuolume River Developed Lord Lord Mede	Objective: To restore and increase riparian and instream habitat to support natural production of the San Joaquin fall-run Chinook salmon; Reconstruct a natural channel geometry scaled to current channel forming flows; Restore native riparian plant communities within their predicted hydrological regime; and Reduce the occurrence of salmonid fish predator habitat.	 Project will return this reach of river to a more natural, dynamic channel . Jeff McLain, USFWS, 209.946.6400 x 304. Implementation6 river miles of riparian and riverine aquatic habitat. Project completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This specific project will eventually restore the 7/11 segment (.6 miles @ RM 37.7-40.3). This project filled-in mining pits for instream habitat and floodplain enhancement. 	Comments

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N SV	EGIO	roje	Milostopo	ERP Targets taken	Questions for field	ERP PROJECT	START	END	CALEED Award Cost S	Total Project	Applicant	Principal	Reviect Name	Commente
	Ľ		miestone		88 E. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Stanislaus River.	NUMBERS	DATE	DATE	CALFED Award Cost S		Appricant	investigator	Knights Ferry Gravel Replenishment	Restore salmonid spawning and rearing habitat in the Stanislaus by reconstructing channels at selected sites. Adding silt-free gra create pools, runs and riffles will result in more favorable salmo habitat. Project completed. Multiphased project with seve subsequent non-CALFED funded phases. J.D. Wikert, USFN
88	SJR	EP				ERP-97-N21	Sep-98	Sep-01	536,410 97,00	633,410	Carl Mesick Consultants	Carl Mesick		
					88 E. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Stanislaus River.								Evaluate channel restoration and aggregate source potential for Two- mile Bar on the Stanislaus River	Objective: To assess the floodplain restoration potential and deve conceptual restoration strategy for a 50-acre parcel known as T mile Bar, and to conduct aggregate and mineral appraisals to est a fair market value of the land and provide the basis for acquisitic either fee or easement. A cooperative agreement between t AFRP and the Trust for Public Land (TPL) was completed 1 September of 2000. The TPL coordinated the site survey with USACOE and subcontracted the aggregate and agricultur, appraisals. Appraisals were not completed to federal standa and subsequently where rejected by the USFWS and USB appraisal reviewers. TPL, CDFG, AFRP, and USBR are curre attempting to get the appraisals brought up to code so the o to purchase the land can be made.
8	SJR	e.				AFRP-00-09					AFRP	Jeff McLain		
88	SJR	EP			88 E. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Stanislaus River.	AFRP-02-02					AFRP	JD Wikert USEWS	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus based plan to direct the long ter implementation of prioritized restoration/research in the Stanislau River below Goodwin Dam. The project is currently focused o finishing a summary of the existing fisheries data. The summ- will be provided to the Stanislaus River Fish Group for revie and comment in January 2004. Work continues on the Restoration Plan and conceptual model.
		_			88 F. Status on the Stanislaus	74114 02 02					7414		Evaluate channel restoration and	Objective: To assess the floodplain restoration potential and develo
					River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.								aggregate source potential for Two- mile Bar on the Stanislaus River	conceptual restoration strategy for a 50-acre parcel known as Tw mile Bar, and to conduct aggregate and mineral appraisals to estab a fair market value of the land and provide the basis for acquisition either fee or easement. A cooperative agreement between the AFRP and the Trust for Public Land (TPL) was completed in September of 2000. The TPL coordinated the site survey with i USACOE and subcontracted the aggregate and agricultural appraisals. Appraisals were not completed to federal standard and subsequently where rejected by the USFWS and USBR appraisal reviewers. TPL, CDFG, AFRP, and USBR are current attempting to get the appraisals brought up to code so the off to purchase the land can be made.
88	SJR	₽				AFRP-00-09					AFRP	Jeff McLain USFWS		
	R				88 F. Status on the Stanislaus River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.								Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus based plan to direct the long ter implementation of prioritized restoration/research in the Stanislau River below Goodwin Dam. The project is currently focused o finishing a summary of the existing fisheries data. The summar will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.
88	S	Ш				AFRP-02-02					AFRP	JD Wikert USFWS		

AS Number	REGION	roject Type	Milostope	ERP Targets taken	MS Components or Questions for field		CONTF START		CALEED Award	Cost Share	Total Project	Applicant	Principal	Quantifiable Jnits	Drojant Nama	Commonto
2	2	4	Milestone	TROM ERPP Vol 2	Bar Gar Status on the Stanislaus River of increasing natural meander by removing riprap and relocating other structures that impair stream meander	NUMBERS	DATE	DATE	CALFED AWard	Cost Share	Lost	Applicant	Investigator		Evaluate channel restoration and aggregate source potential for Two- mile Bar on the Stanislaus River	Objective: To assess the floodplain restoration potential and develop a conceptual restoration strategy for a 50-acre parcel known as Two- mile Bar, and to conduct aggregate and mineral appraisals to establish a fair market value of the land and provide the basis for acquisition in either fee or easement. A cooperative agreement between the AFRP and the Trust for Public Land (TPL) was completed in September of 2000. The TPL coordinated the site survey with the USACOE and subcontracted the aggregate and agricultural appraisals. Appraisals were not completed to federal standards and subsequently where rejected by the USFWS and USBR appraisal reviewers. TPL, CDFG, AFRP, and USBR are currently attempting to get the appraisals brought up to code so the offer to purchase the land can be made.
œ	SJR	e.				AFRP-00-09						AFRP	Jeff McLain USFWS			
38	SJR 6	EP			88 G. Status on the Stanislaus River of increasing natural meander by removing riprap and relocating other structures that impair stream meander	AFRP-02-02						AFRP	JD Wikert USEWS		Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.
					88 H. Status on the Stanislaus River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor										Evaluate channel restoration and aggregate source potential for Two- mile Bar on the Stanislaus River	Objective: To assess the floodplain restoration potential and develop a conceptual restoration strategy for a 50-acre parcel known as Two- mile Bar, and to conduct aggregate and mineral appraisals to establish a fair market value of the land and provide the basis for acquisition in either fee or easement. A cooperative agreement between the AFRP and the Trust for Public Land (TPL) was completed in September of 2000. The TPL coordinated the site survey with the USACOE and subcontracted the aggregate and agricultural appraisals. Appraisals were not completed to federal standards and subsequently where rejected by the USFWS and USBR appraisal reviewers. TPL, CDFG, AFRP, and USBR are currently attempting to get the appraisals brought up to code so the offer to purchase the land can be made.
88	SJR	£				AFRP-00-09						AFRP	Jeff McLain USFWS			
	R	_			88 H. Status on the Stanislaus River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor										Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.
88	SJR SJ	EP			88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	AFRP-02-02	Sep-98	Apr-01	300,000	26,552	326,552	AFRP Stillwater Sciences & Merced Co. Planning and Development	JD Wikert USFWS Jennifer Vick/Bob Smith		Merced River Corridor Restoration Plan	Project will address historical and current supply and transport of coarse and fine sediment. Jeff McLain, USFWS. Planning. Final Plan completed. The final plan recommends actions to re- establish floodplain at elevations that are functional under the contemporary regulated flow regime, to establish a floodplain corridor and reconnect the river to its floodplain.

38	88	88	88	88	88	MS Number
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e.	EP	EP	8	e.	A	Project Type
						Milestone
						ERP Targets taken from ERPP Vol 2
88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	88 I. Status of the development of a cooperative program to restore salmonid spawning and rearing habitat in the Merced River.	MS Components or Questions for field personnel
AFRP-03-03	AFRP-00-35	ERP-98-F11	ERP-01-C03	ERP-00-E05	FRP-99-R04	ERP PROJECT
		Mar-99	Jul-01	Feb-00		CONTF START DATE
		Sep-02	Jun-04	Sen-02	Dec-02	END DATE
149.440		2,433,759	1,699,101 6,176,800	260.351	762.000	CALFED Award Cost Share
149 440		2,433,759	7.875.901	260 351	762.000	Total Project Cost
AFRP	AFRP	Department of Water Resources	Department of Water Resources	Stillwater		Applicant
Jeff McLain	Jeff McLain USFWS	Stephani Spaar	Stephani Spaar	Jennifer Vick	Rhonda Reed	Principal Investigator
Evaluating the Success of Spawning Habitat Enhancement on the Merced River, Robinson Reach	Evaluate use of PHABSIM/2D modeling of spawning and rearing habitat to assess benefits of channel restoration on the Merced River	Phase 3: Merced River Salmon Habitat Enhancement	Merced River Salmon Enhancement River Mile 42-44 Phase II	Merced River Corridor Restoration Project Phase III	Preliminary Design and Engineering of Lower Western Stone Restoration Site, Merced River Ratzlaff/Robinson Channel Restoration Project	ei qe qe sti D Project Name
Objective: The objective of the study is to determine the location and number of redds in the Robinson Reach and to assess the suitability of spawning habitat based on level of use. Included in this objective is to identify riffle features that increase the number of redds excavated by salmon within a newly constructed spawning riffle. A cooperative agreement was signed in September 2003, and spawning evaluations began in October 2003.	Objective: The primary objective of the project is to use a 2- dimensional hydraulic and topographic model to help evaluate benefits to salmon spawning and rearing habitat created by a large scale channel restoration project on the Merced River. Pre-project monitoring for the PHABSIM 2-D modeling effort occurred in the summer and fall of 2000 with FY00 funds, and in 2001 with FY01 funds. Post project monitoring started in the spring of 2002.	Reduce erosion and maintain gravel recruitment on the Merced River. Reconfigure the channel to improve river and floodplain dynamics and sediment transport. Fred Jurick, CDFG. Implementation. 2.0 miles of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, bought gravel rights, and did restored instream habitat	The Merced River Salmon Enhancement project will scale the channel between River miles 42 and 44 to fit the post-dam flow regime. Over the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximate's slope and bankfull flow of 1,700 cfs. The floodplains will be replanted with native riparian/vegetation. (Proposed 2 miles; 45 acres of pond area removed; 10 acres of pond area isolated). <i>Implementation project</i> <i>not completed. (Proposed restoration of 2.0 miles of instream</i> <i>and riparian habitat</i>). Fred Jurick, CDFG.	This project will develop a long-term restoration and monitoring plan. Project completed. Some modeling implementation involved. The Merced River Corridor Restoration Plan was developed in Phase III. In addition to development of that plan, Stillwater Sciences completed field and modeling efforts and developed design guidelines for channel and floodplain restoration. Jeff McLain, USFWS.	development of a cooperative program to restore salmonid spawning and rearing habitat to the Merced River. DWR shall prepare preliminary design and engineering plans for the restoration of a 3/4 mile long lower Western Stone reach restoration site. DWR will coordinate with USACOE and Merced Irrigation District. Fred Jurick, CDFG.Planning project not completed. Public scoping is still being conducted.	Comments

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		sct o			MS Components or									s ntifi		
		z i	Milestone	ERP Targets taken	Questions for field	ERP PROJECT	START		CALEED Award	Cost Share	Total Project	Applicant	Principal	Julit	Project Name	Comments
			Milestone		88 J. Status on the Merced River of reconstructing channels at selected sites by	NUMBERS	DAIL	DATE		Cost Share	0051	Аррисан	investigator		Merced River Corridor Restoration Plan	Project will address historical and current supply and transport of coarse and fine sediment. Jeff McLain, USFWS. Planning. Fina Plan completed. The final plan recommends actions to re-
	<u> </u>				gravel extraction areas.							Stillwater Sciences & Merced Co. Planning and	Jennifer Vick/Bob			contemporary regulated flow regime, to establish a floodplain corridor and reconnect the river to its floodplain.
	3 u	5 11			89. L. Status on the Margad	ERP-98-E09	Sep-98	Apr-01	300,000	26,552	326,552	Development	Smith		Margad Divar Salman Enhangement	The Margad Diver Salman Enhancement project will ease the above
					River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.							Department of			River Mile 42-44 Phase II	The Merced River Samon Emancement project will scale the cham between River miles 42 and 44 to fit the post-dam flow regime. Ov the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximate\e slo and bankfull flow of 1,700 cfs. The floodplains will be replanted wit native riparian\vegetation. (Proposed 2 miles; 45 acres of pond are removed; 10 acres of pond area isolated). Implementation project not completed. (Proposed restoration of 2.0 miles of instream and riparian habitat). Fred Jurick, CDFG.
	. 9	έ d				555 04 000			1 000 101	0.470.000	7 075 004	Water				
H	<u> </u>	ш			88 J. Status on the Merced	EKP-01-C03	Jul-01	Jun-04	1,699,101	0,176,800	1,815,901	Resources	Stepnani Spaar		Phase 3: Merced River Salmon Habitat	Reduce erosion and maintain gravel recruitment on the Merced Rive
					River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.										Enhancement	Reconfigure the channel to improve river and floodplain dynamics an sediment transport. Fred Jurick, CDFG. Implementation. 2.0 mile of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, boucht gravel rights, and did restored instream habitat
												Department of				bought graver rights, and did restored modean habitat
	0						March,	Sept,				Water				
	3 0	3 🗄			88 Status on the Merced	ERP-98-F11	1999	2002	2,433,759			Resources	Stephani Spaar	-	Evaluate use of PHARSIM/2D	Objective: The primary objective of the project is to use a 2
					River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.										modeling of spawning and rearing habitat to assess benefits of channel restoration on the Merced River	dimensional hydraulic and topographic model to help evaluate benefit to salmon spawning and rearing habitat created by a large scale channel restoration project on the Merced River. <i>Pre-project</i> <i>monitoring for the PHABSIM 2-D modeling effort occurred in th</i> <i>summer and fall of 2000 with FY00 funds, and in 2001 with FY0</i> <i>funds. Post project monitoring started in the spring of 2002.</i>
													leff McLain			
		8 8				AFRP-00-35						AFRP	USFWS			
					88 J. Status on the Merced River of reconstructing channels at selected sites by isolating or filling in in channel gravel extraction areas.										Evaluating the Success of Spawning Habitat Enhancement on the Merced River, Robinson Reach	Objective: The objective of the study is to determine the location and number of redds in the Robinson Reach and to assess the suitability spawning habitat based on level of use. Included in this objective is t identify riffle features that increase the number of redds excavated basel salmon within a newly constructed spawning riffle. This study will create a knowledge base that can be used to improve the design features of future phases of MRSHEP and that can be applied to oth restoration efforte on rivers of cinitize scale and fluvial becarder. The
																following research hypotheses will be investigated to accomplish th
						AFRP-03-03			149.440		149.440	AFRP	Jeff McLain USFWS			objective: 1. Chinook salmon redd densities will be higher in the constructed portion of the Robinson Reach than in the adjacent
					88K. Status on the Merced River of increasing natural stream meander by removing riprap and relocating other structures that impair stream meander.										Evaluate use of PHABSIM/2D modeling of spawning and rearing habitat to assess benefits of channel restoration on the Merced River	Objective: The primary objective of the project is to use a 2- dimensional hydraulic and topographic model to help evaluate benef to salmon spawning and rearing habitat created by a large scale channel restoration project on the Merced River. Pre-project monitoring for the PHABSIM 2-D modeling effort occurred in th summer and fall of 2000 with FY00 funds, and in 2001 with FY0 funds. Post project monitoring started in the spring of 2002.
						AFRP-00-35						AFRP	Jeff McLain			

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S Number	GION	oject Typ		ERP Targets taken	MS Components or Questions for field	ERP PROJECT	START	END			Total Project		Principal	uantifiable its		
SM	RE	Pr	Milestone	from ERPP Vol 2	personnel 88K. Status on the Merced River of increasing natural stream meander by removing riprap and relocating other	NUMBERS	DATE	DATE	CALFED Award	Cost Share	Cost	Applicant	Investigator	đ5	Project Name Evaluating the Success of Spawning Habitat Enhancement on the Merced River, Robinson Reach	Comme Objective: The objective of the study number of redds in the Robinson Rear spawning habitat based on level of us identify riffle features that increase the
	ĸ				structures that impair stream meander.								Jeff McLain			salmon within a newly constructed s create a knowledge base that can b features of future phases of MRSHEP restoration efforts on rivers of similar following research hypotheses will be objective: 1. Chinook salmon redd of
88	S	₽			99 L. Status on the Morood	AFRP-03-03			149,440		149,440	AFRP	USFWS		Margad Biyar Salman Enhangement	constructed portion of the Robinson
					River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor							Department of			River Mile 42-44 Phase II	he werced River Samon Enhanceme between River miles 42 and 44 to fit ti the entire reach, the channel will be riffles, runs and pools, with a meander and bankfull flow of 1,700 cfs. The fit native riparian/vegetation.(Proposed removed; 10 acres of pond area isola not completed. (Proposed restorat and riparian habitat). Fit
œ	R	<u>e</u> .				EPP 01 003	Jul 01	lup 04	1 600 101	6 176 800	7 875 001	Water	Stenhani Spaar			
80	Ś	ш			88 L. Status on the Merced River of restoring more	ERP-01-C03	Jul-01	Jun-04	1,699,101	6,176,800	7,875,901	Resources	Stephani Spaar		Merced River Corridor Restoration Plan	Project will address historical and cu coarse and fine sediment. Jeff McLa
					to reduce salmonid predator habitat and improve migration corridor							Stillwater Sciences & Merced Co.				establish floodplain at elevations th contemporary regulated flow regim corridor and reconnect the r
œ	R	<u>e</u> .					Son 08	Apr 01	300.000	26 552	326 552	Planning and	Jennifer Vick/Bob			
8					88 L. Status on the Merced River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor			- Api-01	300,000	20,002	020,002	Development	Cinar		Phase 3: Merced River Salmon Habitat Enhancement	Reduce erosion and maintain gravel re Reconfigure the channel to improve rive sediment transport. Fred Jurick, CDF of instream and riparian habitat. Th ERP-01-C03. Project not complet project contribution: 360 acres of C riparian and floodplain habitat. C bought gravel rights, and did re
	œ											Department of Water				
88	Ŝ	<u>ш</u>			88 L. Status on the Merced River of restoring more natural channel configurations	ERP-98-F11	Mar-99	Sep-02	2,433,759		2,433,759	Resources	Stephani Spaar		Evaluate use of PHABSIM/2D modeling of spawning and rearing habitat to assess benefits of channel	Objective: The primary objective of dimensional hydraulic and topographic to salmon spawning and rearing hab
					to reduce salmonid predator habitat and improve migration corridor										restoration on the Merced River	channel restoration project on the l monitoring for the PHABSIM 2-D me summer and fall of 2000 with FY00 funds. Post project monitoring st
88	SJR	Ð				AFRP-00-35						AFRP	Jeff McLain USFWS			
~~~					88 L. Status on the Merced River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor										Evaluating the Success of Spawning Habitat Enhancement on the Merced River, Robinson Reach	Objective: The objective of the study is number of redds in the Robinson React spawning habitat based on level of use identify riffle features that increase the salmon within a newly constructed s create a knowledge base that can be features of future phases of MRSHEP a
88	SJR	8				AFRP-2003-03			149,440		149,440	AFRP	Jeff McLain USFWS			restoration efforts on rivers of similar s following research hypotheses will be objective: 1. Chinook salmon redd d constructed portion of the Robinson upstream and downstream natural sna

Number	GION iect Type		MS Components or ERP Targets taken Questions for field	FRP PROJECT	CONTI	FND	_		Total Project		Principal	antifiable ts		
MS	Pro	Milestone	from ERPP Vol 2 personnel	NUMBERS	DATE	DATE	CALFED Award	Cost Share	Cost	Applicant	Investigator	uni Uni	Project Name	Comments
			88 L. Status on the Merced River of restoring more natural channel configurations to reduce salmonid predator habitat and improve migration corridor										Partial funding for Phase I Construction of the Robinson/Gallo Salmon Restoration Project: Ratzlaff Reach Site	Restore natural channel configurations on the Merced River to reduct salmonid predator habitat and improve the migration corridor. Fred Jurick, CDFG. Implementation project completed. Restored .5 miles of instream habitat, and created 10 acres of riparian habitat.
88	SJR EP			ERP-99-B05	Sep-99	Mar-00	1,584,002		1,584,002	DFG	Fred Jurick			

					MUL	TI SPECIES	S CONS	SERVA	TION S	TRATEG	SY MILE	STONE 8	9 ROLLE	ED UP	SUMMARY		
M m zcor Vr M	LES aintain ne ar the S ernalis erced	CONE a d dinc Gan J a and Rive	<b>89</b> Restore and efined stream-meander rease floodplain habitat oaquin River between the mouth of the r.			PROJECTS REVIEWED - ERP-97-805, ERP-98-F21, ERP-01-N08, AFRP-01-12		SUMMA restoring fi fall within t planning a three othe nearly 340 breaching	<b>ARY</b> These oodplains by I he geographic nd outreach p or contracts targ 0 acres along levees and inc	e ERP and AF breaching Sar c scope of this rogram for the geted the feas the San Joaq creasing flood	FRP contract n Joaquin Rin s milestone. e Lower Tuol sibility analys uin River un River plain habitat	s may address t rer levees to the One contract pr umne River and is, planning and San Luis NWR	his milestone of degree that they ovided for a Its Lands, and acquisition of with the intent of			AGENCY NOTES	NOTES CONT'D
	n		MULTI SPECII	ES CONSER	VATION STRATE	GY MILEST	ONE 8	89 E∖	ALUATI	ON OF I		UAL PRO	JECTS RE	VIEW	/ED TO FORMULATE T	HE ROLLED UP SUMN	IARY
MC Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	onts
			Restore and maintain a defined stream-meander zone and increase floodplain habitat on the San Joaquin River between Vernalis and the mouth of the Merced River.		89. A. Status of the restoration and maintenance of a defined stream-meander zone and increased floodplain habitat or the San Joaquin River between Vernalis and the mouth of the Merced River.	1									Feasibility Analysis for the San Joaquin-Bear Creek Floodplain Restoration Project, San Luis National Wildlife Refuge.	This project is conducting a feasibility to a demonstration project that we modification of a 10-mile section o River to restore more natural flooding <i>This</i> was a planning project de allowing passive breaches along <i>Bear Creek Unit of the Refug</i>	analysis that will eventually lead uld require deauthorization of levees along the San Joaquin hydrology. Project completed. aling with the feasibility of a section of the SJR near the le. Kim Forrest, USFWS.
	SJR	8				ERP-97-B05	Mar-98	Sep-00	334.000	0	334.000	San Luis National Wildlife Refuge Complex	Kim Forrest, Refuge Manager				
	JR .	¢.			89. A. Status of the restoration and maintenance of a defined stream-meander zone and increased floodplain habitat or the San Joaquin River between Vernalis and the mouth of the Merced River.	AFRP-01-12		Aun-03				AFRP	Cesar Blanco		Tuolumne River watershed outreach and stewardship proposal	Objective: To create and utilize o build awareness, understanding a River Technical Advisory Commit Plan for the Lower Tuolumne Riv agreement between the AFRP a October of 2001. TRPT released t River Watershed Map and the Lo and Its Lands; a brochure depic Tuolumne River corridor. The T extension extending the end date outreach to landowners who mig opportunities. TRPT submitted a documenting their outreach effor Tuolumne River Watershed Map a Corridor and Its Lands can be f	utreach materials as tools to ind support for the Tuolumne tee Plan, "Habitat Restoration ar Corridor". The cooperative and TRPT was completed in wo documents: the Tuolumne wer Tuolumne River Corridor ting land use patterns in the RPT received a no-cost time to April 2003 to complete their ht be interested in easement t final report in August 2003 ts. This report, along with the nd the Lower Tuolumne River ound on the AFRP website.

39	68	MS Number
SJR	sJR	REGION
£	Đ	Project Type
		Milestone
		ERP Targets taken from ERPP Vol 2
89. A. Status of the restoration and maintenance of a defined stream-meander zone and increased floodplain habitat on the San Joaquin River between Vernalis and the mouth of the Merced River.	89. A. Status of the restoration and maintenance of a defined stream-meander zone and increased floodplain habitat on the San Joaquin River between Vernalis and the mouth of the Merced River.	MS Components or Questions for field personnel
ERP-01-N08	ERP-98-F21	ERP PROJECT NUMBERS
Apr-02	Jan-99	CONT START DATE
Αρr-05	Sep-00	RACT END DATE
7.646.233	1,100,000	CALFED Award
1.885.000		Cost Share
9.531.233	1,100,000	Total Project Cost
USFWS San Luis Natl Wildlife Refuge Complex	USFWS	Applicant
Kim Forrest	Gary Zahm	Principal Investigator
		Quantifiable Units
San Joaquin River NWR Riparian Habitat Protection and Floodplain Restoration Project-Phase II	Lower San Joaquin River Floodplain Habitat Protection and Restoration Project	Project Name
Task E: Breaching Flood Control Levees. Levees will be breached to open up historical floodplains along the San Joaquin River. Acquisition and Implementation Project 80% complete. 3,166 acres acquired . Kim Forrest, USFWS.	Acquisition of 223.54 acres. Still negotiating for more property. Project Completed. This was an acquisition project for 223.54 acres of land for eventual restoration of floodplain habitat. Kim Forrest, USFWS.	Comments

MILESTONE 90 Establish a river meander corridor between the Chowchilla Bypass and Mendota Pool to expand the floodway corridor to convey increased anticipated flood flows and restore floodplain habitat.       AGENCY NOTES NOT       NOT         MULTI SPECIES CONSERVATION STRATEGY MILESTONE 90 EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY       NOT	
MULTI SPECIES CONSERVATION STRATEGY MILESTONE 90 EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY	TES CONT'D
	١Y
Image: Signed signed state       Signed signed state       Image: Signe:	ver flows between June l and germination of seec of young seedlings for pleted. Valerie Curley, antifies that the data ca. location downstream c location downstream sypass. Although entify the feasibility tha ting a meander belt, thi. e; Rhonda Reed, CBDA

					MULTI	SPECIES (	CONSE	RVATI	ON ST	RATEG	Y MILE	STONE 9	1 ROLLE	D UP	SUMMARY		
MILE Joac Basi at lea for w prac	STO uin R EM ast 15 ildlife ices	NE Liver Zs, 5 to 1 frie	<b>91</b> In the San r and West San Joaquin cooperatively enhance 25% of the ERP target endly agricultural			PROJECTS REVIEWED - ERP 02D-P59		SUMM/ rabbits a L south ban sources (f acres to w acres of a monitoring practices,	ARY On ower Stanisla FWS, DFG, 1 retland and u gricultural la g and more o but this mile	e ERP contra laus River R us River. Th WCB) have p upland habita nds which be letailed acco stone appea	act proposes iparian Pres is ERP cont rovided for ts and agric nonfit wildlift unting of van rs to be well	to establish for erve of 500-1,00 ract and a variet restoration of mo- ultural easemen . May need to c rious habitat type on its way to co	riparian brush 0 acres on the y of other fund re than 4600 is on over 10,950 ontinue es and agricultural mpletion.			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	ES CONSERV	ATION STRATEG	Y MILESTO	NE 91	EVA	LUATIO	ON OF I	NDIVIC	UAL PRC	JECTS RE	VIEW	ED TO FORMULATE TH	HE ROLLED UP SUMM	ARY
MS Number	REGION	Project Type	Milestone In the San Joaquin River and West San Joaquin Basin EMZs, cooperatively enhance at least 15 to 25% of the ERP target for wildlife friendly agricultural practices	ERP Targets taken from ERPP Vol 2 Cooperatively enhance 15,290 acres of private agricultural land to support nesting and wintering waterfowl consistent with the objectives of the Central Valley Habitat Joint venture and the North American Waterfowl	MS Components or Questions for field personnel 91 A. Status of wildlife friendly agricultural practices program in the San Joaquin River Basin EMZ.	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant San Luis National Wildlife Refuge	Principal Investigator Kim Forrest,	Quantifiable Units	Project Name Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River	Commen Project not begun yet. Proposing to rabbits a Lower Stanislaus River R acres on the south bank of Stan County, within an area defined by Joaquin River up to river mile 9. expansion of the habitat at Caswe Joaquin County, while monitoring response; and monitor the recently San Joaquin River National Wildlift River in Stanislaus County to gain a reintroduction process. K	nts o establish for riparian brush iparian Preserve of 500-1,000 islaus River in Stanislaus the confluence with the San 5. Additionally, proposing II Memorial State Park, San y the riparian brush rabbits y reintroduced rabbits at the Refuge on the San Joaquin a better understanding of the im Forrest, USFWS.

				MULT	I SPECIES	CONS	ERVA	FION ST	RATEG	GY MILI	ESTONE 9	)2 ROLLI	ED UF	SUMMARY		
MI Jo cre we	LEST aquin ate 1 tland	<b>ONE 92</b> In the West San Basin EMZ, restoring or 00 acres of fresh emergent habitat.			PROJECTS REVIEWED - ERP-01-N08		SUMMA Floodplain of wetland acre acqui habitat be	ARY The Restoration s and anothe isition. The e ing restored	San Joaquin Project-Phas r 200 acres o <b>xpectation</b> <b>i or created</b>	River NWR e II has pro f wetlands I of 100 acre has been e	Riparian Habitat vided for restorat have been enhan s of fresh emerg xceeded five fol	Protection and ion of 300 acres ced on a 3,166 ent wetland d.			AGENCY NOTES	NOTES CONT'D
		MULTI SPECIE	ES CONSER	VATION STRATEG	GY MILEST	ONE 92	2 EV/	ALUATI	ON OF	INDIVII	OUAL PRO	DJECTS RI	EVIEV	/ED TO FORMULATE T	HE ROLLED UP SUMM	ARY
MS Number	REGION	Milestone In the West San Joaquin Basin FMZ restoring or create 100	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel 92 A. Status of restoring or creating 100 acres of fresh	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name San Joaquin River NWR Riparian Habitat Protection and Floodolain	Commer Task D. Wetlands and Riparian Resto floodolains, restore historic wetland	ts ration. Project will revegetate
2	Я	acres of fresh emergent wetland habitat.		emergent wetland habitat in the West San Joaquin Basin EMZ		Apr 02	Apr 05	7 646 222	1 885 000	0 531 222	USFWS San Luis Nati Wildlife Refuge	Kim Eorroet	500 acres of restored wetlands , 200 acres of enhance d wotlands	Restoration Project-Phase II	Acquisition and Implementation P acres acquired. Of that acquisition, been restored, and 200 acres of we Additionally, DWR funded restoratio same acquisition site (part of 3,166	rolect 80% complete. 3,166 300 acres of wetlands have llands have been enhanced. n of 200 acres of wetlands on acres). Kim Forrest, USFWS.

				MULTI	SPECIES	CONSE	RVATI	ON ST	RATEG	BY MILI	ESTONE	93 ROLLI	ED U	P SUMMARY		
MILE Joaqu enhar grass or pro wetlar	STOI in Ba ce 1 and a pose ads, c	<b>IE 93</b> In the West San sin EMZ, restore or 000 acres of perennial associated with existing d wildlife corridors, or floodplain habitats.			PROJECTS REVIEWED -	ସ 1 ପ ପ a	SUMMAR ,000 acres of orridors, we lowever, mo ould be used ontracts hav cres of upla	RY No f of perennia titands, or i ore than 40 d as a corr ve not add and has been	ERP contract al grassland a floodplain ha 00 acres have nerstone for r ressed this n en restored b	s were deve associated v bitats in the been deve further restc nilestone. H ny/or with gr	eloped to restore with existing or p West San Joaqu loped by the Sai ration or enhanc owever, approxir ants from NAWC	or enhance roposed wildlife Jin Basin EMZ. I Luis NWR and exement. CALFED nately 3,985 ;A.			AGENCY NOTES	NOTES CONT'D
		MULTI SPECIE	S CONSER	ATION STRATEG	Y MILEST	ONE 93 -	EVAL	LUATI	ON OF	INDIVII	DUAL PRO	OJECTS RI	EVIE\	WED TO FORMULATE 1	THE ROLLED UP SUM	<i>I</i> ARY
MS Number	REGION	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTR/ START DATE	ACT END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
93		In the West San Joaquin Basin EMZ, restore or enhance 1,000 acres of perennial grassland associated with existing or proposed wildlife corridors, wetlands, or floodplain habitats.		93 A. Status of the restoration or enhancement of 1,000 acres of perennial grassland associated with existing or proposed wildlife corridors, wetlands, or floodplain habitats in the West San Joaquin Basin EMZ,												

					MULT		S CON	SERVA	ATION ST	RATEG	Y MILES	TONE 94	Rolled	) UP	SUMMARY		
MILE imple resto to im salm habit least San EMZ	emen re, al prove onid : at an one Joaqu s.	DNE 9 It a p nd m e floc shad ins shad ins tribu uin a	94 Develop and rogram to establish, laintain riparian habitat odplain habitat, led riverine aquatic stream cover along at tary within the East ind San Joaquin River			<b>PROJECTS RE</b> ERP-97-804, EF ERP-98-005, EF ERP-98-005, EF ERP-98-805, EF ERP-99-805, EF ERP-00-205, EF ERP-00-104, EF ERP-01-N03, EF ERP-01-N03, EF ERP-01-N03, EF D, ERP-02-P19- 06, AFRP-00-49 02, AFRP-00-45 02, AFRP-00-45 11, ERP-99-R01	VIEWED - RP-97-M08, RP-98-C04, RP-98-C18, RP-98-F07, IP-98-F21, RP-99-E29, IP-99-F02, RP-00-F01, IP-01-C03, RP-01-N08, RP-02-P12, D, AFRP-00- AFRP-00- AFRP-00- AFRP-02-	SUMMA In the Star restoring 1 completed contracts t approxima acquired fo Tuolumne restoring a acres were restored; a process. T improve th	<b>ARY</b> Severa islaus EMU, re .6 miles of cont (restoring secti tely 137 acres v or restore appro tely 137 acres v or restoration; 1 River are in pro norther 6.1 mile e protected and ind 2 miles of in he Adaptive Ma e restoration de	I ERP and AF storation of up inuous river fr ons damaged ximately 1.3 r were restored ,142 acres an gress of bein, s on the Tuolu portions were stream and ri inagement Fo ssigns of most	FRP contracts I b to 2,319 acre rontage. Some l by gravel extr niles of instreat to riparian hab d portions with g restored. The mme in progre e restored; 2.5 parian restorat orum provided s t recent contract	have addressed s is in progress e instream work action), and the m habitat. In thi int a 1.1 mile str ere is additional so. In the Merci miles of instreal ion is in the des significant revie cts.	I this milestone. with a goal of also was re are additional e Tuolumne EMU tional acres were retch of the planning for de EMU, 370 m habitat were sign and planning w and advice to			AGENCY NOTES	NOTES CONT'D
			MULTISPECI				IONE	94 EV			NDIVIDU						RY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CON1 START DATE	END DATE	CALFED	Cost Share	Total Project e Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commer	ts
					94 A. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Stanislaus River							Stillwater			A Mechanistic Approach to Riparian Restoration in the San Joaquin Basin Phase I and II	This project will identify the physica affecting the establishment of riparian Basin, in order to identify the most cos for riparian protection and restoration. Conceptual Model of Riparian Plant Data, and Select Study Sites. Phase II Restoration Model Based on San <i>Research project completed</i> .	and biological mechanisms vegetation in the San Joaquin st-effective strategies and sites Phase I: Develop a Mechanistic Establishment, Analyze Pilot : Develop a Physical/Biological Joaquin Basin Study Sites. Jeff McLain, USFWS.
8	SJR	т			94 A. Status of program to	ERP-00-F04	Feb-00	Dec-03	223,666		223,666	Sciences	John Stella		HAZMAT Review for ERP Land	DWR will oversee or evaluate the wo	rk of outside consultants and
94	SJR	Ŧ			establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Stanislaus River	ERP-96-C18	Dec-98	Nov-01	24.000	0	24.000	CDWR	Derrick Adachi		Acquisitions	contractors to ensure the all applicabl standard operating procedures for er and remedial actions are complied w conduct environmental site assessmen They have and continue under an provide HAZMAT review for ERP r Adachi, D	e regulatory requirements and vironmental site assessments ith. DWR will also provide or it activities. <i>Project complete.</i> <i>interagency agreement to</i> <i>estoration projects. Derrick</i> <i>WR</i> .
					94 A. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Stanislaus River								ID Milliont		Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus bas implementation of prioritized restorat River below Goodwin Dam. The pro- finishing a summary of the existing will be provided to the Stanislaus and comment in January 2004. Restoration Plan and co	ed plan to direct the long term on/research in the Stanislaus fect is currently focused on fisheries data. The summary River Fish Group for review Work continues on the inceptual model.
94	SJR	т			94 A. Status of program to	AFRP-02-02						AFRP	USFWS		Develop a river corridor physical	Objective: To evaluate current channel	I, floodplain, and river corridor
	2				establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Stanislaus River								JD Wikert		habitat assessment and restoration plan for the Stanislaus River	processes and habitat condition of the the context of historical and current restoration strategy document for flo habitats of the Stanislaus River corric the Fish Group to develop a reque input from technic	entire lower Stanislaus River in agents of change; develop a odplain, riparian and channel or. The next step will be for st for proposals and solicit al interests.
94	SJ	Ξ				AFRP-00-43	1					AFRP	USFWS				

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s	ß	ġ.		ERP Targets taken	Questions for field	PROJECT	START	END	CALFED		Project		Principal	uar		
Σ	R	ā	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	σ́э	Project Name	Comments
					94 A. Status of program to										Develop an adaptive management	Objective: To establish a multi-disciplinary technical forum where large-
					establish, restore, and										forum for large-scale restoration	scale channel restoration project planning, implementation, and
					maintain riparian nabitat to										projects	monitoring will receive input and review to provide a more structured
					Improve floodplain habitat,											process of peer review and adaptive management. Inis contract
					samoniu snaueu nvenne											\$25,000,00 was added. The forum was held in March 2002 and a
					cover along the Stanislaus											final report is pending. The Tuolumne Merced and Clear Creek
					River											reports have been submitted and are available on the AFRP
	~												Cesar Blanco			website.
4	S.	т				AFRP-00-45						AFRP	USFWS			
•					94 A. Status of program to										Educating Farmers and Landowners in	Project will develop plans to help landowners/growers make beneficial
					establish, restore, and										Biological Resource Management	management decisions in relation to water quality improvement and
					maintain riparian habitat to											habitat restoration and enhancement. This includes developing two
					improve floodplain habitat,											demonstration sites, riparian and working farmland, and an
					salmonid shaded riverine											educational outreach program. Some implementation, but primarily
					aquatic habitat, and instream											educational; project completed, Marcia Gibbs, Community
					cover along the Stanislaus											Alliance with Family Farmers (CAFF); Project provided training
					River											for Merced River landowners in BMPs regarding fine sediment
												Community				control, erosion control, biotecrinical revelment and riparian
												Alliance for				buller surp concepts, Rhonda Reed (CBDA).
4	R	_					Aug 01	1.1.04	1 000 500	0	1 000 502	Family	James Tischer			
6	<i>s</i>	-			94 A. Status of program to	ERF-01-IN42	Aug-01	Jui-04	1,000,595	0	1,000,595	Faimers	James rischer		Evaluate channel restoration and	Objective: To assess the floodplain restoration potential and develop a
					establish, restore, and										aggregate source potential for Two-	conceptual restoration strategy for a 50-acre parcel known as Two-
					maintain riparian habitat to										mile Bar on the Stanislaus River	mile Bar, and to conduct aggregate and mineral appraisals to establish
					improve floodplain habitat,											a fair market value of the land and provide the basis for acquisition in
					salmonid shaded riverine											either fee or easement. A cooperative agreement between the
					aquatic habitat, and instream											AFRP and the Trust for Public Land (TPL) was completed in
					cover along the Stanislaus											September of 2000. The TPL coordinated the site survey with the
					River											USACOE and subcontracted the aggregate and agricultural
4	¥												Jeff McLain			appraisals. Appraisals were not completed to federal standards
ð	s	I			04 A Status of program to	AFRP-00-09						AFRP	USEWS		Tuolumno Divor Postoration: Special	Broject will fill in deen lake like peel areas prosted by past instream
					establish restore and										Run Pool 10	gravel mining thus reducing salmon fish predator babitat
					maintain riparian habitat to											McLain, USFWS, Project completed.
					improve floodplain habitat,											······································
					salmonid shaded riverine											
					aquatic habitat, and instream							Turlock				
4	J.R				cover along the Stanislaus		Nov 01	Nov 04	542 520	0	E42 E20	District	Wilton Envor			
6	<i>s</i>	-			94 A. Status of program to	ERF-01-N03	1000-01	1100-04	545,550	0	545,550	District	Willon Fryer		Recovery Implementation for Riparian	Project not begun vet. Proposing to establish for riparian brush
					establish, restore, and										Brush Rabbit and Riparian Woodrat on	rabbits a Lower Stanislaus River Riparian Preserve of 500-1.000
					maintain riparian habitat to										the lower Stanislaus River	acres on the south bank of Stanislaus River in Stanislaus
					improve floodplain habitat,											County, within an area defined by the confluence with the San
					salmonid shaded riverine											Joaquin River up to river mile 9.5. Additionally, proposing
					aquatic habitat, and instream											expansion of the habitat at Caswell Memorial State Park, San
					cover along the Stanislaus											Joaquin County, while monitoring the riparian brush rabbits
					River											response; and monitor the recently reintroduced rabbits at the
																San Joaquin River National Wildlife Refuge on the San Joaquin
																River in Stanislaus County to gain a better understanding of the
												On a Luin				reintroduction process. Kim Forrest, USFWS.
												San Luis				
	~											Wildlife Defuge	Kim Forrest			
94	SJF	I I				ERP-02D-P59			6,427,131.00		6,427.131	Complex	Refuge Manager			
~*		+-+			94 B. Status of program to		İ		, ,		., ,				San Joaquin River National Wildlife	This contract represents Phase I of an overall project to acquire lands
					establish, restore, and								1		Refuge Riparian Habitat Protection	along the San Joaquin River for the benefit of fish and wildlife. Four
					maintain riparian habitat to										and Floodplain Restoration Project	separate parcels will be purchased totaling 6169 acres; this acreage
					improve floodplain habitat,											will become part of the SJR NWR. This phase will also include pre-
					salmonid shaded riverine											restoration planning. A Baseline Biological Inventory was completed
					aquatic habitat, and instream											as part of this project prior to future phase restoration. Phase II of this
					Cover along the Tuolumne								1			project will entail earth-moving and restoration. Inis project was
												San Luis	1			Forrest, USEWS
												National				
4	J.						Aug 00	Mor 00	10.047.000	10 000 000	20.047.000	vviidlite Refuge	Kim Forrest,			
6	ŝ	1 <b>F</b> 1				LCCC-9/-004	AUU-90	IVIAI-UZ	10.947.000	10.000.000	20.347.000	COMPREX	interruge Manader	1		

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qmnN	NOI	ect Ty			MS Components or	ERP		5115			Total		<b>.</b>	ntifiak s		
NS I	RG	Proj	Milestone	from FRPP Vol 2	Questions for field	NUMBERS	DATE		CALFED Award	Cost Share	Project	Applicant	Principal	Qua Unit	Project Name	Comments
W	æ	<u> </u>	Milestone	from ERPP Vol 2	personnel 94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	0 >	Project Name Partner with Modesto City and County Parks Departments for Restoration Planning and Implementation on the Gateway Parcel	Comments Objective: Incorporate habitat needs of salmonids in developing the updated Tuolumne River Regional Park Land Use and Master plans. Acquisition of the Gateway parcel located in the center of the regional park has necessitated the development of new land use and master plans for the park. The original plans were developed in the 1960s. The principal tasks involved in this planning effort include: (1) development of a preliminary program that broadly defines potential uses and activities within the Park corridor and a set of baseline environmental objectives; (2) soliciting public and agency comment; (3) conducting reconnaissance-level field studies; (4) prepare environmental documentation (ER/EA); and (5) prepare Land Use Plan and Gateway Master Plan. This planning effort will affect a seven mile reach of the Tuolumne River that is used primarily as a migration corridor by fall-run Chinook salmon.
94	SJR	т				AFRP-02-11						AFRP	Jeff McLain USFWS			
94	SJR				94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne Biver	ERP-99-R01	Jul-99	Mar-01	1.500.000	\$132,892 returned because not all acreage was purchased	1.367.108	Natural Resource Conservation Service	Helen Flack		Floodplain Easements - Lower Tuolumne and San Joaquin Rivers	Establish, restore and maintain riparian floodplain habitat. (Proposed 992.8 acres) by acquiring and restoring area prone to flood damage. <i>Project completed. Jeff McLain, USFWS.</i>
94	SJR	T			94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River	ERP-00-F01	Oct-00	Aug-04	1.984.320		1.984.320	Friends of the Tuolumne River	Dave Boucher		Tuolumne River Bobcat Flat Floodplain Acquisition	Program to establish, and maintain riparian habitat, improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River. Acquisition of property is first step to restore self-sustaining natural floodplain processes, preserve stream meander belt, provide shaded riverine riparian habitat (Proposed 1.6 miles continuous miles of river frontage). Project complete. Property was acquired. Some limited re-vegetation occurred. Money left over from this contract is currently being used for the development of a conceptual restoration plan. Jeff McLain, USFWS.
5		-			94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River			, wg vr	1,00-7,020		.,				Tuolumne River Special Run Pool 9 Restoration	Restoration of instream aquatic and shaded riverine aquatic habitats and reduction of predatory fish habitat by restoring a 400 to 500 foot wide riparian floodplain with a riffle and run pattern that follows the natural meander channel and native vegetation plantings on fill terraces. Restore and increase salmonid habitat; reconstruct natural river channel geometry, restore native riparian plant communities. Implementation Project complete. Jeff McLain, USFWS2 miles of riparian and riverine aquatic habitat. A final joint EA/IS for the restoration projects Special Run Pool (SRP) 9 and 10 (ERP 99 F01) and four project segments of the Gravel Mining Reach was completed in October 1999 with funding from this agreement. Pre- project monitoring that included habitat mapping, fish community evaluation, salmon smolt survival experiments, and geomorphic variables occurred during spring-fall of 1998. Instream work, floodplain construction, and revegetation was completed in 2001. Restored floodplain is currently being maintained to enhance survival
94	SJR	т				ERP-97-M08	Feb-98		2,353,100		2,353,100	Turlock Irrigation District	Tim Ford	.2 miles SRA and instream habitats		

	94		94		94	94		MS Number
	SJR		SJR		SJR	SJR		REGION
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								ERP Targets taken from ERPP Vol 2
establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne	94 B. Status of program to	94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River	aquatic habitat, and instream cover along the Tuolumne River	94 B. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine	establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River	salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River	94 B. Status of program to establish, restore, and maintain riparian habitat to	MS Components or Questions for field personnel
	AFRP-01-02		ERP-99-B29		ERP-98-F21	ERP-97-M09		ERP PROJECT NUMBERS
			Sep-99		Jan-99	Jul-00		CON1 START DATE
			Jun-00		Sep-00	Dec-01		END DATE
	3,501,000		2.500.000		1,100,000	2,801,000		CALFED
	3,376,000					4,384,060		Cost Share
	6,877,000		2.500.000		1,100,000	7,185,060		Total Project Cost
	Turlock Irrigation District		Friant Water Users Authority		USFWS	Turlock Irrigation District		Applicant
	Wilton Fryer		Douglas DeFlitch		Gary Zahm	Wilton Fryer		Principal Investigator
						.6 miles riparian and riverine aquatic habitat		Quantifiable Units
Easement and Restoration	Grayson River Ranch Perpetual	Tuolumne River Mining Reach Restoration No. 3, Warner-Deardorff Segment		Pilot Project to Benefit Riparian Vegetation along the San Joaquin River	Habitat Protection and Restoration Project	Lower San Joaquin River Floodplain	Tuolumne River Setback Levees and Channel Restoration	Project Name
This project created floodplain habitats (grading and revegetation) allowing for fine sediment deposition to help perpetuate and maintain riparian habitats in addition to providing floodplain habitats to increase quality and quantity of salmonids spawning and migratory habitats. Jeff McLain, USFWS.	Restoration of 137 acres of floodplain habitat. Project complete.	This project is 1 of 4 phases of the overall Mining Reach Project to restore floodplain and riparian habitat to 6.1 miles of the Tuolumne River. This project ties into the permanent floodplain channel reconstruction at the downstream end of a set back dike constructed during a previous project phase. Deep pit areas created by past gravel mining will be filled in to re-create a riffle and run pattern that follows the restored meander channel of the river. Jeff McLain, USFWS. Planning and pre-project monitoring; project is in planning phase. Necessary cooperative agreements have been obtained; some engineering work has been done to facilitate hydraulic and fluvial models, environmental permits, monitoring, and right-of- way footprints. Design and monitoring work is continuing. This restoration will eventually cover 1.3 miles: river mile 35.2 to 36.5. References to 6.1 miles includes the entire river reach covered by four phased projects.		This project will augment San Joaquin River flows between June through October, 1999 to promote dispersal and germination of seed from native riparian trees and the survival of young seedlings for riparian habitat. <b>Research project completed. Valerie Curley</b> , USBR	project will acquire and restore riparian and floodplain habitats. (Proposed 303 acres, riparian and floodplain) T his was an acquisition project for 223.54 acres of land for eventual restoration of floodplain habitat. Kim Forrest, USFWS.	Acquisition of 223.54 acres. Still negotiating for more property. This	This project will revegetate 45 acres of which 25 acres will be created for new riparian floodplains. Jeff McLain, USFWS. Implementation. 6 river miles of riparian and riverine aquatic	Comments

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umber	z	t Typ			MS Components or	FRP					Total			ifiable		
IS NL	EGIO	rojec	<b>N1</b> 11	ERP Targets taken	Questions for field	PROJECT	START	END	CALFED		Project	<b>A</b>	Principal	luant	Durale of Manua	<b>0</b>
2	~	•	Milestone	from ERPP Vol 2	94 B. Status of program to	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	05	San Joaquin River NWR Riparian	Task D. Wetlands and Riparian Restoration. Project will revegetate
					establish, restore, and										Habitat Protection and Floodplain	floodplains, restore historic wetland basins and slough channels. (Proposed 1 142 acres Rinarian and riverine aquatic habitat)
					improve floodplain habitat,											Acquisition and Implementation Project 80% complete. 3,166
					salmonid shaded riverine aquatic habitat, and instream							USEWS San		1077		acres acquired . 777 acres of riparian habitat restored, with additional 300 acres of riparian habitat restored by DWR on this
					cover along the Tuolumne							Luis Natl		acres of		same acquisition site (part of the 3,166 acres). Kim Forrest,
94	SJR	т			River	ERP-01-N08	Apr-02	Apr-05	7,646,233	1,885,000	9,531,233	Wildlife Refuge Complex	Kim Forrest	riparian Habitat		USFWS.
					94 B. Status of program to										Tuolumne River Special Run Pool (SRP) 10 Restoration	Restoration of instream aquatic habitat and shaded riverine aquatic
					maintain riparian habitat to											salmon. The full SRP 10 project will rebuild a portion of the Tuolumne
					improve floodplain habitat, salmonid shaded riverine											River channel, at river mile 25.4. The project will remove mining pit ponds. <i>This project is complete. This is part of the larger full</i>
					aquatic habitat, and instream											SRP 10 Restoration Project to restore RM 25.4 on the Tuolumne
					River											monitoring. This project contributes to eventual full restoration
																which will reduce salmonid fish predator habitat, restore and increase babitat for salmon production, reconstruct natural
												Turlock				channel geometry, and restore native riparian plant communities.
94	SJR	т				ERP-99-F01	Sep-99	Mar-02	164,800		164,800	District	Wilton Fryer			Jeff McLain, USFWS.
					94 B. Status of program to										Tuolumne River Mining Reach	The MJ Ruddy Segment is Project No. 2 located between river mile
					maintain riparian habitat to										Segment	increase habitat for natural salmon production. 2) Reconstruct natural
					improve floodplain habitat, salmonid shaded riverine											channel geometry scaled to current channel forming flows. 3) Restore native riparian plant communities. 4) Reduce salmonid fish predator
					aquatic habitat, and instream											habitat. Jeff McLain, USFWS. Implementation. Project not
					River											completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2
																to 40.3) on the Tuolumne River. This project will eventually restore M I Buddy Beach (1.1 miles @ BM 36.5-37.6). No actual
																restoration has been accomplished to date; land has not been
	~											Turlock				purchased.
94	SJF	т				ERP-99-F02	Sep-99	Mar-02	3,332,050	3,145,000	17,140,233	District	Wilton Fryer			
					94 B. Status of program to establish, restore, and										Restoration Project: Warner-Deardorff	Program to establish, restore and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat and
					maintain riparian habitat to										Segment No. 3 Construction	instream cover along the Tuolumne River. Improve salmonid
					salmonid shaded riverine											morphology, restoring spawning habitat within a channel that is
					aquatic habitat, and instream		Mar 02					Turleak				allowed to meander within a riparian floodway and filling in-channel mining pits (proposed 1.3 miles) <i>Implementation project not</i>
	۲				River		Notificatio					Irrigation				complete. Jeff McLain, USFWS.
94	S	т			94 B. Status of program to	ERP-02-P19-D	n Letter		10,839,000		10,839,000	District	Wilton Fryer		Continue to restore the 7/11 segment	Objective: To restore and increase riparian and instream babitat
					establish, restore, and										of the mining reach on the Tuolumne	to support natural production of the San Joaquin fall-run
					maintain riparian habitat to improve floodplain habitat,										River	Chinook salmon; Reconstruct a natural channel geometry scaled to current channel forming flows; Restore native riparian plant
					salmonid shaded riverine											communities within their predicted hydrological regime; and
	¥				cover along the Tuolumne								Jeff McLain			Reduce the occurrence of samonia fish predator habitat.
94	တ်	Ξ			River 94 B. Status of program to	AFRP-00-06						AFRP	USFWS		A Mechanistic Approach to Riparian	This project will identify the physical and biological mechanisms
					establish, restore, and										Restoration in the San Joaquin Basin	affecting the establishment of riparian vegetation in the San Joaquin
					improve floodplain habitat,										Phase I and II	for riparian protection and restoration. Phase I: Develop a Mechanistic
					salmonid shaded riverine											Conceptual Model of Riparian Plant Establishment, Analyze Pilot
					cover along the Tuolumne											Restoration Model Based on San Joaquin Basin Study Sites.
4	ц				River		E-1 00	D 00	000 000		000.000	Stillwater	laha Oʻrili			Research project completed. Jeff McLain, USFWS.
ō	S	I I I				ERP-00-F04	rep-00	Dec-03	223,666		223,666	Sciences	John Stella			

ber	_	Type					CONT	RACT						aple	
S Num	EGION	roject 7		ERP Targets taken	MS Components or Questions for field	ERP PROJECT	START	END	CALFED		Total Project		Principal	nits	
Σ	R	ā	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	O D Project Name	Comments
	R				establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Tuolumne River							Tuolumne River Preservation			resolve conducts for hparin regeneration grown anong sections of the rivers in the East San Joaquin EMZ. Improve functionality of floodplain to support riparian species. (Proposed 254 acres) <i>Implementation</i> <i>project not completed; still in planning phase. Project acquired</i> 197 acres, 180 acres of CE, and is trying to acquire 16 more acres. Patrick Koepele, Tuolumne River Preservation Trust.
94	S	т				ERP-02-D01	Jun-05		1,681,123	381,100	2,062,223	Trust	Patrick Koepele	Manad Diver Consider Destantion	Destant viewiew behitst
94	sJR	н			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-98-E09	Sep-98	Apr-01	300.000	26.552	326.552	Stillwater Sciences & Merced Co. Planning and Development	Jennifer Vick/Bob Smith	Merced River Corridor Restoration Plan	Restore riparian habitat. Jeff McLain, Planning. Final Plan completed. The final plan recommends actions to re-establish floodplain at elevations that are functional under the contemporary regulated flow regime, to establish a floodplain corridor and reconnect the river to its floodplain.
	.,				94 C. Status of program to				,		,			Phase 3: Merced River Salmon Habitat	Reduce erosion and maintain gravel recruitment on the Merced River.
					establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River							Department of		Enhancement	Reconfigure the channel to improve river and floodplain dynamics and sediment transport. Fred Jurick, CDFG. Implementation. 2.0 miles of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, bought gravel rights, and did restored instream habitat
4	Ч	_					May 00	0	0 400 750			Water	Oten hand One and		
94 94	sur	н			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-99-B05	Sep-99	Mar-00	1,584,002		1,584,002	DFG	Fred Jurick	Partial funding for Phase I Construction of the Robinson/Gallo 10 acres Salmon Restoration Project: Ratzlaff riparian Reach Site habitat; .5 miles instream habitat	Restore natural channel configurations on the Merced River to reduce salmonid predator habitat and improve the migration corridor. Fred Jurick, CDFG. Implementation project completed. Restored .5 miles of instream habitat, and created 10 acres of riparian habitat.
34	sJR	Ŧ			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	FRP-00-F04	Feb-00	Dec-03	223 666		223 666	Stillwater Sciences	John Stella	A Mechanistic Approach to Riparian Restoration in the San Joaquin Basin Phase I and II	This project will identify the physical and biological mechanisms affecting the establishment of riparian vegetation in the San Joaquin Basin, in order to identify the most cost-effective strategies and sites for riparian protection and restoration. Phase I: Develop a Mechanistic Conceptual Model of Riparian Plant Establishment, Analyze Pilot Data, and Select Study Sites. Phase II: Develop a Physical/Biological Restoration Model Based on San Joaquin Basin Study Sites. <i>Research project completed. Jeff McLain, USFWS.</i>
3	SJR (	H			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-01-C03	Jul-01	Jun-04	1,699,101	6,176,800	7,875,901	Department of Water Resources	Stephani Spaar	Merced River Salmon Enhancement River Mile 42-44 Phase II	The Merced River Salmon Enhancement project will scale the channel between River miles 42 and 44 to fit the post-dam flow regime. Over the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximately slope and bankfull flow of 1,700 cfs. The floodplains will be replanted with native riparian\vegetation. (Proposed 2 miles; 45 acres of pond area removed; 10 acres of pond area isolated). <i>Fred</i> <i>Jurick, CDFG. Implementation project not completed. 2.0</i> <i>instream and riparian habitat.</i>
94	sJR	н			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-02-P12-D	May-03	Apr-06	2,192,515		2.192.515	Stillwater Sciences	Dr. Peter Downs	Merced River Corridor Restoration Plan Phase IV: Dredger Tailings Reach	Develop a detailed sediment transport model. Jeff McLain, USFWS. Planning project not completed. Project Task 6: Assess the most effective and efficient revegetation techniques of reconstructed floodplains; design plan to restore approximately 60 acres of floodplains along a 3600 linear feet of river channel. This task is currently being carried out.

						CON	TRACT								
MS Number	REGION	Project Type Milestone	ERP Targets taker from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
94	รมห			94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-00-F05	Feb-00	Sep-02	260 351		260 351	Stillwater	Jennifer Vick		Merced River Corridor Restoration Project Phase III	This project will develop a long-term restoration and monitorin Project completed. Some modeling implementation involv Merced River Corridor Restoration Plan was developed in III. In addition to development of that plan, Stillwater Sci completed field and modeling efforts and developed de guidelines for channel and floodplain restoration. Jeff M USFWS.
4	JR S	_		94 C. Status of program to establish, restore, and maintain riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Merced River	ERP-98- C04/C05	Sep-98	Dec.00	830 500		830 500	CDEG	Clarence Mayott		Basso Bridge Ecological Reserve Land Acquisition and Merced River Ranch Land Acquisition	Acquire, in order to restore, riparian habitat to improver flood habitat, salmonid shaded riverine aquatic habitat and instream along the Merced River. Purpose of acquisition: to restore, pr and enhance riparian floodplain, wetland and aquatic habitat al Merced River. Merced River Ranch Land Acquisition com is complete; 318 acres have been purchased to restore rij wetland, and aquatic habitat along the Merced River. Cla Mayott or Dean Marston, CDFG.

					MULTI	SPECIES	CONSI	ERVAT	ION ST	RATEG	GY MILE	STONE	95 ROLLE	ED UF	SUMMARY		
M Su B th a In m E r a o in N in	LEST staini ing at stle o reem creas mber anage tablis inge o res o the S d on erced roduc	<b>ONI</b> ng ri leas ccur ent, e sui of p emer h tw f the i mai San San Rive	<b>5 95</b> Implement 25 per parian community for all st three of the currently extended into protection thrand ensure appropriate r table habitat for delta cogopulations and individual and protection. To new riparian brush rable species. Protect and ensure, shrub-rich riparian furthe species. Protect and enture, shrub-rich riparian for a futhe east-side tributariers) for habitat values and sites.	cent of the ERP EMZs in the San xisting but unprot rough purchase of nanagement. yote thistle by at s by at least 10% bit habitat preser hance a minimu orest and associa e Merced River of es (the Stanislau d as potential ripa	target for diverse, self- Joaquin River Basin. tected delta coyote or conservation least 20% and the 6 through habitat ves within the historical m of 150 contiguous ated highwater refugia confluence and Vernalis, is, Tuolumne and arian brush rabbit re-	PROJECTS REVIEWED - ERP-97-B04, ERP-97-M08, ERP-97-M08, ERP-98-F07, ERP 99-F01, ERP-99- F02, ERP-01- N08, ERP-02D- P59, AFRP-00-06, ERP-01-N11		SUMMA contribute Joaquin R restored tr acres, with San Joaqu restore ap acres wen stretch of EMU, 370 habitat we process of delta coyo targeted h	ARY: N d to progress iver EMZs. o riparian hai a goal of re uin River Nal proximately e acquired fc the Tuolumn or restoring ( acres were ere restored; f being resto te thistle or i abitat needs	Iany ERP co s on this mile In the Stanis bitat; several sistoring 1.6 r tional Wildlife 1.3 miles of or restoration e River are i 3.1 miles Tuo protected an and 2 miles red. No con ncreasing st for the ripar	ntracts and c estone in the laus EMU, a projects are niles of conti e Refuge. Th instream hab ; 1,142 acree oblumne River d portions w of instream a uitable habita ian brush rab	one AFRP contr East San Joaq pproximately 13 in progress to nues miles of ri rere are additio itat. In the Tuc s and portions v f being restored; 0. and riparian resi didressed eithe tt for the specie obit, including e	act have act have in and San 7 acres were restore up to 2,319 wer frontage at the hal contracts to lumne EMU, 6,169 within a 1.1 mile . In addition, ess. In the Merced 5 miles of instream oration is in the the protection of s. Three contracts hancing habitat av			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	ES CONSER\	ATION STRATEG	Y MILESTC	DNE 95	5 EVA	LUATI	ON OF	INDIVIE	DUAL PR	OJECTS RE	EVIEW	/ED TO FORMULATE T	HE ROLLED UP SUMM	IARY
			Milestone	ERP Targets taker from ERPP Vol 2 Pastore 50 stream	MS Components or Questions for field personnel 95 A. Status of reciping 12	ERP PROJECT NUMBERS	CON START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
			ERP target for diverse, self- sustaining riparian community for all EMZs in the San Joaquin River Basin. Bring at least three of the currently existing but unprotected delta coyote thistle occurrences into protection through purchase of conservation agreement, and ensure appropriate management. Increase suitable habitat for delta coyote thistle by at least 20% and the number of populations and individuals by at least 10% through habitat management and protection. Establish two new riparian brush rabbit habitat preserves within the historical range of the species.	miles (1,212 acres) of diverse, self- sustaining riparian community	stream miles (303 acres) of diverse, self-sustaining riparian community in the San Joaquin Basin EMZ	ERP-97-B04	Aug-98	Mar-02	10,947,000	10,000,000	20,947,000	San Luis National Wildlife Refuge Complex	Kim Forrest, Refuge Manager		Refuge Riparian Habitat Protection and Floodplain Restoration Project	along the San Joaquin River for the I separate parcels will be purchased to will become part of the SJR NWR. T restoration planning. A Baseline Biolog part of this project prior to future phi project will entail earth-moving and <i>completed, it included planning a</i> <i>Forrest, U</i>	penefit of fish and wildlife. Four otaling 6169 acres; this acreage his phase will also include pre- gical Inventory was completed as ase restoration. Phase II of this restoration. This project was nd baseline monitoring. Kim SFWS.

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		ject		ERP Targets taken	MS Components or Questions for field	ERP PRO JECT	START	END			l otal Project		Principal	anti		
S N		Pro	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	Uni U	Project Name	Comments
			Protect and enhance a minimum of 150 contiguous		95 A. Status of restoring 12 stream miles (303 acres) of										Tuolumne River Setback Levees and Channel Restoration	Restore a 6.1 mile reach involving instream aquatic and SRA habitats. Jeff McLain, USFWS. Implementation. 6 river miles of riparian
			riparian forest and associated		diverse, self-sustaining riparian community in the San Joaquin Basin EMZ											and riverine aquatic nabitat. Project completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne
			Joaquin river, between the Merced River confluence and													River. This specific project will eventually restore the 7/11 segment (.6 miles @ RM 37.7-40.3). This project filled-in mining
			Vernalis, and on each of the east-side tributaries (the Stanislaus, Tuolumpe and											6 miles		pits for instream habitat and floodplain enhancement.
			Merced Rivers) for habiatat values and as potential											riparian and		
	~		riparian brush rabbit re-									Turlock		riverine		
ų	SJF S	т	Intioduction sites.			ERP-97-M09	Jul-00	Dec-01	2,801,000	4,384,060	7,185,060	District	Wilton Fryer	habitat		
					95 A. Status of restoring 12 stream miles (303 acres) of							East		1.2	Grayson River Ranch Perpetual Easement and Restoration	Restoration of 1.2 miles of shaded riverine habitat. <i>Project complete.</i> <i>This project created shaded riverine and floodplain habitats. Jeff</i>
					diverse, self-sustaining							Resource		miles of		McLain, USFWS.
4	, ¥	_			Joaquin Basin EMZ			0-1-00	700.000		700.000	Conservation	laba lladia	riparian		
	s 0	T			95 A. Status of restoring 12	ERP-98-FU7		Oct-03	732,000		732,000	District	John Hertie	naditat	San Joaquin River NWR Riparian	Task E. Reintroduction of Riparian Brush Rabbit. Re-establishment of
					stream miles (303 acres) of diverse self-sustaining										Habitat Protection and Floodplain Restoration Project-Phase II	riparian brush rabbit populations within San Joaquin Wildlife Refuge.
					riparian community in the San											project to support accomplishment of reintroduction. (Proposed goal is
					JOAQUIT BASIT EWZ							USFWS San		.5 miles		complete. 3,166 acres acquired . 5 miles of riparian habitat
												Luis Natl Wildlife Refuge		of riparian		restored. Kim Forrest, USFWS.
4	5 73	т			05 A Otatua af matarian 40	ERP-01-N08	Apr-02	Apr-05	7,646,233	1,885,000	9,531,233	Complex	Kim Forrest	habitat	Tushana Dian Orasial Dua Daal	Destanting of instances and in behind and shaded size size and in
					stream miles (303 acres) of										(SRP) 10 Restoration	habitat and reduction of predatory fish habitat for the benefit of
					diverse, self-sustaining riparian community in the San											salmon. The full SRP 10 project will rebuild a portion of the Tuolumne River channel, at river mile 25.4. The project will remove mining pit
					Joaquin Basin EMZ											ponds. This project is complete. This is part of the larger full
																River. This phase included levee breach repair and baseline
																which will reduce salmonid fish predator habitat, restoration
																increase habitat for salmon production, reconstruct natural channel geometry, and restore native riparian plant communities
																Jeff McLain, USFWS.
	~											Turlock Irrigation				
40	5 73	т			05 A Otatua af matarian 40	ERP-99-F01	Sep-99	Mar-02	164,800		164,800	District	Wilton Fryer	-	Tushuma Dina Misira Daash	
					stream miles (303 acres) of										Restoration Project No. 2 - MJ Ruddy	36.5 and 37.6 on the Tuolumne River. Objectives: 1) Restore and
					diverse, self-sustaining										Segment	increase habitat for natural salmon production. 2) Reconstruct natural channel geometry scaled to current channel forming flows. 3) Restore
					Joaquin Basin EMZ											native riparian plant communities. 4) Reduce salmonid fish predator
																habitat. (proposed 1.1 miles). Project not completed. This project is part of a larger restoration project to eventually restore the
																entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the
																Reach (1.1 miles @ RM 36.5-37.6). No actual restoration has been
																accomplished to date; land has not been purchased. Jeff
1												Turlock				wolan, oorwo.
30	SJR S	т				ERP-99-F02	Sep-99	Mar-02	3,332,050	3,145,000	10,263,233	Irrigation District	Wilton Fryer			
					95 A. Status of restoring 12 stream miles (303 acres) of										Continue to restore the 7/11 segment of the mining reach on the Tuolumne	Objective: To restore and increase riparian and instream habitat to support natural production of the San Joaquin fall-run
1					diverse, self-sustaining										River	Chinook salmon; Reconstruct a natural channel geometry scaled
1					Joaquin Basin EMZ											to current channel forming flows; Restore native riparian plant communities within their predicted hydrological regime; and
1																Reduce the occurrence of salmonid fish predator habitat.
1	~												Jeff McLain			
8	s līs	н				AFRP-00-06	1				1	AFRP	USFWS			

IS Number	tegion	roject Type	Milestere	ERP Targets taken	MS Components or Questions for field	ERP PROJECT	CONT START		CALFED		Total Project	Annliant	Principal	luantifiable Inits	Designed Name	Commonte
			milestone		95 A. Status of restoring 12 stream miles (303 acres) of diverse, self-sustaining riparian community in the San Joaquin Basin EMZ	NUMBERS	DATE	DATE	Award	Cost Share	Lost	Turlock	investigator		Tuolumne River Special Run Pool 9 Restoration	Reconstructing channels by isolating or filling in channel gravel extraction areas. Will change warmwater predator species habitat resulting from gravel mining to a more natural, dynamic morphology that will improve habitat for chinook salmon. Jeff McLain, USFWS. Implementation. 2 miles of riparian and riverine aquatic habitat (credited for Milestone 94B). This project was completed. A final joint Environmental Assessment and Initial study for the restoration project segments of the Gravel Mining Reach was completed in October 1999 with funding from this agreement. Pre- project monitoring that included habitat mapping, fish community evaluation, salmon smolt survival experiments, and geomorphic variables occurred during spring through fall of 1998. Instream work, floodplain construction, and revegetation was completed in 2001. Restored floodplain is currently being maintained to enhance survival of plantings.
95	SJR	т				ERP-97-M08	Feb-98		2,353,100		2,353,100	Irrigation District	Tim Ford			
					95 A. Status of restoring 12 stream miles (303 acres) of diverse, self-sustaining riparian community in the San Joaquin Basin EMZ							San Luis National			Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River	Project not begun yet. Proposing to establish for riparian brush rabbits a Lower Stanislaus River Riparian Preserve of 500-1,000 acres on the south bank of Stanislaus River in Stanislaus County, within an area defined by the confluence with the San Joaquin River up to river mile 9.5. Additionally, proposing expansion of the habitat at Caswell Memorial State Park, San Joaquin County, while monitoring the riparian brush rabbits response; and monitor the recently reintroduced rabbits at the San Joaquin River National Wildlife Refuge on the San Joaquin River in Stanislaus County to gain a better understanding of the reintroduction process. Kim Forrest, USFWS.
95	SJR	т				ERP-02D-P59			6,427,131		6,427,131	Wildlife Refuge Complex	Kim Forrest, Refuge Manager			
95	SJR	т			least three of the currently existing but unprotected delta coyote thistle occurrences through purchase or conservation agreement, and ensure appropriate management.											
	ĸ				suitable habitat for delta coyote thistle by at least 20%											
95 95	sJR SJ	T			95 D. Status of increasing the number of populations and individuals by at least 10% through habitat management and protection.											

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L m	NO	ect 7			MS Components or						Total			s		
NS P	RG	Proj	Milestone	ERP Targets taken from ERPP Vol 2	Questions for field	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Project Cost	Applicant	Principal Investigator	Qual	Project Name	Comments
	_				95 E. Status of establishing				,	COOL CHILLO		, application	moongutor		San Joaquin River NWR Riparian	Task E. Reintroduction of Riparian Brush Rabbit. Re-establishment of
					two new riparian brush rabbit										Habitat Protection and Floodplain	riparian brush rabbit populations within San Joaquin Wildlife Refuge.
					historical range of the species.										Restoration Project-Phase in	project to support accomplishment of reintroduction. (Proposed goal is
												USFWS San				one new population) Acquisition and Implementation Project 80%
	≌											Wildlife Refuge				complete. 3, 100 acres acquired . Kim Forrest, USFWS.
36	ഗ	т			95 F. Status of establishing	ERP-01-N08	Apr-02	Apr-05	7,646,233	1,885,000	9,531,233	Complex	Kim Forrest		Habitat Acquisition for Riparian Brush	Project will establish two new rinarian brush habitat preserves within
					two new riparian brush rabbit										Rabbit and Riparian Woodrat	the historic range of the species; Protect riparian habitat as potential
					habitat preserves within the											riparian brush reintroduction sites. This project acquires fee
					nistorical range of the species.											sites. Acquisition and monitoring project. <i>Project 20% complete</i>
																(acquisition in progress, survey 90% complete) Proposed
																acquisition of ~400 acres. Kim Forrest, USFWS.
95	SJR	т				ERP-01-N11	Sep-01	Jul-03	2.720.085		2.720.085	USFWS	Heather Bell			
					95 E. Status of establishing										Recovery Implementation for Riparian	Project not begun yet. Proposing to establish for riparian brush
					two new riparian brush rabbit habitat preserves within the										the lower Stanislaus River	acres on the south bank of Stanislaus River reserve of 500-1,000
					historical range of the species.											County, within an area defined by the confluence with the San
																Joaquin River up to river mile 9.5. Additionally, proposing expansion of the habitat at Caswell Memorial State Park. San
																Joaquin County, while monitoring the riparian brush rabbits
																response; and monitor the recently reintroduced rabbits at the San Joaquin River National Wildlife Refuge on the San Joaquin
																River in Stanislaus County to gain a better understanding of the
																reintroduction process. Kim Forrest, USFWS.
												San Luis				
	≌											Wildlife Refuge	Kim Forrest,			
36	S	т			95 F. Status of protecting and	ERP-02D-P59			6,427,131		6,427,131	Complex	Refuge Manager		San Joaquin River NWR Riparian	Task F. Reintroduction of Rinarian Brush Rabbit Re-establishment of
					enhancing a minimum of 150										Habitat Protection and Floodplain	riparian brush rabbit populations within San Joaquin Wildlife Refuge.
					contiguous acres of mature,										Restoration Project-Phase II	Suitable riparian habitat restoration will take place as part of this
					associated high-water refugia											one new population) Acquisition and Implementation Project 80%
					on the San Joaquin River,											complete. 3,166 acres acquired . Kim Forrest, USFWS.
					confluence and Vernalis, and											
					on each of the east-side											
					Tuolumne and Merced rivers)											
					for habitat values and as							Luis Natl				
ю	¥				re-introduction sites.							Wildlife Refuge				
ő	S	I			95 F. Status of protecting and	ERP-01-N08	Apr-02	Apr-05	7,646,233	1,885,000	9,531,233	Complex	KIM FORrest		Habitat Acquisition for Riparian Brush	Project will establish two new riparian brush habitat preserves within
					enhancing a minimum of 150										Rabbit and Riparian Woodrat	the historic range of the species; Protect riparian habitat as potential
					shrub-rich riparian forest and											title/conservation easement for riparian brush rabbit reintroduction
					associated high-water refugia											sites. Acquisition and monitoring project. <b>Project 20% complete</b>
					on the San Joaquin River, between the Merced River											(acquisition in progress, survey 90% complete) Proposed acquisition of ~400 acres. Kim Forrest. USFWS.
					confluence and Vernalis, and											· · · · · · · · · · · · · · · · · · ·
					on each of the east-side tributaries (the Stanislaus											
					Tuolumne and Merced rivers)											
					tor habitat values and as potential riparian brush rabbit											
					re-introduction sites.											
5	Я						Cor Of	hul 00	0 700 005		0 700 005		Hoother Dell			
ດ	Ś	т	1			ERP-01-N11	Sep-01	Jul-03	2,720,085		2,120,085	035112	neamer Bell			

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Milestone       REP Targets taken from ERPP Vol2       MS Components or Questions for field personnel       ERP PROJECT NUMBERS       SART DATE       END DATE       CALFED Award       Total Project       Principal Loss Share       Principal L
Image: Representation of the personnel       CONTRACT       Total Project       Principal Investigator       99 F       Project Name         Image: Second control of the personnel       PROJECT       START DATE       END DATE       CALFED Cost Share       Cost Share       Principal Investigator       99 F       Project Name         95 F. Status of protecting and enhancing a minimum of 150 contiguous acres of mature, shrub-rich riparian forest and associated high-water refugia on the San Joaquin River, between the Merced River confluence and Vernalis, and on each of the east-side tributaries (the Stanislaus.       Image: Status of the stanislaus.       Image: Status of
MS Components or Questions for field personnel       ERP PROJECT       START       END DATE       CALFED DATE       Total Award       Project       Applicant       Principal Investigator       Project Name         95 F. Status of protecting and enhancing a minimum of 150 contiguous acres of mature, shrub-rich riparian forest and associated high-water refugia on the San Joaquin River, between the Merced River confluence and Vernalis, and on each of the east-side tributaries (the Stanislaus).       Image: Contract in the contract in th
Image: CONTRACT       CONTRACT       Total Project       Principal Investigator       Principal Investigator       Project Name         NUMBERS       DATE       DATE       Cost Share       Cost Share       Cost Share       Cost Share       Applicant       Investigator       Project Name       Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
CONTRACT       END       CALFED       Total Project       Project       Principal Investigator       Project Name         DATE       DATE       Award       Cost Share       Cost       Applicant       Investigator       Project Name         Image: Stress of the str
RACT       CALFED       CALFED       Total       Project       Principal       Project Name         DATE       Award       Cost Share       Cost       Applicant       Investigator       Project Name       Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
CALFED     Total     Total     Principal     Principal     Project Name       Award     Cost Share     Cost     Applicant     Investigator     Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Total Project Cost Share     Total Applicant     Principal Investigator     Perincipal Brush Rabbit and Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Total Project Cost     Principal Applicant     Principal Investigator     Project Name       Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River     Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Applicant         Principal Investigator         Project Name           Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Principal Investigator         Project Name           Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Project Name           Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River
Project Name Recovery Implementation for Riparian Brush Rabbit and Riparian Woodrat on the lower Stanislaus River

					MULTI S	SPECIES	CONSE	ERVAT	ION ST	RATEG	GY MILE	ESTONE 9	6 ROLLI	ED UF	P SUMMARY		
MIL impl inad stee strea tribu prov Saci sturg	emen equat lhead ams w taries ide ac ramer geon.	NE t a provident of the second secon	<b>96</b> Develop and rogram to address stream flows for Chinook salmon on San Joaquin River here appropriate ate flows for olit tail and green			PROJECTS REVIEWED - ERP-99-B30		SUMMA program to salmon on acquisitior Oakdale a address th Stanislaus	ARY One o address ina o streams with o of 50,000 a nd South Sa le inadequate River.	ERP contra idequate inst nin San Joaq cre feet of wa n Joaquin Irr e instream flo	ct was perfc ream flows juin River tri ater per yea igation Distr jwws for steel	rmed to develop for steelhead and butaries. An agre r between the Uni icts resulted from head and Chinoo	and implement a Chinook eement for the ited States and this program to k salmon on the			AGENCY NOTES	NOTES CONT'D
		_	MULTI SPECIES	CONSERV	ATION STRATEGY	MILESTO	DNE 96	EVA		ON OF	INDIVI	DUAL PRC	JECTS RI	EVIEV	VED TO FORMULATE T	HE ROLLED UP SUMN	IARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	RACT END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commer	nts
96	SJR	SR	Develop and implement a program to address inadequate instream flows for steelhead and Chinook salmon on streams within San Joaquin River tributaries. Where appropriate provide adequate flows for Sacramento split tail and green sturgeon.		96 A. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the streams of the Cosumnes River												
96	SJR	SR			96 B. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the streams of the Tuolumne River	ERP-99-B30	Jul-99	Sep-99	\$60/acre foot, up to 50,000 acre feet (\$3,000,00 0)			Oakdale Irrigation District, South San Joaquin Irrigation District		50,000 acre feet/one year	Agreement for the Acquisition of Water Between the United States and Oakdale and South San Joaquin Irrigation Districts	Program to address the inadequate in Chinook salmon on the stream of the and USFWS desire to increase supply and wildlife purposes. <i>Georgiana</i>	stream flows for steelhead and Stanislaus River. Reclamation of water available to meet fish Gregory, Project complete.
96	SJR	R			96 C. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the streams of the Merced River												

					MULT	I SPECIES	CONS	ERVA	FION ST	RATEG	Y MILE	STONE 97	ROLLE	D UP	SUMMARY		
MIL unin dow stee Basi	ESTC npede nstre lheac n trib	ME to up am p	97 Provide ostream and lassage for salmon and San Joaquin River es.			PROJECTS REVIEWED - ERP-97-M08, ERP-98-F11, ERP 98-N02, ERP-99- B04, ERP-99- B05, ERP-99-F02, ERP 01-C03, ERP-02- P19-D, AFRP-00-12, AFRP-01-02, AFRP-01-02, AFRP-03-02	2	SUMMA achieving the Tuoluri improve pi landscape by identify contract pi and reseat vagaries o migration a	ARY Their this milestone mne River and assage for sa level, plannii ing dams and rovide funds i rch on the Sta f environmer and straying o	re are several e. Several cha d the Merced almon and ste ng effort that i d diversions th for a long ran- anislaus Rive tal factors an of Tuolumne I	I ERP and AF annel restorat River Salmor elhead. One I examines exp nat could be a ge planning d r. Another AF d fall attractio River salmoni	RP contracts tha on projects in the Habitat Restora ERP contract pro ansion of anadro ttered or remove ocument to imple RP project resea n flows as they a ds.	t contribute to e mining reach of tion Project vides for a mous fish habitat d. One AFRP ment restoration arches the ffect up-			AGENCY NOTES	NOTES CONT'D
	-		MULTI SPECIE	ES CONSER	VATION STRATEG	SY MILEST	ONE 97	7 EV/	ALUATI	ON OF I	INDIVID	UAL PRO	JECTS RE	VIEW	ED TO FORMULATE TH	E ROLLED UP SUMMA	ARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT	CONT START DATE	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
26	SJR	SR	Provide unimpeded upstream and downstream passage for salmon and steelhead on San Joaquin River Basin tributaries.		97 A. Number of additional miles of passage opened to salmon and steelhead on the Stanislaus River	AFRP-02-02						AFRP	JD Wikert		Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Objective: Develop a consensus bas implementation of prioritized restorat River below Goodwin Dam. The pro finishing a summary of the existing will be provided to the Stanislaus and comment in January 2004 Restoration Plan and co	ed plan to direct the long term ion/research in the Stanislaus ject is currently focused on fisheries data. The summary River Fish Group for review . Work continues on the onceptual model.
26	SJR	SR			97 B. Number of passage impediments improved or removed for salmon and steelhead on the Stanislaus River	ERP-98-N02	Oct-98	Mar-00	49.000	71.000	120.000	Institute for Fisheries Resources (IFR)	Dr. Guy D. Phillips		Expanding California Salmon Habitat to Alter Dams and Diversions	The project has five basic features: 1) of financing of the opportunity for acquisit from willing sellers, (2) identify cand develop a template for analysis and re public and agencies for all potential si mechanism to acquire dams from w community and peer review workshop all EMZs. <i>William F. "Zeke" Gra Resources. P</i>	document the extent, timing, and tion/modification of private dams idate Central Valley sites, (3) solution of issues for use by the tes, (4) develop a private sector rilling sellers, and (5) conduct s. Contributes to fish passage in der, Institute for Fisheries lanning
					97 B. Number of passage impediments improved or removed for salmon and steelhead on the Stanislaus River								Jeff McLain		Up-Migration and Straying of Tuolumne River Salmonids in Response to Fall Attraction Flows and Environmental Factors	Objective: The proposed study will environmental explanatory variables arrival timing of fall run Chinook salmo and b) the annual proportion of stray San Joaquin basin that are recove Environmental variables will include fi meteorology. Annual carcass survey: used to indicate the upmigration timi large. CWT recovery of Merced River released in the San Joaquin basin trib numbers recovered in the American, F the Sacramento River basin. The pro staff, TRAC, and California Bay-Del 2003. The proposal was revised an in Sept. 20	Lexamine the relationship of with: a ) the annual variation in on in the lower Tuolumne River, coded wire tag (CWT) from the red in Sac River tributaries. low, water quality, and regional s of the Tuolumne River will be ng of the San Joaquin basin at Fish Facility (MRFF) tag codes outaries will be compared to the eather and Mokelumne Rivers in posal was reviewed by AFRP ta Program ERP staff in July d later accepted by the AFRP 003.

97		97	26	97	97	MS Number
SJR		SJR	SJR	sJR	SJR	REGION
SR		SR	SR	SR	SR	Project Type
						Milestone
						ERP Targets taken from ERPP Vol 2
	97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River	97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River	97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River	97 C. Number of additional miles of passage opened to salmon and steelhead on the Tuolumne River	97 B. Number of passage impediments improved or removed for salmon and steelhead on the Stanislaus River	MS Components or Questions for field personnel
ERP-97-M08		ERP-99-F02	ERP-99-F01	ERP-02-P19-D	AFRP-02-02	ERP PROJECT NUMBERS
Feb-98		Sep-99	Sep-99	3-Mar		CONT START DATE
		Mar-02	Mar-02			RACT END DATE
2,353,100		3.332.050	164,800	10.839.000		CALFED Award
		3.145.000				Cost Share
		11.003.800	164.800	10.839.000		Total Project Cost
Turlock Irrigation District		Turlock Irrigation District	Turlock Irrigation District	Turlock Irrigation District	AFRP	Applicant
Tim Ford		Wilton Frver	Wilton Fryer	Wilton Fryer	JD Wikert USFWS	Principal Investigator
						Quantifiable Units
	Tuolumne River Special Run Pool 9 Restoration	Tuolumne River Mining Reach Restoration Project No. 2 - MJ Ruddy Segment	Tuolumne River Run Pool 10 Restoration	Tuolumne River Mining Reach Restoration Project: Warner-Deardorff Segment No. 3 Construction	Develop a Consensus Based Plan to Direct the Long Term Implementation of Prioritized Restoration/Research in the Stanislaus River Below Goodwin Dam	Project Name
, <b></b>	Reconstructing channels by isolating or filling in channel gravel extraction areas. Will change warmwater predator species habitat resulting from gravel mining to a more natural, dynamic morphology that will improve habitat for chinook salmon. Jeff McLain, USFWS. Implementation2 miles of riparian and riverine aquatic habitat. This project was completed. A final joint Environmental Assessment and Initial study for the restoration projects Special Run Pool (SRP) 9 and 10 (ERP 99 F01) and four project segments of the Gravel Mining Reach was completed in October 1999 with funding from this agreement. Pre-project monitoring that included habitat mapping, fish community evaluation, salmon smolt survival experiments, and geomorphic variables occurred during spring through fall of 1998. Instream work, floodplain construction, and revegetation was completed in 2001. Restored floodplain is currently being maintained to enhance survival of plantings.	The MJ Ruddy Segment is Project No. 2 located between river mile 36.5 and 37.6 on the Tuolumne River. Objectives: 1) Restore and increase habitat for natural salmon production. 2) Reconstruct natural channel geometry scaled to current channel forming flows. 3) Restore native riparian plant communities. 4) Reduce salmonid fish predator habitat. Jeff McLain, USFWS. Implementation. Project not completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This project will eventually restore MJ Ruddy Reach (1.1 miles @ RM 36.5-37.6). No actual restoration has been accomplished to date; land has not been purchased.	Restoration of instream aquatic habitat and shaded riverine aquatic habitat and reduction of predatory fish habitat for the benefit of salmon. The full SRP 10 project will rebuild a portion of the Tuolumne River channel, at river mile 25.4. The project will remove mining pit ponds. This project is complete. This is part of the larger full SRP 10 Restoration Project to restore RM 25.4 on the Tuolumne River. This phase included levee breach repair and baseline monitoring. This project contributes to eventual full restoration which will reduce salmonid fish predator habitat, restore and increase habitat for salmon production, reconstruct natural channel geometry, and restore native riparian plant communities. Jeff McLain, USFWS.	Number of additional miles of passage improved for salmon and steelhead on the Tuolumne River. Improve juvenile salmon survival by preventing future connection between the Tuolumne River and off- channel mining pits. (proposed 1.3 miles). Implementation project not complete. Jeff McLain, USFWS.	Objective: Develop a consensus based plan to direct the long term implementation of prioritized restoration/research in the Stanislaus River below Goodwin Dam. The project is currently focused on finishing a summary of the existing fisheries data. The summary will be provided to the Stanislaus River Fish Group for review and comment in January 2004. Work continues on the Restoration Plan and conceptual model.	Comments

	Der		ype				CONT	RACT					and		
		REGION	Milestone	ERP Targets taker from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator C	양 또 그 Project Name	Comments
		SJR	Ϋ́,		97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River	EBP-97-M09	.lul-00	Dec-01	2 801 000	4 384 060	7 185 060	Turlock Irrigation District	Wilton Erver	Tuolumne River Setback Levees and Channel Restoration	Channel reconstruction in deep pit areas created by past gravel mining. Jeff McLain, USFWS. Implementation6 river miles of riparian and riverine aquatic habitat. Project completed. This project is part of a larger restoration project to eventually restore the entire Mining Reach (6.1 miles@ RM 34.2 to 40.3) on the Tuolumne River. This specific project will eventually restore the 7/11 segment (.6 miles@ RM 37.7-40.3). This project filled-in mining pits for instream habitat and floodplain enhancement.
		2			97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River					1,001,000		2.000	Jeff McLain	Tuolumne River: Special Run Pool 10 Dike Repair and Pre-Project Monitoring	Objective: A levee separating a gravel extraction pit from the Tuolumne River was damaged during the 1997 floods connecting the deepwater habitat with the Tuolumne River. This project will reduce juvenile salmonid fish predator habitat by repairing the levee and isolating the mining pit from the Tuolumne River. This project will also collect a second year of pre-project monitoring to better establish base line conditions for the full SRP 10 restoration project. The levee breach repair was completed in 2001 and the pre-project monitoring was completed in early 2002.
_	n i	S	SR		07 D. Number of passage	AFRP-00-12						AFRP	USFWS	Continuo to rostoro the 7/11 segmen	Objective: To restore and increase ringrian and instream behitst
					impediments improved or removed for salmon and steelhead on the Tuolumne River									of the mining reach on the Tuolumne River	Chinook salmon; Reconstruct a natural channel geometry scaled to current channel forming flows; Restore native riparian plant communities within their predicted hydrological regime; and Reduce the occurrence of salmonid fish predator habitat.
	10	SJR	х К			AFRP-00-06						AFRP	Jeff McLain USFWS		
					97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River									Tuolumne River Mining Reach Restoration No. 3, Warner-Deardorff Segment	This project is 1 of 4 phases of the overall Mining Reach Project to restore floodplain and riparian habitat to 6.1 miles of the Tuolumne River. This project ties into the permanent floodplain channel reconstruction at the downstream end of a set back dike constructed during a previous project phase. Deep pit areas created by past gravel mining will be filled in to re-create a riffle and run pattern that follows the restored meander channel of the river. <i>Jeff McLain, Planning and pre-project monitoring; in planning phase.</i> To date necessary cooperative agreements have been obtained; some engineering work has been done to facilitate hydraulic and fluvial models, environmental permits, monitoring, and right-of-way footprints. Design and monitoring work is continuing. When finished, the preliminary design will be distributed for technical review which will be used to finalize the design plans. Restoration will eventually cover 1.3 miles: river mile 35.2 to 36.5. References to 6.1 miles includes the entire river reach covered by four phased projects.
		SJR	Х.			AFRP-01-02	na	na	3 501 000	3 376 000	6 877 000	Irrigation District	Wilton Frver		
		SJR	<del></del>		97 D. Number of passage impediments improved or removed for salmon and steelhead on the Tuolumne River	ERP-98-N02	Oct-98	Mar-00	49,000	71,000	120.000	Institute for Fisheries Resources (IFR)	Dr. Guy D. Phillios	Expanding California Salmon Habitat to Alter Dams and Diversions	The project has five basic features: 1) document the extent, timing, and financing of the opportunity for acquisition/modification of private dams from willing sellers, (2) identify candidate Central Valley sites, (3) develop a template for analysis and resolution of issues for use by the public and agencies for all potential sites, (4) develop a private sector mechanism to acquire dams from willing sellers, and (5) conduct community and peer review workshops. Contributes to fish passage in all EMZs. <i>William F. "Zeke" Grader, Institute for Fisheries Resources. Planning</i>
		SJR	ж		97 E. Number of additional miles of passage opened to salmon and steelhead on the Merced River		000-00				120,000				

16	26	26	97	97	MS Number
SJR	SJR	SJR	SJR	sJR	REGION
SR	SR	SR	SR	sr	Project Type
					Milestone
					ERP Targets taken from ERPP Vol 2
97 F. Number of passage impediments improved or removed for salmon and steelhead on the Merced River	97 F. Number of passage impediments improved or removed for salmon and steelhead on the Merced River	97 F. Number of passage impediments improved or removed for salmon and steelhead on the Merced River	97 F. Number of passage impediments improved or removed for salmon and steelhead on the Merced River	97 F. Number of passage impediments improved or removed for salmon and steelhead on the Merced River	MS Components or Questions for field personnel
ERP-98-N02	ERP-99-B05	ERP-99-B04	ERP-98-F11	ERP-01-C03	ERP PROJECT NUMBERS
Oct-98	Sep-99		March, 1999	Jul-01	CONT START DATE
Mar-00	Mar-00	Dec, 2002	Sept, 2002	Jun-04	RACT END DATE
49,000	1,584,002	762,000	2 433 759	1,699,101	CALFED Award
71,000				6,176,800	Cost Share
120,000	1,584,002	762,000	2,433,759	7,875,901	Total Project Cost
Institute for Fisheries Resources (IFR)	DFG		Department of Water Resources	Department of Water Resources	Applicant
Dr. Guy D. Phillips	Fred Jurick	Rhonda Reed	Stephani Spaar	Stephani Spaar	Principal Investigator
					Quantifiable Units
Expanding California Salmon Habitat to Alter Dams and Diversions	Partial funding for Phase I Construction of the Robinson/Gallo Salmon Restoration Project: Ratzlaff Reach Site	Preliminary Design and Engineering of Lower Western Stone Restoration Site, Merced River Ratzlaff/Robinson Channel Restoration Project	Phase 3: Merced River Salmon Habitat Enhancement	Merced River Salmon Enhancement River Mile 42-44 Phase II	Project Name
The project has five basic features: 1) document the extent, timing, and financing of the opportunity for acquisition/modification of private dams from willing sellers, (2) identify candidate Central Valley sites, (3) develop a template for analysis and resolution of issues for use by the public and agencies for all potential sites, (4) develop a private sector mechanism to acquire dams from willing sellers, and (5) conduct community and peer review workshops. Contributes to fish passage in all EMZs. <i>William F. "Zeke" Grader, Institute for Fisheries Resources. Planning</i>	Restore natural channel configurations on the Merced River to reduce salmonid predator habitat and improve the migration corridor. Fred Jurick, CDFG. Implementation project completed. Restored .5 miles of instream habitat, and created 10 acres of riparian habitat.	development of a cooperative program to restore salmonid spawning and rearing habitat to the Merced River. DWR shall prepare preliminary design and engineering plans for the restoration of a 3/4 mile long lower Western Stone reach restoration site. DWR will coordinate with USACOE and Merced Irrigation District. Fred Jurick, CDFG.Planning project not completed. Public scoping is still being conducted.	Reduce erosion and maintain gravel recruitment on the Merced River. Reconfigure the channel to improve river and floodplain dynamics and sediment transport. Fred Jurick, CDFG. Implementation. 2.0 miles of instream and riparian habitat. This project was merged into ERP-01-C03. Project not completed. Non-CALFED funded project contribution: 360 acres of CE along the Merced River of riparian and floodplain habitat. Created new river channel, bought gravel rights, and did restored instream habitat	The Merced River Salmon Enhancement project will scale the channel between River miles 42 and 44 to fit the post-dam flow regime. Over the entire reach, the channel will be reshaped to include spawning riffles, runs and pools, with a meander that fits the approximate's slope and bankfull flow of 1,700 cfs. The floodplains will be replanted with native riparian/vegetation. (Proposed 2 miles; 45 acres of pond area removed; 10 acres of pond area isolated). <i>Implementation project</i> <i>not completed. (Proposed restoration of 2.0 miles of instream</i> <i>and riparian habitat</i> ). Fred Jurick, CDFG.	Comments