

Appendix I: Proposed System Improvements Evaluation

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Proposed System Improvements				Public Safety										Environmental Stewardship																		
ID	System Improvement Name	Lead Agency	Estimated Cost	People and Property at Risk (Level of Protection)	Flood System Flexibility/Robustness	Increased Hydraulic Capacity	Flood System Resiliency (Damage Reduction)	Asset Condition	Wise Floodplain Management/Emergency Management (Improved Flood Fighting and Response, information and tools)	Subsidence	Climate Change Adaptability	Public Safety Score - Total	Public Safety Score - Normalized	Increased Flood Inundation - Sustained Spring Flows	Increased Flood Inundation - 2-Year Flows	Increased Riverine Geomorphic Process - River Meander	Increased Riverine Geomorphic Process - Natural Bank	Extension and Continuity of SRA Coverage	Riparian Habitat Coverage	Riparian Habitat Connectivity	Marsh Habitat Coverage	Floodplain Agriculture	Improved Conditions for Threatened and Endangered Target Species - Aquatic (Steelhead, Chinook Fall Run, Chinook Spring Run, Sturgeon)	Improved Conditions for Threatened and Endangered Target Species - Wetlands and Seasonally-Flooded (Delta Button Celery, Slough Thistle, GGS, CA Black Rail, Greater Sandhill Crane)	Improved Conditions for Threatened and Endangered Target Species - Riparian (VELB, Bank Swallow, Least Bell's Vireo, Swainson's Hawk, Yellow Billed Cuckoo, Brush Rabbit, Riparian Woodrat)	Improved Fish Passage	Invasive Plant Management and Prevention	Revetment Removal or Improvement	Levee Relocation or Removal	Environmental Stewardship Score - Total	Environmental Stewardship Score - Normalized	
1	Bear Creek Diversion Structure	Lower San Joaquin Levee District	\$ 260,000	10	0	10	10	10	10	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	3	
2	Levee Breaches Unit 1, LM 9.90 ; Unit 5, LM 0.25	Lower San Joaquin Levee District	\$ 535,000	10	0	10	10	10	10	0	0	50	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Raise Part of Left Bank Levee Unit 6	Lower San Joaquin Levee District	\$ 4,250,000	10	0	10	10	10	10	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	Modernize Electrical Controls, Level Sensors & SCADA for Control Structures	Lower San Joaquin Levee District	\$ 1,885,000	10	10	10	10	10	10	0	10	70	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Enlarge Chowchilla Canal Bypass Control Structure	Lower San Joaquin Levee District	\$ 3,380,000	10	5	10	10	10	10	0	10	65	81	0	0	0	0	0	0	0	0	0	5	0	0	10	0	0	0	15	9	
5A	Rehabilitation of San Joaquin River Control Structure	Lower San Joaquin Levee District	\$ 340,000	10	0	10	10	10	10	0	0	50	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Sediment Removal Chowchilla Canal Bypass Control Structure	Lower San Joaquin Levee District	\$ 175,000	10	0	10	10	10	10	0	0	50	63	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	6	
7	Levee Improvements in Subsidence Area	Lower San Joaquin Levee District	\$ -	10	0	5	10	10	10	10	10	65	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	Sediment Removal in the Eastside Bypass	Lower San Joaquin Levee District	\$ 12,850,000	10	0	10	10	10	10	0	0	50	63	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	6	
9	Sand Slough Control Structure Removal	Lower San Joaquin Levee District	\$ 290,000	5	0	0	0	10	0	0	0	15	19	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	10	6	
10	Gravelly Ford Madera Ranch Recharge Project	Gravelly Ford Water District	\$ 1,970,000	5	10	0	5	0	0	5	5	30	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Flooding Existing Pasture Lands	Gravelly Ford Water District	\$ -	5	10	0	5	0	0	0	5	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Great Valley Grassland State Park (GVGSP) Levee De-Authorization	Great Valley Grassland State Park, Lower San Joaquin Levee District	\$ 4,930,000	5	5	5	10	5	5	0	10	45	56	5	10	5	5	5	10	10	10	0	10	10	10	0	10	10	10	110	69	
13	Bridge Enlargement over Eastside Bypass at Sandy Mush Road	Lower San Joaquin Levee District	\$ 1,610,000	10	0	10	10	10	10	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	Install New Gaging Stations	Lower San Joaquin Levee District	\$ 330,000	10	0	0	10	10	10	0	5	45	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Western Madera and Merced County Subsidence Solution	Red Top and Washington Ave area growers	\$ 19,600,000	5	10	0	10	0	0	10	10	45	56	0	0	0	0	0	0	0	5	0	0	5	0	10	0	0	0	25	16	
16	Los Banos Creek Recharge and Recovery	Central California Irrigation District	\$ 5,000,000	5	10	0	5	0	0	0	5	25	31	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	3	
17	Update San Joaquin River Flood Control Project Operations and Maintenance Manual	Lower San Joaquin Levee District	\$ 500,000	10	10	0	10	5	10	0	0	45	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	Eastside Acres San Joaquin River Levee Project	Madera County	\$ 1,210,000	10	0	5	10	10	5	0	5	45	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	Fresno Slough South Levee Repair and Floodplain Enhancement Project	Fresno Slough Improvement Group	\$ 1,340,000	10	10	10	5	5	5	0	5	50	63	0	10	0	10	10	5	5	5	0	0	10	10	0	10	0	10	85	53	
20	Fresno Slough Sediment Removal	Fresno Slough Improvement Group	\$ 720,000	10	5	10	5	5	0	0	5	40	50	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	6	
21	Upper San Joaquin Sediment Study	Lower San Joaquin Levee District	\$ 100,000	10	5	5	5	5	5	0	5	40	50	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	6		
22	Bear Creek Diversion Channel Feasibility Study	Merced Streams Group	\$ 100,000	10	10	10	10	0	0	0	10	50	63	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	15	9	
23	Le Grande/Planada Flood Control/Conjunctive Use Expansion Study	Merced Irrigation District	\$ 240,000	10	10	10	10	0	5	10	10	65	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	Le Grand Canal Flood Control Structure at Black Rascal Creek	Merced Irrigation District	\$ 490,000	10	10	10	10	10	5	0	10	65	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Bear Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 202,940,000	10	10	10	10	10	0	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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26	Mariposa Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 112,500,000	10	10	10	10	10	0	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Owens Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 8,850,000	10	10	10	10	10	0	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Burns Reservoir Enlargement and Downstream Levee and Channel Improvement	Merced Streams Group	\$ 39,180,000	10	10	10	10	10	0	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Merced Region Programmatic Environmental Impact Report for Stream Bed and Vegetation Control	Merced Streams Group	\$ 300,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Merced County Flood Control District	Merced Streams Group	\$ 100,000	0	0	0	0	0	10	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Black Rascal Creek Flood Control Project	Merced County	\$ 32,980,000	10	10	10	10	10	10	0	10	70	88	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	15	9
32	Construct Ring Levees Around Flood Prone Areas	Merced County	\$ -	10	10	0	10	10	0	0	10	50	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Channel Dredging and/or Vegetation Removal	Merced County	\$ 2,200,000	0	0	5	5	5	5	0	5	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Construct Levees or Channel Widening Projects Along Creeks/Streams in the Region	Merced County	\$ -	10	10	10	10	10	0	0	10	60	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Divert Flood Flows to Agricultural Lands	Merced County	\$ -	10	10	10	10	0	0	0	10	50	63	0	0	0	0	0	0	0	0	10	0	0	5	0	0	0	0	0	15	9	
36	Ecosystem Restoration Along Waterways	Merced County	\$ -	10	10	0	10	0	0	0	10	40	50	10	10	10	10	10	10	10	10	0	0	0	10	0	5	0	10	115	72		
37	Modify Land Use Designations	Merced County	\$ -	0	0	0	10	0	10	0	10	30	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Develop Emergency Response Plans	Merced County	\$ 100,000	0	0	0	5	0	10	0	10	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Increase Public Awareness of Flooding	Merced County	\$ 50,000	0	0	0	5	0	10	0	0	15	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Monitor Creek Water Quality and Storm Drainage Discharges	City of Merced	\$ 100,000	0	0	0	0	0	10	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Update Stormwater Design Standards for the City and Region	City of Merced	\$ 80,000	0	0	0	10	0	10	0	5	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Windmill Ditch Drainage	Merquin County Water District	\$ 1,900,000	5	0	5	5	10	5	0	5	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	McCullough Road Drainage Project	Merquin County Water District	\$ 2,700,000	5	0	5	5	10	5	0	5	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	San Joaquin River Levee at Firebaugh Waste Water Treatment Plant	City of Firebaugh	\$ 1,280,000	10	0	5	10	10	5	0	10	50	63	5	5	0	0	5	10	5	10	0	5	0	10	0	10	0	10	85	53		
45	San Joaquin River Bank Stabilization at Firebaugh	City of Firebaugh	\$ 1,800,000	10	0	5	10	10	5	0	5	45	56	5	5	0	0	5	10	5	10	0	5	0	10	0	10	0	10	85	53		
46	San Joaquin River Levee at Firebaugh Rodeo Grounds	City of Firebaugh	\$ 1,450,000	10	0	5	10	10	5	0	5	45	56	5	5	0	0	5	10	5	10	0	5	0	10	0	10	0	10	85	53		
47	Three Rivers Ranch Study	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	0	10	0	5	0	5	0	5	25	31	5	5	0	0	5	10	5	10	0	5	0	10	0	10	0	10	85	53		
48	Cinnamon Slough Study (Merced Wildlife Refuge)	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	0	10	0	5	0	5	0	5	25	31	5	5	0	0	5	10	5	10	0	5	0	10	0	10	0	10	85	53		
49	Sunrise Ranch Study	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	0	10	0	5	0	5	0	5	25	31	5	5	0	0	5	10	5	10	5	5	0	10	0	10	0	10	90	56		
50	SJRRP Seepage Management Projects	San Joaquin River Restoration Program	\$ 51,000,000	5	5	0	5	5	5	0	5	30	38	5	5	5	5	5	5	5	5	5	5	5	5	0	5	0	0	65	41		
51	Firebaugh Habitat Projects	San Joaquin River Restoration Program	\$ -	5	5	0	5	0	5	0	5	25	31	0	10	5	5	5	10	10	5	10	5	10	0	5	10	0	5	10	10	110	69
52	Levee Improvements in Reach 2A, 3, 4A, Eastside Bypass, Mariposa Bypass, and Reach 5	San Joaquin River Restoration Program	\$ 235,000,000	5	0	5	5	5	5	0	0	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Sediment Removal in Reach 4A and Eastside Bypass	San Joaquin River Restoration Program	\$ -	5	0	5	5	0	0	0	0	15	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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54	Reach 2B/Mendota Pool Bypass	San Joaquin River Restoration Program	\$ 295,000,000	5	5	10	5	10	0	0	35	44	0	5	0	0	5	10	10	0	0	10	5	5	10	5	0	10	75	47	
55	Reach 4B Improvements	San Joaquin River Restoration Program	\$ -	5	5	5	5	5	0	0	25	31	0	0	0	0	5	5	5	0	0	10	5	5	5	5	0	45	28		
56	Reach 2B Project - San Mateo Road Crossing	San Joaquin River Restoration Program	\$ -	5	0	5	5	5	0	0	20	25	0	0	0	0	5	5	5	0	0	5	5	5	5	0	45	28			
57	Fish Passage Improvement at Flood Control Structures	San Joaquin River Restoration Program	\$ -	0	0	0	0	5	0	0	5	6	0	0	0	0	0	0	0	0	0	10	5	5	10	0	30	19			
58	Arroyo Canal Screening and Sack Dam Passage	San Joaquin River Restoration Program	\$ 25,000,000	5	0	0	5	10	0	0	5	25	31	0	0	0	0	0	0	0	0	10	5	5	10	0	35	22			
59	Salt Slough Barrier and Mud Slough Barrier	San Joaquin River Restoration Program	\$ -	0	0	0	0	10	0	0	15	19	0	0	0	0	0	0	0	0	0	10	5	5	5	0	25	16			
60	Modify water intake structures at selected refuge units	San Luis National Wildlife Refuge	\$ 1,540,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
61	San Luis NWR East Bear Creek Unit Install lift pumps to divert water onto 1000 acres of wetland basins during flood flows	San Luis National Wildlife Refuge	\$ 1,260,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
62	San Luis NWR East Bear Creek Unit Restore a wetland swale to divert floodwaters onto 1000 acres of wetland basins during flood flows	San Luis National Wildlife Refuge	\$ 340,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
63	San Luis NWR East Bear Creek Unit Enhance existing wetland depth and configuration to provide additional habitat and flood water storage on approximately 500 acres of wetland basins	San Luis National Wildlife Refuge	\$ 1,150,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
64	San Luis NWR Freitas Unit – restore anabranches of Salt Slough	San Luis National Wildlife Refuge	\$ 50,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
65	San Luis NWR West Bear Creek Unit Restore wetland slough channel connectivity with the San Joaquin River to accommodate flood flows	San Luis National Wildlife Refuge	\$ 354,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
66	Merced NWR Merced Unit Enhance infrastructure to divert flood flows onto 1200 acres of existing wetlands and other refuge lands	San Luis National Wildlife Refuge	\$ 235,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
67	Merced NWR - Modify water intake structures at selected refuge units	San Luis National Wildlife Refuge	\$ 580,000	5	10	0	5	5	5	0	5	35	44	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
68	Merced NWR Sno-Bird Unit – Construct diversions off Eastside Canal	San Luis National Wildlife Refuge	\$ 263,000	0	10	0	5	5	5	0	5	30	38	0	0	0	0	0	10	10	10	10	0	10	10	0	65	41			
69	Ash Slough Arrundo and Channel Cleaning	Madera County	\$ 1,500,000	0	0	0	5	5	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6			
70	Berenda Slough Arrundo and Channel Clearing	Madera County	\$ 1,300,000	0	0	0	5	5	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6			
71	Erosion Repair Project	Madera County	\$ 1,500,000	0	0	0	0	5	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
72	Levee Patrol Road Repair	Madera County	\$ 500,000	0	0	0	0	5	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6				
73	Berenda Creek Arrundo Removal and Channel Clearing	Madera Irrigation District	\$ 500,000	5	0	5	5	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6				
74	Dry Creek Arundo and Channel Clearing	Madera Irrigation District	\$ 500,000	5	0	5	5	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6				
75	Cottonwood Creek Arundo and Channel Clearing	Madera Irrigation District	\$ 500,000	5	0	5	5	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	10	10	6				
76	Madera Irrigation District Water Bank Facility	Madera Irrigation District	\$ 124,000,000	5	10	0	5	5	5	0	10	40	50	0	0	0	0	0	5	0	0	0	0	5	0	10	6				
77	Madera Canal / Hidden Dam Pump Storage Project	Madera Irrigation District	\$ 11,500,000	5	10	0	5	0	5	0	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

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Proposed System Improvements				Public Safety										Environmental Stewardship																				
ID	System Improvement Name	Lead Agency	Estimated Cost	People and Property at Risk (Level of Protection)	Flood System Flexibility/Robustness	Increased Hydraulic Capacity	Flood System Resiliency (Damage Reduction)	Asset Condition	Wise Floodplain Management/Emergency Management (Improved Flood Fighting and Response, information and tools)	Subsidence	Climate Change Adaptability	Public Safety Score - Total	Public Safety Score - Normalized	Increased Flood Inundation - Sustained Spring Flows	Increased Flood Inundation - 2-Year Flows	Increased Riverine Geomorphic Process - River Meander	Increased Riverine Geomorphic Process - Natural Bank	Extension and Continuity of SRA Coverage	Riparian Habitat Coverage	Riparian Habitat Connectivity	Marsh Habitat Coverage	Floodplain Agriculture	Improved Conditions for Threatened and Endangered Target Species - Aquatic (Steelhead, Chinook Fall Run, Chinook Spring Run, Sturgeon)	Improved Conditions for Threatened and Endangered Target Species - Wetlands and Seasonally-Flooded (Delta Button Celery, Slough Thistle, GGS, CA Black Rail, Greater Sandhill Crane)	Improved Conditions for Threatened and Endangered Target Species - Riparian (VELB, Bank Swallow, Least Bell's Vireo, Swainson's Hawk, Yellow Billed Cuckoo, Brush Rabbit, Riparian Woodrat)	Improved Fish Passage	Invasive Plant Management and Prevention	Revetment Removal or Improvement	Levee Relocation or Removal	Environmental Stewardship Score - Total	Environmental Stewardship Score - Normalized			
78	Madera Lake Regulating and Recharge Project	Madera Irrigation District	\$ 3,500,000	5	10	0	5	5	5	0	10	40	50	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	10	6
79	Siphon Extension near Chamberlain Road	Lone Tree Mutual Water Company	\$ 700,000	0	0	10	5	10	0	0	0	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80	Ingomar Reservoir Surface Storage	Central California Irrigation District & San Luis Canal Company	\$ 18,300,000	5	5	0	5	0	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
81	San Joaquin River Invasive Species Management	River Partners and San Joaquin Parkway and Conservation Trust	\$ 2,800,000	0	0	0	5	5	0	0	0	10	13	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	6	
82A	Municipal Well Relocation/ Flood-Proofing in City of Mendota	City of Mendota	\$ 6,431,782	10	0	0	10	10	5	0	0	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
82B	Municipal Well Relocation/ Flood-Proofing in City of Mendota	City of Mendota	\$ 23,110,603	10	0	0	10	10	5	0	0	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
83	Wastewater Treatment Plant Flood Levee in City of Mendota	City of Mendota	\$ 10,885,000	10	0	0	10	10	5	0	0	35	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
84	Mendota Pool Park Flood Protection	City of Mendota	\$ 1,737,000	5	0	0	10	10	5	0	0	30	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
85	Camp 13 Area Surface Storage	Central California Irrigation District & San Luis Canal Company	\$ 44,000,000	5	5	0	5	0	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
86	Orestimba Creek Recharge & Recovery Project	Central California Irrigation District & San Luis Canal Company	\$ 8,200,000	5	5	0	5	0	5	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Proposed System Improvements				Economic Stability										Regional Issues										Project Score:		
ID	System Improvement Name	Lead Agency	Estimated Cost	Compliance with PL 84-99	Reduced Liability	Protect Critical Infrastructure or Resource	Protection of Farmlands of Statewide Significance	Groundwater Recharge	Improved O&M	Agency Funding	IWM System improvement (Multibenefit)	Economic Stability Score - Total	Economic Stability Score - Normalized	Within the SPFC Boundaries	Services or Protects Small Communities or DAC	Provides Recreational Benefit	Services or Protects Tribes	Improved Governance	Systemwide Benefits	SPFC Facility	Compatibility with SJRRP	Public Awareness	Self-Mitigating System Improvement (Canal Land O&M)	Regional Issues Score - Total	Regional Issues Score - Normalized	Public Safety (40%), Environmental Stewardship (25%), Economic Stability (25%), Regional Issues (10%)
1	Bear Creek Diversion Structure	Lower San Joaquin Levee District	\$ 260,000	10	10	0	10	0	10	0	5	45	56	10	10	0	0	0	5	5	0	0	5	35	35	48
2	Levee Breaches Unit 1, LM 9.90 ; Unit 5, LM 0.25	Lower San Joaquin Levee District	\$ 535,000	10	10	0	10	0	10	0	5	45	56	10	10	0	0	0	5	10	0	0	5	40	40	43
3	Raise Part of Left Bank Levee Unit 6	Lower San Joaquin Levee District	\$ 4,250,000	10	10	0	5	0	10	0	5	40	50	10	5	0	0	0	10	10	5	0	0	40	40	47
4	Modernize Electrical Controls, Level Sensors & SCADA for Control Structures	Lower San Joaquin Levee District	\$ 1,885,000	0	10	10	10	0	10	0	0	40	50	10	10	0	0	0	10	10	5	0	5	50	50	53
5	Enlarge Chowchilla Canal Bypass Control Structure	Lower San Joaquin Levee District	\$ 3,380,000	0	10	10	10	0	10	0	5	45	56	10	10	0	0	0	5	10	10	0	5	50	50	54
5A	Rehabilitation of San Joaquin River Control Structure	Lower San Joaquin Levee District	\$ 340,000	10	10	10	10	0	10	0	0	50	63	10	10	0	0	0	5	10	10	0	5	50	50	46
6	Sediment Removal Chowchilla Canal Bypass Control Structure	Lower San Joaquin Levee District	\$ 175,000	10	5	10	10	0	10	0	0	45	56	10	10	0	0	0	5	10	10	0	5	50	50	46
7	Levee Improvements in Subsidence Area	Lower San Joaquin Levee District	\$ -	10	10	10	5	0	10	0	0	45	56	10	10	0	0	0	5	10	10	5	0	50	50	52
8	Sediment Removal in the Eastside Bypass	Lower San Joaquin Levee District	\$ 12,850,000	10	5	10	10	0	10	0	0	45	56	10	10	0	0	0	5	5	10	0	5	45	45	45
9	Sand Slough Control Structure Removal	Lower San Joaquin Levee District	\$ 290,000	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	5	10	0	5	30	30	12
10	Gravelly Ford Madera Ranch Recharge Project	Gravelly Ford Water District	\$ 1,970,000	0	0	0	0	10	0	0	10	20	25	10	0	0	0	0	0	5	5	0	0	20	20	23
11	Flooding Existing Pasture Lands	Gravelly Ford Water District	\$ -	0	0	0	0	10	0	0	5	15	19	10	5	0	0	0	10	5	5	0	10	45	45	22
12	Great Valley Grassland State Park (GVGSP) Levee De-Authorization	Great Valley Grassland State Park, Lower San Joaquin Levee District	\$ 4,930,000	10	10	0	0	0	10	0	10	40	50	10	5	10	0	0	5	10	10	0	10	60	60	58
13	Bridge Enlargement over Eastside Bypass at Sandy Mush Road	Lower San Joaquin Levee District	\$ 1,610,000	10	10	10	10	0	10	0	5	55	69	10	10	0	0	0	10	10	5	0	10	55	55	53
14	Install New Gaging Stations	Lower San Joaquin Levee District	\$ 330,000	5	10	10	10	0	0	0	5	40	50	10	10	0	0	0	10	10	5	5	5	55	55	41
15	Western Madera and Merced County Subsidence Solution	Red Top and Washington Ave area growers	\$ 19,600,000	5	10	5	10	10	0	0	10	50	63	10	0	0	0	10	5	10	10	10	10	65	65	49
16	Los Banos Creek Recharge and Recovery	Central California Irrigation District	\$ 5,000,000	5	0	5	5	10	0	0	10	35	44	0	5	0	0	0	0	0	0	0	10	15	15	26
17	Update San Joaquin River Flood Control Project Operations and Maintenance Manual	Lower San Joaquin Levee District	\$ 500,000	10	10	10	10	0	10	0	0	50	63	10	0	0	0	10	10	10	0	10	0	50	50	43
18	Eastside Acres San Joaquin River Levee Project	Madera County	\$ 1,210,000	5	10	0	0	0	5	0	0	20	25	10	10	0	0	0	5	0	10	0	0	35	35	32
19	Fresno Slough South Levee Repair and Floodplain Enhancement Project	Fresno Slough Improvement Group	\$ 1,340,000	0	10	10	10	0	5	0	5	40	50	10	5	0	0	0	10	0	0	5	5	35	35	54
20	Fresno Slough Sediment Removal	Fresno Slough Improvement Group	\$ 720,000	0	10	5	0	0	5	0	5	25	31	10	5	0	0	0	10	0	0	0	5	30	30	32
21	Upper San Joaquin Sediment Study	Lower San Joaquin Levee District	\$ 100,000	10	10	10	10	0	5	0	5	50	63	10	10	0	0	0	10	10	10	5	5	60	60	43
22	Bear Creek Diversion Channel Feasibility Study	Merced Streams Group	\$ 100,000	10	10	10	10	0	10	0	5	55	69	10	10	0	0	0	10	10	0	5	10	55	55	50
23	Le Grande/Planada Flood Control/Conjunctive Use Expansion Study	Merced Irrigation District	\$ 240,000	5	10	10	10	10	10	0	10	65	81	5	10	0	0	0	10	10	0	5	10	50	50	58
24	Le Grand Canal Flood Control Structure at Black Rascal Creek	Merced Irrigation District	\$ 490,000	10	10	10	10	0	10	0	10	60	75	5	10	0	0	0	10	10	0	5	10	50	50	56
25	Bear Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 202,940,000	10	10	10	10	0	0	0	10	50	63	5	10	0	0	0	10	10	0	5	10	50	50	51

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Proposed System Improvements				Economic Stability										Regional Issues										Project Score: Public Safety (40%), Environmental Stewardship (25%), Economic Stability (25%), Regional Issues (10%)		
ID	System Improvement Name	Lead Agency	Estimated Cost	Compliance with PL 84-99	Reduced Liability	Protect Critical Infrastructure or Resource	Protection of Farmlands of Statewide Significance	Groundwater Recharge	Improved O&M	Agency Funding	IWM System Improvement (Multibenefit)	Economic Stability Score - Total	Economic Stability Score - Normalized	Within the SPFC Boundaries	Services or Protects Small Communities or DAC	Provides Recreational Benefit	Services or Protects Tribes	Improved Governance	Systemwide Benefits	SPFC Facility	Compatibility with SJRRP	Public Awareness	Self-Mitigating System Improvement (Capital Land O&M)		Regional Issues Score - Total	Regional Issues Score - Normalized
26	Mariposa Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 112,500,000	10	10	10	10	0	0	0	10	50	63	5	10	0	0	0	10	10	0	5	10	50	50	51
27	Owens Reservoir Enlargement and Downstream Levee and Channel Improvements	Merced Streams Group	\$ 8,850,000	10	10	5	10	0	0	0	10	45	56	5	10	0	0	0	10	10	0	5	10	50	50	49
28	Burns Reservoir Enlargement and Downstream Levee and Channel Improvement	Merced Streams Group	\$ 39,180,000	10	10	10	10	0	0	0	10	50	63	5	10	0	0	0	10	10	0	5	10	50	50	51
29	Merced Region Programmatic Environmental Impact Report for Stream Bed and Vegetation Control	Merced Streams Group	\$ 300,000	5	5	0	0	0	5	0	5	20	25	0	0	0	0	0	0	5	0	0	0	5	5	7
30	Merced County Flood Control District	Merced Streams Group	\$ 100,000	5	0	0	0	0	0	5	5	15	19	10	10	0	0	10	10	5	0	5	5	55	55	15
31	Black Rascal Creek Flood Control Project	Merced County	\$ 32,980,000	10	10	10	10	0	0	0	10	50	63	10	10	0	0	0	10	10	0	5	10	55	55	58
32	Construct Ring Levees Around Flood Prone Areas	Merced County	\$ -	5	10	10	10	0	0	0	5	40	50	5	10	0	0	0	5	5	0	0	0	25	25	40
33	Channel Dredging and/or Vegetation Removal	Merced County	\$ 2,200,000	10	10	5	5	0	0	0	5	35	44	10	10	0	0	0	5	5	0	0	5	35	35	27
34	Construct Levees or Channel Widening Projects Along Creeks/Streams in the Region	Merced County	\$ -	10	10	10	10	0	0	0	5	45	56	5	10	0	0	0	5	5	0	5	5	35	35	48
35	Divert Flood Flows to Agricultural Lands	Merced County	\$ -	5	10	10	10	10	0	0	10	55	69	5	5	0	0	0	5	5	0	5	10	35	35	48
36	Ecosystem Restoration Along Waterways	Merced County	\$ -	0	0	5	5	5	0	0	5	20	25	5	5	0	0	0	5	5	0	5	10	35	35	48
37	Modify Land Use Designations	Merced County	\$ -	5	10	10	0	0	0	0	5	30	38	10	5	0	0	0	5	10	0	10	5	45	45	29
38	Develop Emergency Response Plans	Merced County	\$ 100,000	5	10	10	0	0	0	0	5	30	38	10	10	0	0	10	10	10	0	10	5	65	65	28
39	Increase Public Awareness of Flooding	Merced County	\$ 50,000	0	0	10	0	0	0	0	5	15	19	10	5	0	0	0	5	0	0	10	5	35	35	16
40	Monitor Creek Water Quality and Storm Drainage Discharges	City of Merced	\$ 100,000	0	0	0	0	0	5	0	5	10	13	10	0	0	0	0	0	5	0	0	5	20	20	10
41	Update Stormwater Design Standards for the City and Region	City of Merced	\$ 80,000	5	10	0	0	0	5	0	0	20	25	10	10	0	0	5	5	10	0	0	5	45	45	23
42	Windmill Ditch Drainage	Merquin County Water District	\$ 1,900,000	5	5	0	10	0	0	0	0	20	25	0	5	0	0	0	0	0	0	0	5	10	10	25
43	McCullough Road Drainage Project	Merquin County Water District	\$ 2,700,000	5	5	0	10	0	0	0	5	25	31	5	5	0	0	0	0	0	0	0	5	15	15	27
44	San Joaquin River Levee at Firebaugh Waste Water Treatment Plant	City of Firebaugh	\$ 1,280,000	5	10	10	10	0	5	0	5	45	56	10	10	10	0	0	5	5	10	0	0	50	50	57
45	San Joaquin River Bank Stabilization at Firebaugh	City of Firebaugh	\$ 1,800,000	5	10	10	10	0	5	0	5	45	56	10	10	10	0	0	5	5	10	0	0	50	50	55
46	San Joaquin River Levee at Firebaugh Rodeo Grounds	City of Firebaugh	\$ 1,450,000	5	10	10	10	0	5	0	5	45	56	10	10	10	0	0	5	5	10	0	0	50	50	55
47	Three Rivers Ranch Study	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	5	0	0	10	5	0	0	10	30	38	10	0	10	0	0	5	0	10	0	10	45	45	40
48	Cinnamon Slough Study (Merced Wildlife Refuge)	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	5	0	0	10	5	0	0	10	30	38	10	0	10	0	0	5	0	10	0	10	45	45	40
49	Sunrise Ranch Study	3F Group (Trout Unlimited, Ducks Unlimited, and American Rivers)	\$ 100,000	5	0	0	10	5	0	0	10	30	38	10	0	10	0	0	5	0	10	0	10	45	45	40
50	SJRRP Seepage Management Projects	San Joaquin River Restoration Program	\$ 51,000,000	5	5	10	5	0	0	0	5	30	38	10	10	0	0	0	5	10	10	0	0	45	45	39
51	Firebaugh Habitat Projects	San Joaquin River Restoration Program	\$ -	0	0	0	0	5	0	0	5	10	13	10	10	0	0	0	10	10	10	0	10	60	60	39
52	Levee Improvements in Reach 2A, 3, 4A, Eastside Bypass, Mariposa Bypass, and Reach 5	San Joaquin River Restoration Program	\$ 235,000,000	10	10	10	10	0	10	0	5	55	69	10	10	0	0	10	5	10	10	0	10	65	65	36
53	Sediment Removal in Reach 4A and Eastside Bypass	San Joaquin River Restoration Program	\$ -	5	0	0	0	0	5	0	5	15	19	10	0	0	0	0	5	10	10	0	10	45	45	17

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Proposed System Improvements				Economic Stability										Regional Issues										Project Score: Public Safety (40%), Environmental Stewardship (25%), Economic Stability (25%), Regional Issues (10%)		
ID	System Improvement Name	Lead Agency	Estimated Cost	Compliance with PL 84-99	Reduced Liability	Protect Critical Infrastructure or Resource	Protection of Farmlands of Statewide Significance	Groundwater Recharge	Improved O&M	Agency Funding	IWM System improvement (Multibenefit)	Economic Stability Score - Total	Economic Stability Score - Normalized	Within the SPFC Boundaries	Services or Protects Small Communities or DAC	Provides Recreational Benefit	Services or Protects Tribes	Improved Governance	Systemwide Benefits	SPFC Facility	Compatibility with SJRRP	Public Awareness	Self-Mitigating System Improvement (Capital Land O&M)		Regional Issues Score - Total	Regional Issues Score - Normalized
54	Reach 2B/Mendota Pool Bypass	San Joaquin River Restoration Program	\$ 295,000,000	0	5	0	0	0	5	0	5	15	19	10	0	0	0	0	5	5	10	5	10	45	45	38
55	Reach 4B Improvements	San Joaquin River Restoration Program	\$ -	0	5	0	0	0	5	0	5	15	19	10	0	0	0	0	5	5	10	5	10	45	45	29
56	Reach 2B Project - San Mateo Road Crossing	San Joaquin River Restoration Program	\$ -	0	5	5	5	0	0	0	5	20	25	10	5	0	0	0	0	0	10	0	10	35	35	27
57	Fish Passage Improvement at Flood Control Structures	San Joaquin River Restoration Program	\$ -	5	0	0	0	0	0	0	5	10	13	10	0	0	0	0	5	10	10	0	10	45	45	15
58	Arroyo Canal Screening and Sack Dam Passage	San Joaquin River Restoration Program	\$ 25,000,000	5	0	0	5	0	0	0	10	20	25	10	0	0	0	0	5	10	10	0	10	45	45	29
59	Salt Slough Barrier and Mud Slough Barrier	San Joaquin River Restoration Program	\$ -	5	0	0	0	0	0	0	5	10	13	10	0	0	0	0	0	0	10	0	10	30	30	18
60	Modify water intake structures at selected refuge units	San Luis National Wildlife Refuge	\$ 1,540,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
61	San Luis NWR East Bear Creek Unit Install lift pumps to divert water onto 1000 acres of wetland basins during flood flows	San Luis National Wildlife Refuge	\$ 1,260,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
62	San Luis NWR East Bear Creek Unit Restore a wetland swale to divert floodwaters onto 1000 acres of wetland basins during flood flows	San Luis National Wildlife Refuge	\$ 340,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
63	San Luis NWR East Bear Creek Unit Enhance existing wetland depth and configuration to provide additional habitat and flood water storage on approximately 500 acres of wetland basins	San Luis National Wildlife Refuge	\$ 1,150,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
64	San Luis NWR Freitas Unit – restore anabranches of Salt Slough	San Luis National Wildlife Refuge	\$ 50,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
65	San Luis NWR West Bear Creek Unit Restore wetland slough channel connectivity with the San Joaquin River to accommodate flood flows	San Luis National Wildlife Refuge	\$ 354,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
66	Merced NWR Merced Unit Enhance infrastructure to divert flood flows onto 1200 acres of existing wetlands and other refuge lands	San Luis National Wildlife Refuge	\$ 235,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
67	Merced NWR - Modify water intake structures at selected refuge units	San Luis National Wildlife Refuge	\$ 580,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	40
68	Merced NWR Sno-Bird Unit – Construct diversions off Eastside Canal	San Luis National Wildlife Refuge	\$ 263,000	5	5	5	5	0	0	0	5	25	31	10	0	5	0	0	10	10	0	0	10	45	45	37
69	Ash Slough Arrundo and Channel Cleaning	Madera County	\$ 1,500,000	10	10	0	0	0	10	0	5	35	44	10	0	0	0	0	0	5	0	0	0	15	15	19
70	Berenda Slough Arrundo and Channel Clearing	Madera County	\$ 1,300,000	10	10	0	0	0	10	0	5	35	44	10	0	0	0	0	0	5	0	0	0	15	15	19
71	Erosion Repair Project	Madera County	\$ 1,500,000	10	10	0	0	0	10	0	0	30	38	10	0	0	0	0	0	5	0	0	0	15	15	13
72	Levee Patrol Road Repair	Madera County	\$ 500,000	10	10	0	0	0	10	0	0	30	38	10	0	0	0	0	0	5	0	0	5	20	20	15
73	Berenda Creek Arrundo Removal and Channel Clearing	Madera Irrigation District	\$ 500,000	10	10	0	0	0	10	0	0	30	38	10	0	0	0	0	0	5	0	0	5	20	20	23
74	Dry Creek Arundo and Channel Clearing	Madera Irrigation District	\$ 500,000	10	10	0	0	0	10	0	0	30	38	10	0	0	0	0	0	5	0	0	5	20	20	23
75	Cottonwood Creek Arundo and Channel Clearing	Madera Irrigation District	\$ 500,000	10	10	0	0	0	10	0	0	30	38	10	0	0	0	0	0	5	0	0	5	20	20	23
76	Madera Irrigation District Water Bank Facility	Madera Irrigation District	\$ 124,000,000	5	10	0	10	10	0	0	5	40	50	10	0	0	0	0	10	0	0	0	10	30	30	37
77	Madera Canal / Hidden Dam Pump Storage Project	Madera Irrigation District	\$ 11,500,000	5	10	0	0	5	0	0	0	20	25	0	0	0	0	0	0	0	0	0	0	0	0	19

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Proposed System Improvements				Economic Stability										Regional Issues												
ID	System Improvement Name	Lead Agency	Estimated Cost	Compliance with PL 84-99	Reduced Liability	Protect Critical Infrastructure or Resource	Protection of Farmlands of Statewide Significance	Groundwater Recharge	Improved O&M	Agency Funding	IWM System improvement (Multibenefit)	Economic Stability Score - Total	Economic Stability Score - Normalized	Within the SPFC Boundaries	Services or Protects Small Communities or DAC	Provides Recreational Benefit	Services or Protects Tribes	Improved Governance	Systemwide Benefits	SPFC Facility	Compatibility with SJRRP	Public Awareness	Self-Mitigating System improvement (Capital Land O&M)	Regional Issues Score - Total	Regional Issues Score - Normalized	Project Score: Public Safety (40%), Environmental Stewardship (25%), Economic Stability (25%), Regional Issues (10%)
78	Madera Lake Regulating and Recharge Project	Madera Irrigation District	\$ 3,500,000	5	10	0	10	10	0	0	10	45	56	10	0	0	0	0	5	0	0	0	10	25	25	38
79	Siphon Extension near Chamberlain Road	Lone Tree Mutual Water Company	\$ 700,000	5	0	0	0	0	10	0	0	15	19	10	0	0	0	0	5	5	5	0	5	30	30	20
80	Ingomar Reservoir Surface Storage	Central California Irrigation District & San Luis Canal Company	\$ 18,300,000	0	5	5	5	5	0	0	10	30	38	0	5	0	0	0	5	0	0	0	0	10	10	20
81	San Joaquin River Invasive Species Management	River Partners and San Joaquin Parkway and Conservation Trust	\$ 2,800,000	10	0	0	0	0	10	0	5	25	31	10	0	0	0	0	5	5	10	0	5	35	35	18
82A	Municipal Well Relocation/ Flood-Proofing in City of Mendota	City of Mendota	\$ 6,431,782	5	10	10	0	0	5	0	5	35	44	10	10	0	0	0	0	0	5	0	5	30	30	31
82B	Municipal Well Relocation/ Flood-Proofing in City of Mendota	City of Mendota	\$ 23,110,603	5	10	10	0	0	5	0	5	35	44	10	10	0	0	0	0	0	5	0	5	30	30	31
83	Wastewater Treatment Plant Flood Levee in City of Mendota	City of Mendota	\$ 10,885,000	5	10	10	0	0	5	0	5	35	44	10	10	0	0	0	0	0	5	0	5	30	30	31
84	Mendota Pool Park Flood Protection	City of Mendota	\$ 1,737,000	5	10	0	0	0	5	0	5	25	31	10	10	10	0	0	0	0	5	0	5	40	40	27
85	Camp 13 Area Surface Storage	Central California Irrigation District & San Luis Canal Company	\$ 44,000,000	0	5	5	5	5	0	0	10	30	38	0	5	0	0	0	5	0	0	0	0	10	10	20
86	Orestimba Creek Recharge & Recovery Project	Central California Irrigation District & San Luis Canal Company	\$ 8,200,000	0	5	5	5	5	0	0	10	30	38	0	5	0	0	0	5	0	0	0	0	10	10	20

Note:
0 - No Change
5 - Incremental Change
10 - Significant Change