



MEETING NOTES

Project Name:	<u>MUSR RFMP</u>	Date:	<u>1/23/2014</u>
Meeting Subject:	<u>Small Communities Workgroup</u>	Project No.:	<u></u>
Location:	<u>Western Canal W.D., Nelson, CA</u>	Page:	<u>1</u>
Notes by:	<u>Chris Fritz, PBI; Barry O'Regan KSN</u>		

Attendees: See attached sign-in sheet _____

Notable Discussion Items:

- 1) Introductions
- 2) RFMP Approach and Meeting Purpose
- 3) Small Communities Topic Statement (see attached)
 - No comments.
- 4) Small Community Conceptual Planning
 - The following handouts were provided:
 - Summary of FloodSAFE Programs (see attached).
 - 2012 CVFPP Summary of Small Community characteristics and costs (see attached).
 - Example conceptual plan figure.
 - Discussion regarding DWR's upcoming Small Community Grant
 - Small communities need help with the preparation of grant applications and grant administration.
 - Many small communities do not have the organizational structure in place for managing grant work.
 - Draft grant guidelines are scheduled to be released in April of 2014.
 - The RFMP should reassess the definition of small community; Glenn and Ord Bend may be better defined as a rural area.
 - Small community solution for Richvale: Focus on repairing the Cherokee Canal West Bank levee (adjacent to Richvale) and fixing the low spot at Richvale Road. If overtopping ever occurs it will occur along the levee section which currently protects the small community of Richvale.
 - If possible MUSR RFMP should document cost for small communities to get to a 100-Year level of flood protection.
 - Non structural methods for flood risk reduction should be investigated.
 - Investigate USDA and FEMA Hazard mitigation grant in the RFMP Financial Plan.

Action Items:

- Develop draft Small Communities chapter of the RFMP and send it out for workgroup review and feedback (PBI)



REGIONAL FLOOD MANAGEMENT PLAN

SIGN-IN SHEET

Small Communities Workgroup Meeting

Date: January 23, 2014

	PRINTED NAME	AGENCY (IF APPLICABLE)	EMAIL	PHONE NUMBER
1	CASSANDRA NGUYEN MUSTO	DWP. DIV FLOOD MGMT. FMO	cassandra.musto@water.ca.gov	(916) 574-0363
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8	Brian Boen	URS	brian.boen@urs.com	(916)
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13	Robin McCullum	"		530-354-6337
14	Jame Idan			
15	Susan Stradhan			
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Small Communities Workgroup

The 2012 Central Valley Flood Protection Plan (CVFPP) has identified the goal of providing 100-year protection to small communities, where feasible. The Small Communities Workgroup will focus on helping the RFMP team identify the feasibility of achieving 100-year level-of-protection standards for small communities within the region.

Small communities are defined as developed areas with fewer than 10,000 residents. Because small communities do not fall in the category of urban or urbanizing areas (10,000 or more residents, currently or within the next 10 years), they are not required to meet the Senate Bill 5 State-mandated 200-year level of protection requirements for urban areas. However, recent legislative changes imposed upon the Federal Emergency Management Agency (FEMA), via the Biggert-Waters Flood Insurance Reform Act of 2012, will increase the rates of flood insurance for properties that do not meet FEMA standards for 100-year level of protection. These increases in rates may prompt small communities to reassess their costs and benefits for achieving or maintaining a 100-year level of protection.

The Workgroup will also help the RFMP team examine and review the various small community solutions proposed in the 2012 Central Valley Flood Protection Plan (CVFPP). In many cases the CVFPP proposes a ring levee as a first alternative to remedy flood inundation in the community. The cost of improving an adjacent system levee along with the required new levee to enclose the community may be very high relative to the population protected. Therefore, ring levees may not prove to be the most effective solution to the problem of flood inundation. Other, more simple and direct ways to address flood local problems must be envisioned and brought into the discussion.

Program	Scope	Elements						Contact Person	Area		
		Study	Land Acquisition	Design	Construction	Material Acquisition	Program Enhancement		Central Valley	Outside of Central Valley	Legal Delta
Early Implementation (EIP)	Repair and improve urban levees to 200-year level of protection, and repair non-urban levees to 1955/57 standard		●	●	●	●		Kelly Fucciolo Kelly.Fucciolo@water.ca.gov (916) 574-0918	●		
Flood Control Subventions (FCSP)	Cost Share with locals towards capital cost of non-SPFC USACE projects construction (acquisition of land, easement, right of way, relocation and disposal)		●	●				Nahideh Madankar Nahideh.Madankar@water.ca.gov (916) 574-1459	●	●	●
Flood Corridor (FCP)	Non-structural flood risk reduction projects containing ecosystem and/or agricultural land conservation components		●	●	●			David Wright David.Wright@water.ca.gov (916) 574-1191	●	●	●
Local Levee Assistance (LLAP)	Evaluation of levees and critical repair and improvement of levees	●		●	●			David Wright David.Wright@water.ca.gov (916) 574-1191		●	
USACE/CVFPB Projects	Cost share with USACE on SPFC USACE projects		●	●	●			Wilbur Huang Wilbur.Huang@water.ca.gov (916) 574-0275	●		●
USACE/CVFPB Studies	Cost share with USACE on SPFC USACE studies	●						Bob Scarborough Robert.Scarborough@water.ca.gov (916) 574-1422	●		●
Yuba Feather Flood Protection (YFFPP)	Evaluation of levees, design of flood structures, critical repair and improvement of levees within the Yuba Feather River Systems and Collusa Basin	●	●	●	●			David Wright David.Wright@water.ca.gov (916) 574-1191	●		
Small Community Flood Risk Reduction (SCFRR)	Repair small community levees to 100-year level of protection	●		●	●			Constantin Mercea Constantin.Mercea@water.ca.gov (916) 574-1429	●		●
Systemwide Flood Risk Reduction (SWFRR)	Implement recommendations of Basin-wide Feasibility Studies	●	●	●	●			Constantin Mercea Constantin.Mercea@water.ca.gov (916) 574-1429	●		●
Urban Flood Risk Reduction (UFRR)	Repair and improve urban levees to 200-year level of protection	●	●	●	●			Kelly Fucciolo Kelly.Fucciolo@water.ca.gov (916) 574-0918	●		●
Flood System Repair Project (FSRP)	Evaluate (feasibility), design, and construct repairs of non-rurban SPFC Facility (levees, channels, structures, etc.) deficiencies			●	●			Ran Singh Ran.Singh@water.ca.gov (916) 574-2644	●		●
Flood ER - DeltaER	Provide support for local EAP's, and Fund communications equipment to further interoperability							Pat Clark Patricia.Clark@water.ca.gov (916) 574-1249	●		●
Flood ER - Forecast-Coordinate Operations	To further participation of reservoir operators (affecting CV) in the F-CO program, especially in obtaining necessary decision support system tools & equipment and field measuring equipment	●	●	●	●			Boone Lek Boone.Lek@water.ca.gov (916) 574-2633	●		●
Flood ER - Statewide ER Grants	Provide support for local EAP's or related Flood preparedness and response activities							Pat Clark Patricia.Clark@water.ca.gov (916) 574-1249	●	●	●

Table D-3-1. Summary of Small Community Characteristics and Cost Estimates

Community Name	2007 Total Population	Flood Threat Level ¹	First Cost	Total Owners Cost	Total Levee Miles	Type of Levee Improvement		Cost Curve Applied ²
						Fix Existing Levee	New Levee	
Knights Landing	1,776	A	\$30,689,566	\$7,408,413	2.81	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Grayson	1,172	A	\$2,929,545	\$792,909	0.70	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Isleton	831	A	\$45,893,744	\$16,136,223	5.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walnut Grove	811	A	\$69,176,968	\$23,085,452	10.40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Meridian	756	A	\$18,790,261	\$6,711,266	1.85	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Courtland	695	A	\$13,572,900	\$4,678,733	8.62	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Robbins	367	A	\$30,768,589	\$12,669,419	2.25	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hood	212	A	\$30,169,271	\$11,427,562	1.77	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Firebaugh	6,178	B	\$30,918,288	\$9,302,383	7.73	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Colusa	5,574	B	\$54,053,821	\$12,044,135	5.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Durham	5,445	B	\$50,000,000	\$30,355,093	13.69	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rio Vista	5,255	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wheatland	2,476	B	\$173,483,949	\$33,658,506	15.95	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gerber-Las Flores	1,524	B	\$23,420,910	\$2,449,337	3.95	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Glenn	1,436	B	\$11,575,248	\$4,766,279	1.92	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clarksburg	1,401	B	\$33,583,420	\$8,493,592	3.36	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tranquility	849	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Verona	585	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Grimes	516	B	\$6,259,914	\$1,120,875	1.38	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Princeton	489	B	\$42,476,797	\$10,157,545	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Butte City	291	B	\$6,217,933	\$1,811,935	1.47	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dos Palos/ South Dos Palos	6,706	C	\$89,885,219	\$19,889,529	22.95	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Protected by SFC

Table D-3-1. Summary of Small Community Characteristics and Cost Estimates (contd.)

Community Name	2007 Total Population	Flood Threat Level ¹	First Cost	Total Owners Cost	Total Levee Miles	Type of Levee Improvement		Cost Curve Applied ²
						Fix Existing Levee	New Levee	
Biggs	1,959	C	\$90,323,215	\$21,252,521	9.22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Upper Lake	963	C	\$75,217,182	\$15,027,239	5.28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nicolaus	211	A	\$46,537,135	\$14,035,214	4.29	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Friant	530	A	\$41,373,898	\$17,036,311	1.38	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mendota	8,558	B	\$38,382,737	\$15,804,656	6.45	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bethel Island	2,624	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chester	2,366	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Los Molinos	2,068	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hamilton City	1,885	B	\$58,407,219	\$24,050,031	3.15	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thornton	1,467	B	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tehama	443	B	\$20,597,310	\$3,048,821	3.86	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Byron	1,040	C	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Knightsen	913	C	\$32,730,207	\$8,569,092	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Protected by SPFC

Not Protected by SPFC³

Notes:

1 A = flood frequency > 1% per year, flooding depths > 3 feet.; B = flood frequency > 1% per year, flooding depths < 3 feet, < 2 miles from flood source; C = flood frequency > 1% per year, flooding depths < 3 feet, > 2 miles from flood source.

2 Costs for communities lacking specific flood location and flood depth data were estimated parametrically based on communities of similar size and threat level.

3 Non-SPFC costs are not included in the SSIA of the CVFMP. Communities were assessed 100-year protection costs, but are not part of the proposed SPFC total costs.

Key:

Shading =

= No

= Yes

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SPFC = State Plan of Flood Control