TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000001	15	Lower Rio Grande	Bayiew Action #19	Upgrade the Town's website to include local information on hazards, risks, mitigation, protective actions, and applicable ordinances	15,000009, 15000010, 15000013, 15000014, 15000015, 15000016	Cameron	13090001,13090001	130900011112,130900011502		Flood Measurement and Warning	1.00	Local	City of Bayview	City of Bayview	Yes	$ 10,000	$ 1,000	HMGP: Local funding	0.00	0.01	1	0	1	0	0	0	0	1
152000002	15	Lower Rio Grande	Bayiew Action #7	Approve and Adopt FEMA Flood Insurance Rate Maps	15000019, 15000020	Cameron	13090001	130900011502		Regulatory and Guidance	1.00	Local	City of Bayview	City of Bayview	Yes	$ 1,000	$ 1,000	local Funding	0.07	0.00	97	81	377	0	11	0	1	0
152000003	15	Lower Rio Grande	Bayiew Action #8	Develop cooperative agreement with state and county to address flood risk to roadways leading in and out of town – outside of jurisdictional boundaries	15000005, 15000006	Cameron	13090001	130900011109		Regulatory and Guidance	1.00	Local	City of Bayview	City of Bayview	Yes	$ 1,000	$ 1,000	local Funding	0.39	0.11	629	463	2519	0	104	0	8	8
152000004	15	Lower Rio Grande	Bayiew Action #9	Participate in the National Flood Insurance Program	15000023, 15000024	Cameron	13090001,13090001,13090001,13090001,13090001	130900011108,130900011109,130900011110,130900011112,130900011502		Regulatory and Guidance	1.00	Local	City of Bayview	City of Bayview	Yes	$ 1,000	$ 1,000	local Funding	10.36	0.96	1233	802	5035	0	371	0	33	2352
152000005	15	Lower Rio Grande	Indian Lake Action #2	Educate property owners about residential mitigation measures for all natural hazards such as the need to elevate structures, implementing residential mitigation measures, install retaining walls, and avoid building in high hazard areas	15000037, 15000038	Cameron	12110208,12110208	121102080800,121102080900,121102081000		Education and Outreach	1.00	Local	City of Bayview	City of Bayview	Yes	$ 500	$ 1,000	General Fund; HMGP	0.50	1.13	1162	1099	2130	0	60	0	14	17
152000006	15	Lower Rio Grande	Brownsville PUB Action #8	Develop program to annually remove buildup of silt in area Resacas that become cutoff from the river and contribute to flooding during severe flood or hurricane event	15000005, 15000006	Cameron	12110208	121102080500		Regulatory and Guidance	1.00	Local	City of Brownsville	City of Brownsville	Yes	$ 20,000	$ 1,000	grants	0.02	0.02	5	0	0	0	0	0	0	13
152000007	15	Lower Rio Grande	City of Brownsville Action #2	Join the Community Rating System program to reduce risk and flood insurance premiums to residents	15000027, 15000028	Cameron	12110208	121102080900		Regulatory and Guidance	1.00	Local	City of Brownsville	City of Brownsville	Yes	$ 100,000	$ 1,000	Local Revenue, Storm water fee	0.08	0.14	469	357	4213	0	68	0	7	1
152000008	15	Lower Rio Grande	Indian Lake Action #11	Adopt revised floodplain ordinance to include model ordinance language and higher NFIP standards such as freeboard	15000025, 15000026	Cameron	12110208	121102080400		Regulatory and Guidance	1.00	Local	City of Indian Lakes	City of Indian Lakes	Yes	$ 500	$ 1,000	General Fund; HMGP	0.01	0.00	3	0	20	0	4	0	0	0
152000009	15	Lower Rio Grande	Indian Lake Action #9	Prepare and advertise local evacuation plan and procedures	15000013, 15000014	Hidalgo	12110208	121102080600		Education and Outreach	1.00	Local	City of Indian Lakes	City of Indian Lakes	Yes	$ 500	$ 1,000	General Fund; HMGP; FEMA AFG	0.03	0.19	248	202	811	0	46	0	4	31
152000010	15	Lower Rio Grande	Port Isabel Action #10	Prepare local evacuation plan	15000013, 15000014	Hidalgo	12110208	121102080900		Education and Outreach	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 500	$ 1,000	HMGP; General Fund; AFG	0.04	0.08	207	196	535	0	3	0	3	24
152000011	15	Lower Rio Grande	Port Isabel Action #11	Update floodplain management ordinances to include higher standards required to join the CRS program; Join the CRS program upon adoption of ordinance	15000025, 15000026, 15000027, 15000038	Hidalgo	12110208	121102080900		Regulatory and Guidance	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 500	$ 1,000	HMGP; General Funds	2.29	0.79	0	0	0	0	0	0	0	50
152000012	15	Lower Rio Grande	Port Isabel Action #12	Adopt NFIP model ordinance with higher floodplain standards	15000025, 15000026	Hidalgo	12110208	121102080900		Regulatory and Guidance	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 500	$ 1,000	HMGP; General Funds	1.52	0.09	0	0	0	0	0	0	0	14

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000001	152000001		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000002	152000002		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000003	152000003		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000004	152000004		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000005	152000005		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000006	152000006		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000007	152000007		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000008	152000008		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000009	152000009		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000010	152000010		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000011	152000011		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000012	152000012		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000013	15	Lower Rio Grande	Port Isabel Action #21	Develop a plan to use the internet and social media to warn citizens of disasters and extreme weather on a regular basis as well as how to prepare for such events and mitigate damages	15000013, 15000014	Hidalgo	12110208	121102081000		Flood Measurement and Warning	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 500	$ 1,000	HMGP; General Funds	0.83	0.32	1189	979	3379	0	126	0	18	17
152000014	15	Lower Rio Grande	Port Isabel Action #25	Develop an early warning system for residents to notify of natural disasters	15000009, 15000010	Hidalgo	12110208,12110208	121102080400,121102080500		Flood Measurement and Warning	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 100,000	$ 1,000	HMGP; General Funds	2.69	1.47	808	513	2189	0	99	0	22	1987
152000015	15	Lower Rio Grande	Primera Action #1	Amend subdivision ordinances to require retention or detention ponds in any new subdivision	15000025, 15000026	Hidalgo	12110208,12110208	121102080800,121102080900		Regulatory and Guidance	1.00	Local	City of Port Isabel	City of Port Isabel	Yes	$ 5,000	$ 1,000	Local Funds	1.53	1.55	93	70	287	0	0	0	4	1069
152000016	15	Lower Rio Grande	Primera Action #10	Adopt higher floodplain standards such as freeboard and cumulative substantial damage	15000025, 15000026	Hidalgo	12110208,12110208	121102080800,121102080900		Regulatory and Guidance	1.00	Local	City of Primera	City of Primera	Yes	$ 5,000	$ 1,000	Local Funds: HMGP	1.53	1.55	93	70	287	0	0	0	4	1069
152000017	15	Lower Rio Grande	Primera Action #8	Develop an early warning system to new areas of the jurisdiction to alert residents of impending severe weather	15000009, 15000010	Hidalgo	12110208,12110208	121102080800,121102080900		Flood Measurement and Warning	1.00	Local	City of Primera	City of Primera	Yes	$ 75,000	$ 1,000	Local Funds: HMGP	1.53	1.55	93	70	287	0	0	0	4	1069
152000018	15	Lower Rio Grande	Rancho Viejo Action #3	Adopt the International Building Code (IBC) and International Residential Code (IRC); revise and update regulatory floodplain maps; adopt higher standards in floodplain ordinances including freeboard, no-rise in the floodplain, cumulative substantial damage, etc.	15000025, 15000026	Hidalgo	12110208,12110208	121102080800,121102080900		Regulatory and Guidance	1.00	Local	City of Primera	City of Primera	Yes	$ 5,000	$ 1,000	Local Funds: HMGP	1.53	1.55	93	70	287	0	0	0	4	1069
152000019	15	Lower Rio Grande	Rancho Viejo Action #11	Update website with maps and information including StormReady data and links; Mail educational brochures to residents in hazard-prone areas on mitigation measures to reduce damages	15000009, 15000010, 15000015, 15000016	Hidalgo	12110208,12110208	121102080100,121102080300		Education and Outreach	1.00	Local	City of Ranch Viejo	City of Ranch Viejo	Yes	$ 5,000	$ 1,000	Local Funds: HMGP	4.02	1.36	4822	3640	14357	4	0	0	71	937
152000020	15	Lower Rio Grande	Rio Hondo Action #4	Adopt ASCE24-05 Flood Resistant Design and Construction to reduce flooding caused by Storm Surge	15000025, 15000026	Hidalgo	12110208,12110208	121102080100,121102080300		Regulatory and Guidance	1.00	Local	City of Ranch Viejo	City of Ranch Viejo	Yes	$ 2,000,000	$ 1,000	USDA; City Funds; HMGP	4.02	1.36	4822	3640	14357	4	0	0	71	937
152000021	15	Lower Rio Grande	San Benito Action #13	Adopt higher standards into the flood damage prevention ordinance to limit floodplain development and provide higher protection to structures in the floodplain	15000025, 15000026	Hidalgo	12110208,12110208	121102080100,121102080300		Regulatory and Guidance	1.00	Local	City of San Benito	City of San Benito	Yes	$ 10,000	$ 1,000	CDBG; EDC; Pre-Disaster Mitigation Grant Program	4.02	1.36	4822	3640	14357	4	0	0	71	937
152000022	15	Lower Rio Grande	South Padre Island #13	Adopt higher floodplain standards in local floodplain ordinance	15000025, 15000026	Hidalgo	12110208,12110208,13090002,13090002	121102080800,121102080900,1309000204 03,130900020501		Regulatory and Guidance	1.00	Local	City of South Padre Island	City of South Padre Island	Yes	$ 5,000	$ 1,000	HMGP; Local Funds	65.60	58.21	38734	34207	157388	12	0	0	618	16276
152000023	15	Lower Rio Grande	South Padre Island #3	Adoption erosion control ordinance and prohibit development in high-hazard areas	15000025, 15000026	Hidalgo	12110208,12110208,13090002,13090002	121102080800,121102080900,1309000204 03,130900020501		Regulatory and Guidance	1.00	Local	City of South Padre Island	City of South Padre Island	Yes	$ 5,000	$ 1,000	HMGP; Local Funds	65.60	58.21	38734	34207	157388	12	0	0	618	16276
152000024	15	Lower Rio Grande	Alamo # 4-1.1	Develop plan to create A Working Evacuation List For Emergency Situations. Prioritize Flood Prone Areas	15000005, 15000006	Cameron	12110208	121102080300		Regulatory and Guidance	1.00	Local	City of Alamo	City of Alamo	Yes	$ 1,000	$ 1,000	Identify Grants; Police Department Budget	0.41	0.50	953	815	3652	0	0	0	16	168

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000013	152000013		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000014	152000014		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000015	152000015		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000016	152000016		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000017	152000017		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000018	152000018		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000019	152000019		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000020	152000020		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000021	152000021		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000022	152000022		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000023	152000023		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000024	152000024		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000025	15	Lower Rio Grande	Alamo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Cameron	12110208	121102080300		Flood Measurement and Warning	1.00	Local	City of Alamo	City of Alamo	Yes	$ 2,000	$ 1,000	Jurisdiction Budget	0.41	0.50	953	815	3652	0	0	0	16	168
152000026	15	Lower Rio Grande	Edcouch #3-1.1	Complete Activities Required To Be A Nfip Participating Community	15000023, 15000024	Cameron	12110208	121102080300		Regulatory and Guidance	1.00	Local	City of Edcouch	City of Edcouch	Yes	$ 5,000	$ 1,000	FEMA	0.41	0.50	953	815	3652	0	0	0	16	168
152000027	15	Lower Rio Grande	Edcouch #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Cameron	12110208,12110208	121102080200,12110208030 0,121102080400		Flood Measurement and Warning	1.00	Local	City of Edcouch	City of Edcouch	Yes	$ 2,000	$ 1,000	Jurisdiction Budget	24.46	5.37	16985	14417	89221	15	1	0	287	5997
152000028	15	Lower Rio Grande	Edcouch #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15,000009, 15000010, 15000013, 15000014	Cameron	12110208,12110208	121102080200,12110208030 0,121102080400		Flood Measurement and Warning	1.00	Local	City of Edcouch	City of Edcouch	Yes	$ 25,000	$ 1,000	Jurisdiction Budget	24.46	5.37	16985	14417	89221	15	1	0	287	5997
152000029	15	Lower Rio Grande	Edinburg #1-1.2	Develop a Reverse 9-1-1 System	15000013, 15000014	Cameron	12110208,12110208	121102080200,12110208030 0,121102080400		Flood Measurement and Warning	1.00	Local	City of Edinburg	City of Edinburg	Yes	$ 250,000	$ 1,000	Federal, State, & Local	24.46	5.37	16985	14417	89221	15	1	0	287	5997
152000030	15	Lower Rio Grande	Edinburg #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Cameron	12110208,13090002,13090002	121102080100,130900020305,130900020311		Flood Measurement and Warning	1.00	Local	City of Edinburg	City of Edinburg	Yes	$ 1,000	$ 1,000	Jurisdiction Budget	3.69	4.38	3776	3144	14338	2	0	0	54	1875
152000031	15	Lower Rio Grande	Edinburg #9-1.2	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Cameron	12110207,12110208,12110208,12110208,12110208,12110208,12110208,12110208,13090001,13090001,	121102070100,121102080100,121102080200,121102080300,121102080400,121102080300,121102080400,121102070		Flood Measurement and Warning	1.00	Local	City of Edinburg	City of Edinburg	Yes	$ 31,000	$ 1,000	Jurisdiction Budget	707.10	217.65	167224	135738	569558	62	16	0	3065	338729
152000032	15	Lower Rio Grande	Hidalgo #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Cameron	12110207,12110208,12110208,12110208,12110208,12110208,12110208,12110208,13090001,13090001,	121102070100,121102080100,121102080200,121102080300,121102080400,121102080300,121102080400,121102070		Education and Outreach	1.00	Local	City of Hidalgo	City of Hidalgo	Yes	$ 5,000	$ 1,000	N/A	707.10	217.65	167224	135738	569558	62	16	0	3065	338729
152000033	15	Lower Rio Grande	Hidalgo County #11-1.2	Develop a An Inspection, Maintenance, And Enforcement Program To Ensure Continued Structural Integrity of Dams And Levees.	15000021, 15000022	Cameron	12110207,12110208,12110208,12110208,12110208,12110208,12110208,12110208,13090001,13090001,	121102070100,121102080100,121102080200,121102080300,121102080400,121102080300,121102080400,121102070		Regulatory and Guidance	1.00	Local	Hidalgo County	Hidalgo County	Yes	$ 10,000	$ 1,000	Jurisdiction Budget, Grants	707.10	217.65	167224	135738	569558	62	16	0	3065	338729
152000034	15	Lower Rio Grande	Hidalgo County #12-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Cameron	12110207,12110208,12110208,12110208,12110208,12110208,12110208,12110208,13090001,13090001,	121102070100,121102080100,121102080200,121102080300,121102080400,121102080300,121102080400,121102070		Flood Measurement and Warning	1.00	Local	Hidalgo County	Hidalgo County	Yes	$ 100,000	$ 1,000	FEMA, Department Budget	707.10	217.65	167224	135738	569558	62	16	0	3065	338729
152000035	15	Lower Rio Grande	Hidalgo County #14-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Cameron	12110207,12110208,12110208,12110208,12110208,12110208,12110208,12110208,13090001,13090001,	121102070100,121102080100,121102080200,121102080300,121102080400,121102080300,121102080400,121102070		Flood Measurement and Warning	1.00	Local	Hidalgo County	Hidalgo County	Yes	$ 100,000	$ 1,000	Department Budget	707.10	217.65	167224	135738	569558	62	16	0	3065	338729
152000036	15	Lower Rio Grande	Hidalgo County #2-2.1	Incorporate Assessments of Hazards, Including Hurricane, Flood, Wild Land Fires, And Severe Storms, Into Site Selection And Design For New Buildings And When Siting Or Leasing County Facilities	15000019, 15000020	Cameron	12110208	121102080900		Flood Measurement and Warning	1.00	Local	Hidalgo County	Hidalgo County	Yes	$ 25,000	$ 1,000	Annual Dept. Budget	0.09	0.08	238	227	599	0	0	0	3	27

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000025	152000025		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000026	152000026		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000027	152000027		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000028	152000028		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000029	152000029		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000030	152000030		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000031	152000031		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000032	152000032		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000033	152000033		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000034	152000034		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000035	152000035		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000036	152000036		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000037	15	Lower Rio Grande	Hidalgo County #3-1.2	Enhance The Appropriate Websites To Provide Convenient Access To Most Current Hazard Maps.	15000013, 15000014, 15000037, 15000038	Cameron	12110208	121102080900		Education and Outreach	1.00	Local	Hidalgo County	Hidalgo County	Yes	$ 50,000	$ 1,000	Annual Dept. Budget And External Funding	0.09	0.08	238	227	599	0	0	0	3	27
152000038	15	Lower Rio Grande	La Villa #6-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208	121102080900		Education and Outreach	1.00	Local	City of La Villa	City of La Villa	Yes	$ 1,000	$ 1,000	N/A	0.09	0.08	238	227	599	0	0	0	3	27
152000039	15	Lower Rio Grande	La Villa #8-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208	121102080300		Flood Measurement and Warning	1.00	Local	City of La Villa	City of La Villa	Yes	$ 31,000	$ 1,000	Jurisdiction Budget	0.47	0.12	509	423	1881	2	0	0	7	118
152000040	15	Lower Rio Grande	McAllen #11-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208	121102080300		Flood Measurement and Warning	1.00	Local	City of McAllen	City of McAllen	Yes	$ 1,000	$ 1,000	Jurisdiction Budget	0.47	0.12	509	423	1881	2	0	0	7	118
152000041	15	Lower Rio Grande	McAllen #1-2.1	Develop Emergency Notification Awareness System For Traveling Public Via Transportation System In The Event of Severe Weather In McAllen	15000013, 15000014	Hidalgo	12110208,12110208,12110208,121102080400,13090002	121102080100,12110208020011,211020803000,121102080400,130900020305		Flood Measurement and Warning	1.00	Local	City of McAllen	City of McAllen	Yes	$ 500,000	$ 1,000	Grants, Matching City Funds	31.95	15.61	26851	22997	132724	12	0	0	468	11588
152000042	15	Lower Rio Grande	McAllen #1-2.1	Develop a plan to provide A Means of Disseminating Emergency Information To The Citizens of McAllen	15000013, 15000014	Hidalgo	12110208,12110208,12110208,121102080400,13090002	121102080100,12110208020011,211020803000,121102080400,130900020305		Flood Measurement and Warning	1.00	Local	City of McAllen	City of McAllen	Yes	$ 500,000	$ 1,000	Grants, Matching City Funds	31.95	15.61	26851	22997	132724	12	0	0	468	11588
152000043	15	Lower Rio Grande	Mercedes #11-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208,12110208,12110208,121102080400,13090002	121102080100,12110208020011,211020803000,121102080400,130900020305		Flood Measurement and Warning	1.00	Local	City of Mercedes	City of Mercedes	Yes	$ 25,000	$ 1,000	Jurisdiction Budget	31.95	15.61	26851	22997	132724	12	0	0	468	11588
152000044	15	Lower Rio Grande	Mercedes #9-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208,12110208,12110208	121102080100,12110208030011,211020806000		Flood Measurement and Warning	1.00	Local	City of Mercedes	City of Mercedes	Yes	$ 1,000	$ 1,000	Jurisdiction Budget	4.38	4.64	4021	2866	13565	1	0	0	77	2752
152000045	15	Lower Rio Grande	Mission #1-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208,12110208,12110208	121102080100,12110208030011,211020806000		Flood Measurement and Warning	1.00	Local	City of Mission	City of Mission	Yes	$ 31,000	$ 1,000	City of Mission	4.38	4.64	4021	2866	13565	1	0	0	77	2752
152000046	15	Lower Rio Grande	Mission #7-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208,12110208,12110208,13090002,13090002	121102080100,12110208020011,211020803000,130900020301,130900020305		Flood Measurement and Warning	1.00	Local	City of Mission	City of Mission	Yes	$ 8,500	$ 1,000	City of Mission	11.06	17.45	19515	16701	63919	6	0	0	301	6278
152000047	15	Lower Rio Grande	Palmview #5-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208,12110208,12110208,13090002,13090002	121102080100,12110208020011,211020803000,130900020301,130900020305		Flood Measurement and Warning	1.00	Local	City of Palmview	City of Palmview	Yes	$ 1,000	$ 1,000	N/A	11.06	17.45	19515	16701	63919	6	0	0	301	6278
152000048	15	Lower Rio Grande	Palmview #7-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208,12110208,12110208	121102080100,12110208020011,211020803000		Flood Measurement and Warning	1.00	Local	City of Palmview	City of Palmview	Yes	$ 31,000	$ 1,000	Jurisdiction Budget	1.88	3.59	3774	3069	11496	4	0	0	55	507

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000037	152000037		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000038	152000038		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000039	152000039		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000040	152000040		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000041	152000041		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000042	152000042		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000043	152000043		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000044	152000044		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000045	152000045		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000046	152000046		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000047	152000047		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000048	152000048		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000049	15	Lower Rio Grande	Pharr #10-1.1	Develop Procedures For Mass Notifications To Citizens And Merchants During Natural Hazard Incident.	15000013, 15000014	Hidalgo	12110208,12110208,12110208	121102080100,121102080200,121102080300		Flood Measurement and Warning	1.00	Local	City of Pharr	City of Pharr	Yes	$ 5,000	$ 1,000	Jurisdiction Budget	1.88	3.59	3774	3069	11496	4	0	0	55	507
152000050	15	Lower Rio Grande	Pharr #8-1.1	Develop a Program To Provide Links To Weather Alerts And Departmental Phone Listings With Contact Personnel For Residents.	15000013, 15000014	Hidalgo	12110208,12110208,13090002	121102080100,121102080200,121102080300,130900020311		Flood Measurement and Warning	1.00	Local	City of Pharr	City of Pharr	Yes	$ 1,000	$ 1,000	Jurisdiction Budget	8.94	9.61	16963	13949	62907	2	0	0	198	3349
152000051	15	Lower Rio Grande	Alamo # 4-1.2	Develop a plan to Provide Traffic Control And Evacuation Assistance During Emergency Situations	15000005, 15000006	Cameron	12110208,12110208,13090002	121102080100,121102080200,121102080300,130900020311		Flood Measurement and Warning	1.00	Local	City of Alamo	City of Alamo	Yes	$ 10,000	$ 1,000	Identify Grants; Police Department Budget	8.94	9.61	16963	13949	62907	2	0	0	198	3349
152000052	15	Lower Rio Grande	Starr County Hazard Mittigation Plan Action #2	Develop needs assessment to identify and fund improvements to flood proof critical facilities such as lift stations and treatment plants.	15000003, 15000005	Starr	12110208,12110208	121102080900,121102082081000		Infrastructure Projects	1.00	Local	Starr County	Starr County	Yes	$ 20,000,000	$ 500,000	Local, HMGP, FIF	6.93	2.75	1736	1235	5912	1	0	0	25	86
152000053	15	Lower Rio Grande	Starr County Hazard Mittigation Plan Action #6	Building a shelter within a community to serve for flood situations in Rio Grande City.	15000005, 15000006	Starr	12110208,12110208	121102080900,121102082081000		Infrastructure Projects	1.00	Local	Starr County	Starr County	Yes	$ 10,000,000	$ 500,000	Local, HMGP, FIF	6.93	2.75	1736	1235	5912	1	0	0	25	86
152000054	15	Lower Rio Grande	Starr County Hazard Mitigation Plan Action #10	Retrofit community center as shelter for flooding events. (Roma)	15000005, 15000006	Starr	12110208,12110208	121102080900,121102082081000		Infrastructure Projects	1.00	Local	Starr County	Starr County	Yes	$ 2,000,000	$ 200,000	Local, HMGP, FIF	6.93	2.75	1736	1235	5912	1	0	0	25	86
152000055	15	Lower Rio Grande	Starr County Hazard Mitigation Plan Action #19	Develop maintenance schedule for creeks within jurisdiction	15000021, 15000022	Starr	12110208,12110208	121102080900,121102082081000		Regulatory and Guidance	1.00	Local	Starr County	Starr County	Yes	$ 50,000	$ 50,000	Local, HMGP, FIF	6.93	2.75	1736	1235	5912	1	0	0	25	86
152000056	15	Lower Rio Grande	City of Laguna Vista - Laguna Vista Establish/Join Drainage District	Dvelop strategy to secure funding to become/join drainage district	15000039, 15000040	Cameron	12110208,12110208	121102080900,121102082081000		Other	1.00	Local	City of Laguna Vista	City of Laguna Vista	Yes	$ 100,000	$ 50,000	Local, HMGP, FIF	6.93	2.75	1736	1235	5912	1	0	0	25	86
152000057	15	Lower Rio Grande	Willacy County Drainage District - Re-negotiate El Sauz contractual agreement	Re-negotiate agreement with El Sauz Ranch to facilitate more outfall volume	15000007, 15000008, 15000039	Willacy	12110208	121102080700		Other	1.00	Local	Willacy County Drainage District	Willacy County Drainage District	Yes	$ 500,000	$ 25,000	Local, HMGP, FIF	0.96	0.84	947	867	3020	0	0	0	12	605
152000058	15	Lower Rio Grande	Cameron County Drainage District No. 5 - Cameron County Levee Certification	Coordinate with all on-going FIFs in Cameron County, provide a summary analysis for internal drainage and submit Levee Certifiaction to FEMA. Utlize IBWC data for application. Manage review process and coordinate between County, IBWC, and FEMA.	15000021,15000022	Cameron	12110208	121102080700		Other	1.00	Local	Cameron County Drainage District No. 5	Cameron County Drainage District No. 5	Yes	$ 250,000	$ 250,000	Local, HMGP, FIF	0.96	0.84	947	867	3020	0	0	0	12	605
152000059	15	Lower Rio Grande	Sewer Manhole Rainguards	Installation of rainguards in existing manholes will keep rainwater from entering sewer collection system.	15000001, 15000002	Hidalgo	12110208	121102080700		Infrastructure Projects	1.00	Local	City of Edcouch	City of Edcouch	Yes	$ 200,000	$ 50,000	Local, HMGP, FIF	0.96	0.84	947	867	3020	0	0	0	12	605
152000060	15	Lower Rio Grande	City of Progreso - Progreso Storm Ditch improvement Equipment	Develop maintenance plan and identify funding strategy to acquire heavy equipment (dozer, long reach excavator) for ditch cleaning operations	15000021, 15000022	Hidalgo	12110208	121102080900		Other	1.00	Local	City of Progreso	City of Progreso	Yes	$ 50,000	$ 50,000	Local, HMGP, FIF	0.71	0.99	633	609	1980	0	0	0	10	228

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000049	152000049		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000050	152000050		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000051	152000051		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000052	152000052		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000053	152000053		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000054	152000054		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000055	152000055		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000056	152000056		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000057	152000057		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000058	152000058		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000059	152000059		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000060	152000060		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000061	15	Lower Rio Grande	City of Indian Lake - Indian lake Drainage Infrastructure Funding Study	Develop Plan for funding for future drainage infrastructure	15000021, 15000022	Cameron	12110208	121102080900		Other	1.00	Local	City of Indian Lake	City of Indian Lake	Yes	$ 250,000	$ 25,000	Local, HMGP, FIF	0.71	0.99	633	609	1980	0	0	0	10	228
152000062	15	Lower Rio Grande	Cameron County Drainage District No.1 - San Martin Lake dredging	Develop plan to fund and dredge lake to increase storage capacity	15000021, 15000022	Cameron	12110208	121102080700		Infrastructure Projects	1.00	Local	Cameron County Drainage District No.1	Cameron County Drainage District No.1	Yes	$ 100,000	$ 50,000	Local, HMGP, FIF	0.32	1.44	874	661	3926	0	0	0	15	399
152000063	15	Lower Rio Grande	Cameron County Drainage District No.1 - Ditch 1 outfall dredging	Develop plan to fund and dredge sediment from outfall in Bahia Grande (in Navigation dist/port of Brownsville)	15000021, 15000022	Cameron	12110208,12110208,12110208,12110208	121102080600,121102080700,121102080800,121102080900		Infrastructure Projects	1.00	Local	Cameron County Drainage District No.1	Cameron County Drainage District No.1	Yes	$ 1,200,000	$ 120,000	Local, HMGP, FIF	6.86	3.86	5217	3999	15207	3	0	0	98	3046
152000064	15	Lower Rio Grande	City of South Padre Island - SPI Sand Dune restoration/protection program	Establish Beach Protection/replenishing program. Build up dunes to protect against tidal surge	15000021, 15000022	Cameron	12110208,12110208	121102081000,121102081100		Infrastructure Projects	1.00	Local	City of South Padre Island	City of South Padre Island	Yes	$ 720,000	$ 120,000	Local, HMGP, FIF	2.37	0.54	1847	1442	5905	2	0	0	35	24
152000065	15	Lower Rio Grande	Willacy County Drainage District No.1 - WCDD1 pump station improvements	Perform assessment of pump station to make it flood proof and resilient.	15000021, 15000022	Cameron	12110208,12110208	121102081000,121102081100		Infrastructure Projects	1.00	Local	Willacy County Drainage District	Willacy County Drainage District	Yes	$ 500,000	$ 80,000	Local, HMGP, FIF	2.37	0.54	1847	1442	5905	2	0	0	35	24
152000066	15	Lower Rio Grande	City of Harlingen - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080600, 121102080700, 121102080900		Flood Measurement and Warning	1.00	Local	City of Harlingen	City of Harlingen	Yes	$ 5,000,000	$ 600,000		13.86	16.75	17519	13543	73788	14	0	0	327	6830
152000067	15	Lower Rio Grande	City of Edinburg - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080600		Flood Measurement and Warning	1.00	Local	City of Edinburg	City of Edinburg	Yes	$ 5,000,000	$ 600,000		1.33	1.28	1411	1162	3148	0	0	0	28	703
152000068	15	Lower Rio Grande	City of La Villa - planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080800, 121102080900		Flood Measurement and Warning	1.00	Local	City of La Villa	City of La Villa	Yes	$ 5,000,000	$ 600,000		1.38	1.71	1659	1311	7463	3	0	4	27	567
152000069	15	Lower Rio Grande	City of Mission - planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080700		Flood Measurement and Warning	1.00	Local	City of Mission	City of Mission	Yes	$ 5,000,000	$ 600,000		0.96	0.84	945	867	3019	0	0	0	12	604
152000070	15	Lower Rio Grande	City of Primera - planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080100, 121102080300		Flood Measurement and Warning	1.00	Local	City of Primera	City of Primera	Yes	$ 5,000,000	$ 600,000		4.02	1.37	4823	3641	14358	4	0	0	71	936
152000071	15	Lower Rio Grande	City of La Feria - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080300		Flood Measurement and Warning	1.00	Local	City of La Feria	City of La Feria	Yes	$ 5,000,000	$ 600,000		0.70	0.87	1733	1351	6973	0	0	0	24	157
152000072	15	Lower Rio Grande	City of La Joya - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208, 13090001, 13090002	121102080100, 121102080200, 130900011705, 130900020301		Flood Measurement and Warning	1.00	Local	City of La Joya	City of La Joya	Yes	$ 5,000,000	$ 600,000		0.92	0.27	210	172	503	0	0	0	5	359

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000061	152000061		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000062	152000063		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000063	152000064		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000064	152000065		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000065	152000066		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000066	152000067		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000067	152000068		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000068	152000069		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000069	152000070		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000070	152000071		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000071	152000072		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000072	152000073		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000073	15	Lower Rio Grande	City of Los Fresnos - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080100, 121102080300, 121102080600		Flood Measurement and Warning	1.00	Local	City of Los Fresnos	City of Los Fresnos	Yes	$ 5,000,000	$ 600,000		4.38	4.64	4021	2869	13568	1	0	0	77	2751
152000074	15	Lower Rio Grande	City of Mercedes - Planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080100, 121102080200, 121102080300		Flood Measurement and Warning	1.00	Local	City of Mercedes	City of Mercedes	Yes	$ 5,000,000	$ 600,000		1.87	3.59	3778	3068	11495	4	0	0	55	507
152000075	15	Lower Rio Grande	City of Palmhurst - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080100, 121102080300		Flood Measurement and Warning	1.00	Local	City of Palmhurst	City of Palmhurst	Yes	$ 5,000,000	$ 600,000		6.99	3.82	8435	6295	40076	3	0	0	148	1824
152000076	15	Lower Rio Grande	City of Palmview - Planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080100, 121102080300		Flood Measurement and Warning	1.00	Local	City of Palmview	City of Palmview	Yes	$ 5,000,000	$ 600,000		4.55	1.55	3455	2165	15682	6	0	0	61	1935
152000077	15	Lower Rio Grande	City of San Benito - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080200, 121102080300		Flood Measurement and Warning	1.00	Local	City of San Benito	City of San Benito	Yes	$ 5,000,000	$ 600,000		0.91	0.42	246	169	879	0	0	0	4	457
152000078	15	Lower Rio Grande	City of San Juan - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208, 13090002	121102080800, 121102080900, 130900020501, 130900020403		Flood Measurement and Warning	1.00	Local	City of San Juan	City of San Juan	Yes	$ 5,000,000	$ 600,000		65.61	58.22	38722	34207	157389	6	0	479	620	16279
152000079	15	Lower Rio Grande	City of Weslaco - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080600, 121102080700, 121102080800, 121102080900		Flood Measurement and Warning	1.00	Local	City of Weslaco	City of Weslaco	Yes	$ 5,000,000	$ 600,000		6.87	3.86	5217	3999	15210	3	0	50	99	3047
152000080	15	Lower Rio Grande	City of Alamo - Planning, operation & maintenance	Develop and Implement a planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080300, 121102080700		Flood Measurement and Warning	1.00	Local	City of Alamo	City of Alamo	Yes	$ 5,000,000	$ 600,000		1.51	0.88	928	736	2347	2	0	14	14	845
152000081	15	Lower Rio Grande	City of Alton - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080200, 121102080300, 121102080400		Flood Measurement and Warning	1.00	Local	City of Alton	City of Alton	Yes	$ 5,000,000	$ 600,000		24.45	5.37	16984	14415	89218	13	1	0	287	5997
152000082	15	Lower Rio Grande	City of Brownsville - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208, 13090002	121102080100, 121102080200, 121102080300, 130900020305,		Flood Measurement and Warning	1.00	Local	City of Brownsville	City of Brownsville	Yes	$ 5,000,000	$ 600,000		11.06	17.45	19516	16701	63925	6	0	0	301	6278
152000083	15	Lower Rio Grande	Cameron County - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080100, 121102080300		Flood Measurement and Warning	1.00	Local	Cameron County	Cameron County	Yes	$ 5,000,000	$ 600,000		4.33	3.17	6407	5795	24358	2	0	0	94	1611
152000084	15	Lower Rio Grande	City of Combes - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Cameron	12110208	121102080200, 121102080300		Flood Measurement and Warning	1.00	Local	City of Combes	City of Combes	Yes	$ 5,000,000	$ 600,000		3.59	0.52	3163	2709	9859	0	0	0	43	1061

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000073	152000074		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000074	152000075		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000075	152000076		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000076	152000077		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000077	152000078		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000078	152000079		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000079	152000080		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000080	152000081		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000081	152000082		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000082	152000083		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000083	152000084		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000084	152000085		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000085	15	Lower Rio Grande	City of Donna - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208	121102080300		Flood Measurement and Warning	1.00	Local	City of Donna	City of Donna	Yes	$ 5,000,000	$ 600,000		0.47	0.12	508	423	1880	2	0	0	7	118
152000086	15	Lower Rio Grande	City of Elsa - Flood Warning System, planning, operation & maintenance	Develop and Implement a Flood Warning System, planning, operation & Maintenance plan	15000021, 15000022	Hidalgo	12110208, 13090002	121102080300, 121102080500, 121102080600, 121102080700, 130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Flood Measurement and Warning	1.00	Local	City of Elsa	City of Elsa	Yes	$ 5,000,000	$ 600,000		479.00	340.20	96099	80721	310632	34	2	1741	1956	212334
152000087	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #1	Purchase NOAA All-Hazard Radios	15000013, 15000014	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Flood Measurement and Warning	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 50,000	$ -		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000088	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #10	Adopt and implement program for cleaning debris from bridges, drains, culverts	15000001, 15000002	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Regulatory and Guidance	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 50,000	$ 50,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000089	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #124	Increase communication with local municipalities	15000037, 15000038	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Education and Outreach	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 200,000	$ 200,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000090	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #105	Coordinate a debris removal program	15000001, 15000002	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Regulatory and Guidance	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 750,000	$ 750,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000091	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #91	Projects to increase cyber security	15000001, 15000002	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Regulatory and Guidance	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 250,000	$ 250,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000092	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #106	Develop a program to provide hyperlinks to weather data	15000009, 15000010	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Flood Measurement and Warning	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 247,250	$ 247,250		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000093	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #14	Develop Acquisition/ buy-out program	15000031, 15000032	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Infrastructure Projects	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 10,000,000	$ 500,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000094	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #36	Develop Hazardous Material Spills Prevention and Contingency Plan	15000021, 15000022	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Regulatory and Guidance	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 30,000	$ 30,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000095	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #107	Develop procedures for mass notifications	15000009, 15000010	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Flood Measurement and Warning	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 243,800	$ 243,800		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000096	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #17	Identify flood-prone and repetitive loss properties	15000019, 15000020	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080800,1211020		Infrastructure Projects	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 1,000,000	$ 1,000,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000085	152000086		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000086	152000087		0	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000087	152000087	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000088	152000088	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000089	152000089	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000090	152000090	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000091	152000091	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000092	152000092	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000093	152000093	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000094	152000094	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000095	152000095	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000096	152000096	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs (S)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000097	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #90	Illegal dumping outreach program	15000037, 15000038	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080300,1211020		Education and Outreach	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 500,000	$ 500,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000098	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #16	Incorporate Higher standards for hazard resistance	15000025, 15000026	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080300,1211020		Regulatory and Guidance	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 15,000	$ 15,000		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000099	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #35	Install lightning protection systems	15000001, 15000002	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080300,1211020		Infrastructure Projects	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 200,000	$ -		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000100	15	Lower Rio Grande	Hidalgo County Drainage District #1 - Action #121	Remote Operations/Monitoring of Stormwater Pumps	15000001, 15000002	Hidalgo	12110208,13090002,13090001	130900020305,130900011705,121102080100,121102080600,121102080300,1211020		Infrastructure Projects	807.2393277	Local	Hidalgo County Drainage District 1	Hidalgo County Drainage District 1	Yes	$ 3,000,000	$ -		374.63	557.80	75816.00	61251.00	244800.00	459	17	5	1840.407197	334.9968489
152000101	15	Lower Rio Grande	City of La Joya	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208,13090002,13090001	130900011705,130900011706,121102080100,130900020301,121102080200		Regulatory and Guidance	52.36	Local	La Joya	La Joya	Yes	$ 500,000	$ 500,000		2.88	3.43	104.00	86.00	242.00	11	0	0	5.054160081	1.211001483
152000102	15	Lower Rio Grande	City of Elsa	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080300		Regulatory and Guidance	5.50	Local	Elsa	Elsa	Yes	$ 300,000	$ 300,000		0.72	1.59	541.00	458.00	1769.00	7	0	0	15.36760744	0.280453394
152000103	15	Lower Rio Grande	City of Edcouch	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080300		Regulatory and Guidance	10.88	Local	Edcouch	Edcouch	Yes	$ 300,000	$ 300,000		0.43	1.01	287.00	230.00	1758.00	6	0	0	7.504916178	0.274335167
152000104	15	Lower Rio Grande	City of Primera	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080700		Regulatory and Guidance	44.86	Local	Primera	Primera	Yes	$ 300,000	$ 300,000		0.95	1.79	389.00	369.00	1107.00	3	0	0	7.254756857	0.939401417
152000105	15	Lower Rio Grande	City of San Benito	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080800,121102080600,121102080700,121102080900		Regulatory and Guidance	2.78	Local	San Benito	San Benito	Yes	$ 500,000	$ 500,000		6.94	10.89	2409.00	2009.00	6785.00	26	0	117	67.38186646	4.972156675
152000106	15	Lower Rio Grande	City of Weslaco	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080100,121102080300		Regulatory and Guidance	14.45	Local	Weslaco	Weslaco	Yes	$ 500,000	$ 500,000		6.98	10.80	4532.00	3444.00	12194.00	37	0	0	103.5421451	2.859415335
152000107	15	Lower Rio Grande	City of Los Fresnos	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080800,121102080900		Regulatory and Guidance	4.16	Local	Los Fresnos	Los Fresnos	Yes	$ 500,000	$ 500,000		1.21	2.92	489.00	418.00	1640.00	14	0	7	15.24060859	0.88514906
152000108	15	Lower Rio Grande	Cameron County Drainage District #1	FMS 2 - Assessment, development, and updating of the Drainage District's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080800,121102080900		Regulatory and Guidance	7.53	Local	Cameron County Drainage District 1	Cameron County Drainage District 1	Yes	$ 500,000	$ 500,000		53.94	112.19	5622.00	4982.00	17771.00	60	0	480	223.5320214	29.2785215

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000097	152000097	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000098	152000098	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000099	152000099	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000100	152000100	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000101	152000101	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000102	152000102	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000103	152000103	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000104	152000104	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000105	152000105	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000106	152000106	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000107	152000107	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000108	152000108	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000109	15	Lower Rio Grande	City of La Feria	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080600		Regulatory and Guidance	2.20	Local	La Feria	La Feria	Yes	$ 300,000	$ 300,000		1.81	3.26	684.00	584.00	1427.00	11	0	6	20.65125119	1.29386495
152000110	15	Lower Rio Grande	City of Escobares	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Starr	13090001	130900011109,130900011108		Regulatory and Guidance	7.62	Local	Escobares	Escobares	Yes	$ 300,000	$ 300,000		1.47	1.68	92.00	48.00	698.00	1	0	32	3.184771063	0.347514594
152000111	15	Lower Rio Grande	City of La Grulla	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Starr	13090001	130900011607		Regulatory and Guidance	1.16	Local	La Grulla	La Grulla	Yes	$ 300,000	$ 300,000		0.14	0.29	32.00	16.00	61.00	1	0	106	0.80149749	0.038782302
152000112	15	Lower Rio Grande	City of Palmview	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080100,121102080300,121102080200		Regulatory and Guidance	40.61	Local	Palmview	Palmview	Yes	$ 300,000	$ 300,000		1.86	5.42	853.00	671.00	2703.00	6	0	0	15.15038256	0.782737371
152000113	15	Lower Rio Grande	City of Alton	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080300,121102080200		Regulatory and Guidance	16.55	Local	Alton	Alton	Yes	$ 300,000	$ 300,000		3.56	4.07	1694.00	1478.00	4952.00	11	0	0	33.16831497	1.651787056
152000114	15	Lower Rio Grande	Willacy County	FMS 2 - Assessment, development, and updating of the County's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Willacy	12110207,12110208	121102080800,121102081000,121102080300,121102080400,121102080700,1211020		Regulatory and Guidance	36.43	Local	Willacy	Willacy	Yes	$ 500,000	$ 500,000		307.94	477.41	4777.00	3569.00	11895.00	24	0	781	273.0381592	258.9323602
152000115	15	Lower Rio Grande	City of Edinburg	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080300,121102080400,121102080200		Regulatory and Guidance	12.05	Local	Edinburg	Edinburg	Yes	$ 500,000	$ 500,000		24.32	29.71	11174.00	9608.00	47171.00	76	2	0	252.6482038	9.352134451
152000116	15	Lower Rio Grande	City of Mission	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208,13090002	130900020305,121102080100,121102080300,130900020301,121102080200		Regulatory and Guidance	7.30	Local	Mission	Mission	Yes	$ 500,000	$ 500,000		10.96	28.34	5464.00	4596.00	15487.00	47	0	0	129.5808371	9.80536424
152000117	15	Lower Rio Grande	City of San Juan	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080100,121102080300		Regulatory and Guidance	0.56	Local	San Juan	San Juan	Yes	$ 500,000	$ 500,000		4.49	7.65	2591.00	2383.00	9696.00	19	0	0	62.41928045	2.690639086
152000118	15	Lower Rio Grande	City of Donna	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208,13090002	121102080100,121102080300,130900020311		Regulatory and Guidance	2.08	Local	Donna	Donna	Yes	$ 500,000	$ 500,000		7.83	11.02	3107.00	2065.00	9715.00	23	0	0	59.75834337	6.357066155
152000119	15	Lower Rio Grande	City of Harlingen	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Cameron	12110208	121102080600,121102080300,121102080700,121102080900		Regulatory and Guidance	2.75	Local	Harlingen	Harlingen	Yes	$ 500,000	$ 500,000		13.76	30.40	4647.00	3352.00	16552.00	66	0	232	174.5895161	10.57821898
152000120	15	Lower Rio Grande	City of Alamo	FMS 2 - Assessment, development, and updating of the City's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Hidalgo	12110208	121102080100,121102080300		Regulatory and Guidance	16.52	Local	Alamo	Alamo	Yes	$ 500,000	$ 500,000		4.03	5.39	3056.00	2411.00	9335.00	14	0	0	58.46359066	1.48205276

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000109	152000109	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000110	152000110	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000111	152000111	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000112	152000112	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000113	152000113	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000114	152000114	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000115	152000115	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000116	152000116	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000117	152000117	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000118	152000118	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000119	152000119	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.
152000120	152000120	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.

TABLE 17: RECOMMENDED
FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	RFPG No.	RFPG Name	FMS Name	Description	Associated Goals (ID)	Counties	HUC8s	HUC12s	Watershed Name	Project Type	Strategy Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost ($)	Non-Recurring, Non-Capital Costs ($)	Potential Funding Sources and Amount	Flood Risk									
																			Area in 100yr (1% annual chance) Floodplain	Area in 500yr (0.2% annual chance) Floodplain	Estimated number of structures at 100yr flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm & ranch land at flood risk (acres)
152000121	15	Lower Rio Grande	County of Kenedy	FMS 2 - Assessment, development, and updating of the County's ordinances, orders, policies, engineering specifications, guidance documents and other flood management tools. The objective is to update flood management planning tools to existing local, state, and federal standards, to include innovative methodologies, and to promote universal regional approaches. This study will target the development of new/revised ordinances, orders, policies, engineering guidance designs, operation and maintenace requirements and similar planning tools.	15000021, 15000022	Kenedy	12110205,12110206,12110203,12110207,12110208	121102030100,121102050706,121102110601,121102060502,121102050807,121102080907,121102080908,121102		Regulatory and Guidance	1782.61	Local	Kenedy	Kenedy	Yes	$ 300,000	$ 300,000		575.33	784.66	53.00	3.00	28.00	2	0	0	62.94326806	306.8322

TABLE 17: RECOMMENDED FLOOD MANAGEMENT STRATEGIES IDENTIFIED BY RFPG

FMS ID	FMS ID	Reduction in Flood Risk												Cost/ Structure removed	Consideration of Nature-based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	Associated FMEs, FMSs, FMPs	RFPG Recommendation (Y/N)	Reason for Recommendation
		Number of structures with reduced 100yr (1% annual chance) Flood risk	Number of structures removed form 100yr (1% annual chance) Flood risk	Number of structures removed form 500yr (0.2% annual chance) Flood risk	Residential structures removed form 100yr (1% annual chance) Flood risk	Estimated Population removed form 100yr (1% annual chance) Flood risk	Critical facilities removed form 100yr (1% annual chance) Flood risk (#)	Number of low water crossings removed form 100yr (1% annual chance) Flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed form 100yr flood risk (Miles)	Estimated active farm & ranch land removed form 100yr flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)								
152000121	152000121	0	0	0	0	0	0	0	0	0	0	0	0	0	No	No	No	No	No	Yes	Strategy complies with the TWDB criteria for FMSs.