

Appendix A.12  
Flood Management Strategies Recommended by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Total Strategy Cost (\$)	Potential Funding Sources and Amount
13200001	Education and Outreach	Create a public outreach program to educate the community on the benefits of building code enforcement and flood hazard mitigation strategies. Also, coordinate regionally regarding flood early warning systems currently implemented in our region.	13000024	Medina	121101070109,121101070201,121101070202,121101070203,121101070204	13000322,13000325,13000329,13000330,13000333	Education and Outreach	28.38	Riverine, Urban,	13002953	00000005,00000255,00000290,13002953	Y	\$ 375,000.00	-
13200002	Review and Adoption of Updated Building Codes	Review and Adoption of Updated Building Codes	13000016	Medina	121101070109,121101070201,121101070202,121101070203,121101070204	13000322,13000325,13000329,13000330,13000333	Regulatory and Guidance	28.38	Riverine, Urban,	13002953	00000005,00000255,00000290,13002953	Y	\$ 100,000.00	-
13200003	Subdivision Ordinance Revision	Create new Subdivision Ordinance and development standards to ensure the city is proactive in our regulatory practices and to ensure that the standards align with flood hazard mitigation strategies.	13000016	Medina	121101070109,121101070201,121101070202,121101070203,121101070204	13000322,13000325,13000329,13000330,13000333	Regulatory and Guidance	28.38	Riverine, Urban,	13002953	00000005,00000255,00000290,13002953	Y	\$ 100,000.00	-
13200004	Update City's Flood Hazard Mitigation Ordinance	Update the City's Flood Hazard Mitigation Ordinance to ensure proper regulation of NFIP requirements and to implement higher standards of floodplain management.	13000016	Medina	121101070109,121101070201,121101070202,121101070203,121101070204	13000322,13000325,13000329,13000330,13000333	Regulatory and Guidance	28.38	Riverine, Urban,	13002953	00000005,00000255,00000290,13002953	Y	\$ 100,000.00	-
13200006	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #1	Place flood gauges upstream of flood-prone areas to alert citizens to quickly rising waters.	13000007	Atascosa,Wilson,Medina,Bexar,La Salle,McMullen,Live Oak,Frio,Karnes			Flood Measurement and Warning	1214.85	Riverine, Coastal, Urban,	00000096	00000005,00000007,13000086,13000089,13000093,00000096,00000100,00000255,00000260,00000282,00000290,0000299,00000392,13002446,13003116,13003117,13003118,13003214,13003214	Y	\$ 300,000.00	-
13200007	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #5	Inventory of all low water crossing in the county and develop a prioritize projects in a COP for upgrades or replacement.	13000001	Atascosa,Wilson,Medina,Bexar,La Salle,McMullen,Live Oak,Frio,Karnes			Infrastructure Projects	1214.85	Riverine, Coastal, Urban,	00000096	00000005,00000007,13000086,13000089,13000093,00000096,00000100,00000255,00000260,00000282,00000290,0000299,00000392,13002446,13003116,13003117,13003118,13003214,13003214	Y	\$ 60,000.00	-
13200009	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #12	Establish and implement a voluntary "acquisition and demo program" to address repetitive loss to floodprone properties.	13000013, 13000020	Atascosa,Wilson,Medina,Bexar,La Salle,McMullen,Live Oak,Frio,Karnes			Property Acquisition and Structural Elevation	1214.85	Riverine, Coastal, Urban,	00000096	00000005,00000007,13000086,13000089,13000093,00000096,00000100,00000255,00000260,00000282,00000290,0000299,00000392,13002446,13003116,13003117,13003118,13003214,13003214	Y	\$ 600,000.00	-
13200011	Atascosa McMullen Hazard Mitigation Plan - City of Charlotte Action #7	The enforcement of the flood damage prevention ordinance	13000016	Atascosa	121101090402,121101090404,121101100401	13000397,13000399,13000426	Regulatory and Guidance	1.97	Riverine, Urban,	13003214	00000096,00000255,00000290,13003214	Y	\$ 75,000.00	-
13200014	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #3	Enforcement of flood damage prevention ordinance	13000016	Atascosa	121101100206,121101100402,121101100405	13000419,13000427,13000428	Regulatory and Guidance	3.48	Riverine, Urban,	13003116	00000096,00000255,00000290,13003116	Y	\$ 75,000.00	-
13200015	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #6	Install educational signage such as "turn around don't drown" at high risk low water crossings	13000002	Atascosa	121101100206,121101100402,121101100405	13000419,13000427,13000428	Education and Outreach	3.48	Riverine, Urban,	13003116	00000096,00000255,00000290,13003116	Y	\$ 25,000.00	-
13200016	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #4	Maintain Storm Drainage System	13000013	Atascosa	121101100206,121101100402,121101100405	13000419,13000427,13000428	Infrastructure Projects	3.48	Riverine, Urban,	13003116	00000096,00000255,00000290,13003116	Y	\$ 40,000.00	-
13200024	Atascosa McMullen Hazard Mitigation Plan - City of Poteet Action #2	Increase local enforcement of the flood damage prevention ordinance by hiring a more full time staff	13000016	Atascosa	121101100203	13000416	Regulatory and Guidance	1.66	Riverine, Urban,	13003118	00000096,00000255,00000290,13003118	Y	\$ 530,000.00	-
13200027	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Create a Buyout Program for Repetitive Loss	This action will develop and implement a program to buyout repetitive loss properties to expand drainage systems.	13000013	Jim Wells	121102040404,121102040405	13000496,13000513	Property Acquisition and Structural Elevation	12.7	Riverine, Urban,	13003128	13000080,00000260,00000290,13001788,13003128	Y	\$ 5,000,000.00	-
13200028	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Restrict development in high hazard areas (City of Alice)	The City of Alice will re-evaluate all existing floodplain construction restrictions to identify strengths and weaknesses and update.	13000016	Jim Wells	121102040404,121102040405	13000496,13000513	Regulatory and Guidance	12.7	Riverine, Urban,	13003128	13000080,00000260,00000290,13001788,13003128	Y	\$ 200,000.00	-
13200030	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Mandate Freeboard on Structures to Reduce Flooding Damage	Jim Wells County will re-evaluate all existing floodplain construction restrictions to identify strengths and weaknesses in order to produce a new ordinance, update its existing flood damage prevention ordinance, and / or update its zoning code.	13000016	Brooks,Kleberg,Nueces,Duval,Jim Wells,San Patricio,Live Oak			Regulatory and Guidance	867.95	Riverine, Urban,	13000080	13000079,13000080,13000081,13000089,00000260,00000290,13000409,13000585,13000779,13000842,13001666,13001741,13001788,13003127,13003128,13003130,13003131	Y	\$ 200,000.00	-
13200036	Jim Wells County Flood Warning System	A county wide flood warning system	13000007	Brooks,Kleberg,Nueces,Duval,Jim Wells,San Patricio,Live Oak			Flood Measurement and Warning	867.95	Riverine, Urban,	13000080	13000079,13000080,13000081,13000089,00000260,00000290,13000409,13000585,13000779,13000842,13001666,13001741,13001788,13003127,13003128,13003130,13003131	Y	\$ 250,000.00	-

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FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Total Strategy Cost (\$)	Potential Funding Sources and Amount
13200037	Citywide Stormwater System Inspection	Inspect the City's storm water infrastructure to determine needed repairs.	13000013	Kleberg,Nueces,San Patricio	121101110706,121101110705,121101110707,121102010001,121102010003,121102010005,121102010004,121102020200,121102020106,121102020104,121102020101,121102020105,121102020102,121102020103,121102020107,121102020300,121102030100,121102030204	13000442,13000447,13000448,13000479,13000481,13000482,13000608,13000609,13000610,13000611,13000612,13000613,13000614,13000615,13000616,13000617,13000618,13000619,13000620,13000621,13000622,13000623,13000624	Other	158.01	Riverine, Coastal, Urban, Other,	13002900	13000077,13000078,13000081,00000260,00000290,13000409,13000585,13000876,13000981,13000982,13001739,13002900,13002930,13003368	Y	\$ 250,000.00	-
13200038	Flood Mitigation Public Education	Design and implement a program for public education. The program will educate citizens on methods of hazard mitigation and risk reduction. To be incorporated into Aransas County's floodplain management program as part of CRS.	13000022	Nueces,San Patricio,Aransas,Refugio	121004040000,121004070404,121004070402,121004030200,121004050400,121004050203,121004050305,121004050204,121004050304,121004050306,121004050307,121004050308,121004050303,121004050205,121004050302,121004050102,121004050103,121004050505	13000026,13000028,13000592,13000594,13000595,13000596,13000597,13000598,13000599,13000600,13000602,13000603,13000606,13000607,13000627	Education and Outreach	281.79	Riverine, Coastal, Urban,	00000083	13000078,13000081,00000083,00000084,00000260,00000264,00000290,0000291,13000381,13000409,13000576,13000585,13000586,00000714,13000727,00000758,13000881,13000981,13001044,00001608,13002735,13002900,13003368,13003450,13003451	Y	\$ 50,000.00	-
13200039	Aransas County Wetlands Preservation Plan	Aransas County Texas Multi-Jurisdictional Hazard Mitigation Action Plan - Action #4: Create a county-wide wetlands preservation plan	13000008, 13000020	Nueces,San Patricio,Aransas,Refugio	121004040000,121004070404,121004070402,121004030200,121004050400,121004050203,121004050305,121004050204,121004050304,121004050306,121004050307,121004050308,121004050303,121004050205,121004050302,121004050102,121004050103,121004050505	13000026,13000028,13000592,13000594,13000595,13000596,13000597,13000598,13000599,13000600,13000602,13000603,13000606,13000607,13000627	Regulatory and Guidance	281.79	Riverine, Coastal, Urban,	00000083	13000078,13000081,00000083,00000084,00000260,00000264,00000290,0000291,13000381,13000409,13000576,13000585,13000586,00000714,13000727,00000758,13000881,13000981,13001044,00001608,13002735,13002900,13003368,13003450,13003451	Y	\$ 5,000,000.00	-
13200040	Aransas County Flood Warning System	The county needs flood warning systems throughout the region.	13000007	Nueces,San Patricio,Aransas,Refugio	121004040000,121004070404,121004070402,121004030200,121004050400,121004050203,121004050305,121004050204,121004050304,121004050306,121004050307,121004050308,121004050303,121004050205,121004050302,121004050102,121004050103,121004050505	13000026,13000028,13000592,13000594,13000595,13000596,13000597,13000598,13000599,13000600,13000602,13000603,13000606,13000607,13000627	Flood Measurement and Warning	281.79	Riverine, Coastal, Urban,	00000083	13000078,13000081,00000083,00000084,00000260,00000264,00000290,0000291,13000381,13000409,13000576,13000585,13000586,00000714,13000727,00000758,13000881,13000981,13001044,00001608,13002735,13002900,13003368,13003450,13003451	Y	\$ 250,000.00	-
13200041	Bee County Emergency Warning System	COASTAL BEND MITIGATION ACTION PLAN - BE - 05: Emergency Warning and Public Information System, Bee County and the City of Beeville's capacity to communicate warnings and emergency information to residents is limited to a siren in Beeville's city limits.	13000007	San Patricio,Refugio,Bee,Live Oak,Goliad,Karnes			Flood Measurement and Warning	878.78	Riverine, Urban,	13000087, 13002711	13000087,13000089,00000090,00000095,00000255,00000260,00000264,00000282,00000290,13000409,13000585,00000714,00000758,13001487,13001488,13002711	Y	\$ 250,000.00	-
13200042	San Patricio County Dam Failure Education Program	San Patricio County Hazard Mitigation Action Plan - San Patricio County, Action #5: Develop and implement a dam failure hazard education program to provide information on the potential for dam failure and the associated risks.	13000022	Nueces,Jim Wells,San Patricio,Aransas,Refugio,Bee, Live Oak			Education and Outreach	704.79	Riverine, Coastal, Urban,	13000081	13000087,13000089,00000090,00000095,00000255,00000260,00000264,00000282,00000290,13000409,13000585,00000714,00000758,13001487,13001488,13002711	Y	\$ 50,000.00	-
13200043	Ingleside on the Bay Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Ingleside on the Bay, Action #11: Adopt ASFPM's "No Adverse Impact" policy to mitigate local flooding.	13000007	Nueces,San Patricio	121102010003,121102010005	13000481,13000482	Regulatory and Guidance	0.31	Riverine, Coastal, Urban,	13003248	13000078,13000081,00000260,00000290,13000409,13000585,13000586,13002900,13002930,13003248	Y	\$ 100,000.00	-
13200044	Odem Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Odem, Action #5: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	13000007	San Patricio	121004070302,121102010001	13000031,13000479	Regulatory and Guidance	1.27	Riverine, Urban,	13003412	13000081,00000260,00000290,13000409,13000585,13000586,13003412	Y	\$ 100,000.00	-
13200045	Odem Flood Awareness Program	San Patricio County Hazard Mitigation Action Plan - City of Odem, Action #15: Implement a flood awareness program by providing FEMA/NFIP materials to mortgage lenders, real estate agents and insurance agents and place them in local libraries.	13000022	San Patricio	121004070302,121102010001	13000031,13000479	Education and Outreach	1.27	Riverine, Urban,	13003412	13000081,00000260,00000290,13000409,13000585,13000586,13003412	Y	\$ 50,000.00	-
13200046	Portland Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Portland, Action #4: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	13000007	Nueces,San Patricio	121004070403,121102010002,121102010003,121102010005,121102010004	13000043,13000480,13000481,13000482,13000624	Regulatory and Guidance	15.13	Riverine, Coastal, Urban,	13003233	13000078,13000081,00000260,00000290,13000409,13000585,13000586,13002900,13003233	Y	\$ 100,000.00	-
13200047	Sinton Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Sinton, Action #2: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	13000007	San Patricio	121004070302,121004070303,121004070304	13000031,13000034,13000046	Regulatory and Guidance	2.97	Riverine, Urban,	13002864	13000081,00000260,00000290,13000409,13000585,13002864	Y	\$ 100,000.00	-
13200048	Floodplain Management Training	San Patricio County Hazard Mitigation Action Plan - City of Sinton, Action #14: Cross-train building inspectors in floodplain management requirements.	13000007	San Patricio	121004070302,121004070303,121004070304	13000031,13000034,13000046	Education and Outreach	2.97	Riverine, Urban,	13002864	13000081,00000260,00000290,13000409,13000585,13002864	Y	\$ 75,000.00	-
13200049	Taft Flood Awareness Program	San Patricio County Hazard Mitigation Action Plan - City of Taft, Action #11: Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" program	13000007, 13000022	San Patricio	121004070403,121004070305	13000043,13000044	Education and Outreach	1.67	Riverine, Coastal, Urban,	13002882	13000081,00000260,00000290,13000409,13000585,13000586,13002882	Y	\$ 25,000.00	-
13200050	Nueces Basin Minimum Flood Management Standards	Promote minimum flood management standards ) and identify and promote best practices to maintain drainage structures. Minimum flood management standards to require 1 ft above 100-year BFE or based on local ordinances, whichever is more stringent.	13000016	Atascosa,Wilson,Kinney,Uvalde,Medina,Bexar,Bandera,Real,Edwards,Kerr,Brooks,Kennedy,Jim Hogg,Kleberg,Nueces,Duval,Jim Wells,San Patricio,Webb,Aransas,Refugio,Dimmit,La Salle,McMullen,Bee,Live Oak,Goliad,Maverick,Zavala,F			Regulatory and Guidance	24051.79	Riverine, Coastal, Urban, Other,	00000290	13000001,00000005,00000007,00000011,00000015,00000021,00000022,00000073,00000074,00000076,13000077,13000078,13000079,13000080,13000081,00000082,00000083,00000084,13000085,13000086,13000087,13000089,00000090,00000091,13000092,13000093,00000095,00000096,000	N	\$ 100,000.00	-

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FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Total Strategy Cost (\$)	Potential Funding Sources and Amount
13200051	Nueces Basin flood public information campaign	Identify local, subregional workgroups aligned with flooding issues. Develop public information campaign templates with relevant flood-related communications.	13000028	Atascosa,Wilson,Kinney,Duval,Medina,Bexar,Bandera,Real,Edwards,Kerr,Brooks,Kenedy,Jim Hogg,Kleberg,Nueces,Duval,Jim Wells,San Patricio,Webb,Aransas,Refugio,Dimmit,La Salle,McMullen,Bee,Live Oak,Goliad,Maverick,Zavala,F			Education and Outreach	24051.79	Riverine, Coastal, Urban, Other,	00000290	13000001,00000005,00000007,00000011,00000015,00000021,00000022,00000073,00000074,00000076,13000077,13000078,13000079,13000080,13000081,00000082,00000083,00000084,13000085,13000086,13000087,13000089,00000090,00000091,13000092,13000093,00000095,00000096,000	N	\$ 100,000.00	-
13200052	Shell Point Ranch Wetlands Protection	Texas Coastal Resiliency Master Plan - R3-5: Acquisition of approx 400 acres of coastal habitats and the southernmost extents of mima mounds at Shell Point Ranch. The acquisition also would mitigate flooding and storm surge damage to the area.	13000020	Aransas	121004050103,121004050205	13000607,13000627	Property Acquisition and Structural Elevation	1.08	Riverine, Coastal,	00003593	00000083,00000260,13003452	Y	\$ 5,100,000.00	-
13200053	Aransas County Coastal Erosion Response Plan	Aransas County Texas Multi-Jurisdictional Hazard Mitigation Action Plan - Action #9: Create an erosion response plan. New and existing buildings and infrastructure will benefit from coastal erosion protection	13000016	Aransas	121004070404,121004070402,121004050400,121004050203,121004050305,121004050204,121004050304,121004050306,121004050307,121004050308,121004050303,121004050302,121004050102,121004050103,121102020200,121004050205	13000026,13000028,13000592,13000594,13000595,13000596,13000597,13000598,13000599,13000600,13000602,13000603,13000606,13000607,13000608,13000627	Other	458.96	Riverine, Coastal, Urban,	00000083	00000083	Y	\$ 2,650.00	County and Municipal Budgets, Coastal Management Program (CMP) Grant -
13200054	Aransas County Educational Signage Program	Aransas County Multi-Jurisdictional Floodplain Management Plan - Action 3.1.e: Develop and install educational signage regarding flood safety to located along low areas of roadways likely to flood.	13000001	Aransas	121004070404,121004070402,121004050400,121004050203,121004050305,121004050204,121004050304,121004050306,121004050307,121004050308,121004050303,121004050302,121004050102,121004050103,121102020200,121	13000026,13000028,13000592,13000594,13000595,13000596,13000597,13000598,13000599,13000600,13000602,13000603,13000606,13000607,13000608,13000627	Education and Outreach	458.96	Riverine, Coastal, Urban,	00000083	00000083	Y	\$ 7,000.00	Local Budget, GOMA Award -
13200055	Aransas Pass Flood Mitigation Policy	Incorporate higher floodplain management standards into City of Aransas Pass comprehensive plan update.	13000017	Aransas	121004050400,121004050204,121102020200	13000592,13000596,13000608	Regulatory and Guidance	52.4	Riverine, Coastal, Urban,	13002735	13002735	Y	\$ 81,000.00	-
13200056	Duval County Master Plan- Refine City of Freer Earthen Channel Maintenance Program	Revamp maintenance program for clearing excess debris and vegetation from the earthen channel. Prioritize the cross drains on the upstream side of the earthen channel.	13000025	Duval	121101051001	13000224	Other	0.02	Urban,	13000079	13000079,00000260,13001665,13003411,13003452	Y	\$ 40,000.00	-
13200057	Duval County Master Plan- Adopt and Enforce Design Standards and Ordinances in Freer	Adopt and enforce design standards and ordinances for new construction projects. Separate design standards exclusively about drainage should be considered.	13000016	Duval	121101051001	13000224	Regulatory and Guidance	4.11	Urban,	13000079	13000079,00000260,00000290,13001665,13001666,13003411,13003452	Y	\$ 100,000.00	-
13200058	Duval County Master Plan- Procure Easements for Drainage Infrastructure in Freer	Significant structures in Freer's drainage system are on private property, and the city does not have an access or maintenance easement. Freer should procure easements to these locations so structures can be maintained without private party involvement.	13000025	Duval	121101051001	13000224	Other	4.11	Urban,	13000079	13000079,00000260,00000290,13001665,13001666,13003411,13003452	Y	\$ 20,000.00	-
13200059	Duval County Master Plan- Clean and Maintain Drainage Infrastructure in San Diego	Clear, clean, and maintain current stormwater drainage infrastructure such as curbs and gutters on roads, culverts, ditches, inlets, and outfalls into San Diego Creek.	13000025	Duval,Jim Wells	121102040304,121102040309,121102040310	13000505,13000508,13000509	Other	1.9	Riverine, Urban,	13000079,13000080	13000079,13000080,00000260,00000290,13001666,13001741,13003127,13003452	Y	\$ 205,000.00	-
13200060	Duval County Master Plan- Adopt and Enforce Design Standards and Ordinances in San Diego	Adopt and enforce design standards and ordinances for new construction projects. Separate design standards exclusively about drainage should be considered.	13000016	Duval,Jim Wells	121102040304,121102040309,121102040310	13000505,13000508,13000509	Regulatory and Guidance	1.65	Riverine, Urban,	13000079,13000080	13000079,13000080,00000260,00000290,13001666,13001741,13003127,13003452	Y	\$ 100,000.00	-

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FMS ID	FMS Name	Description	Flood Risk										Reduction in Flood Risk										Cost/ Structure removed	Considerati on of Nature- based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommen dation (Y/N)	Reason for Recommendation		
			Area in 100yr (1% annual chance) Floodplai n	Area in 500yr (0.2% annual chance) Floodplai n	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Populatio n at flood risk	Critical facilities at flood risk (#)	Low water crossings at flood risk (#)	Estimated road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm land at flood risk (acres)	Number of structures with reduced 1% Flood risk	Number of structures removed from 1% Flood risk	Number of structures removed from 0.2% Flood risk	Habitable structures removed from 1% Flood risk	Estimated Pop removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 1% Flood risk (#)	Number of low water crossings removed from 1% Flood risk (#)	Estimated reduction in road closures	Estimated length of roads removed from 1% flood risk (Miles)	Estimated active farm & ranch land removed from 1% flood risk (acres)								Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
13200001	Education and Outreach	Create a public outreach program to educate the community on the benefits of building code enforcement and flood hazard mitigation strategies. Also, coordinate regionally regarding flood early warning systems currently implemented in our region.	4.44	1.23	592.00	425.00	2211.00	3.00	5.00	67.00	15.00	1095.85													0	Yes	N		N	Y	high need, in vulnerable area
13200002	Review and Adoption of Updated Building Codes	Review and Adoption of Updated Building Codes	4.44	1.23	592.00	425.00	2211.00	3.00	5.00	67.00	15.00	1095.85													0	Yes	N		N	Y	high need, in vulnerable area
13200003	Subdivision Ordinance Revision	Create new Subdivision Ordinance and development standards to ensure the city is proactive in our regulatory practices and to ensure that the standards align with flood hazard mitigation strategies.	4.44	1.23	592.00	425.00	2211.00	3.00	5.00	67.00	15.00	1095.85													0	Yes	N		N	Y	high need, in vulnerable area
13200004	Update City's Flood Hazard Mitigation Ordinance	Update the City's Flood Hazard Mitigation Ordinance to ensure proper regulation of NFIP requirements and to implement higher standards of floodplain management.	4.44	1.23	592.00	425.00	2211.00	3.00	5.00	67.00	15.00	1095.85													0	Yes	N		N	Y	high need, in vulnerable area
13200006	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #1	Place flood gauges upstream of flood-prone areas to alert citizens to quickly rising waters.	189.68	63.27	1947.00	1498.00	3669.00	1.00	28.00	570.00	141.00	3068.91													0	Yes	N		N	Y	high need area
13200007	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #5	Inventory of all low water crossing in the county and develop a prioritize projects in a COP for upgrades or replacement.	189.68	63.27	1947.00	1498.00	3669.00	1.00	28.00	570.00	141.00	3068.91													0	Yes	N		N	Y	high need area
13200009	Atascosa McMullen Hazard Mitigation Plan - Atascosa County Action #12	Establish and implement a voluntary "acquisition and demo program" to address repetitive loss to floodprone properties.	189.68	63.27	1947.00	1498.00	3669.00	1.00	28.00	570.00	141.00	3068.91													0	Yes	N		N	Y	high need area
13200011	Atascosa McMullen Hazard Mitigation Plan - City of Charlotte Action #7	The enforcement of the flood damage prevention ordinance	0.08	0.04	3.00	3.00	4.00	0.00	0.00	10.00	0.00	0.00													0	Yes	N		N	Y	high need area
13200014	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #3	Enforcement of flood damage prevention ordinance	0.19	0.15	18.00	11.00	113.00	0.00	0.00	25.00	1.00	1.34													0	Yes	N		N	Y	high need area
13200015	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #6	Install educational signage such as "turn around don't drown" at high risk low water crossings	0.19	0.15	18.00	11.00	113.00	0.00	0.00	25.00	1.00	1.34													0	Yes	N		N	Y	high need area
13200016	Atascosa McMullen Hazard Mitigation Plan - City of Jourdan Action #4	Maintain Storm Drainage System	0.19	0.15	18.00	11.00	113.00	0.00	0.00	25.00	1.00	1.34													0	Yes	N		N	Y	high need area
13200024	Atascosa McMullen Hazard Mitigation Plan - City of Poteet Action #2	Increase local enforcement of the flood damage prevention ordinance by hiring a more full time staff	0.30	0.06	259.00	224.00	471.00	0.00	0.00	35.00	5.00	0.76													0	Yes	N		N	Y	high need area
13200027	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Create a Buyout Program for Repetitive Loss	This action will develop and implement a program to buyout repetitive loss properties to expand drainage systems.	3.96	6.54	893.00	572.00	6681.00	8.00	4.00	296.00	19.00	131.84													0	Yes	N		N	Y	high need area
13200028	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Restrict development in high hazard areas (City of Alice)	The City of Alice will re-evaluate all existing floodplain construction restrictions to identify strengths and weaknesses and update.	3.96	6.54	893.00	572.00	6681.00	8.00	4.00	296.00	19.00	131.84													0	Yes	N		N	Y	high need area
13200030	City of Alice & Jim Wells County Multi-Hazard Mitigation Plan - Mandate Freeboard on Structures to Reduce Flooding Damage	Jim Wells County will re-evaluate all existing floodplain construction restrictions to identify strengths and weaknesses in order to produce a new ordinance, update its existing flood damage prevention ordinance, and / or update its zoning code.	201.35	53.99	2398.00	1145.00	8685.00	9.00	13.00	624.00	201.00	25815.62													0	Yes	N		N	Y	high need area
13200036	Jim Wells County Flood Warning System	A county wide flood warning system	201.35	53.99	2398.00	1145.00	8685.00	9.00	13.00	624.00	201.00	25815.62													0	Yes	N		N	Y	high need area

Appendix A.12  
Flood Management Strategies Recommended by RFPG

FMS ID	FMS Name	Description	Flood Risk										Reduction in Flood Risk										Cost/ Structure removed	Considerati on of Nature- based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommen dation (Y/N)	Reason for Recommendation			
			Area in 100yr (1% annual chance) Floodplai n	Area in 500yr (0.2% annual chance) Floodplai n	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Populatio n at flood risk	Critical facilities at flood risk (#)	Low water crossings at flood risk (#)	Estimated road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm land at flood risk (acres)	Number of structures with reduced 1% Flood risk	Number of structures removed from 1% Flood risk	Number of structures removed from 0.2% Flood risk	Habitable structures removed from 1% Flood risk	Estimated Pop removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 1% Flood risk (#)	Number of low water crossings removed from 1% Flood risk (#)	Estimated reduction in road closures	Estimated length of roads removed from 1% flood risk (Miles)	Estimated active farm & ranch land removed from 1% flood risk (acres)								Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	
13200037	Citywide Stormwater System Inspection	Inspect the City's storm water infrastructure to determine needed repairs.	40.82	18.17	18577.00	16324.00	61330.00	114.00	0.00	2089.00	375.00	3908.27														0	Yes	N		N	Y	High risk area
13200038	Flood Mitigation Public Education	Design and implement a program for public education. The program will educate citizens on methods of hazard mitigation and risk reduction. To be incorporated into Aransas County's floodplain management program as part of CRS.	111.33	37.82	3334.00	2828.00	4790.00	4.00	0.00	548.00	103.00	571.30														0	Yes	N		N	Y	High risk area
13200039	Aransas County Wetlands Preservation Plan	Aransas County Texas Multi-Jurisdictional Hazard Mitigation Action Plan - Action #4: Create a county-wide wetlands preservation plan	111.33	37.82	3334.00	2828.00	4790.00	4.00	0.00	548.00	103.00	571.30														0	Yes	N		N	Y	Nature Based Solution
13200040	Aransas County Flood Warning System	The county needs flood warning systems throughout the region.	111.33	37.82	3334.00	2828.00	4790.00	4.00	0.00	548.00	103.00	571.30														0	Yes	N		N	Y	High risk area
13200041	Bee County Emergency Warning System	COASTAL BEND MITIGATION ACTION PLAN - BE - 05: Emergency Warning and Public Information System, Bee County and the City of Beeville's capacity to communicate warnings and emergency information to residents is limited to a siren in Beeville's city limits.	163.19	45.33	1617.00	792.00	6275.00	27.00	34.00	399.00	113.00	10462.88														0	Yes	N		N	Y	High risk area
13200042	San Patricio County Dam Failure Education Program	San Patricio County Hazard Mitigation Action Plan - San Patricio County, Action #5: Develop and implement a dam failure hazard education program to provide information on the potential for dam failure and the associated risks.	179.43	38.36	5577.00	4182.00	10683.00	23.00	13.00	913.00	288.00	30916.99														0	Yes	N		N	Y	High risk area
13200043	Ingleside on the Bay Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Ingleside on the Bay, Action #11: Adopt ASFP's "No Adverse Impact" policy to mitigate local flooding.	0.09	0.02	157.00	153.00	232.00	0.00	0.00	20.00	2.00	0.00														0	Yes	N		N	Y	provide regional support of local policies
13200044	Odem Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Odem, Action #5: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	0.24	0.08	137.00	110.00	293.00	0.00	0.00	18.00	3.00	38.44														0	Yes	N		N	Y	provide regional support of local policies
13200045	Odem Flood Awareness Program	San Patricio County Hazard Mitigation Action Plan - City of Odem, Action #15: Implement a flood awareness program by providing FEMA/NFIP materials to mortgage lenders, real estate agents and insurance agents and place them in local libraries.	0.24	0.08	137.00	110.00	293.00	0.00	0.00	18.00	3.00	38.44														0	Yes	N		N	Y	provide regional support of local policies
13200046	Portland Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Portland, Action #4: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	1.89	0.71	285.00	251.00	600.00	3.00	0.00	87.00	19.00	267.55														0	Yes	N		N	Y	provide regional support of local policies
13200047	Sinton Flood Mitigation Policy	San Patricio County Hazard Mitigation Action Plan - City of Sinton, Action #2: Adopt higher floodplain standards above the minimum requirements to provide additional flood protection to new development.	1.23	0.54	762.00	612.00	2145.00	2.00	0.00	87.00	15.00	69.11														0	Yes	N		N	Y	provide regional support of local policies
13200048	Floodplain Management Training	San Patricio County Hazard Mitigation Action Plan - City of Sinton, Action #14: Cross-train building inspectors in floodplain management requirements.	1.23	0.54	762.00	612.00	2145.00	2.00	0.00	87.00	15.00	69.11														0	Yes	N		N	Y	provide regional support of local policies
13200049	Taft Flood Awareness Program	San Patricio County Hazard Mitigation Action Plan - City of Taft, Action #11: Educate community on the dangers of low water crossings through the installation of warning signs and promotion of "Turn Around, Don't Drown" program	0.35	0.14	89.00	81.00	180.00	0.00	0.00	34.00	2.00	99.32														0	Yes	N		N	Y	High risk area
13200050	Nueces Basin Minimum Flood Management Standards	Promote minimum flood management standards ) and identify and promote best practices to maintain drainage structures. Minimum flood management standards to require 1 ft above 100-year BFE or based on local ordinances, whichever is more stringent.	4540.08	1278.58	60967.00	42976.00	136543.00	445.00	526.00	7400.00	3215.00	251436.97														0	Yes	N		N	Y	needed to meet Goal 6 (min. flood standards)

Appendix A.12  
Flood Management Strategies Recommended by RFPG

FMS ID	FMS Name	Description	Flood Risk									Reduction in Flood Risk										Cost/ Structure removed	Considerati on of Nature- based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)	RFPG Recommen dation (Y/N)	Reason for Recommendation			
			Area in 100yr (1% annual chance) Floodplai n	Area in 500yr (0.2% annual chance) Floodplai n	Estimated number of structures at 100yr flood risk	Habitable structures at flood risk	Estimated Populatio n at flood risk	Critical facilities at flood risk (#)	Low water crossings at flood risk (#)	Estimated road closures (#)	Estimated length of roads at flood risk (Miles)	Estimated active farm land at flood risk (acres)	Number of structures with reduced 1% Flood risk	Number of structures removed from 1% Flood risk	Number of structures removed from 0.2% Flood risk	Habitable structures removed from 1% Flood risk	Estimated Pop removed from 100yr (1% annual chance) Flood risk	Critical facilities removed from 1% Flood risk (#)	Number of low water crossings removed from 1% Flood risk (#)	Estimated reduction in road closures occurrences	Estimated length of roads removed from 1% flood risk (Miles)								Estimated active farm & ranch land removed from 1% flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)
13200051	Nueces Basin flood public information campaign	Identify local, subregional workgroups aligned with flooding issues. Develop public information campaign templates with relevant flood-related communications.	4540.08	1278.58	60967.00	42976.00	136543.00	445.00	526.00	7400.00	3215.00	251436.97													0	Yes	N		N	Y	needed to meet Goal 8 (flood public information campaign)
13200052	Shell Point Ranch Wetlands Protection	Texas Coastal Resiliency Master Plan - R3-5: Acquisition of approx 400 acres of coastal habitats and the southernmost extents of mima mounds at Shell Point Ranch. The acquisition also would mitigate flooding and storm surge damage to the area.	1.02	0.06	1.00	1.00	1.00	0.00	0.00	0.00	1.00	4.55													0	Yes	N		N	Y	Nature based solution
13200053	Aransas County Coastal Erosion Response Plan	Aransas County Texas Multi-Jurisdictional Hazard Mitigation Action Plan - Action #9: Create an erosion response plan. New and existing buildings and infrastructure will benefit from coastal erosion protection	18.55	6.30	3334.00	2828.00	4790.00	4.00	0.00	548.00	103.00	571.25													0	Yes	N		N	Y	priority based on stakeholder interview
13200054	Aransas County Educational Signage Program	Aransas County Multi-Jurisdictional Floodplain Management Plan - Action 3.1.e: Develop and install educational signage regarding flood safety to located along low areas of roadways likely to flood.	18.55	6.30	3334.00	2828.00	4790.00	4.00	0.00	548.00	103.00	571.25													0	Yes	N		N	Y	sponsor requested; vulnerable area
13200055	Aransas Pass Flood Mitigation Policy	Incorporate higher floodplain management standards into City of Aransas Pass comprehensive plan update.	4.34	0.21	914.00	639.00	2022.00	0.00	0.00	138.00	32.00	4.77													0	Yes	N		N	Y	provide regional support of local policies
13200056	Duval County Master Plan- Refine City of Freer Earthen Channel Maintenance Program	Revamp maintenance program for clearing excess debris and vegetation from the earthen channel. Prioritize the cross drains on the upstream side of the earthen channel.	0.02	0.00	37.00	28.00	46.00	0.00	0.00	9.00	0.00	0.00													0	Yes	N		N	Y	Vulnerable area
13200057	Duval County Master Plan- Adopt and Enforce Design Standards and Ordinances in Freer	Adopt and enforce design standards and ordinances for new construction projects. Separate design standards exclusively about drainage should be considered.	0.80	0.20	259.00	173.00	343.00	0.00	0.00	38.00	5.00	10.36													0	Yes	N		N	Y	Vulnerable area
13200058	Duval County Master Plan- Procure Easements for Drainage Infrastructure in Freer	Significant structures in Freer's drainage system are on private property, and the city does not have an access or maintenance easement. Freer should procure easements to these locations so structures can be maintained without private party involvement.	0.80	0.20	259.00	173.00	343.00	0.00	0.00	38.00	5.00	10.36													0	Yes	N		N	Y	Vulnerable area
13200059	Duval County Master Plan- Clean and Maintain Drainage Infrastructure in San Diego	Clear, clean, and maintain current stormwater drainage infrastructure such as curbs and gutters on roads, culverts, ditches, inlets, and outfalls into San Diego Creek.	0.42	0.16	207.00	170.00	482.00	0.00	0.00	57.00	6.00	3.55													0	Yes	N		N	Y	High risk area
13200060	Duval County Master Plan- Adopt and Enforce Design Standards and Ordinances in San Diego	Adopt and enforce design standards and ordinances for new construction projects. Separate design standards exclusively about drainage should be considered.	0.30	0.13	210.00	176.00	489.00	0.00	0.00	57.00	6.00	0.81													0	Yes	N		N	Y	High risk area