



Round 2 Management Actions Workshop – SMALL COMMUNITIES

DRAFT WORKSHOP WORKSHEET

Management Action Category/ ➤ Subcategory	Compatibilities with Small Communities	Conditions that Support Implementation	Implementation Challenges	Ways to Alleviate Implementation Challenges
Floodplain Management ➤ Floodproofing (wet floodproofing; dry floodproofing)	<ul style="list-style-type: none"> • Could provide overall improved protection of lives and property over the long term • Allows community to stay intact (avoids relocation or major infrastructure changes) • Can provide protection of critical infrastructure • ... 	<ul style="list-style-type: none"> • Minimal agricultural, infrastructure, and urban development • Relatively shallow flood depths; slow rate of rise of flood water; low velocity flood waters • Certain types of structures such as structures that must be located near water (docking, seafood processing, port facilities), accessory structures (parking structures, detached garages, storage facilities) • ... 	<ul style="list-style-type: none"> • Local zoning regulations • Building standards adoption and enforcement can be challenging in small communities due to resources limitations • May also require changes to infrastructure/utilities and common areas • Accessibility and evacuation (access, egress) • ... 	<ul style="list-style-type: none"> • Goes along with Policy and Regulations MAs that encourage compatible land uses with floodplain function • Can combine alternative floodproofing techniques (wet/dry floodproofing, elevation, relocation) • ...



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Floodplain Management ➤ Acquisitions and buyouts	<ul style="list-style-type: none"> • Overall improved protection of lives and property over the long term • ... 	<ul style="list-style-type: none"> • More opportunity for compatible land use management in small communities and non-urban settings where land use not yet developed • ... 	<ul style="list-style-type: none"> • Local zoning regulations • Private property rights, and water rights • Costs may be high; potential reduction in tax revenue • Not politically or publicly popular • ... 	<ul style="list-style-type: none"> • Leverage funding from multiple projects to receive flood benefits as part of larger, regional projects • ...



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Floodplain Management ➤ Risk awareness/mapping ➤ Insurance	<i>Management actions in this subcategory are community-independent</i>			



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Flood Protection System Modification ➤ Ring Levees	<ul style="list-style-type: none"> Increases level of protection from flood for small communities Increases flood protection which can provide increased security and stability, and in turn can help improve social, political, financial well being of a small community ... 	<ul style="list-style-type: none"> Small communities with compact, contiguous development Requires suitable geotechnical conditions Requires suitable topographic conditions ... 	<ul style="list-style-type: none"> Costs may be high for a small community to bear, such as O&M costs to maintain ring levee long-term Potential impacts to community land uses as a result of levee footprint May preclude future community development/growth Potential impacts to transportation corridors or utility infrastructure into/out of the community Potential to isolate the community ... 	<ul style="list-style-type: none"> Leverage funding from multiple projects to receive flood benefits as part of larger, regional projects Design levees with potential future expansion needs in mind Easements to compensate for changes in land uses ...



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Additional Floodplain & Reservoir Storage ➤ <i>Floodplain Storage (transitory storage)</i>	<ul style="list-style-type: none"> • Could increase level of protection from flood for small communities located downstream of transitory storage • Improved flood protection can provide increased security and stability which can help improve social, political, financial well being of a small community • Could augment local water supplies (through groundwater recharge) • ... 	<ul style="list-style-type: none"> • Large areas connected to historical floodways w/o small community development or w/small communities protected by ring levees • ... 	<ul style="list-style-type: none"> • If lands taken out of production, loss of local tax base and potential impact on community-based industries • Potential impacts to community's adjacent lands and uses and potential for future community development • ... 	<ul style="list-style-type: none"> • Flood easements to compensate for changes in adjacent land use • Incorporate/integrate recreation or other small community benefits • Post-flood recovery programs to assist in clean-up. • ...



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<p>Additional Floodplain & Reservoir Storage ➤ <i>Reservoir Storage</i></p>	<ul style="list-style-type: none"> • Could increase level of protection from flood to small communities • Increased flood protection provides increased security and stability which can help improve social, political, financial well being of a small community • ... 	<ul style="list-style-type: none"> • Areas with minimal community development • ... 	<ul style="list-style-type: none"> • Limited financial resources within small communities • Can impact downstream channel conditions, such as aggradations due to reduced channel flows • ... 	<ul style="list-style-type: none"> • Systemwide coordinated operations achieved thru Flood operations agreements • Greater financial incentives are available for multi-benefit projects • ...



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<p>Storage Operations ➤ Objective releases ➤ Flood storage allocation</p>	<ul style="list-style-type: none"> • Could increase level of flood protection to small communities • Increased flood protection provides increased security and stability which can help improve social, political, financial well being of a small community • ... 	<ul style="list-style-type: none"> • Requires suitable downstream channel conditions • ... 	<ul style="list-style-type: none"> • Changes to objective releases could impact downstream channel conditions, such as aggradations due to reduced channel flows, which could add unintended risk to small communities adjacent to these downstream channels • Institutional structures and water control manuals currently in place are insufficient to support coordinated operations between upstream reservoirs and downstream systems which could result in unintended impacts to small communities • ... 	<ul style="list-style-type: none"> • Combine release changes w/downstream channel improvements as appropriate • Combine storage operations w/updates to water control manuals to include systemwide operations criteria as appropriate • Combine storage operations with new policies that address coordinate operations among local, state, and federal institutions • ...



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Disaster Preparedness and Flood Warning	<ul style="list-style-type: none"> • Improve speed and effectiveness of response to flood • Clear identification of small community flood fighting, emergency response and recovery role • Could provide overall improved protection of lives and property over the long term • ... 	<ul style="list-style-type: none"> • Availability and accessibility of flood fighting materials • ... 	<ul style="list-style-type: none"> • Long-term storage and upkeep costs for materials • Limited funding and institutional capacity • Local flood contingency planning and regional response planning challenges (access, egress, warning, and communications) • Confusion regarding flood fight roles and responsibilities • ... 	<ul style="list-style-type: none"> • Provide adequate funding and identify appropriate means for reimbursement • Documents and policies that clearly describe small community flood fighting role • Purchase and position flood fighting materials in preparation for a flood event • ...



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Flood Fighting, Emergency Response & Flood Recovery	<ul style="list-style-type: none"> • Improve speed and effectiveness of response to flood • Clear identification of small community flood fighting, emergency response and recovery role • Could provide overall improved protection of lives and property over the long term • ... 	<ul style="list-style-type: none"> • Levees clear of obstacles (i.e., unmaintained/unpermitted encroachments, large woody vegetation, etc.) that otherwise could impair flood fighting activities • Availability and accessibility of flood fighting materials, especially for communities that lack easy access to these materials • ... 	<ul style="list-style-type: none"> • Limited funding and institutional capacity • Financially punitive regulations governing non-jurisdictional response • Lack of comprehensive mutual aid agreements covering flood response • Confusion regarding flood fight roles and responsibilities • Critical infrastructure located within the floodplain • ... 	<ul style="list-style-type: none"> • Provide adequate funding and identify appropriate means for reimbursement • Address policies and procedures that govern roles/responsibilities at Federal, State, local level • Combine with land use policy MAs that encourage compatible land uses with floodplain • ...



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Ecosystem Restoration	<ul style="list-style-type: none"> Wetland creation in areas near small communities may be more accepted with cooperative efforts to use coalition building techniques to enhance flood protection to adjacent small communities ... 	<ul style="list-style-type: none"> ... 	<ul style="list-style-type: none"> Managing lands in floodplain for wildlife benefits might limit options for reducing flood risk to small communities in the floodplain Floodplain restoration is likely to occur in areas near small communities which will require stakeholder participation and buy-in which may be difficult ... 	<ul style="list-style-type: none"> ...



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Finance & Revenue	<ul style="list-style-type: none"> • ... 	<ul style="list-style-type: none"> • ... 	<ul style="list-style-type: none"> • Smaller tax revenues limit funding for maintenance and repair activities • Many small community areas have historically experienced difficulty securing federal funding because the value of local infrastructure and rural land uses do not outweigh the increasing cost of implementing flood-damage-reduction projects • Eliminating subsidies for structures that are repetitively damaged would be more difficult to implement in smaller communities with less resources • ... 	<ul style="list-style-type: none"> • Small communities could try to leverage federal and multiple projects to make O&M more affordable • ...



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Policy & Regulations	<ul style="list-style-type: none"> • More opportunity for compatible land use management in small community settings where land use not yet fully developed • ... 	<ul style="list-style-type: none"> • ... 	<ul style="list-style-type: none"> • ... 	<ul style="list-style-type: none"> • ...



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<p>Operations & Maintenance</p> <ul style="list-style-type: none"> ➤ Vegetation Mgmt ➤ Dredging & Clearing ➤ Administration of Encroachment s/penetrations ➤ Inspections, etc 	<p>•</p>	<p>•</p>	<p>•</p>	<p>•</p>



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Permitting	<i>Management actions in this category are community-independent</i>			



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