





Initial Screening of Measures - Flood Risk Management Projects

| Result | Measures | USACE Traditional Category | Modified Category | Completeness | | | | Effectiveness | | | | | | Efficiency | | | | | Acceptability | | | | | |
|---------------------------------------|---|----------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------------|--|---|---|---|--|--|--|--|---|---|---------------------------------------|--|-----------------------------|---|-----------------------------------|---|---|--------------------------------------|
| | | | | Minimizes Risk to the Community | Minimizes Impacts of Flooding | Incorporates upstream future actions | Eliminates Potential for Residual Risk | Reduces Flooding Greater than 500-Year Event (0.2%) | Reduces Flooding Greater than 100-Year Event (1%) | Reduces Flooding Greater than 10 Year Event (10%) | Reduces Flooding Greater than 2-Year Event (50%) | Project Does not Induce Unmitigated Flooding Upstream or Downstream of Project | Passive System (does not require human intervention outside of normal operation and maintenance) | Potential Damages Avoided exceed Implementation Cost | Provides Benefits to the General Public | Directly Reduces Community's Financial Response to Flooding | Improves conditions at multiple areas | Provides Benefits other than FRM (ecosystem) | No Adverse Environ. Impacts | Likely to be Permittable based on existing Laws | Acceptable to Community Officials | Meets USACE Definition for FRM (versus Stormwater Management) | Enhances Community Recreational Opportunities | Limited Time Until Benefits Realized |
| Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bridge Modifications | Structural | Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | |
| | Channel Modifications | Structural | Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | |
| | Inlet Modifications | Structural | Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | |
| | Reconnection of Floodplains | Structural | Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | |
| | Riparian Buffer | Green Infrastructure | Carrying Capacity Modification | | | | | | | | | | | | | | | | | | | | | |
| Flow Adjustments | | | | | | | | | | | | | | | | | | | | | | | | |
| | Retention/Detention | Structural | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Dry Dam/Detention | Structural | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Wetland Creation/Large Scale Rain Gardens | Structural | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Underground Storage | Structural | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Stormwater Controls | Non Structural | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Porous Pavement | Green Infrastructure | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Residential Rain Gardens | Green Infrastructure | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Rain Barrel | Green Infrastructure | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| | Bio-swale | Green Infrastructure | Flow Adjustments | | | | | | | | | | | | | | | | | | | | | |
| Property Protection | | | | | | | | | | | | | | | | | | | | | | | | |
| | Elevation | Non Structural | Property Protection | | | | | | | | | | | | | | | | | | | | | |
| | Buyout | Non Structural | Property Protection | | | | | | | | | | | | | | | | | | | | | |
| | Levee/Floodwall | Structural | Property Protection | | | | | | | | | | | | | | | | | | | | | |
| | Floodplain Management | Non Structural | Property Protection | | | | | | | | | | | | | | | | | | | | | |

| Definitions | |
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| Acceptability | The workability and viability of the alternative plan with respect to acceptance by state and local entities and the public and compatibility with existing laws, regulations, and public policies |
| Annual Exceedance Probability | The probability that flooding will occur in any given year considering the full range of possible annual floods |
| Carrying Capacity Modifications | Reduces water surface elevations through channel/floodplain modifications without impacting peak volume of water |
| Completeness | The extent to which an alternative plan provides and accounts for all necessary investments or other actions to ensure the realization of all planned effects |
| Effectiveness | The extent to which an alternative plan alleviates the specified problems and achieves the specified opportunities, as established in the planning objectives |
| Efficiency | The extent to which an alternative plan is the most cost effective means of alleviating the specified problems and realizing the specified opportunities as established in the planning objectives, consistent with protecting the nation's environment |
| Flow Adjustments | Reduces water surface elevations through reductions in the peak volume of water |
| Green Infrastructures | Reduces flood volume through natural hydrologic features such as infiltration, evapotranspiration, or re-use of rainwater for environmental purposes. Typically a subset of Non-Structural Measures |
| Measures | Single features or activities which address the planning objectives |
| Non-Structural | Nonstructural measures reduce flood damages without significantly altering the nature or extent of flooding. |
| Plans | Combinations of one or more measures functioning together to address one or more objectives |
| Property Protection | Protects property by modifications to the structure or management practices by reducing the impacts of flood water |
| Residual Risk | The flood risk that remains if a proposed flood damage reduction project is implemented |
| Structural | Decrease flood damages when plan features physically limit flooding of the flood prone area are constructed |

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|  | Measure meets the specified criteria | KEY |
|  | Measure does not meet the specified criteria | |
|  | Measure MUST meet this criteria for future consideration | |
|  | Measures recommended for detailed analysis | |