

## Hazard Mitigation Project Examples

| Project Name   | Goal/Objective being Met   | Hazard(s) Addressed             | Description of the Problem  | Overall Priority | Lead Agency         | Estimated Timeframe | Cost Estimate  | Potential Funding Source              |
|--|--|---------------------------------|---|------------------|---------------------|---------------------|--|---------------------------------------|
| Provide NOAA Weather Radios to low-income high-risk citizens of (jurisdiction name). | Goal X: Minimize the risk to life and property from severe storms; Goal X: Minimize the risk to life and property from Wind; Goal X: Minimize the risk to life and property from Tornadoes | Severe Weather, Wind, Tornadoes | Many citizens in (jurisdiction name) do not have a NOAA Weather Radio even though it is one of the most reliable methods to receive severe weather warnings. One of the reasons they do not have weather radios is the cost. Providing NOAA Weather Radio to low-income high-risk citizens (jurisdiction name) is important because Low-income residents are more vulnerable to emergencies and disasters. In addition, these residents may not have the disposable income to purchase a weather radio. This is why providing | Medium (26)      | (Jurisdiction name) | 2-5 years           | \$210,000.00 based on \$35.00 per radio for \$6,000.00 The number of radios provided could be scaled based on available funding. | General Fund; Federal or State Grants |

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| <p>Installation of a Tornado Storm Shelter</p>  | <p>Goal X: Minimize the risk to life and property from severe storms; Goal X: Minimize the risk to life and property from Wind; Goal X: Minimize the risk to life and property from Tornadoes</p>   | <p>Severe Weather, Wind, Tornadoes</p> | <p>(X) County and the participating jurisdictions are located in the Also, the "Dixie tornado alley" which put residents at greater risk for a tornado event. The installation of a storm shelter is necessary for (X) County because there are currently zero (0) public storm shelters within the entire county and participating jurisdictions.</p>  | <p>Medium (27)</p> | <p>(Jurisdiction name)</p> | <p>3-5 years</p> | <p>\$38,000 for shelter and site work</p> | <p>Hazard Mitigation Grant Program; Pre-Disaster Mitigation Grant Program</p> |
| <p>Investigate the Need for Heating and Cooling Centers for Vulnerable Population</p> | <p>Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach; Goal X: Integrate the pre-disaster mitigation plan's findings into the planning, and decision-making processes for all current and future emergency management and preparedness related activities</p> | <p>All Hazards</p>                     | <p>With the County/Participating Jurisdiction at high risk of severe weather, wind, and winter weather event, an assessment has been made that there needs to be adequate heating and cooling centers. Currently, there is ongoing support for the warming center within the jurisdiction. There has not been much work done with the operation of cooling centers within the jurisdiction.</p> | <p>Medium (26)</p> | <p>Jurisdiction Name</p>   | <p>1-3 years</p> | <p>Staff Time and Resources</p>           | <p>General Fund; Federal or State Grants</p>                                  |
| <p>Purchase Emergency Generators for All Water Pumping Stations and Lift Stations</p> | <p>Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach</p>   | <p>All Hazards</p>                     |   | <p>Low (26)</p>    | <p>Jurisdiction Name</p>   | <p>1-5 years</p> | <p>\$70,000-\$100,000</p>                 | <p>State//FEMA Grants</p>   |

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| Encourage Local Businesses to Develop COOP's   | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach | All Hazards     | Jurisdiction Name) needs to reach out to support the community especially with health care facilities due to the CMS rule.   | Low (15) | EMA; Community Relations  | Ongoing, Continuous through the five-year plan cycle.                                   | Staff Time and Resources | Local Funding                                      |
| Ensure that NFIP Requirements are being met concerning Repairs, Renovations, and Remodeling of Structures Located in the Regulatory Floodplain | Goal X: Minimize the risk to life and property from flooding.  | Inland Flooding | *Project has continued compliance with NFIP. This action is being conducted throughout the jurisdiction with the with NFIP studies   | Low (12) | Jurisdiction Developmental Services; Jurisdiction Community Development | Ongoing, Continuous through the five-year plan cycle for continued compliance with NFIP | Staff Time and Resources | General Fund; Local Funds                          |
| Acquire Flood Prone Structures throughout (X) County   | Goal X: Minimize the risk to life and property from flooding.  | Inland Flooding | To ensure the jurisdiction is up to date with repetitive loss properties in the jurisdiction will acquire identified repetitive loses areas throughout the jurisdiction. *Project has continued compliance with NFIP. Currently (insert number) respective loss properties in the jurisdiction, but currently seeking funding and will provide additional. Since the last grant, XX repetitive loss properties were purchased. | Low (17) | Jurisdiction Name and Department  | Ongoing, Continuous through the five-year plan cycle for continued compliance with NFIP | \$40,000-\$250,000       | General Fund; Federal or State Grants; Local Funds |

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| <p>Continue to Acquire Structures in Identified Repetitive Loss Areas Throughout Douglas County</p> | <p>Goal X: Minimize the risk to life and property from flooding.</p> | <p>Inland Flooding</p> | <p>To ensure the jurisdiction is up to date with repetitive loss properties in the jurisdiction will continue to acquire identified repetitive loses areas throughout the jurisdiction. *Project has continued compliance with NFIP. Though there are no respective loss / or (insert number) of repetitive loss properties in the jurisdiction but currently seeking funding and will provide additional.</p>   | <p>Low (17.5)</p>  | <p>Jurisdiction Name and Department</p>                               | <p>Ongoing, Continuous through the five-year plan cycle for continued compliance with NFIP</p> | <p>\$40,000-\$250,000</p>       | <p>Hazard Mitigation Grant Program; Local Funds</p> |
| <p>Development of the (Jurisdiction Name) Community Wildfire Protection Plan (CWPP)</p>             | <p>Goal X: Minimize the risk to life and property from wildfire.</p> | <p>Wildfire</p>        | <p>The current impacts of wildfires throughout the planning area are unknown but have the potential, depending upon the circumstances, to be severe. This is due to 1) the probability of many more wildfires that are relatively minor and extinguished quickly or otherwise burn out themselves, and 2) the fact that the CWPP remained in an indeterminate period during this HMP update. The CWPP will help the residents and neighboring jurisdiction develop a shared understanding of wildfire and wildfire management within the jurisdiction.</p> | <p>Medium (26)</p> | <p>Jurisdiction Name and Department; Jurisdiction Fire Department</p> | <p>1-5 years</p>   | <p>Staff Time and Resources</p> | <p>General Funds; Federal or State Grants</p>       |

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| <p>Ensure that Future Land Use Planning takes into Consideration the Possible Effects of all Hazards</p>   | <p>Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach</p> | <p>All Hazards</p>     | <p>The jurisdiction continues to ensure that future land use planning takes into consideration the possible effects of all hazards that effects is residents.<br/>The jurisdiction continues to promote community outreach efforts to ensure that future land use planning take into consideration the possible effects on all hazards.</p>  | <p>Low (25)</p> | <p>Jurisdiction EMA, Jurisdiction Planning/Dev. Planning and Zoning</p> | <p>Ongoing, Continuous through the five-year plan cycle. This process is completed annually by Jurisdiction EMA, Jurisdiction Planning/D ev. Planning and Zoning</p> | <p>Staff Time and Resources</p> | <p>General Funds; Federal or State Grants</p> |
| <p>Continue to Promote the Public Awareness Campaign to Promote Water Saving Techniques (Such as Low Flow Water Saving Shower Heads and Toilets)</p> | <p>Goal X: Minimize the risk to life and property from drought.</p>   | <p>Drought</p>         | <p>With the County/Participating Jurisdiction at high-risk drought events, the jurisdiction will continue to promote the public awareness campaign to promote water saving techniques. The goal of the program is to help promote low flow toilets to residents. The initial update of these toilets began with (insert name) County residence. The 2015 plan update which was the second time the program was re-started within the county.</p> | <p>Low (11)</p> | <p>Jurisdiction Name and Department;</p>                                | <p>Ongoing, Continuous through the five-year plan cycle.</p>   | <p>Staff Time and Resources</p> | <p>Local Funds</p>                            |
| <p>Notify Owners in Writing of Flood Prone Properties and Recommend the Need for Flood Insurance</p>   | <p>Goal X: Minimize the risk to life and property from flooding.</p>  | <p>Inland Flooding</p> | <p>With the County/Participating Jurisdiction at high-risk flooding events, the jurisdiction notifies owners in writing in flood prone properties and recommend the need for flood insurance. *Project</p>   | <p>Low (12)</p> | <p>Jurisdiction Name EMA and Department</p>                             | <p>Ongoing, Continuous through the five-year plan cycle.</p>   | <p>Staff Time and Resources</p> | <p>General Funds; Local Funds</p>             |

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|  |  |             | has continued compliance with NFIP. The jurisdiction has sent out letters consistently in the last five years, and will continue to send out throughout the last five years to homeowners throughout the county.   |          |                                      |   |                          |  |
| Develop and implement a Public Awareness Campaign Encouraging Residents to Develop Family Disaster Plans                               | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach | All Hazards | To ensure that all jurisdiction residents are prepared for an all-hazard event, it is necessary to develop and implement a public awareness campaign encouraging residents to development family disaster plans. The goal of this project is for information is distributed by the Douglas County PIO. The public awareness seminars are conducted by the jurisdiction EMA within the jurisdiction for businesses and residents. | Low (10) | Jurisdiction Name EMA and Department | Ongoing, Continuous through the five-year   | Staff Time and Resources | General Funds; Federal or State Grants |
| Promote a Public Awareness Campaign to Educate Citizens About Evacuation Procedures, Sheltering in Place, And Public Shelter Locations | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach | All Hazards | To ensure that all jurisdiction residents are prepared for an all-hazard event, the jurisdiction will promote a public awareness campaign to educate citizens about evacuation procedures, sheltering in place, and public shelter locations. The goal of the public awareness campaign is to educate citizens is promoted each year   | Low (12) | Jurisdiction Name EMA and Department | Ongoing, Continuous through the five-year plan cycle - promoted each year during the severe weather awareness week. | Staff Time and Resources | General Fund; Federal or State Grants  |

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|   |  |             | during the severe weather awareness week. This information is sent out by the jurisdiction PIO.   |          |                                      |   |                          |  |
| Continue to Support and Manage the Tornado Safety Public Awareness Campaign in Douglas County             | Goal X: Minimize the risk to life and property from tornadoes  | Tornadoes   | Continue to Support and Manage the Tornado Safety Public Awareness Campaign in the jurisdiction   | Low (21) | Jurisdiction Name EMA and Department | Ongoing, Continuous through the five-year plan cycle - promoted each year during the severe weather awareness week. | Staff Time and Resources | Federal or State Funds; Local Funding  |
| Develop a Public Education Campaign to Encourage Homeowners to Buy Hazard Insurance to Protect Belongings | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach | All Hazards | To ensure that all jurisdiction residents are prepared for an all-hazard event, the jurisdiction will develop a Public Education Campaign to Encourage Homeowners to Buy Hazard Insurance to Protect Belongings. The education program will encourage homeowners to buy hazard insurance to protect belonging is promoted through the jurisdiction through presentations to the public. This action will be completed annually through the jurisdictions community outreach presentation as needed. | Low (15) | Jurisdiction Name EMA and Department | Ongoing, Continuous through the five-year plan cycle  | Staff Time and Resources | General Funds; Federal or State Grants |

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| Continue to Promote and Require Smoke/Carbon Monoxide Detectors for Residential and Commercial Properties   | Goal X: Minimize the risk to life and property from wildfire |          | The jurisdiction will work to hand out smoke detectors on a weekly basis during presentation within the community.  | Low (20) |                                      | Annually   | Staff Time and Resources | Local Funding                         |
| Develop a Public Awareness Campaign to Heighten Awareness About Brush Fires and Preventative Maintenance for Homeowners   | Goal X: Minimize the risk to life and property from wildfire | Wildfire | The jurisdiction will develop public awareness campaign to heighten awareness about brush fires and preventative maintenance for homeowners.  | Low (10) | Jurisdiction Name EMA and Department | Annually   | Staff Time and Resources | Federal or State Funds; Local Funding |
| Continue to Promote Fire Prevention and Public Education Programs   | Goal X: Minimize the risk to life and property from wildfire | Wildfire | The jurisdiction will continue to work in the community about fire prevention through its public outreach programs to spread awareness and information through the public outreach division at the fire department.   | Low (10) | Jurisdiction Name EMA and Department | Annually   | Staff Time and Resources | Federal or State Funds; Local Funding |
| Provide rebates for the conversion of existing home toilets and showerheads to low flow systems as well as renovations that include the installation of gray water recovery systems | Goal X: Minimize the risk to life and property from drought  | Drought  | Conversion Rebate Programs. A rebate program will be developed to provide the jurisdiction's residents with an incentive to replace older toilets and showerheads with low flow units. An additional incentive program will be developed addressing the installation of gray water recovery | Low (12) | Jurisdiction Name EMA and Department | Ongoing, Continuous through the five-year plan cycle | Unknown                  | Jurisdiction; State; FEMA             |



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|  |  |             | systems. These programs will further the conservation efforts in water use and help ensure sustainable growth for the jurisdiction.  |             |                                      |           |         |                                    |
| Install a local Emergency Warning System | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach | All Hazards | <p>Seek funding for an all-hazards siren system that can be used to warn the general population of a potential danger in a short amount of time and to notify them that the emergency has passed. The installation of an all-hazard siren system will provide rapid dissemination of information to jurisdictions residents during a flood event or HAZMAT event. The ability to communicate emergency information in this manner will reduce the actual number of response personnel required to perform this function. During a hazardous material release incident, rapidly evacuating a populated area may be necessary to save lives and prevent injury. Using an all-hazard system can provide rapid dissemination of safety information to those living in the affected area. This type of system can also be used during other emergency</p> | Medium (26) | Jurisdiction Name EMA and Department | 1-3 years | Unknown | Jurisdiction; Federal/State Grants |

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|  |   |       | response situations where rapid dissemination of information will assist the area's law enforcement efforts.  |          |                      |           |         |      |
| Seek updated floodplain maps for (Jurisdiction Name) | Goal X: Minimize the risk to life and property from flood | Flood | <p>Project has compliance with NFIP. There is a need to update the floodplain maps for the jurisdiction. A petition to FEMA requesting the updating of jurisdiction floodplain maps will be made. Enact legislation to restrict future growth into floodplains in jurisdiction. By updating jurisdictions floodplain maps, a more comprehensive inventory can be established for the existence of structures in floodplains.</p> <p>Additionally, new areas susceptible to flooding due to erosion and other types of construction Because jurisdiction's floodplain maps are so out of date, many of these areas cannot be regulated by the jurisdiction's floodplain management system. Presently only seven residential structures are identified as being in jurisdiction's floodplain.</p> | Low (24) | Jurisdiction Council | 1-4 years | Unknown | FEMA |

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| Critical Facility Backup Generation                                    | Goal X: Minimize the risk to life and property from flood; Goal X: Minimize the risk to life and property from Drought; Goal X: Minimize the risk to life and property from wildfire | Drought; Flooding; Wildfire | The Critical Facility is the only building in the jurisdiction large enough to be used as a community meeting location in case of an emergency. The building is owned by the jurisdiction. It does not have a backup generator to be used in times of power outage. The building will be used for jurisdiction officials and emergency responders. | Medium (26) | Jurisdiction Council  | 1-3 years  | \$100,000                | Pre-Disaster Mitigation Program/ BRIC Grant Program |
| Annual Review and Update of Emergency Operations Plan (EOP)            | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach   | All Hazards                 | Annually review and update the jurisdiction's EOP to ensure compliance with state's requirements   | Low (15)    | Jurisdiction EMA; participating jurisdictions                       | Ongoing, Continuous through the five-year plan cycle | Staff Time and Resources | General Fund; Federal/State Grants                  |
| FEMA Elevation Certificates for New Buildings and Improvements in SFHA | Goal X: Minimize the risk to life and property from flood  | Flooding                    | *The is action is in compliance with NFIP. Continue to require FEMA Elevation Certificates on all new buildings and substantial improvements constructed in the Special Flood Hazard Area (SFHA) for all jurisdictions   | Low (15)    | Jurisdiction EMA; participating jurisdictions Floodplain Management | Ongoing, Continuous through the five-year plan cycle | Staff Time and Resources | General Fund  |
| Annual Review of Hazard Mitigation Plan                                | Goal X: Reduce the risk from natural hazard events utilizing community cooperation and an all-hazards approach   | All Hazards                 | All jurisdictions review the Hazard Mitigation Plan at least annually to ensure implementation of the mitigation projects  | Low (15)    | Jurisdiction EMA; participating jurisdictions                       | Ongoing, Continuous through the five-year plan cycle | Staff Time and Resources | General Fund  |

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| Review Existing Floodplain Regulations   | Goal X: Minimize the risk to life and property from flood | Flooding | *The is action is in compliance with NFIP. Review existing floodplain regulations to ensure adequacy in reducing future development in identified flood hazard areas                | Low (24) | Jurisdiction EMA; participating jurisdictions Floodplain Management | Ongoing, Continuous through the five-year plan cycle | Staff Time and Resources | General Fund |
| Promotion of Flood Mitigation Techniques | Goal X: Minimize the risk to life and property from flood | Flooding | *The is action is in compliance with NFIP. Promote flood mitigation techniques through outreach and promote acquisition and elevation of flood prone structures in the jurisdiction | Low (22) | Jurisdiction EMA; participating jurisdictions Floodplain Management | Ongoing, Continuous through the five-year plan cycle | Staff Time and Resources | General Fund |