

4 MITIGATION STRATEGY

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44 CFR Requirement §201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

This section presents the mitigation strategy developed by the Mitigation Planning Committee (MPC). The mitigation strategy was developed through a collaborative group process. The process included review of general goal statements to guide the jurisdictions in lessening disaster impacts as well as specific mitigation actions to directly reduce vulnerability to hazards and losses. The following definitions are taken from FEMA's *Local Hazard Mitigation Review Guide (October 1, 2012)*.

- **Mitigation Goals** are general guidelines that explain what you want to achieve. Goals are long-term policy statements and global visions that support the mitigation strategy. The goals address the risk of hazards identified in the plan.
- **Mitigation Actions** are specific actions, projects, activities, or processes taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan's mission and goals.

4.1 Goals

44 CFR Requirement §201.6(c)(3)(i): [The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

This planning effort is an update to Gasconade County's existing hazard mitigation plan originally approved by FEMA in 2004 and updated and approved by FEMA on January 30, 2017. Therefore, the goals from the updated 2017 Gasconade County Hazard Mitigation Plan were reviewed to see if they were still valid, feasible, practical, and applicable to the defined hazard impacts. The MPC conducted a discussion session during their first meeting to review and update the plan goals. To ensure that the goals developed for this update were comprehensive and supported State goals, the 2018 State Hazard Mitigation Plan goals were reviewed. As the existing goals were broad, still applicable, and supported the 2018 State Hazard Mitigation Plan goals, the MPC saw no reason to make any changes. The Gasconade County goals are as follows:

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and hazard mitigation activities.

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Goal 3: Promote education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Goal 6: Secure resources for investment in hazard mitigation.

4.2 Identification and Analysis of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

During the first MPC meeting, the committee discussed the planning tasks, participation requirements, how to get public input, the data collection questionnaires and discussed the applicable hazards and what needed to be updated in the risk assessment. Changes in risk since adoption of the previously approved plan were discussed. Since the last update, there has been no deaths due to natural hazard events. Action items from the 2017 plan were distributed to the group for review. Discussions from the actions from the previous plan included completed actions, on-going actions, and actions upon which progress had not been made. The MPC discussed SEMA's identified funding priorities and the types of mitigation actions generally recognized by FEMA.

The focus of Meeting #2 was to review, prioritize and update the mitigation strategy. The MPC reviewed the list of actions proposed in the previous mitigation plan. The group decided which action items had been completed, which needed to be dropped due to lower priority, which were repetitive or could be combined with other similar action items and proposed additional mitigation actions. Facilitators also provided suggestions for actions based on what some of the surrounding counties had included in their plans. Participants were also encouraged to refer to the current State Plan and provided a link to the FEMA's publication, *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards (January 2013)*. This document was developed by FEMA as a resource for identification of a range of potential mitigation actions for reducing risk to natural hazards and disasters.

During the review of the plan document, MPC members were encouraged to review the details of the risk assessment vulnerability analysis specific to their jurisdiction.

The MPC reviewed the actions from the previously approved plan for progress made since the plan had been adopted. Copies of the list of actions for each jurisdiction were provided to MPC members prior to planning meetings and were emailed out to all members. Action items were reviewed and the MPC provided updates on the status of action items during the first two planning meetings. Each action item was reviewed and assigned one of the following:

- Completed, with a description of the progress,
- Not Started/Continue in Plan Update, with a discussion of the reasons for lack of progress,
- In Progress/Continue in Plan Update, with a description of the progress made to date or

- Deleted, with a discussion of the reasons for deletion.

Based on the status updates, there were seven completed actions; 13 actions were deleted because they scored as low priorities and/or did not meet SMART criteria; and 14 continuing actions.

Table 4.1 provides a summary of the completed and deleted actions from the previous plan.

Table 4.1. Summary of Completed Actions from the Previous Plan

| Completed Actions | Completion Details (date, amount, funding source) |
|--|---|
| 1.1.2 Promote development of emergency plans by businesses and public entities by providing information on business continuity and emergency planning through local chambers of commerce and emergency management offices. | MPC determined that local emergency plans for county, cities and school districts were up-to-date. Upon review, the MPC determined that promoting emergency planning for businesses did not meet SMART criteria was not a high priority and chose to remove that part of the action item from the plan. |
| 1.1.6 Ensure school staff are trained in natural hazards and familiar with school emergency plans including evacuation and safety procedures. | All school districts indicated that this was established in school policy and procedures and stated it was complete. |
| 3.1.3 Educate parents on school safety protocols. | School districts indicated that this action item is complete due to this being established in school policy and procedures. |
| 5.1.2 Coordinate and integrate hazard mitigation activities where appropriate with emergency operations plans and procedures. | All jurisdictions indicated that this action item had been completed. |
| 6.1.1 Work with SEMA Region I coordinator and State Hazard Mitigation Officer to learn about new mitigation funding opportunities. | SEMA provides notification of hazard mitigation funding opportunities and MRPC does regular grant alerts to all jurisdictions. The MPC determined this action item had been completed. |
| 6.1.2 Structure grant proposals for road/bridge upgrades so that hazard mitigation concerns are met. | County and cities all stated that this is an established policy. |
| 6.1.7 Prioritize mitigation projects, based on cost-effectiveness and starting with those sites facing the greatest threat to life, health and property. | The MPC agreed that this was accomplished through the hazard mitigation planning process and documented in the plan. |

Source: Previously approved County Hazard Mitigation Plan; MPC committee; data collection questionnaires

4.2 Summary of Deleted Actions from the Previous Plan

| Deleted Actions | Reason for Deletion |
|---|--|
| 1.1.4 Monitor developments in data availability concerning the impact of levee failure, dam failure, tornados, sinkholes, land subsidence, and wildfire upon Gasconade County and all jurisdictions through local, state, and federal agencies. | Identical action items that have been removed due to SEMA reviewer stating that they do not meet SMART criteria. These action items were added at the request of SEMA/FEMA during a previous update. The MPC also determined these were not high priorities. |
| 1.2.1 Disseminate information on the importance of and funding sources for constructing storm shelters, especially tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms. | The MPC determined that this action item did not meet the SMART criteria and chose to remove the action item from the plan. |

| Deleted Actions | Reason for Deletion |
|---|--|
| 2.1.1 Provide information on self-inspection programs to critical facilities to assess earthquake and tornado resistance. | Upon review, due to not meeting the SMART criteria and falling to a low priority – this action item was deleted. |
| 2.1.7 Monitor developments in data availability concerning the impact of levee failure, dam failure, tornados, sinkholes, land subsidence and wildfire upon Gasconade County and all jurisdictions through local, state, and federal agencies | Identical action items that have been removed due to SEMA reviewer stating that they do not meet SMART criteria. These action items were added at the request of SEMA/FEMA during a previous update. The MPC also determined these were not high priorities. |
| 2.1.2 Promote development of emergency plans by businesses and public entities by providing information on business continuity and emergency planning through local chambers of commerce and emergency management offices. | Duplicate of 1.1.2. MPC chose to remove from plan. |
| 2.1.3 Find resources to maintain and upgrade levee in Gasconade. | MPC determined that as the levee was on private property, it could not be addressed by any jurisdiction and should be removed. |
| 2.1.5 Provide information on the benefits of establishing minimum building codes to those jurisdictions that currently lack minimum building code requirements. | Upon review, due to not meeting the SMART criteria and falling to a low priority – this action item was deleted. |
| 5.1.1 Provide information to all communities on the benefits and costs of developing storm water management plans. | The MPC determined that this action item did not meet the SMART criteria and chose to remove the action item from the plan. |
| 5.1.3 Encourage cities to require contractor storm water management plans in all new development – both residential and commercial properties | The MPC determined that this action item did not meet the SMART criteria and chose to remove the action item from the plan. |
| 5.1.5 Provide information to communities on the benefits of zoning repetitive loss properties in the floodplain as open space. | The MPC determined that this action item did not meet the SMART criteria and chose to remove the action item from the plan. |
| 5.1.6 Disseminate information on the importance of and funding sources for constructing storm shelters, especially tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms. | Duplicate of 1.2.1 – which was deleted. |
| 6.1.4 Provide information to local governments on the benefits of budgeting for implementing hazard mitigation projects. | The MPC determined that this action item did not meet the SMART criteria and chose to remove the action item from the plan. |
| 6.1.6 Implement public awareness program on the benefits of hazard mitigation projects, both public and private. | This was combined with 6.1.5 |

Source: Previously approved County Hazard Mitigation Plan; MPC committee; data collection questionnaires

4.3 New Action Items Added to the Updated Plan

| Action Number | Item | New Action Item |
|---------------|------|--|
| 1.1.9 | | Construct certified tornado saferooms in every school that does not have one as funding becomes available. |
| 1.1.10 | | Review requirements to ensure continued compliance in NFIP. |

Source: MPC committee

4.3 Implementation of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include an action strategy describing how the actions identified in paragraph (c)(2)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefits review of the proposed projects and their associated costs.

Jurisdictional MPC members were encouraged to meet with others in their community to discuss the actions to be included in the updated mitigation strategy. Throughout the MPC consideration and discussion, emphasis was placed on the importance of a benefit-cost analysis in determining project priority. The Disaster Mitigation Act requires benefit-cost review as the primary method by which mitigation projects should be prioritized. The MPC decided to pursue implementation according to when and where damage occurs, available funding, political will, jurisdictional priority, and priorities identified in the Missouri State Hazard Mitigation Plan. The benefit/cost review at the planning stage primarily consisted of a qualitative analysis and was not the detailed process required grant funding application. For each action, the plan sets forth a narrative describing the types of benefits that could be realized from action implementation. The cost was estimated as closely as possible, with further refinement to be supplied as project development occurs.

FEMA's STAPLEE methodology was used to assess the costs and benefits, overall feasibility of mitigation actions, and other issues impacting project. During the prioritization process, the MPC worked together to review and assign scores. The process posed questions based on the STAPLEE elements as well as the potential mitigation effectiveness of each action. Scores were based on the responses to the questions as follows:

Definitely yes = 3 points
Maybe yes = 2 points
Probably no = 1
Definitely no = 0

The following questions were asked for each proposed action.

S: Is the action socially acceptable?
T: Is the action technically feasible and potentially successful?
A: Does the jurisdiction have the administrative capability to successfully implement this action?
P: Is the action politically acceptable?
L: Does the jurisdiction have the legal authority to implement the action?
E: Is the action economically beneficial?
E: Will the project have an environmental impact that is either beneficial or neutral? (score "3" if positive and "2" if neutral)

Will the implemented action result in lives saved?
Will the implanted action result in a reduction of disaster damage?

In addition to the STAPLEE process, each action item was also reviewed for Benefit/Cost. These two aspects of the prioritization process were scored as follows:

Benefit – two (2) points were added for each of the following avoided damages (8 points maximum = highest benefit)

- Injuries and/or casualties
- Property damages

- Loss-of-function/displacement impacts
- Emergency management costs/community costs

Cost – points were subtracted according to the following cost scale (-5 points maximum = highest cost)

- (-1) = Minimal – little cost to the jurisdiction involved
- (-3) = Moderate – definite cost involved but could likely be worked into operating budget
- (-5) = Significant – cost above and beyond most operating budgets; would require extra appropriations to finance or to meet matching funds for a grant

Note: For the Benefit/Cost Review, the benefit and cost of actions which used the word “encourage” were evaluated as if the action or strategy being encouraged was actually to be carried out.

In addition, the group considered the cost of mitigation versus the long-term savings in relation to potential lives saved and property damage avoided.

Total Score – The scores for the STAPLEE Review and Benefit/Cost Review were added to determine a Total Score for each action.

Priority Scale – To achieve an understanding of how a Total Score might be translated into a Priority Rating, a sample matrix was filled out for the possible range of ratings an action might receive on both the STAPLEE and Benefit/Cost Review. The possible ratings tested ranged between:

- A hypothetical action with “Half probably NO and half maybe YES” answers on STAPLEE (i.e. poor STAPLEE score) and Low Benefit/High Cost: Total Score = 7
- A hypothetical action with “All definitely YES” on STAPLEE and High Benefit/Little Cost: Total Score = 28

An inspection of the possible scores within this range led to the development of the following Priority Scale based on the Total Score in the STAPLEE- Benefit/Cost Review process:

20 – 28 points = High Priority
 14-19 points = Medium Priority
 13 points and below = Low Priority

In addition to the STAPLEE and Benefit/Cost analysis, the committee was also asked to consider **SMART** – **S**pecific, **M**easurable, **A**chievable, **R**elevant, **T**ime-bound, per FEMA. All action items were reviewed with this criteria in mind. The results of the STAPLEE process and Benefit/Cost analysis were then mailed out to all MPC members for feedback and consensus.

The final scores are listed below in the analysis of each action. Correspondence regarding the STAPLEE process is included in Appendix C: A spreadsheet with the action items and final scores is illustrated in Figure 4.1.

Jurisdictional Floodplain Management Programs

Gasconade County and the cities of Bland, Gasconade, Hermann, Morrison and Owensville are members of the NFIP and regulate development in the floodplain by reviewing permit applications for all development including new and existing structures. Rosebud is not a member of the NFIP. Elevation certificates are required for all new construction, and existing structures with 50% or more damage following a flood are required to elevate. Floodplain maps are available in hard copy

at the city hall and the county's flood maps can be obtained from the floodplain manager. Furthermore floodplain maps can be found online through FEMA's website <https://msc.fema.gov/portal>. The city of Rosebud does not currently participate in the NFIP nor monitor activities within the floodplain.

Table 4.3. Jurisdictional Floodplain Ordinance Adoption Date

| Community Name | Ordinance Adoption Date |
|-----------------------|--------------------------------|
| Gasconade County | 09/04/87 |
| Bland | 08/24/84 |
| Gasconade | 12/18/84 |
| Hermann | 03/05/76 |
| Morrison | 09/18/86 |
| Owensville | 06/03/78 |
| Rosebud | Not participating in the NFIP |

Source: FEMA's Community Status Book Report¹; NSFHA (SEMA)

¹ www.fema.gov/cis/mo.html

| Figure 4.4 Prioritization of Mitigation Actions | | 3 = Def YES 1 = Prob NO 2 = Maybe YES 0 = Def NO | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---------------|---------------------------------|---------|------|-----------|-------|----------|
| Action No. | Mitigation Actions | S | T | A | P | L | E | E | STAPLEE Total | Losses Avoided (2 pts. Each) | Benefit | Cost | B/C Total | Total | Priority |
| 1.1.1 | Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices. | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 20 | IC, PD, LF, EMCC | 8 | -1 | 7 | 27 | H |
| 1.1.3 | Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems. | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 17 | IC, PD, LF, EMCC | 8 | -3 | 5 | 22 | H |
| 1.1.5 | Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property. | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 20 | IC, PD, LF, EMCC | 8 | -3 | 5 | 25 | H |
| 1.1.7 | Regularly review and update school emergency plans. | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 21 | IC, PD, LF, EMCC | 8 | -1 | 7 | 28 | H |
| 1.1.8 | Regularly review school facilities and re-evaluate designated safe areas to insure that these areas are the safest locations to shelter students and staff. | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 19 | IC, LF, EMCC | 6 | -1 | 5 | 24 | H |
| 1.1.9 | Construct certified tornado safe rooms in every school that does not have one as funding becomes available. | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 20 | LF, EMCC | 4 | -1 | 3 | 23 | H |
| 1.1.10 | Review requirements to ensure continued compliance in NFIP. | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 20 | IC, PD, LF, EMCC | 8 | -1 | 7 | 27 | H |
| 2.1.4 | Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information. | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 18 | IC, PD, LF, EMCC | 8 | -1 | 7 | 25 | H |
| 2.1.6 | Review floodplain ordinances and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding. | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 17 | IC, PD, LF, EMCC | 8 | -1 | 7 | 24 | H |
| 3.1.1 | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 19 | IC, PD, LF, EMCC | 8 | -2 | 6 | 25 | H |

| Figure 4.4 Prioritization of Mitigation Actions | | 3 = Def YES 1 = Prob NO 2 = Maybe YES 0 = Def NO | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---------------|---------------------------------|---------|------|-----------|-------|----------|
| Action No. | Mitigation Actions | S | T | A | P | L | E | E | STAPLEE Total | Losses Avoided (2 pts. Each) | Benefit | Cost | B/C Total | Total | Priority |
| 3.1.2 | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 21 | IC, PD, LF, EMCC | 8 | -1 | 7 | 28 | H |
| 4.1.1 | Disseminate information about hazard mitigation projects to the public through press releases and social media. | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 20 | IC, PD, LF, EMCC | 8 | -1 | 7 | 27 | H |
| 5.1.4 | Purchase properties in the flood plain as funds become available and convert that land into public space/recreation area. | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 17 | IC, PD, LF, EMCC | 8 | -3 | 5 | 22 | H |
| 6.1.3 | Work with state/local/federal agencies to include mitigation in all economic and community development projects. | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 18 | IC, PD, LF, EMCC | 8 | -2 | 6 | 24 | H |
| 6.1.5 | Promote the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 19 | IC, PD, LF, EMCC | 8 | -1 | 7 | 26 | H |

Gasconade County

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County EMD and Health Department |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Information is distributed through local offices, at local events and through the media by the county EMD, SEMA, health department and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. Owensville has a program to partner with KRCG TV to promote weather radios and survival kits but had to postpone due to COVID. The County EMD does education through FB, website and newspapers, but this action item would benefit from additional efforts to share information. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County EMD, Gasconade County Commission |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The County is in the process of re-establishing its phone alert system. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, Road and Bridge Departments |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, road and bridge funds, MoDOT allocations, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, road and bridge plans |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The County routinely works toward upgrading county roads and bridges when replacements are made. Culverts are routinely sized up to improve drainage. As funding allows, low water crossings are replaced with bridges. There is a BRO project in process to make the low water crossing at Valentine Ford safer. The County has also paved Friend Road leading to Adam Puchta Winery to improve flooding issues at that location. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Floodplain Manager, County EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started. |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Distribute floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, County Floodplain Manager |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – brochures should be developed and distributed by 2025. Press releases should be distributed to local media annually. |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some floodplain awareness is occurring in Gasconade County but this action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather, or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornadoes |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and, if applicable, add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, Floodplain Manager |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | 5 years |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The County has not addressed this action item to date. |

Goal 3: Promote education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County EMD, Gasconade County Commission |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County EMD, Floodplain Manager, County Health Department, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains brochures and information at the courthouse. The county and jurisdiction would benefit from a more focused approach to distributing information on NFIP and floodplain development requirements. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, County EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of commission meetings are also posted in local papers. However, this action item would benefit from a more focused effort to point out and explain the mitigation benefits of various projects, i.e. increasing the size of culverts; replacing low water crossings with bridges; etc. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, Floodplain Manager |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | To date there have been no floodplain buyouts in unincorporated Gasconade County. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission, County engineer, County EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public on the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade County |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Develop and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | County Commission |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The county will install culverts if the individual pays for the culvert to ensure that installation is done correctly, and the culvert is sized correctly. This program could benefit from more organized guidelines and focused efforts if additional funding could be secured. |

Bland

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city benefits from county and SEMA efforts of providing information through local offices, at local events and through the media and by emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. This action item would benefit from a more organized and sustained approach by the city to share information. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen and City EMD |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city has one warning siren which is controlled by the fire department and would benefit from a more focused effort on providing early warning to citizens. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen, Public Works Department |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, road and bridge plans |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The City tries to upgrade city roads and culverts when repairs and/or replacements are made as funding allows. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|---|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started. |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Provide information by distributing floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started /Continue in Plan Update |
| Report of Progress | This action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornadoes |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and if applicable add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | 5 years |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The City has not addressed this action item to date. |

Goal 3: Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, City Floodplain Manager, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains brochures and information at the courthouse. The city would benefit from a more focused approach to distributing information on NFIP and floodplain development requirements. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of board meetings are also available to the public. However, this action item would benefit from a more focused effort to point out and explain the mitigation benefits of various projects. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | To date there have been no floodplain buyouts in Bland. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 - \$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City Engineer, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public on the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Bland |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Develop and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | This program could benefit from more organized guidelines and focused efforts if additional funding could be secured. |

Gasconade

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The city likely benefits from efforts made by the county to distribute information through local offices, at local events and through the media by the county EMD, SEMA, health department and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. This action item would benefit from additional efforts by the city to share information. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The city does not have an outdoor siren or other means of early warning for residents and currently does not have funding to address this action item. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The city does not currently have the funding necessary to address this action item. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|---|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Provide information by distributing floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some floodplain awareness is occurring in Gasconade but this action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornados |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and if applicable add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City Floodplain Manager |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | 5 years |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The city has not addressed this action item to date. |

Goal 3: Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, City Floodplain Manager, County Health Department, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The city would benefit from a more focused approach to distributing information on NFIP and floodplain development requirements. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. However, this action item would benefit from a more focused effort to point out and explain the mitigation benefits of various projects. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City Floodplain Manager |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | To date there have been no floodplain buyouts in the community of Gasconade. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public on the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Develop and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The city does not currently have any cost-share programs in place. |

Hermann

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Information is distributed through local offices, at local events and through the media by the city EMD, SEMA, and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. This action item would benefit from additional efforts to share information. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city has five outdoor sirens – three of which have been recently updated. Hermann also has a phone app – Code Red – which provides early warning via phone, text and email. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, road and bridge funds, MoDOT allocations, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, road and bridge plans |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city routinely works toward upgrading roads and is responsible for one bridge within the community. Culverts are routinely sized up to improve drainage. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|---|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, City EMD |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Provide information by distributing floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hermann provides information on floodplain at city hall and is currently working to put city floodplain maps on the city website. This action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornados |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and if applicable add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, Mayor and Board of Aldermen |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | Completed |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Completed |
| Report of Progress | The city's floodplain ordinance does address hazardous materials tanks and mobile homes. |

Goal 3: Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, City Floodplain Manager, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains brochures and information at the courthouse. The city would likely benefit from a more focused approach to distributing information on NFIP and floodplain development requirements as well as natural hazards. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | On-going. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of board meetings are available to the public. Information is posted on FaceBook, local paper and city website. Most recently Hermann developed and marked a flood route to improve traffic problems during flooding. The project was widely publicized. This action item could benefit from a more focused effort to point out and explain the mitigation benefits of various projects. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City Floodplain Manager |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Most recently, the City of Hermann has done a buyout project to purchase the medical clinic that was located in the floodplain and a repetitive loss property. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City engineer, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), City Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the general public on the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Hermann |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Development and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The City of Hermann has worked with developers to cost-share projects that deal with stormwater run-off. |

Morrison

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city of Morrison benefits from Information distributed at local events and through the media by the county EMD, SEMA, health department and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. The County EMD does education through FB, website and newspapers, but this action item would benefit from additional efforts to share information and a more focused approach by the city. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city has one siren but would likely benefit from additional warning systems. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, road and bridge funds, MoDOT allocations, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city upgrades culverts and roads as funding allows. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|---|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Provide information by distributing floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen and Floodplain Manager |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – brochures should be developed and distributed by 2025. Press releases should be distributed to local media annually. |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some floodplain awareness is occurring in Morrison but this action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornadoes |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and if applicable add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Floodplain Manager |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | 5 years |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The City has not addressed this action item to date. |

Goal 3: Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Promote education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning |

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| | activities, this action item will continue to expand. |
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Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Floodplain Manager, County Health Department, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains and distributes brochures and information. The city would benefit from a more focused approach to distributing information on NFIP and floodplain development requirements. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of board meetings are available to the public. However, this action item would benefit from a more focused effort to point out and explain the mitigation benefits of various projects, i.e. increasing the size of culverts; etc. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen, Floodplain Manager |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | To date there have been no floodplain buyouts in Morrison |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City engineer, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public about the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Morrison |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Development and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | No progress due to lack of resources. |

Owensville

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city benefits from Information distributed at local events and through the media by the city EMD, SEMA, county health department and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. The City EMD does education through FB, website and newspapers. The city planned to partner with KRCG TV to promote weather radios and survival kits but COVID-19 postponed this project. This action item would benefit from additional efforts to share information. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city recently updated its outdoor sirens and currently has three that are controlled by the 9-1-1 Dispatch. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, road and bridge funds, MoDOT allocations, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city upgrades culverts and roads as funding allows. The city is not responsible for any bridges within its jurisdiction. The city has plans to reduce flooding issues near the fairground arena at the fairgrounds by increasing the culvert size. |

Action 1.1.10: Review requirements for continued compliance in NFIP.

| Action Worksheet | |
|---|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Development in floodplain. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.10 |
| Name of Action or Project: | Continued Compliance in NFIP. |
| Action or Project Description: | Enforce floodplain management ordinances, regulate new construction in SFHA, work with residents to identify flood prone areas, assist residents with map amendment process. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$250 - \$1,500 |
| Benefits: | Reduce development in SFHA, protect floodplain. |
| Plan for Implementation | |
| Responsible Organization/Department: | City Floodplain Manager, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | General Revenue |
| Local Planning Mechanisms to be Used in Implementation, if any: | Floodplain Ordinances, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | New |
| Report of Progress | New – not started |

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Action 2.1.4: Educate residents, realtors and contractors about the dangers of floodplain development and the benefits of the National Flood Insurance Program by providing brochures and information.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with flooding and floodplain development. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 2.1.4 |
| Name of Action or Project: | Education for residents, realtors and contractors on the dangers of and requirements associated with floodplain development. |
| Action or Project Description: | Provide information by distributing floodplain brochures and press releases on the dangers of floodplain development and the requirements as outlined in the county floodplain ordinance. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen and Floodplain Manager |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – brochures should be developed and distributed by 2025. Press releases should be distributed to local media annually. |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some floodplain awareness is occurring in Owensville but this action item would benefit from a focused, coordinated effort to increase awareness and educate not just residents but also realtors and contractors. |

Action 2.1.6: Review floodplain ordinance and if not included, add language for securing hazardous materials tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with unsecured hazardous materials tanks and mobile homes during flooding, severe weather or tornado events |
| Hazard(s) Addressed: | Floods, Severe Storms, Tornadoes |
| Action or Project | |
| Action/Project Number: | 2.1.6 |
| Name of Action or Project: | Review of floodplain ordinance. |
| Action or Project Description: | Review floodplain ordinance and if applicable add language for securing hazardous materials tanks and mobile homes to reduce hazards during storms and flooding. |
| Applicable Goal Statement: | Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy. |
| Estimated Cost: | \$500 - \$1,200 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Floodplain Manager |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | 5 years |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, floodplain ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | The City has not addressed this action item to date. |

Goal 3: Promote education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Floodplain Manager, County Health Department, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Outreach and education activities are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains and distributes brochures and information. The city would benefit from a more focused approach to distributing information on NFIP and floodplain development requirements. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of board meetings are available to the public. All activities are posted on the city's website and FaceBook page. However, this action item could benefit from a more focused effort to point out and explain the mitigation benefits of various projects, i.e. increasing the size of culverts; etc. |

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Action 5.1.4: Purchase properties in the floodplain as funds become available to convert that land into public space/recreation area.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with floodplain properties. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 5.1.4 |
| Name of Action or Project: | Government purchase of properties in the floodplain. |
| Action or Project Description: | Purchase properties in the floodplain as funds become available and convert that land into public space/recreation area. |
| Applicable Goal Statement: | Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefits of special interests. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss of function/displacement and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor, Board of Aldermen, Floodplain Manager |
| Action/Project Priority: | 22– High Priority |
| Timeline for Completion: | N/A |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | To date there have been no floodplain buyouts in Owensville. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City engineer, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public about the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Owensville |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Develop and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | No progress due to lack of resources. |

Rosebud

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.

Action 1.1.1: Implement an education program on personal emergency preparedness that teaches residents how to prepare emergency survival kits with water, blankets, flashlights, etc. and how to shut off their home utilities during emergencies. Ready-in-3 brochures/videos and information will be made readily available to the public through the health department and local government offices.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Ongoing need to improve public education and awareness of hazards, personal emergency preparedness and the benefits of hazard mitigation. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.1 |
| Name of Action or Project: | Personal Preparedness Education/Awareness Program |
| Action or Project Description: | Local emergency responders and EMDs will provide Ready-In-3 and other personal preparedness education programs through distribution of brochures, press releases and presentations at special events and through county health department and local government offices. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$500 - \$3,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going with full implementation completed in one to five years. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city benefits from Information distributed at local events and through the media by the county EMD, SEMA, health department and emergency response agencies. Children's Division does personal preparedness by checking smoke and carbon monoxide detectors, doing fire drills and posting emergency numbers in homes. The County EMD does education through FB, website and newspapers, but this action item would benefit from additional efforts to share information and a more focused approach by the city. |

Action 1.1.3: Actively seek funding to assist cities in obtaining early warning systems and improved communication systems and updating existing warning systems and increase use by individuals of existing warning systems.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with insufficient early warning systems and improved communications systems. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.3 |
| Name of Action or Project: | Improving early warning and communications systems. |
| Action or Project Description: | Finding funding to improve warning and communications systems county-wide and increase use of existing warning systems. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown due to variables – \$2,500 - ? |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 22 –High Priority |
| Timeline for Completion: | One to 10 years |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city has one siren controlled by 9-1-1 Dispatch but would likely benefit from additional warning systems. |

Action 1.1.5: Examine road and bridge upgrades that would improve drainage, reduce flooding and the risk to residents and property.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks and vulnerabilities associated with low water crossings, stormwater run-off, undersized culverts, etc. |
| Hazard(s) Addressed: | Flooding |
| Action or Project | |
| Action/Project Number: | 1.1.5 |
| Name of Action or Project: | Mitigation through road and bridge improvements. |
| Action or Project Description: | Review all road and bridge improvements with consideration given to mitigating flooding. Mitigation actions could include sizing up culverts when replacing them; upgrading from low water crossings to a bridge; raising road beds that frequently flood, etc. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$5,500 - \$10,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 25 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, road and bridge funds, MoDOT allocations, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, transportation plan, |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city upgrades culverts and roads as funding allows. |

Goal 3: Provide education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Action 3.1.1: Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with not regularly reviewing and updating the mitigation plan and incorporating mitigation activities into emergency operations plans and procedures. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 3.1.1 |
| Name of Action or Project: | Review hazard mitigation plan, merge with other community planning and coordinate and integrate activities with emergency plans and procedures. |
| Action or Project Description: | Re-evaluate the hazard mitigation plan, merge with other community planning activities and documents and incorporate hazard mitigation into the long-range planning and development activities of the county and each jurisdiction. |
| Applicable Goal Statement: | Promote education, outreach, research, and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$5,000 - \$25,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Mayor and Board of Aldermen |
| Action/Project Priority: | 25 –High Priority |
| Timeline for Completion: | On-going – should be reviewed after any major disasters and on an annual basis to determine if action items are being addressed on schedule. Hazard mitigation actions should be incorporated into applicable plans/ordinances as those documents are reviewed and updated. |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community and Economic Development Strategy. Mitigation actions are part of the county LEOP. As more local officials become familiar with mitigation and understand how it fits within other planning activities, this action item will continue to expand. |

Action 3.1.2: Distribute SEMA brochures on natural disasters and NFIP at public facilities and events.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with the public's lack of knowledge in regards to natural disasters, preparedness, and NFIP. |
| Hazard(s) Addressed: | All hazards. |
| Action or Project | |
| Action/Project Number: | 3.1.2 |
| Name of Action or Project: | Outreach & Education on natural disasters, preparedness and NFIP |
| Action or Project Description: | Distribute SEMA brochures on natural disasters and NFIP at public facilities and events. |
| Applicable Goal Statement: | Provide education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards and hazard mitigation alternatives that can reduce their vulnerabilities. |
| Estimated Cost: | \$500 - \$1,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | City EMD, Floodplain Manager, County Health Department, local emergency response agencies |
| Action/Project Priority: | 28 – High Priority |
| Timeline for Completion: | 1 – 5 years - ongoing |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, LEOP, floodplain ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The city is not a member of the NFIP. Outreach and education activities on natural hazards are an on-going activity. Local emergency response agencies frequently distribute materials at local events. The county health department maintains and distributes brochures and information. The city would benefit from a more focused approach to distributing information on natural hazards to the public. |

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Action 4.1.1: Disseminate information about hazard mitigation projects to the public through press releases and social media.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of knowledge concerning local hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 4.1.1 |
| Name of Action or Project: | Dissemination of hazard mitigation project information by elected officials |
| Action or Project Description: | Elected officials to disseminate information about hazard mitigation projects to the public to raise awareness and understanding of how hazard mitigation projects can reduce risks, save lives and protect property. |
| Applicable Goal Statement: | Strengthen communication and coordinate participation between agencies, stakeholders, jurisdictions, and the public to create widespread interest in mitigation. |
| Estimated Cost: | \$500 - \$1,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City EMD |
| Action/Project Priority: | 27 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Floodplain Ordinance |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Some information is being distributed on hazard mitigation projects. Public hearings are held on any projects being funded with state or federal funds. Press releases are sent to local papers and minutes of board meetings are available to the public. However, this action item would benefit from a more focused effort to point out and explain the mitigation benefits of various projects, i.e. increasing the size of culverts; etc. |

Goal 6: Secure resources for investment in hazard mitigation.

Action 6.1.3: Work with state/local/federal agencies to include mitigation in all economic and community development projects.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of synergy/communication/coordination of mitigation in community development projects and integration of mitigation actions into economic and community development projects. |
| Hazard(s) Addressed: | Flood |
| Action or Project | |
| Action/Project Number: | 6.1.3 |
| Name of Action or Project: | Coordination with state/local/federal agencies to integrate mitigation into economic and community development projects |
| Action or Project Description: | Work with state/local/federal agencies to include mitigation in all economic and community development projects. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | \$3,500 -\$9,500 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, City engineer, City EMD, local planners and grant writers |
| Action/Project Priority: | 24 – High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan, Economic Development Strategy (CEDS), County Budget |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | Hazard mitigation goals and actions have been incorporated into the regional Community Economic Development Strategy (CEDS). As mitigation awareness grows, additional efforts will be made to incorporate mitigation activities into economic and community development projects. |

Action 6.1.5: Educate the public about the benefits of local governments implementing hazard mitigation projects as well as cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Rosebud |
| Risk / Vulnerability | |
| Problem being Mitigated: | Lack of cost-share programs with private property owners for hazard mitigation projects. |
| Hazard(s) Addressed: | All hazards |
| Action or Project | |
| Action/Project Number: | 6.1.5 |
| Name of Action or Project: | Develop local mitigation cost-share programs. |
| Action or Project Description: | Develop and implement cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole. |
| Applicable Goal Statement: | Secure resources for investment in hazard mitigation. |
| Estimated Cost: | Unknown – dependent upon projects and interest |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | Mayor and Board of Aldermen, Public Works |
| Action/Project Priority: | 26 –High Priority |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard Mitigation Plan |
| Progress Report | |
| Action Status | Not Started/Continue in Plan Update |
| Report of Progress | No progress due to lack of resources. |

Gasconade R-I

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and hazard mitigation activities.

Action 1.1.7: Regularly review and update school emergency plans.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade R-I |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with lack of review and updating of school emergency plans annually and after a major incident. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.7 |
| Name of Action or Project: | School emergency plan annual review and update. |
| Action or Project Description: | Review and update the school emergency plan on at least an annual basis and following any major events. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,000 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss of function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent and Board of Education |
| Action/Project Priority: | 28 - H |
| Timeline for Completion: | All three school districts indicate that they do this activity but felt it was a critical action item and wanted to keep it in the plan. |
| Potential Fund Sources: | School general revenue funds, grants and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | School Crisis Management plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | All three school districts indicated that they regularly review and update their school emergency plans. However, they felt this action item was critically important and want to leave it in the plan as being in progress. |

Action 1.1.8: Regularly review school facilities and re-evaluate designated safe areas to ensure that these areas are the safest locations to shelter students and staff.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade R-I |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with school facilities that do not have certified safe rooms and use alternative facilities to shelter students and staff in the event of high winds/tornados. |
| Hazard(s) Addressed: | Tornados, Severe Weather |
| Action or Project | |
| Action/Project Number: | 1.1.8 |
| Name of Action or Project: | Review and evaluation of designated school safe rooms. |
| Action or Project Description: | School district personnel, with help if necessary, should review and re-evaluate those areas of school facilities designated as safe rooms during tornado warnings. These areas should be re-evaluated periodically to determine if they are still the safest locations for students and staff to shelter during a tornado or severe weather event. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,500 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 24 – H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, LEOP, school crisis management plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The district had a consultant evaluate safe areas of the school within the last five years. |

Action 1.1.9: Construct certified tornado safe rooms in every school that does not have one as funding becomes available.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade R-I |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with nonexistent /unavailable storm shelters in schools. |
| Hazard(s) Addressed: | Tornado |
| Action or Project | |
| Action/Project Number: | 1.3.5 |
| Name of Action or Project: | Reducing Vulnerability of People |
| Action or Project Description: | Construct certified tornado safe rooms in every school that does not have one as funding becomes available. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 23 - H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, hazard mitigation plan, school budget, school crisis management plan and capital improvements plan |
| Progress Report | |
| Action Status | New – added in 2021 update. |
| Report of Progress | New – Not started |

Gasconade R-II

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and hazard mitigation activities.

Action 1.1.7: Regularly review and update school emergency plans.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with lack of review and updating of school emergency plans annually and after a major incident. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.7 |
| Name of Action or Project: | School emergency plan annual review and update. |
| Action or Project Description: | Review and update the school emergency plan on at least an annual basis and following any major events. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,000 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss of function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent and Board of Education |
| Action/Project Priority: | 28 - H |
| Timeline for Completion: | All three school districts indicate that they do this activity but felt it was a critical action item and wanted to keep it in the plan. |
| Potential Fund Sources: | School general revenue funds, grants and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | School Crisis Management plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | R-II stated they do an annual review of their plan. However, they felt this action item was critically important and want to leave it in the plan as being in progress. |

Action 1.1.8: Regularly review school facilities and re-evaluate designated safe areas to ensure that these areas are the safest locations to shelter students and staff.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Gasconade R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with school facilities that do not have certified safe rooms and use alternative facilities to shelter students and staff in the event of high winds/tornados. |
| Hazard(s) Addressed: | Tornados, Severe Weather |
| Action or Project | |
| Action/Project Number: | 1.1.8 |
| Name of Action or Project: | Review and evaluation of designated school safe rooms. |
| Action or Project Description: | School district personnel, with help if necessary, should review and re-evaluate those areas of school facilities designated as safe rooms during tornado warnings. These areas should be re-evaluated periodically to determine if they are still the safest locations for students and staff to shelter during a tornado or severe weather event. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,500 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 24 – H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, LEOP, school crisis management plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The district does this on an annual basis and has relocated two safe areas in the past five years. |

Action 1.1.9: Construct certified tornado safe rooms in every school that does not have one as funding becomes available.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Gasconade R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with nonexistent /unavailable storm shelters in schools. |
| Hazard(s) Addressed: | Tornado |
| Action or Project | |
| Action/Project Number: | 1.3.5 |
| Name of Action or Project: | Reducing Vulnerability of People |
| Action or Project Description: | Construct certified tornado safe rooms in every school that does not have one as funding becomes available. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 23 - H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, hazard mitigation plan, school budget, school crisis management plan and capital improvements plan |
| Progress Report | |
| Action Status | New – added in 2021 update. |
| Report of Progress | |

Maries R-II

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and hazard mitigation activities.

Action 1.1.7: Regularly review and update school emergency plans.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Maries R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with lack of review and updating of school emergency plans annually and after a major incident. |
| Hazard(s) Addressed: | All Hazards |
| Action or Project | |
| Action/Project Number: | 1.1.7 |
| Name of Action or Project: | School emergency plan annual review and update. |
| Action or Project Description: | Review and update the school emergency plan on at least an annual basis and following any major events. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,000 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, property damages, loss of function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent and Board of Education |
| Action/Project Priority: | 28 - H |
| Timeline for Completion: | All three school districts indicate that they do this activity but felt it was a critical action item and wanted to keep it in the plan. |
| Potential Fund Sources: | School general revenue funds, grants and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | School Crisis Management plan, LEOP |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | All three school districts indicated that they regularly review and update their school emergency plans. However, they felt this action item was critically important and want to leave it in the plan as being in progress. |

Action 1.1.8: Regularly review school facilities and re-evaluate designated safe areas to ensure that these areas are the safest locations to shelter students and staff.

| Action Worksheet | |
|--|---|
| Name of Jurisdiction: | Maries R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with school facilities that do not have certified safe rooms and use alternative facilities to shelter students and staff in the event of high winds/tornados. |
| Hazard(s) Addressed: | Tornados, Severe Weather |
| Action or Project | |
| Action/Project Number: | 1.1.8 |
| Name of Action or Project: | Review and evaluation of designated school safe rooms. |
| Action or Project Description: | School district personnel, with help if necessary, should review and re-evaluate those areas of school facilities designated as safe rooms during tornado warnings. These areas should be re-evaluated periodically to determine if they are still the safest locations for students and staff to shelter during a tornado or severe weather event. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | \$1,500 - \$5,000 |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 24 – H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, and private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | Hazard mitigation plan, LEOP, school crisis management plan |
| Progress Report | |
| Action Status | In Progress/Continue in Plan Update |
| Report of Progress | The district has designated safe areas of the school but would likely benefit from an annual review of those areas. |

Action 1.1.9: Construct certified tornado safe rooms in every school that does not have one as funding becomes available.

| Action Worksheet | |
|--|--|
| Name of Jurisdiction: | Maries R-II |
| Risk / Vulnerability | |
| Problem being Mitigated: | Risks/vulnerabilities associated with nonexistent /unavailable storm shelters in schools. |
| Hazard(s) Addressed: | Tornado |
| Action or Project | |
| Action/Project Number: | 1.3.5 |
| Name of Action or Project: | Reducing Vulnerability of People |
| Action or Project Description: | Construct certified tornado safe rooms in every school that does not have one as funding becomes available. |
| Applicable Goal Statement: | Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities. |
| Estimated Cost: | Unknown |
| Benefits: | Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts and emergency management costs/community costs. |
| Plan for Implementation | |
| Responsible Organization/Department: | School Superintendent, Board of Education |
| Action/Project Priority: | 23 - H |
| Timeline for Completion: | On-going |
| Potential Fund Sources: | Grants, local general revenue funds, private donations of cash, goods, or services. |
| Local Planning Mechanisms to be Used in Implementation, if any: | LEOP, hazard mitigation plan, school budget, school crisis management plan and capital improvements plan |
| Progress Report | |
| Action Status | New – added in 2021 update. |
| Report of Progress | New – not started |