

# Montgomery County Multi-Hazard Mitigation Plan



December 2008

Developed by Montgomery County with professional planning assistance from  
AMEC Earth and Environmental  
Hazard Mitigation and Emergency Management Program  
Denver, Colorado, and Topeka, Kansas





# SPECIAL THANKS AND ACKNOWLEDGEMENTS

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## EXECUTIVE SUMMARY

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The purpose of natural hazards mitigation is to reduce or eliminate long-term risk to people and property from natural hazards. Montgomery County and participating jurisdictions developed this multi-hazard mitigation plan to reduce future losses to the County and its communities resulting from natural hazards. The plan was prepared pursuant to the requirements of the Disaster Mitigation Act of 2000 and to achieve eligibility for the Federal Emergency Management Agency (FEMA) Flood Mitigation Assistance, Pre-Disaster Mitigation, and Hazard Mitigation Grant Programs.

The Montgomery County Multi-Hazard Mitigation Plan is a multi-jurisdictional plan that covers the following local governments that participated in the planning process:

- Montgomery County
- City of Caney
- City of Cherryvale
- City of Coffeyville
- City of Dearing
- City of Havana
- City of Elk City
- City of Independence
- City of Liberty
- Unified School District 436
- Unified School District 445
- Unified School District 446
- Unified School District 447
- Coffeyville Community College
- Independence Community College
- Special Districts
  - Rural Fire District #1
  - Public Wholesale Water Supply District #4
  - Water District #6
  - Water District #7
  - Water District #8
  - Water District #10
  - Water District #11
  - Water District #12
  - Water District #13

In addition to the local governments, several private non-profit entities participated in this effort providing support and contributing to the mitigation strategy:

- St. Andrew Catholic School
- Zion Lutheran School
- Four County Mental Health
- Radiant Electric Cooperative
- Independence Bible School
- Harry Hynes Hospice
- Montgomery County VOAD
- COAC Cultural Arts Council
- Coffeyville Regional Medical Center
- SEK Senior Services
- Class LTD
- MG County RACES
- Action Council
- Crisis Resource Center
- American Red Cross
- Coffeyville Friends of Animals
- Mercy Hospital

The County's planning process followed a methodology prescribed by FEMA, which began with the formation of a Hazard Mitigation Planning Committee (HMPC) comprised of key stakeholders from Montgomery County, participating jurisdictions, and state and federal agencies. The HMPC conducted a risk assessment that identified and profiled hazards that pose a risk to Montgomery County, assessed the County's vulnerability to these hazards, and examined the capabilities in place to mitigate them. The County is vulnerable to several hazards that are identified, profiled, and analyzed in this plan. Tornadoes, floods, winter storm, and drought are among the hazards that can have a significant impact on the County.

Based upon the risk assessment, the HMPC identified goals and objectives for reducing risk from hazards. The goals and objectives of this multi-hazard mitigation plan are to:

**Goal 1: Minimize the vulnerability of the people, property, environment, and economy of Montgomery County to the impacts of natural hazards.**

- Encourage life and property protection measures for all people, animals and structures in Montgomery County.
- Reduce repetitive property losses due to flood wildfire and all other hazards.
- Mitigate existing structures in identified flood hazard areas.
- Prevent/reduce potential damage to existing and future buildings and infrastructure.
- Encourage NFIP participation / compliance.

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**Goal 2: Improve education and training in hazard mitigation, preparedness, response and recovery and related programs.**

- Identify and develop needed training and education to targeted audiences.
- Strengthen outreach and partnerships with the private sector, nonprofit organizations, and the public.

**Goal 3: Strengthen communication/cooperation between jurisdictions, including all response and recovery agencies, and the public.**

- Improve interoperability of communications equipment.
- Ensure all response agencies understand and utilize the National Incident Management System.
- Improve information dissemination to the public before, during, and after emergency events.
- Strengthen memorandums of understanding, cooperative agreements, and mutual aid agreements.
- Enhance/improve /expand warning systems.

**Goal 4: Protect critical facilities and other community assets from the impacts of hazards.**

- Assess vulnerability and prioritize projects to mitigate damage to critical facilities and infrastructure.
- Protect transportation and access routes.
- Prevent/ reduce damage to utility infrastructure due to natural hazards.

To meet identified goals and objectives, the plan recommends the mitigation actions summarized in the table on the following page. The HMPC also developed an implementation plan for each action, which identifies priority level, background information, ideas for implementation, responsible agency, timeline, cost estimate, potential funding sources, and more. These additional details are provided in Chapter 4.

The multi-hazard mitigation plan has been formally adopted by the Montgomery County Commissioners and the governing bodies of each participating jurisdiction and will be updated within a five-year timeframe.

## Mitigation Action Matrix

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
County-1	Add telemetry to the existing NOAA Verdigris River Station at Coffeyville and Independence	H	4	Flood
County-2	Promote NOAA All Hazard Radios	M	3	All Hazards
County-3	Promote Flood Insurance	M	1	Flood
County-4	Improve Fragmented Communications System in County	H	3	All Hazards
County-5	Implement reverse call back system for severe weather warnings	H	3	All Hazards
County-6	Distribute "Family Guide for Emergency Prepared Neighborhoods"	M	2	All Hazards
County-7	Buyout Floodprone Property	L	1	Flood
County-8	Install back-up generators in critical/special needs facilities	H	4	Flood, Tornado, Winter Storm, Windstorm, Utility/Infrastructure Failure, Extreme Heat
County-9	Prepare Debris Removal Plan for FEMA Approval	M	4	Winter Storm, Windstorm
County-10	Work with park owners to develop emergency procedures for mobile home tenants	M	2	All Hazards
County-11	Identify and publish locations of existing shelter locations	M	2	Tornado, Flood, Extreme Heat
County-12	Continue to participate in the National Flood Insurance Program	L	1	Flood
County-13	Mitigate landslide hazard on Table Mound Road	L	4	Landslide
County-14	Reinforce bridge footings for scour critical bridges	M	4	Flood
County-15	Work with K-State Research and Extension to monitor crop disease and continue research for damage prevention	M	1,3	Agricultural Infestation
County-16	Promote Availability of Crop Insurance	M	1,3	Agricultural Infestation, Flood, Drought, Hail

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
County-17	Inform public through current and new technology over all media outlets	M	3	All Hazards
County-18	Develop GIS Layers of Soil types	M	4	Expansive Soils
County-19	Develop GIS layers of pipeline locations	M	4	Utility/Infrastructure Failure/Expansive Soils
Caney-1	Identify and publish location of existing shelter locations	M	1,2	Tornado, Flood, Extreme Heat
Caney-2	Continue to participate in the NFIP in good standing and manage floodplain in accordance with currently adopted Floodplain Management Ordinance	L	1,4	Flood
Caney-3	Upgrade Outdoor Warning Sirens	H	1,4	Tornado
Cherryvale-1	Continue to participate in the National Flood Insurance Program in good standing and manage the floodplain in accordance with the currently adopted Floodplain Management Ordinance	L	1	Flood
Cherryvale-2	Upgrade outdoor warning sirens in Cherryvale	H	1	Tornado
Cherryvale-3	Enhance Stormwater Drainage System	M	1	Flood
Coffeyville-1	Implement physical and electronic perimeter monitoring of critical facilities and utilities	M	4	Utility/Infrastructure Failure
Coffeyville-2	Expand/Improve Emergency Communications	H	3	All Hazards
Coffeyville-3	Implement reverse call back system for severe weather warnings	H	3	All Hazards
Coffeyville-4	Elevate or floodproof wastewater lift stations in Coffeyville	H	4	Flood
Coffeyville-5	Continue to participate in the National Flood Insurance Program in good standing and manage the floodplain in accordance with the currently adopted Floodplain Management Ordinance	L	1	Flood
Coffeyville-6	Implement floodproofing measures such as elevation of electrical components at the Coffeyville Water Treatment Plant Intake Structure	H	4	Flood

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
Coffeyville-7	Install back-up pumps and mobile piping system at the Coffeyville Water Treatment Plant	H	4	Flood
Coffeyville-8	Increase the height of the Coffeyville levee	M	1,4	Flood
Coffeyville-9	Floodprone property buyout in Coffeyville	L	1	Flood
Coffeyville-10	Upgrade Outdoor Warning Sirens	H	3	Tornado
Coffeyville-11	Relocate electric transmission and distribution lines out of the floodplain	M	4	Flood
Coffeyville-12	Purchase/Install SCADA software to help reduce peak demand outages	L	4	Extreme Heat, Utility/Infrastructure Failure
Coffeyville-13	Add electric substation transformer switching devices for flexibility in controlling peak load and extreme heat outages	L	4	Extreme Heat, Utility/Infrastructure Failure
Coffeyville-14	Bury utility, phone, cable wires for new construction	L	4	Winter Storm, Windstorm, Utility/Infrastructure Failure
Coffeyville-15	Replace overhead utility phone, cable wires with buried wires in prioritized locations	L	4	Winter Storm, Windstorm, Utility/Infrastructure Failure
Coffeyville-16	Geographically separate electric supply lines and substations	L	4	All Hazards
Coffeyville-17	Elevate electric transformers above the flood elevation	M	4	Flood, Utility/Infrastructure Failure
Coffeyville-18	Install self-supporting concrete electric poles	L	4	Winter Storm, Windstorm, Utility/Infrastructure Failure

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
Coffeyville-19	Add disconnect switches on primary lines to allow for isolation areas	M	4	All Hazards
Dearing-1	Implement physical perimeter monitoring of water pumping station, wastewater lift station, and City lagoons	M	4	Utility/Infrastructure Failure
Dearing-2	Install back-up generator for city hall	H	4	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
Dearing-3	Install back-up generator for waste water lift station	H	1	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
Dearing-4	Install back-up generator for water system pumping station	H	1	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
Dearing-5	Continue process to join National Flood Insurance Program-- <b>*Note— this action was completed during the drafting stage of the mitigation plan. Effective participation date October 28, 2008.</b>	L	1	Flood
Dearing-6	Culvert Enlargement for Storm Drainage	M	1	Flood
Dearing-7	Stream Erosion and Sediment Control Project	M	1	Flood
Dearing-8	Construct a tornado shelter, cooling center, city hall	H	1	Tornado, Extreme Heat
Havana-1	Purchase and install outdoor warning sirens	H	1,2,3,4	Tornado
Havana-2	Install back-up generator for shelter	H	1	Winter Storm, Windstorm, Flood,

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
				Lightning, Utility/Infrastructure Failure
Havana-3	Construct storm shelter	H	1	Tornado
Elk City-1	Improve dike protecting Elk City Water Plant	H	1,4	Flood
Elk City-2	Mitigate Elk City water pumps against flood damage	H	1,3,4	Flood
Elk City-3	Construct community tornado shelter	H	1,2,3,4	Tornado
Elk City-4	Install Tornado Sirens	H	1,2,3,4	Tornado
Elk City-5	Elevate electrical equipment at water plant	H	1,4	Flood
Elk City-6	Install Flood Gate at Elk City water plant on east side at culvert	H	1,4	Flood
Elk City-7	Purchase automatic pump and generator for water plant	H	4	Flood
Elk City-8	Elk City Dike drainage improvement and maintenance	M	1,3,4	Flood
Elk City-9	Continue to participate in the National Flood Insurance Program	L	1,4	Flood
Independence Community College-2	Provide training services and resource materials for train-the-trainer training sessions to assist with implementation of area mitigation action projects	M	2	All Hazards
Independence-1	Replace and increase storm warning public address system	H	3	Tornado
Independence-2	Construct flood gate and pumps at the end of the levee adjoining pine street	M	1	Flood
Independence-3	Install emergency generator at Water Treatment Plant	H	4	Flood
Independence-4	Develop project to mitigate flood damage of Independence high service pump station at the Water Treatment Plant--elevate high service pump building and clear wells	H	4	Flood
Independence	Relocate the main electrical panel at Water Treatment Plant outside	H	4	Flood

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
e-5	the floodplain			
Independenc e-6	Purchase and install standby pumps at lift stations for discharge of wastewater in the event lift stations are inoperable	H	4	Flood
Independenc e-7	Replace pumps with submersible pumps, elevate electrical control panels and elevate emergency generators at Wald Ave. and Southeast Pump Stations (sanitary sewer)	H	4	Flood
Independenc e-8	Construct flood levee to protect buildings, equipment and treatment facilities at the wastewater treatment plant	H	4	Flood
Independenc e-9	Continue to participate in the National Flood Insurance Program in good standing and manage the floodplain in accordance with the currently adopted Floodplain Management Ordinance	L	1	Flood
Independenc e-10	Purchase floodprone property in the 100-year floodplain	L	1	Flood
Liberty-1	Provide flood protection to Liberty Wastewater Treatment Plant	H	4	Flood
USD 436-1	Evaluate existing tornado shelter locations in all USD 436 schools	H	1,2	Tornado
USD 436-2	Construct safe rooms in new and existing schools in USD 436	H	1,2	Tornado
USD 445-1	Evaluate existing school shelter locations in all schools in USD 445	H	1	Tornado
USD 445-2	Construct safe rooms in new and existing schools in USD 455	H	1	Tornado
USD 446-1	Evaluate existing tornado shelter locations in all USD 446 schools	H	1	Tornado
USD 447-1	Evaluate existing tornado shelter locations in all USD 447 schools	H	1	Tornado
USD 447-2	Construct safe rooms in new and existing schools in USD 447	H	1	Tornado
USD446-2	Construct safe rooms in new and existing schools in USD 446	H	1	Tornado
Coffeyville Community College-1	Construct saferoom on college campus	H	1	Tornado
RFD #1-1	Reduce hazardous fuels in prioritized wildfire risk areas	L	1	Wildfire
RFD #1-2	Increase public and fire department training on wildland urban interface fires	L	2	Wildfire

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
RFD #1-3	Provide homeowner education on wildfire mitigation in wildland-urban interface	L	2	Wildfire
PWWSD #4-1	Install back-up generator at pump house	H	1,4	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
RWD #6-1	Map Pipelines	M	1,2	Utility/Infrastructure Failure
RWD #6-2	Install back-up generators for pumps	H	1	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
RWD #6-3	Perimeter monitoring	M	4	Utility/Infrastructure Failure
RWD #7-1	Install back-up generators for pumps	H	1	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
RWD #7-2	Map Pipelines	M	1,2	Utility/Infrastructure Failure
RWD #7-3	Perimeter monitoring	M	4	Utility/Infrastructure Failure
RWD #8-1	Connect water supply systems of RWD #8 and RWD #13	H	4	Flood

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
RWD #10-1	Install back-up generators for pumps	H	1	Winter Storm, Windstorm, Flood, Lightning, Utility/Infrastructure Failure
RWD #10-2	Map Water Pipelines	M	1,2	Utility/Infrastructure Failure
RWD #10-3	Perimeter monitoring	M	4	Utility/Infrastructure Failure
RWD #12-1	Reinforce water tower to withstand high winds and peripheral winds from tornadoes	n/a	1,4	Tornado, Windstorm
RWD #13-1	Connect water supply systems of RWD #8 and RWD #13	H	4	Flood
Radiant Electric Cooperative-1	Installation of lightning arrestors on distribution power line structures	L	4	Lightning
Radiant Electric Cooperative-2	Replace copper weld wire and pole line spans to current codes and standards	L	4	Winter Storm
Radiant Electric Cooperative-3	Relocation/elevation of power line and related infrastructure facilities out of floodplain	M	4	Flood
Coffeyville Regional Medical Center-1	Construct Safe room at Coffeyville Regional Medical Center	H	1	Tornado
American Red Cross-1	Promote private insurance	M	2	All Hazards
Mercy Hospital-1	Construct safe room at Mercy Hospital	H	1	Tornado

Action ID	Action	Priority	Goals Addressed	Hazards Addressed
Private Non-profit Schools-1	Construct safe rooms in private schools	H	1	Tornado
Private Non-profit Schools-2	Evaluate safe rooms in private schools	H	1	Tornado



## PREREQUISITES

**44 CFR requirement 201.6(c)(5): The local hazard mitigation plan shall include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan. For multi-jurisdictional plans, each jurisdiction requesting approval of the plan must document that it has been formally adopted.**

*Note to Reviewers: When this plan has been reviewed and approved pending adoption by FEMA Region VII the adoption resolutions will be signed by the participating jurisdictions and added to the Prerequisites section. A model resolution is provided.*

The following jurisdictions participated in the development of this plan and have adopted the multi-jurisdictional plan. Resolutions of Adoptions are included on the following pages.

- Montgomery County
- City of Caney
- City of Cherryvale
- City of Coffeyville
- City of Dearing
- City of Havana
- City of Elk City
- City of Independence
- City of Liberty
- Unified School District 436
- Unified School District 445
- Unified School District 446
- Unified School District 447
- Coffeyville Community College
- Independence Community College
- Special Districts
  - Rural Fire District #1
  - Public Wholesale Water Supply District #4
  - Water District #6
  - Water District #7
  - Water District #8
  - Water District #10
  - Water District #11
  - Water District #12
  - Water District #13

# Model Resolution

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Resolution # \_\_\_\_\_ **Adopting the Montgomery County Multi-Hazard Mitigation Plan**

**Whereas**, the (Name of Government/District/Organization seeking FEMA approval of hazard mitigation plan) recognizes the threat that natural hazards pose to people and property within our community; and

**Whereas**, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

**Whereas**, the U.S. Congress passed the Disaster Mitigation Act of 2000 (“Disaster Mitigation Act”) emphasizing the need for pre-disaster mitigation of potential hazards;

**Whereas**, the Disaster Mitigation Act made available hazard mitigation grants to state and local governments; and

**Whereas**, an adopted Multi-Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

**Whereas**, the (Name of Government/District/Organization) fully participated in the FEMA-prescribed mitigation planning process to prepare this Multi-Hazard Mitigation Plan; and

**Whereas**, the Kansas Division of Emergency Management and the Federal Emergency Management Agency Region VII officials have reviewed the “Montgomery County Multi-Hazard Mitigation Plan,” and approved it contingent upon this official adoption of the participating governing body; and

**Whereas**, the (Name of Government/District/Organization) desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts by formally adopting the Montgomery County Multi-Hazard Mitigation Plan; and

**Whereas**, adoption by the governing body for the (Name of Government/District/Organization) demonstrates the jurisdictions’ commitment to fulfilling the mitigation goals and objectives outlined in this Multi-Hazard Mitigation Plan.

**Whereas**, adoption of this legitimizes the plan and authorizes responsible agencies to carry out their responsibilities under the plan;

**Now, therefore, be it resolved**, that the (Name of Government/District/Organization) adopts the “Montgomery County Multi-Hazard Mitigation Plan” as an official plan; and

**Be it further resolved**, the (Name of Government/District/Organization) will submit this Adoption Resolution to the Kansas Division of Emergency Management and Federal Emergency Management Agency Region VII officials to enable the plan’s final approval.

Passed: \_\_\_\_\_

\_\_\_\_\_

Certifying Official

*Placeholder for Adoption Resolutions*