

THE CATEGORIZATION OF LOCAL JURISDICTIONS' MITIGATION ACTIONS/MEASURES COORDINATED WITH ONE SET OF FEMA'S MITIGATION MEASURE CATEGORIES

Appendix 4-6

Standard Portion: Mitigation Strategy

Commonwealth of Kentucky Enhanced Hazard Mitigation Plan: 2013 Version

Kentucky Emergency Management (KYEM)

University of Kentucky, Martin School of Public Policy and Administration

Hazard Mitigation Grants Program (UK-HMGP)

After categorizing the mitigation measures/actions of its local jurisdictions in order to derive its mitigation actions, the Commonwealth of Kentucky still had to evaluate those actions in terms of which hazards the measures/actions would mitigate. The Commonwealth of Kentucky used a set of FEMA mitigation measure categories developed by its Region V. The report is entitled "Mitigation Ideas..." It too is appended to this section.

THE LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LFUCG)
AND
LOUISVILLE METROPOLITAN SEWER DISTRICT (LOUISVILLE MSD)
LOCAL HAZARD MITIGATION PLANS:

Though the Commonwealth of Kentucky has fifteen (15) Area Development Districts (ADDs), with each ADD producing its own (multi-jurisdictional) local hazard mitigation plan, there are actually seventeen (17) total local hazard mitigation plans.

The City of Louisville (i.e. the Louisville Metropolitan Sewer District and Jefferson County) and the City of Lexington (i.e. the Lexington-Fayette Urban County Government) both have separate local hazard mitigation plans.

Merely for purposes of space and formatting (i.e. table width and margins) the LFUCG and Louisville MSD plans are not listed explicitly in the table that follows.

Rather, LFUCG is a member of the Bluegrass Area Development District (BGADD).

And Louisville MSD is a member of the Kentuckiana Regional Planning and Development Agency (KIPDA).

So, this table has incorporated the information from the LFUCG hazard mitigation plan into the BGADD column and the information from the Louisville MSD hazard mitigation plan into the KIPDA column.

The table incorporates the LFUCG and Louisville MSD mitigation actions into their respective ADD columns in the following manner:

- If the LFUCG or Louisville MSD plan shares the mitigation action category with its respective ADD, then the checkmark corresponding to that mitigation action category will have a "+1" next to it.
- If the LFUCG or Louisville MSD plan possesses a mitigation action category that does *not* correspond with the action categories of its respective ADD, then that checkmark will be highlighted in "blue" (LFUCG) or "red" (Louisville MSD)

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS W/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
<i>ALL TYPES</i>																
Public Education and Awareness	17	✓ (+1)	✓	✓	✓	✓	✓	✓	✓	✓ (+1)	✓	✓	✓	✓	✓	✓
Mutual Aid/Inter-Agency Agreements	5						✓	✓			✓	✓	✓			
911 (311)	1	✓														
NOAA Weather Radios	11	✓	✓		✓		✓		✓	✓		✓	✓	✓	✓	✓
Emergency Alert Systems	13	✓ (+1)		✓	✓	✓		✓	✓	✓ (+1)	✓	✓		✓	✓	
Continuity of Operations Planning	6	✓	✓		✓		✓		✓	✓						
Land-Use Planning	3	✓			✓					✓						
Site Emergency Plans	0															
Emergency Response Personnel	2	✓				✓										
Community Emergency Response Teams (CERTs)	5	✓		✓			✓						✓	✓		
Insurance	3				✓				✓	✓						
Real Estate Disclosure	2									✓			✓			
Family Disaster Plans & Supply Kits	2														✓	✓

¹ The Area Development Districts Abbreviations Used in This Plan:

- BGADD = Bluegrass Area Development District
- BRADD = Barren River Area Development District
- BSADD = Big Sandy Area Development District
- BTADD = Buffalo Trace Area Development District
- CVADD = Cumberland Valley Area Development District
- FIVCO = Five Counties Area Development District (It is a portmanteau.)
- GRADD = Green River Area Development District
- GWADD = Gateway Area Development District
- KIPDA = Kentuckiana (Regional) Planning and Development Agency
- KRADD = Kentucky River Area Development District
- LCADD = Lake Cumberland Area Development District
- LTADD = Lincoln Trail Area Development District
- NKADD = Northern Kentucky Area Development District
- PADD = (Jackson) Purchase Area Development District
- PeADD = Pennyrite Area Development District

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
FLOODING																
Acquisitions	10	✓				✓	✓		✓	✓	✓	✓	✓		✓	✓
Relocations	6			✓	✓		✓				✓				✓	✓
Elevations	4								✓		✓				✓	✓
Dry Flood-Proofing	0															
Wet Flood-Proofing	0															
Floodplain/Coastal Zone Management	1									✓						
Capital Improvement Plans	0															
Zoning Ordinances or Amendments to	6	✓	✓				✓		✓			✓	✓			
Subdivision Ordinances or Amendments to	4	✓								✓		✓		✓		
Building Codes or Amendments to	3		✓						✓				✓			
Conservation Easements	0															
Transfer of Development Rights	0															
Purchase of Easement/Development Rights	0															
Storm-Water Management Ordinances or Amendments to	3	✓			✓		✓									
Multi-Jurisdiction Cooperation w/in Watershed	0															
Comprehensive Watershed Taxation	0															
Post-Disaster Recovery Ordinances	0															
Flood Insurance (NFIP Participation)	9	✓	✓				✓	✓	✓	✓		✓		✓	✓	✓
Floodplain Ordinances or Amendments to	4			✓	✓	✓				✓						
Community Rating System (CRS)	0															
Updated Floodplain Mapping	8	✓ ₍₊₁₎	✓			✓	✓		✓			✓	✓			
Storm Drainage Systems	5	✓	✓	✓		✓					✓					
Drainage Systems Maintenance	4	✓				✓						✓			✓	
Drainage Easements	0															
Wetlands Protection	4	✓				✓			✓						✓	
Roads	4			✓					✓		✓		✓			
Structural Flood-Control Measures	5	✓								✓	✓				✓	✓

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
Minor Structural Projects	7	✓ (+1)							✓	✓					✓	✓
Dam and Levee Maintenance	3				✓					✓ ²					✓	
Community Outreach and Education (RE: Flooding)	2	✓									✓					
Debris Control	9		✓	✓	✓		✓	✓	✓			✓	✓			✓
Hazardous and Buoyant Material Protection	0															
Manufactured Homes	0															
Flood Warnings	2	✓								✓						
Back-Up Generators	6		✓		✓			✓	✓						✓	✓
Basement Backflow Prevention	0															

² The City of Louisville, i.e. Louisville Metropolitan Sewer District (Louisville MSD), focuses a significant number of their mitigation actions on dams; more so than is implied with this simple checkmark and FEMA's action categorization. See **Appendix 4-5**.

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
<i>LANDSLIDE AND DEBRIS FLOW</i>																
Mapping	2					✓				✓						
Building Codes	3	✓									✓	✓				
Zoning Ordinances	3	✓			✓				✓							
Slide-Prone Area Ordinances	0															
Code Enforcement	1									✓						
Drainage Control Regulations	0															
Grading Ordinances	0															
Hillside Development Ordinances	0															
Subdivision Ordinances	0															
Sanitary System Codes	0															
Geological Hazard Overlay Zones	0															
Open-Space Designations	0															
Relocation	1				✓											
Acquisition	2		✓		✓											
Restraining Structures	0															
Debris-Flow Measures	0															
Grading	0															
Vegetation Placement and Management Plans	0															
Utility Location/Relocation	0															
Abatement Districts	0															
Restrictive Covenants	1									✓						

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
THUNDERSTORMS/LIGHTNING																
Community Outreach and Education (RE: T'Storms and Lightning)	0															
Early Warning Systems	1								✓							
Building Construction	0															
Surge Protectors and Lightning Protection	0															
Burying Power Lines	0															
TORNADOES																
Construction Standards and Techniques	3	✓				✓				✓						
Safe Rooms	9	✓ (+1)				✓			✓	✓		✓	✓		✓	✓
Manufactured Homes	0															
Loose Items	1									✓						
Temporary Debris Disposal	0															
SEVERE WIND																
Roofing Shingles	0															
Building Construction	0															
Manufactured Home Tie-Downs	0															
Burying Power Lines	0															
Designed-Failure Mode	1					✓										
Back-Up Power	6		✓	✓	✓					✓					✓	✓
Tree Management	8	✓		✓	✓		✓	✓		✓	✓			✓	✓	✓
EXTREME TEMPERATURES																
Outreach/Public Awareness	0															
Heating Requirements	0															
Heating Bills	0															
Heating and Cooling Centers	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
WINTER WEATHER/SNOWSTORMS																
Family and Traveler Emergency Preparedness	1															✓
Driver Safety	0															
Power Lines	1					✓										
Code Enforcement and Building Maintenance	0															
Shelters (Safe Rooms)	1	✓														
Outreach/Public Awareness	0															
Animal Protection	0															
Roads	1					✓										
Snow-Fences	0															
SNOW LOADS																
Snow Load Design Standards	0															
Snow Weight Data Collection	0															
Maintenance	0															
Modifications	0															
Analysis and Repair or Replacement of Structural Systems	0															
SUBSIDENCE (MINE/LAND)																
Community Awareness	0															
Mapping	0															
Open-Space	0															
Acquisitions	0															
Filling or Buttrassing	0															
Relocations	0															
Hydrological Monitoring	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
<i>EARTHQUAKES</i>																
Seismic Hazard Mapping	0															
Other Related Mapping	3									✓		✓				✓
Map Education	0															
Rapid Visual Screening	0															
Loss Estimation Studies	0															
HAZUS	0															
Seismic Safety Committees	0															
School Survey Procedures	0															
Capital Improvement Plans	0															
Guidelines and Model Ordinances	0															
Building Codes	0															
Seismic Code Training	1														✓	
Buildings as Structural Hazards	0															
Non-Structural Hazards	0															
Technical Assistance for Homeowners	0															
Infrastructure Hardening	0															
Bridge Strengthening	0															
Hazard Mitigation Awareness (RE: Earthquakes)	3									✓		✓				✓
Financial Incentives	0															
Insurance	1									✓						
Reference Library	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
<i>DROUGHT</i>																
Water-Saving	0															
Water Storage	1	✓														
Water-Use Ordinances	0															
Contingency Plans	1	✓														
Water Delivery Systems	0															
Crop Insurance	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
WILDFIRES																
Public Education/Outreach	3								✓			✓				✓
Neighborhood Groups	0															
Zoning Ordinances	0															
Defensible Space	0															
GIS Mapping	1											✓				
Power Line Maintenance	0															
Insurance (Promotion of)	0															
Property Maintenance	2									✓		✓				
Fireplace and Chimney Maintenance	0															
Building Codes	0															
Waste Disposal	0															
Arson Prevention	0															
Burning Restriction	2								✓						✓	
Road and Driveway Clearance	0															
Hillside Construction	0															
Building Foundations	0															
Motorized Equipment	0															
Flammable Materials	0															
Smoke/Fire Detectors and Sprinklers	0															
Spotters	0															
Media	0															
Response Personnel	0															
Water Supplies	0															
Evacuation	0															
Individual Response	1									✓						

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
STRUCTURE FIRES																
Codes and Enforcement	0															
Building Design	0															
Public Education and School Programs Regarding	0															
Personal Preparation	0															
Heating Systems	0															
Space Heaters	0															
Fireplace and Chimney Maintenance	0															
Electrical Outlets	0															
Arson Prevention	0															
Flammable Materials	0															
Power Line Maintenance	0															
Fire Departments	0															
Transportation Planning	0															
Civil Disturbances	0															
Fireworks	0															
Illegal Drug Laboratories	0															
SCRAP TIRE FIRES																
Tire Disposal Policies	0															
Facility Siting	0															
Law Enforcement	0															
Alternate Use/Recycling	0															
Pest Control	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
HAZARDOUS MATERIALS																
Safety Procedures and Policy	1	✓														
Public Awareness and Worker Education	1	✓														
Local Emergency Planning Committee (LEPC)	1	✓														
Emergency Plans	1	✓														
Risk Management Plans	1	✓														
Transportation	0															
Disposal	0															
Emergency Response Teams (ERTs)	0															
Search and Rescue	0															
Industrial Site Buffering	0															
Radioactivity and Radon	0															
Cleanup of Brownfields	0															
Security	0															
TRANSPORTATION ACCIDENTS																
Driver Education	0															
Road Design	0															
Railroads	0															
Airports	0															
Marine Safety	0															
Mass Casualty Preparation	0															
Traffic Control	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
UTILITY FAILURE																
Water and Sewer	0															
Electrical Lines	0															
System Redundancies	0															
Back-Up Power	5		✓		✓		✓	✓						✓		
Maintenance	1												✓			
Rolling Blackouts and Brownouts	0															
Lightning Protection	0															
Tree-Trimming	3						✓					✓		✓		
Digging Hotlines	0															
Vulnerable Populations	0															
OIL AND NATURAL GAS																
Safety Regulations	0															
Contingency Plans	0															
Well Segregation	0															
Pipeline Location and Design	0															
Digging Hotlines	0															
RADIOLOGICAL EMERGENCIES																
Users of Radiological Materials	0															
Transportation Routes	0															
Nuclear Plants	0															
Three (3) Ways to Minimize Exposure	0															
Shelters and Warning Systems	0															
Safe Rooms	0															
Building Materials	0															

WHAT A LOCAL GOVERNMENT'S MITIGATION ACTION CONCERNED UNDER WHICH FEMA HAZARD CATEGORY	TOTAL # OF ADDS w/ACTION	AREA DEVELOPMENT DISTRICT (ADD) ¹														
		BGADD	BRADD	BSADD	BTADD	CVADD	FIVCO	GRADD	GWADD	KIPDA	KRADD	LCADD	LTADD	NKADD	PADD	PeADD
SABOTAGE/TERRORISM																
Assessment	0															
Critical Infrastructure Protection	0															
Computers	0															
Building Materials	0															
Monitoring and Reporting	0															
Emergency Responder Preparedness	0															
School Violence	0															
Public Gatherings	0															
Mental Health Services	0															
Private Emergency Plans	0															
CIVIL DISTURBANCE																
Law Enforcement	0															
Planning and Documentation	0															
Facility Design	0															
Environmental Design	0															
PUBLIC HEALTH EMERGENCIES																
Immunization	0															
Ventilation	0															
Radon	0															
Water and Sewer	0															
Vacant Structures	0															
Public Health Systems	0															
Contamination Containment	0															
Waste Disposal	0															
Septic Tanks	0															