

APPENDIX J
ALTERNATIVE MATRIX

Directions for Filling out the Matrix

We have provided the hazard mitigation alternatives in an excel format so that it makes it easier to rate each one when you are filling out the matrix.

1. Look at each statement under each hazard separately. Follow the example provided under the first hazard listed.
2. When you are ready to fill in the matrix you will use a rating criterion from 1 to 5. (5 being considered highest and most important. You may also leave boxes blank if you cannot answer the question.)
3. Please note that the first alternative under each hazard is "No Action", which means the County will do nothing in terms of mitigation for this hazard. You must also rate doing nothing as an alternative.
4. Don't worry about the Hazard Prioritization Column (we will take care of that).
5. Don't total your scores (we will also take care of that component also).
6. If you feel that any alternative does not apply to your community or is confusing, do not rate it and leave it blank.
7. If there are any questions concerning the alternatives or how to fill out the matrix, please contact me, Kari Mackenbach at (614) 216-5323 or e-mail me at kari_mackenbach@urscorp.com

For Example:

Under Flooding- 100 year, none-flood zone and flash flooding

One of the alternatives listed says:

Adams County relies heavily on HAMM operators because of the lack of MARCS radios throughout the County, Adams County needs to seek funding to provide support both financially and figuratively to the HAMM Operators Club in Adams County.

To fill in the matrix you must ask yourself several questions while you are filling out the matrix.

Is this statement economically justifiable? Place a rating in the box between 1-5

Is this statement technically feasible? Place a rating in the box between 1-5

Is this statement socially equitable? Place a rating in the box between 1-5

Is this statement environmentally sound? Place a rating in the box between 1-5

Is this statement publically acceptable? Place a rating in the box between 1-5

Once you are finished filling out the matrix please mail or hand deliver the matrix to **Karen Sapp** at the **Adams County Emergency Management Office**.

ADAMS COUNTY MATRIX TOTALS				
	Matrix Totals	Matrix Totals	Matrix Totals	Average
1. Flooding - 100-year zone, non-flood zone, flash flooding HAZARD PRIORITY 5				
No Action.	5	5	5	5
Seek funding for undersized culverts and drainage along roadways.	25	25	25	25
Seek funding to provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	25	25	25	25
Seek funding to increase manpower and equipment for townships and villages for debris removal.	25	25	25	25
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	25	25
Document which critical facilities do not have NOAA weather radios and seek funding to provide them to those documented without radios.	25	25	25	25
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	25	25	25	25
Upgrade the radio communications system throughout the County for all public safety services. Seek funding to provide MARCS radios throughout the County.	25	25	25	25
Adams County relies heavily on HAMM operators because of lack of MARCS radios throughout the County, provide support both financially and figuratively to the HAMM Operators Club in Adams County.	25	25	25	25
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	19	15	20	18
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	25	25	25	25
Develop a public education program for informing residents of the hazards associated with severe weather and flooding, such as medical conditions and driving conditions, as well as what to do after an event occurs.	25	25	25	25

Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	19	10	15	14.66
Provide designated locations/facilities to house displaced animals after severe storm/flooding events.	25	25	25	25
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	25	25	25	25
Seek funding to identify, map and maintain existing critical culverts and storm drainage ditches near residential areas, roadways and low lying areas throughout the County.	25	25	25	25
Seek funding to install new infrastructure in areas susceptible to low level flooding and ponding, outside of the 100-year floodplain.	25	25	25	25
Identify and provide warning signage and/or roadway markings for roadways that are susceptible to repeated flooding regardless of the amount of rainfall.	25	25	25	25
Seek funding to elevate roadways (ingress and egress) that suffer repeat flooding to maintain traffic access to the area.	25	25	25	25
Seek funding to study existing problem flooding areas (and upstream areas) to see if new detention basins would alleviate the flooding problem.	25	25	25	25
Many area residents within Adams County still drive through dry creek beds to access their homes. Seek funding to construct bridges for proper ingress and egress for access to homes.	25	25	25	25
Adams County relies heavily on one wellfield for their water source with no back-up water source. Seek funding to investigate alternative water sources for Adams County.	25	25	25	25
Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	25	25	25	25
2. Severe Storms - Winter/Summer HAZARD PRIORITY 4				
No Action.	5	5	5	5
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	25	25	25	25
Seek funding to increase manpower and equipment for townships and villages for snow and debris removal.	25	25	25	25

Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	25	25	25
Provide/Encourage NOAA weather radios for all critical facilities within the County.	25	25	25	25	25
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction. (talk to red cross)	25	25	25	25	25
Install an interoperable siren system that would alert residents of approaching severe weather or other emergencies.	25	25	25	25	25
Upgrade the radio communications system throughout the County for all public safety services. Seek funding for MARCS radios for all necessary public entities.	25	25	25	25	25
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	19	20	20	20	19.66
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	25	25	25	25	25
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	19	15	15	15	16.33
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	25	25	25	25	25
During periods of large snow events, agriculture is affected dramatically, especially as it relates to feeding livestock. Coordinate efforts to provide information to the agricultural community on creating a network of farms to share resources during times of need.	25	15	15	15	18.33
Establish cooperative agreement/memorandum of understanding between rural water development authorities to provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	25	25	25	25	25
3. Droughts – Severe					
HAZARD PRIORITY 3					
No Action.	5	5	5	5	5
Develop and implement a domestic water management/conservation program.	21	17	9	9	15.66
Provide an alternate potable water source in the event that existing water supplies are disrupted or wells run dry.	25	25	25	25	25

Develop a public education program concerning the hazards associated with droughts and water restrictions during drought conditions.	21	17	15	17.66
Establish an enforceable open burning ban to be implemented during droughts.	21	17	15	17.66
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	25	25	25	25
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	25	25	25	25
public education and awareness of droughts and what to do during one. Educate residents on the proper use of air conditioners etc and how they cause brown outs.	21	17	15	17.66
Seek funding for dry hydrants	25	25	25	25
adequate planning for fire fighting for wildland fires	23	21	20	21.33
Develop and implement a plan to process donations, acquire feeds and provide potable water supplies for livestock.	23	21	20	21.33
4. Tornadoes HAZARD PRIORITY 2				
No Action.	5	5	5	5
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	25	25	25	25
Seek funding to increase manpower and equipment for townships and villages for debris removal.	25	25	25	25
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	25	25
Provide/Encourage NOAA weather radios for all critical facilities within the County.	25	25	25	25
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	25	25	25	25
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	25	25	25	25
Install an interoperable siren system that would alert residents of approaching severe weather or other emergencies.	25	25	25	25
Upgrade the radio communications system throughout the County for all public safety services.	25	25	25	25

Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	25	25	25	25	25
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	25	25	25	25	25
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	23	20	20	20	21
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	25	25	25	25	25
Develop a public education program for informing residents of the hazards associated with tornadoes, such as medical conditions and driving conditions, as well as what to do after an event occurs.	25	25	25	25	25
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	23	20	20	20	21
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	23	15	15	15	17.66
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the response of a severe weather incident.	25	25	25	25	25
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	25	25	25	25	25
Provide designated locations/facilities to house displaced animals after severe storm events.	25	25	25	25	25
Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather event.	25	25	25	25	25
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	25	25	25	25	25
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	25	25	25	25	25
Provide alternate potable water source in the event that existing water supplies are disrupted or contaminated.	25	25	25	25	25
Develop a debris management program.	25	25	25	25	25

5. Earthquakes		HAZARD PRIORITY 1							
No Action.		5	5	5	5				5
Develop a public education program concerning the hazards associated with earthquakes, as well as a homeowner's option to purchase earthquake insurance.		19	15	15	15				16.33
Provide alternate potable water source in the event that existing water supplies are disrupted or wells run dry.		25	25	25	25				25
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.		23	20	20	20				21
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the response of a severe weather incident.		25	25	25	25				25
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.		25	25	25	25				25
Seek funding to increase manpower and equipment for townships and villages for debris removal.		25	25	25	25				25
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.		25	25	25	25				25
Upgrade the radio communications system throughout the County for all public safety services.		25	25	25	25				25