

APPENDIX C: COMPLETED/DELETED MITIGATION ACTIONS

Table C.1 provides the disposition of actions from the previous Polk County Hazard Mitigation Plans that the jurisdictions did not to continue forward in the mitigation strategy of this plan update. This includes actions with the following statuses:

- Completed
- Delete

Table C.1. Completed and Deleted Actions from Previous Hazard Mitigation Plans

Action ID	Mitigation Project/Activity Description	Primary Hazard Addressed	2013 Action Status	2013 Action Status Comment	Completion Date	Completed Action Funding Sources	Completed Action Funding Amount
Polk County 1	Elevation of driving surface and creation of drainage system for Northwest 66 th Avenue Over Des Moines River	Flash Flooding	Delete	Benefit/Cost determination showed it was not worth pursuing.			
Polk County 2	Backup power generator at public works facility	River Flooding	Completed	Completed last Generator in 2013	Dec-13	County General Funds	\$25,000
Polk County 3	Building storage facility for salt to mitigate road icing	Winter Storm	Completed	Constructed Building to hold 3000 ton of Rock salt and 8000 ton of mixed ice control sand.	Nov-11	County General Funds	\$230,000
Polk County 4	Upgrades of various culverts on County roads according to DPW flood map	Flash Flooding	Delete	Benefit/Cost determination showed it was not worth pursuing.		NA	
Polk County 5	Construction of an emergency operations center	Windstorms	Completed	Utilized State of Iowa I-JOBS Grant.		County General Funds and State of Iowa I-JOBS Funds	\$4,230,000
Polk County 6	Purchase temporary flood protection (Hesco Barriers) for River Place County office building	River Flooding	Completed	Utilized Iowa Homeland Security & Emergency Management Community Disaster Grant.	10/1/2009	Iowa Homeland Security & Emergency Management Community Disaster Grant.	\$37,798
Polk County 7	Construct Extension of MLK Boulevard from Euclid Avenue to I-80 to facilitate new river crossing for extreme flood events	River Flooding	Delete	Duplicate of Polk County No. 9 Project			
Alleman 2	Install box culvert Northeast 134 Ave	Flash Flooding	Completed	Done in 2009	Summer 2009	Polk County paid and Alleman is reimbursing	\$167,000
Alleman 4	Drainage improvement to school grounds	Flash Flooding	Completed		July 16 2013	General funds	\$1,850

Action ID	Mitigation Project/Activity Description	Primary Hazard Addressed	2013 Action Status	2013 Action Status Comment	Completion Date	Completed Action Funding Sources	Completed Action Funding Amount
Alleman 5	Conduct Needs analysis and feasibility study for safe rooms at Central Elementary and North Polk Junior/Senior High School	Tornado	Delete	Moved to North Polk Schools Action			
Altoona 1	New roof for fire station with flat roof	Winter Storm	Delete				
Altoona 2	New sewer system and/or detention pond for annexed developing lands	Flash Flooding	Delete	Member of Wastewater Reclamation Authority. City no longer does sewer treatment			
Altoona 3	Installation of FEMA compliant safe rooms in four elementary schools	Tornado	Delete	Move to action under SEP Schools			
Altoona 4	Inventory of hazardous materials at CO-OP sites	Tornado	Completed				
Ankeny 1	Construct safe room(s) at New Ankeny High	Tornado	Delete	Included as Ankeny School District Action # 1			
Ankeny 2	Construct safe room(s) at New Elementary in Prairie Trail	Tornado	Delete	Included as Ankeny School District Action # 1			
Ankeny 3	Construct safe room(s) at existing Ankeny High in Prairie Trail	Tornado	Delete	Included as Ankeny School District Action # 1			
Ankeny 8	Sanitary sewer capacity improvements Northeast 5th Street relief sewer	Flash Flooding	Completed	Ankeny capital improvement program project	Spring, 2013	City Utility Enterprise Fund	\$150,000
Ankeny 10	Sanitary sewer capacity improvements West Outfall diversion	Flash Flooding	Delete	This project scope is now included with Ankeny-9 project above.			
Ankeny 12	Storm sewer/channel improvements North Creek Stream channel improvements	Flash Flooding	Completed	Construction of this project is nearly completed at this time.	Spring, 2014	City Stormwater Enterprise Fund	\$920,000
Ankeny 14	Storm Sewer/Channel Improvements Saylor Creek Lift Station Flood Wall	Flash Flooding	Completed	This project was completed with City funding on an emergency basis.	Spring, 2013	City Wastewater Enterprise Funding	\$50,000

Action ID	Mitigation Project/Activity Description	Primary Hazard Addressed	2013 Action Status	2013 Action Status Comment	Completion Date	Completed Action Funding Sources	Completed Action Funding Amount
Ankeny 15	Storm sewer/channel improvements Westwinds Ravine bank stabilization	Sinkholes/ Landslide	Completed	This project was completed by the City on an emergency basis.	Summer, 2013	City Stormwater Enterprise Fund, plus minor amount of FEMA funding	\$3.5 Million
Bondurant 1	Construct safe room at Anderson Elementary	Windstorms	Delete	This project was never initiated and should not have been on the plan.; Comment added by Bondurant-Farrar School District			
Bondurant 2	Construct safe room Bondurant Farrar Junior/Senior High School	Windstorms	Completed	Work completed in summer of 2012. Comment added by Bondurant-Farrar School District	Work completed in summer of 2012		
Bondurant 3	Construct safe room at new Bondurant Farrar High School	Windstorms	Completed	Work completed in summer of 2012. Comment added by Bondurant-Farrar School District	Work completed in summer of 2012		
Bondurant 4	Generators for sewer lift stations (Grant, Mallard, COVE, 32 nd Street, 2 nd Street, Lagoon-Main Lift Station)	Flash Flooding	Completed	2nd SL and Mallard PL installed-all other lift stations have been removed.	2011	FEMA & City Sewer Utility	\$15,000
Bondurant 5	Construct safe room at Kinney Park	Windstorms	Completed		2012	FEMA, State 7 city debt service levy	\$485,000
Clive 3	Reconstruction of railroad trestle to mitigate back water conditions into City of Clive	River Flooding	Delete	Property controlled by railroad.			
Clive 4	Inundation flood modeling for upstream of Walnut Creek	River Flooding	Completed		2010 Walnut Creek 2011 North Walnut Creek	City Storm Water Funds	\$49,000
Clive 5	Construction of Hesco flood barriers to protect Pumping Station at 7820 University Boulevard	River Flooding	Completed	Built 1' above the 100 year event as outlined in the FEMA FIRM maps. Wall is a concrete structure built to the DNR required 300 year event.	2012	City Water Utility Funds	\$27,000

Action ID	Mitigation Project/Activity Description	Primary Hazard Addressed	2013 Action Status	2013 Action Status Comment	Completion Date	Completed Action Funding Sources	Completed Action Funding Amount
Des Moines 1	City wide improvements of storm water drainage	Flash Flooding	Delete	This action item is being deleted in favor of specific projects where costs and benefits can be better defined.			
Des Moines 2	Inventory, evaluation, and repair of flood gates located in river levees throughout the city	River Flooding	Delete	This action item is being deleted as its work elements are included in the more comprehensive Des Moines River Flood Mitigation Improvements action item.			
Des Moines 3	Repairs or replacement of storm sewer lines and intakes in the city's five cemeteries	Flash Flooding	Delete	Not all 7 cemeteries have storm sewers and Parks is unaware of any flash flooding issues concerned with current storm sewers in any cemetery.			
Des Moines 4	Addition of fire alarm system to each of the fire stations and remodeling of fire stations to accommodate a second means of egress from sleeping quarters	Tornado	Completed	Fire alarms and sprinkler systems were installed in Stations 2,5,7 & 9. All fire stations in the City have a fire alarm and sprinkler system. The secondary means of egress for Station 3 will not be added.	2011	City of Des Moines General Fund - CIP	\$340,898
Des Moines 5	Conduct watershed needs study	River Flooding	Delete	This action item is being deleted in favor of specific projects where costs and benefits can be better defined.			
Des Moines 6	Identification of ground stability hazard areas	Sinkholes/ Landslide	Completed	Two areas were identified along Army Post Road and on the Des Moines River at the Neola sanitary pump station	2009	City of Des Moines General Fund - CIP	N/A
Des Moines 7	Feasibly study to harden community shelters	Windstorms	Delete	HR has designated "Severe Weather Shelter" rooms in all city facilities.			

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Des Moines 8	Construct safe room(s) pending results of community shelter study	Windstorms	Delete	HR has designated "Severe Weather Shelter" rooms in all city facilities.			
Des Moines 11	Buyout of 9 residential properties and four adjacent vacant lot RL properties in the Four Mile Creek Area	River Flooding	Completed	Numerous buyout properties acquired in the Four Mile Creek area to include two entire mobile home parks and many houses.	2012 / 2013	CDBG and HMGP	N/A
Des Moines 12	Install Interior Drainage Pumping System for Existing Levee Protected Area at Water Street/Court Ave. Pumping Station	River Flooding	Completed		Aug-13	Stormwater Utility Fees, IJOBS, CDBG	\$10.2 million
Des Moines 13	Replacement Phase 17 to Eliminate Sewer Overflows in Large Rains at Waste Water Main	Flash Flooding	Completed		14-Aug	WRA Member Communities	\$63 Million for Main Outfall and \$52 Million for CSSSF totaling \$115 Million
Des Moines 14	Construction of Basin South of Downtown to Prevent Interior Flood Damage	River Flooding	Completed		12-Jun	Stormwater Utility Fees, HUD Disaster Funds	\$5.8 million
Des Moines 15	Replacement of SW Area Diversion Facility Pump Station Phase 22 to Mitigate Overflow of Sewer in High Water Conditions	Flash Flooding	Completed		14-May	WRA Member Communities	\$98 million
Des Moines 16	Construction of Additional Storm Sewer for Lower Union Sewer Separation Station	Flash Flooding	Completed		13-Jul	Sanitary sewer fees, CDBG	\$5.4 million
Des Moines 17	Construction of Additional Storm Sewer for 33 rd St. Sewer Separation Station	Flash Flooding	Completed		13-Mar	Sanitary sewer fees	\$1.6 million
Grimes 6	Conduct needs analysis on sheltering for Dallas Center/ Grimes High School, South Prairie, North Ridge Elementary	Windstorms	Delete	This should probably be in the schools plan		General budget	

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Johnston 6	Elevate northeast 62 Avenue between South Drive and Crescent Chase	River Flooding	Completed	Completed in 2013	Completed in 2013	GO Bonds & RISE Funds	
Johnston 8	Continue conversation with USACE to bridge Northeast 78 th near Saylorville Emergency Spillway	River Flooding	Completed				
Pleasant Hill 9	Chain link fence around city lift stations and public works to mitigate floating debris	Flash Flooding	Completed		2012	City	\$500,000 (as part of bigger project including generators & other repairs to benefit the sanitary system)
Pleasant Hill 11	Construction of new culvert at 1300 Sloans Way	Flash Flooding	Completed		2013	City	Total Project \$550,000
Pleasant Hill 13	Back-up power generator for City Hall	Windstorms	Completed		2013	City	\$75,000
Pleasant Hill 14	Back-up power generator for Youth Center (emergency shelter for trailer court)	Windstorms	Completed		2012	City	\$200,000
Polk City 4	Advocate for identifying the diversion channel, Big Creek Dam, and Barrier Dam as critical infrastructure	Dam Failure	Completed	not within city's jurisdiction; these dams are already identified as critical infrastructure			
Polk City 8	Advocate for critical infrastructure recognition for two upstream Saylorville Reservoir dams	Dam Failure	Completed				
Runnells 1	Wiring for generator community center at 108 Brown Street	Tornado	Completed	finished 2012			
Runnells 4	New roof on fire station	Windstorms	Delete	Response Related, not mitigation			

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Urbandale 1	Replacement of an engine pumper/ladder trucks and two other units	Structural Fire	Completed	Purchased a ladder truck and two Command vehicles. We did eliminate one fire apparatus (pumper) from our fleet that had been scheduled for replacement.	The year 2012		\$808,059
Urbandale 2	Installation of a 36" storm sewer from Roseland Drive to Rocklyn Drive	Flash Flooding	Completed				
Urbandale 3	Walker Johnson Park Creek bank stabilization	Sinkholes/Landslide	Completed		The year 2010	NA	NA
Urbandale 4	Generator at police station	Tornado	Completed	Completed	2012	GOB	\$96,172
Urbandale 5	Elevated bridge at Meredith Drive and Walnut Creek	Flash Flooding	Completed	Completed	2013	GOB	\$1,200,000
Urbandale 6	156th Street: Little Walnut Creek Bridge	Flash Flooding	Completed		2008	GOB	\$1,400,000
Urbandale 7	New Bridge Aurora Avenue at Walnut Creek	Flash Flooding	Completed		2013	GOB	1 million
Urbandale 8	Install residential check valves for sanitary sewer at 4100 block of 67 th Street, 71 st , and Meredith	Flash Flooding	Completed	parallel sewer installed	2008	USSD	\$300,000
Urbandale 9	Install new sewer on 66 th Street from Madison Avenue to Airline Avenue	Flash Flooding	Completed	parallel sewer installed	2011	UWHSD	\$400,000
Urbandale 11	Upgrade two warning sirens to monitor siren status at 86 th and Hickman Rd and Douglas Ave. and Patricia Drive	Tornado	Completed	Completed	2012	Operating budget	\$20,000
West Des Moines 1	Backup power generators replacements: public works facility; Fire Station 22; Fire Station 21; law enforcement center	Windstorms	Completed			City Budget	
West Des Moines 2	New backup power generators for shelters at: Valley High School; Valley Middle School; Dowling High School	Windstorms	Delete	This is a school district project and should be in their plan			

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West Des Moines 6	Walnut Creek Bank stabilization project north of Hoak Road	River Flooding	Completed		11/26/2012	Municipal Stormwater Utility	\$55,655
Windsor 3	Replace/upgrade City Hall generator	Windstorms	Completed				
Windsor 4	Generator at Department of Public Works	Windstorms	Completed				

Source: Mitigation Action Spreadsheets Completed by Each Jurisdiction; N/A= Not Available or Not Applicable