

Mitigation Projects
(Initiated and/or Accomplished from 2010 to Present)

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
711 communities have FEMA approved Local Mitigation Plans	Complete Local Hazard Mitigation Plans	All	HMGP, PDM, FMA, Local		Iowa Homeland Security & Emergency Management	Completed
552 communities are in the process of completing Local Mitigation Plans	Develop and/or update Local Hazard Mitigation Plans (in progress)	All	HMGP, PDM, Local		Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period
Build 14 multi-purpose Tornado Safe Rooms in School Facilities funded under DR-1763	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$18,238,730	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 14 Multi-purpose Tornado Safe Rooms in Community Facilities funded under DR-1763	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$12,661,863	Iowa Homeland Security & Emergency Management	Open grants under performance period
Acquire and demolish 933 substantially damaged or destroyed properties in 46 communities.	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$67,079,348	Iowa Homeland Security & Emergency Management	Open grants under performance period
25 Electrical Retrofit projects. These will retrofit and harden a total of more than 2,727 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-1763	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure,	Hazard Mitigation Grant Program (HMGP)	\$212,470,949	Iowa Homeland Security & Emergency Management	Open grants under performance period
Burial of .34 miles of electric lines to city's waste water treatment plant under DR-1763	Electrical Retrofit – lower or bury electric lines in non-flood, high-wind areas	Severe Winter Storm, Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$41,053	Iowa Homeland Security & Emergency Management	Completed
Re-routing of .8 miles of electrical distribution lines away from river under DR-1763	Electrical Retrofit – remove from high flood risk area	River Flooding	Hazard Mitigation Grant Program (HMGP)	\$353,510	Iowa Homeland Security & Emergency Management	Completed

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
Installation of a floodwall around critical wastewater treatment plant and addition of backflow prevention mitigation.	Construct Floor Wall	River flooding, Flash Flooding	Hazard Mitigation Grant Program	\$20,918,152	Iowa Homeland Security & Emergency Management	Open grants under performance period
Elevate and flood proof 3 well houses and associated controls.	Elevation- flood protection for critical facilities	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$608,576	Iowa Homeland Security & Emergency Management	Completed
Replacement and construction of a lift station and sanitary sewer forcemain, addition of a wastewater treatment lagoon cell.	Flood Control	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$1,367,063	Iowa Homeland Security & Emergency Management	Open grants under performance period
Installation of 3 detention basins, retrofit 2 existing detention basins and increase capacity of storm water system.	Flood Control	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$2,020,021	Iowa Homeland Security & Emergency Management	Open grants under performance period
Construction of floodwall around water treatment plant and retrofit storm sewer system.	Construct flood wall	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$16,222,100	Iowa Homeland Security & Emergency Management	Open grants under performance period
Installation of 5 storm water detention basins.	Drainage	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$9,896,000	Iowa Homeland Security & Emergency Management	Open grants under performance period
Construction of a new wastewater treatment forcemain, lift stations and expansion of the treatment lagoon.	Drainage – flood protection for critical facilities	River flooding-Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$17,867,473	Iowa Homeland Security & Emergency Management	Open grants under performance period
Installation of 5 backflow valves and addition of 3 storm water lift stations	Drainage – flood protection for critical facilities	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$1,851,868	Iowa Homeland Security & Emergency Management	Open grants under performance period
Construction of an invisible floodwall and flood control system (PA)	Construct flood wall	River Flooding, Flash Flooding	Public Assistance Program	\$4,448,820	Iowa Homeland Security & Emergency Management	Open grants under performance period
Increase capacity of storm sewer drainage system and eliminate stormwater infiltration in the sanitary sewer system	Construct storm sewer drainage	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$3,339,846	Iowa Homeland Security & Emergency Management	Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
Construction of floodwall around water treatment plant under DR-1763	Construct flood wall	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$748,524	Iowa Homeland Security & Emergency Management	Completed
Upgrade to effluent structure and addition of automatic pumping station	Flood control – flood protection for critical facilities	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$801,200	Iowa Homeland Security & Emergency Management	Completed
Buyout of 14 repetitive loss flood damaged residential properties and provide relocation benefits to occupants in 7 communities	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Community Development Block Grant State Disaster Fund (CDBG)	\$1,924,574	Iowa Department of Economic Development	Ongoing Open grants under performance period
5% Emergency Power Backup Generators for 4 communities under DR-1737	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$299,500	Iowa Homeland Security and Emergency Management	Completed
Build a Tornado Safe Room in Outdoor Bathing House Facility funded under DR-1737	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$663,000	Iowa Homeland Security & Emergency Management	Completed
2 Electrical Retrofit projects funded under DR-1737. These projects will retrofit a total of 152.4 miles	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Severe Winter Storm, Tornado/Windstorm, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$5,365,550	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Elevation of electrical motor controls for 2 water supply wells funded under DR-1737	Construct/elevate lift station controls	River Flooding, Flash flooding	Hazard Mitigation Grant Program (HMGP)	\$23,975	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Installation of an emergency wastewater pump to add additional pumping capacity funded under DR-1737	Wastewater Pump – flood protection for critical facilities	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$7,665	Iowa Homeland Security and Emergency Management	Complete
Upgrade Emergency Storm Warning Sirens under DR-1727	Install siren warning system	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$16,000	Iowa Homeland Security and Emergency Management	Complete
5% Initiative - 10 Emergency Power Backup Generators for 4 communities under DR-1727	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$299,500	Iowa Homeland Security and Emergency Management	Complete
Strengthen 20.5 miles of electric lines increase conductor size, span widths, install underground cable funded under DR-1727	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Severe Winter Storm, Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$1,336,700	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
5% Initiative – Emergency Backup Power Generators for 4 communities under DR-1705	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$235,365	Iowa Homeland Security and Emergency Management	Complete
Build a Tornado Safe Room in Outdoor Park and Recreation area funded under DR-1705	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$200,700	Iowa Homeland Security and Emergency Management	Complete
Prevent sewer backups by improving storm sewer drainage under DR-1705	Drainage – construct storm sewer drainage	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$1,914,250	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Electrical Retrofit projects for 2 electric cooperatives covering 12.4 miles of electrical lines under DR-1705	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Severe Winter Storm, Tornado/Windstorm, Thunder/Lightening/Hail	Hazard Mitigation Grant Program (HMGP)	\$747,500	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Electrical Retrofit project for a municipal utilities converting 1.4 miles of overhead electric distribution lines to underground power lines under DR-1705	Electrical Retrofit – lower or bury electric lines in non-flood, high-wind areas	Severe Winter Storm, Tornado/Windstorm, Thunder/Lightening/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$233,603	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
5% Initiative – Emergency Backup Power Generators for 4 communities under DR-1688	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$1,295,499	Iowa Homeland Security and Emergency Management	Completed
Electrical Retrofit project for Farmers Electric Cooperative converting 2 miles of distribution lines to underground cable	Electrical Retrofit – lower or bury electric lines in non-flood, high-wind areas	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$87,070	Iowa Homeland Security and Emergency Management	Completed
Protect community utilities facility during flood events; remove seepage and ground water intrusion under DR-1688	Stormwater Pump – flood protection for critical facilities	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$115,000	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Electric Retrofit projects for 4 electrical cooperatives strengthening 117.25 miles of distribution lines, increasing conductor size and pole span under DR-1688	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Infrastructure Failure, Severe Winter Storm	Hazard Mitigation Grant Program (HMGP)	\$12,928,628	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
Installation of floodwall around main lift station under DR-1880	Construct flood wall	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$358,337	Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period
Increase capacity of lift station & equalization basin under DR-1880	Construct flood wall	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$617,500	Iowa Homeland Security & Emergency Management	Pending FEMA Review
Stop blocks for floodwall protecting critical lift station under DR-1880	Flood Control	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$15,000	Iowa Homeland Security & Emergency Management	Completed
Retrofit storm sewers to prevent flooding caused by heavy rainfall events under DR-1928	Flood Control	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$1,637,610	Iowa Homeland Security & Emergency Management	Pending FEMA Review
Retrofit sanitary sewer system under DR-1928.	Flood Control	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$503,000	Iowa Homeland Security & Emergency Management	Pending FEMA Review
Installation of floodwall and earthen berm around critical water treatment plant under DR-1930	Construct flood wall	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$772,168	Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period
Bank stabilization of creek under DR-1998	Flood Control	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$714,000	Iowa Homeland Security & Emergency Management	Stacked Project
Retrofit sanitary sewer system, install new pump station and forcemain.	Flood Control	River flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$2,424,150	Iowa Homeland Security & Emergency Management	Pending FEMA Review
5% Initiative - 41 Emergency Storm Warning Sirens for 9 Communities under DR-1930	Install siren warning system	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$457,038	Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period
5% Initiative – 6 Emergency Backup Power Generators for 5 communities under DR-1930	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$628,811	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
5% Initiative – 1 Emergency Backup Power Generators for 1 community under DR-1977	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$23,902	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
5% Initiative - 20 Emergency Storm Warning Sirens for 8 Communities under DR-1998	Install siren warning system	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$406,071	Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
5% Initiative – 9 Emergency Backup Power Generators for 7 communities under DR-1998	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$827,425	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
5% Initiative – 2 Emergency Backup Power Generators for 2 communities under DR-4016	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$89,678	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
5% Initiative - 1 Emergency Storm Warning Sirens for 1 Community under DR-4016	Install siren warning system	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$13,189	Iowa Homeland Security & Emergency Management	Ongoing Open grants under performance period
5% Initiative – 1 Emergency Backup Power Generators for 1 community under DR-4018	Purchase/install back-up generators	Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$46,236	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Build 12 multi-purpose Tornado Safe Rooms in School Facilities under DR-1880	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$12,826,882	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 14 Multi-purpose Tornado Safe Rooms in Community Facilities under DR-1880	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$2,186,643	Iowa Homeland Security & Emergency Management	Open grants under performance period
Acquire and demolish 129 substantially damaged or destroyed properties in 6 communities under DR-1880	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$11,705,378	Iowa Homeland Security & Emergency Management	Open grants under performance period
Acquire and demolish 34 substantially damaged or destroyed properties in 4 communities under DR-1930	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$6,010,586	Iowa Homeland Security & Emergency Management	Open grants under performance period
Acquire and demolish 65 substantially damaged or destroyed properties communities under DR-1998	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Hazard Mitigation Grant Program (HMGP)	\$8,955,687	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 2 multi-purpose Tornado Safe Rooms in School Facilities under DR-1854	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$1,171,260	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 2 Multi-purpose Tornado Safe Rooms in Community Facilities under DR-1854	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$392,180	Iowa Homeland Security & Emergency Management	Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
Build 1 multi-purpose Tornado Safe Room in School Facilities under DR-1877	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$1,505,096	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 1 Multi-purpose Tornado Safe Room in Community Facilities under DR-1877	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$324,408	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 4 multi-purpose Tornado Safe Rooms in School Facilities under DR-1930	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$3,166,107	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 1 Multi-purpose Tornado Safe Room in Community Facilities under DR-1930	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$861,076	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 2 Multi-purpose Tornado Safe Rooms in Community Facilities under DR-1928	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$966,535	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 1 Multi-purpose Tornado Safe Room in Community Facilities under DR-1977	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$444,663	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 2 multi-purpose Tornado Safe Rooms in School Facilities under DR-1998	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$1,679,844	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 2 multi-purpose Tornado Safe Rooms in School Facilities under DR-4016	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$1,933,421	Iowa Homeland Security & Emergency Management	Open grants under performance period
Build 1 Multi-purpose Tornado Safe Room in School Facilities under DR- 4018	Construct Safe Rooms	Tornado/Windstorm	Hazard Mitigation Grant Program (HMGP)	\$819,752	Iowa Homeland Security & Emergency Management	Pending FEMA Review
4 Electrical Retrofit projects. These will retrofit and harden a total of more than 150 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-1880	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$5,587,120	Iowa Homeland Security & Emergency Management	Pending FEMA Review

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
3 Electrical Retrofit projects. These will retrofit and harden a total of more than 309 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-1930	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$11,276,194	Iowa Homeland Security & Emergency Management	Pending FEMA Review
1 Electrical Retrofit projects. These will retrofit and harden a total of more than 7 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-1977	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$341,900	Iowa Homeland Security & Emergency Management	Open grants under performance period
1 Electrical Retrofit projects. These will retrofit and harden a total of more than 64 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-1998	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$3,017,600	Iowa Homeland Security & Emergency Management	Pending FEMA Review
1 Electrical Retrofit projects. These will retrofit and harden a total of more than 4 miles of electrical conductors, distribution lines, transmission lines, and poles under DR-4016	Electrical Retrofit - Replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Hazard Mitigation Grant Program (HMGP)	\$201,950	Iowa Homeland Security & Emergency Management	Stacked Project
Electric Retrofit projects for 42 electrical cooperatives strengthening distribution lines through 225 total projects under DR-1688	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$65,749,318	Iowa Homeland Security and Emergency Management	Completed
Electrical Retrofit projects for 4 electrical cooperatives strengthening distribution lines through 15 total projects under DR-1705	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$129,686.37	Iowa Homeland Security and Emergency Management	Completed

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
Electrical Retrofit projects for 4 electrical cooperatives strengthening distribution lines through 9 total projects under DR-1727	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$113,720	Iowa Homeland Security and Emergency Management	Completed
Electrical Retrofit projects for 16 electrical cooperatives strengthening distribution lines through 54 total projects under DR-1737	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$20,669,165	Iowa Homeland Security and Emergency Management	Completed
Electrical Retrofit projects for 29 electrical cooperatives strengthening distribution lines through 262 total projects under DR-1763	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$31,354,259	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Electrical Retrofit projects for 1 electrical cooperative strengthening distribution lines through 14 total projects	Electrical Retrofit - replace damaged power lines with lines more resistant to ice and snow buildup and other hazards	Tornado/Windstorm, Severe Winter Storm, Thunder/Lightning/Hail, Infrastructure Failure	Public Assistance Grant Program	\$6,962,404	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
Acquire and demolish 831 substantially damaged or destroyed properties in the 100 year floodplain	Acquire property through purchase for demolition	River Flooding, Flash Flooding	Community Development Block Grant (CDBG)	\$112,252,484	Iowa Department of Economic Development	Ongoing Open grants under performance period
An estimated 960 projects to provide erosion protection and soil stabilization are in progress under DR-1763	Develop soil erosion stabilization projects	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 300 projects to provide drainage improvements are in progress under DR-1763	All drainage mitigation measures	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 65 projects to provide flood proofing are in progress under DR-1763	Flood protection for critical facilities and other properties	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
An estimated 170 projects to provide elevation and relocation of critical components are in progress under DR-1763	Elevate or relocate critical components above base flood elevation	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 50 projects to encase or enclose critical utilities are in progress under DR-1763	Ensure no leaks exist in water supply and sewer lines. Flood protection for critical facilities.	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 65 projects to install backflow devices are in progress under DR-1763	Flood protection for critical facilities	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 15 projects to do building elevations are in progress under DR-1763	Elevate properties above base flood elevation	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 22 projects for miscellaneous mitigation measures are in progress under DR-1763	Various mitigation measures	River Flooding, Flash Flooding, Tornado/Windstorm	Public Assistance Grant Program - 406 Mitigation Categories (C-G)	Total 406 Mitigation funding under DR-1763: \$79,062,871	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated 110 projects for Erosion Protection and Soil Stabilization are in progress under DR-1727	Develop soil erosion stabilization projects	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Completed
An estimated 10 projects for Drainage Improvement are in progress under DR-1727	All drainage mitigation measures	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Completed
Two elevation/relocation of critical utilities projects are in progress under DR-1727	Elevate or relocate critical components above base flood elevation	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)	Total 406 Mitigation funding under DR-1727: \$6,,740,914	Iowa Homeland Security and Emergency Management	Completed
An estimated 180 projects for Erosion Protection and Soil Stabilization are in progress under DR-1705	Develop soil erosion stabilization projects	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Completed

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
An estimated 16 projects for drainage improvement are in progress under DR-1705	All drainage mitigation measures	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Completed
Two elevation/relocation of critical utilities projects are in progress under DR-1705	Elevate or relocate critical components above base flood elevation	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)	Total 406 Mitigation funding under DR-1705: \$9,166,507	Iowa Homeland Security and Emergency Management	Completed
An estimated 22 projects for elevation/relocation of critical utilities projects are in progress under DR-1688	Elevate or relocate critical components above base flood elevation	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)		Iowa Homeland Security and Emergency Management	Completed
An estimated 6 projects to encase and/or enclose utilities are in progress under DR-1688	Ensure no leaks exist in water supply and sewer lines. Flood protection for critical facilities.	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Categories (C-G)	Total 406 Mitigation funding under DR-1688: \$4,078,129	Iowa Homeland Security and Emergency Management	Completed
A total of 18 projects to relocate buildings that have been or will be subject to repetitive heavy damage outside of the floodplain under DR-1763	Acquire property through purchase for relocation	River Flooding, Flash Flooding	Public Assistance Grant Program – Codes and Standards/ Building Replacement	\$104,208,574	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
One elevation project to remove a critical facility out of the floodplain under DR-1763	Acquire property through purchase for elevation to or above base flood elevation – Flood protection for critical facilities	River Flooding, Flash Flooding	Public Assistance Grant Program – Codes and Standards/ Building Replacement	\$6,483,880	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 201 category C projects under DR-1930	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category C	\$874,398	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 34 category D projects under DR-1930	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category D	\$361,541	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
An estimated total of 27 category E projects under DR-1930	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$2,074,826	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 38 category F projects under DR-1930	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category F	\$378,232	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 64 category G projects under DR-1930	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category G	\$542,982	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 6 category E projects under DR-1877	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$10,315	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 15 category F projects under DR-1877	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category F	\$19,486	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 21 category C projects under DR-1877	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category C	\$29,802.29	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 1 category E projects under DR-1880	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$1,343	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 82 category F projects under DR-1880	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category F	\$608,202	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 16	Elevation and or relocation	River Flooding, Flash	Public Assistance Grant	\$534,336	Iowa Homeland Security and	Ongoing

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
category C projects under DR-1928	of critical facilities, erosion stabilization, drainage mitigation, flood protection	Flooding	Program - 406 Mitigation Category C		Emergency Management	Open grants under performance period
An estimated total of 17 category D projects under DR-1928	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category D	\$570,410	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 1 category G projects under DR-1928	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category G	\$1,601	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 18 category C projects under DR-1998	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category C	\$47,245	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 15 category D projects under DR-1998	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category D	\$85,639	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 5 category E projects under DR-1998	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$395,258	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 3 category F projects under DR-1998	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category F	\$59,522	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 7 category G projects under DR-1998	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category G	\$19,231	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 3 category C projects under DR-	Elevation and or relocation of critical facilities, erosion	River Flooding, Flash Flooding	Public Assistance Grant Program -	\$1,457	Iowa Homeland Security and Emergency Management	Ongoing Open grants under

Mitigation Project Synopsis	Mitigation Measure	Hazard(s) Addressed	Funding Source	Estimated Cost	Lead Agency	Status
4016	stabilization, drainage mitigation, flood protection		406 Mitigation Category C			performance period
An estimated total of 7 category E projects under DR-4016	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$211,964	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 26 category C projects under DR-4018	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category C	\$171,751	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 2 category D projects under DR-4018	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category D	\$2,343	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 1 category E projects under DR-4018	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$600	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 2 category F projects under DR-4018	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category F	\$2,125	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 2 category G projects under DR-4018	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category G	\$18,449	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period
An estimated total of 2 category E projects under DR-1977	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	Public Assistance Grant Program - 406 Mitigation Category E	\$2,819	Iowa Homeland Security and Emergency Management	Ongoing Open grants under performance period