

**Projects Initiated to Advance Mitigation Measures in the 2013 *Iowa Hazard Mitigation Plan***

<b>Mitigation Project Synopsis</b>	<b>Mitigation Measure</b>	<b>Hazard(s) Addressed</b>	<b>Federal Fund</b>	<b>Estimated Cost</b>	<b>Status</b>
934 communities have FEMA-approved local mitigation plans	Complete local hazard mitigation plans	All	HMGP, PDM, FMA, local		Completed
Installation of box culvert and stream bank stabilization	Flood control	River Flooding-Flash Flooding	HMGP	\$619,602	Completed
Build 14 multipurpose tornado safe rooms in school facilities (DR-1763)	Construct safe rooms	Tornado/Windstorm	HMGP	\$18,238,730	Completed
Build 14 tornado safe rooms in community facilities (DR-1763)	Construct safe rooms	Tornado/Windstorm	HMGP	\$12,661,863	Completed
Acquire and demolish 254 substantially damaged or destroyed properties in 46 communities	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$24,400,000	-open performance period
25 electrical retrofit projects. These will retrofit and harden a total of more than 2,720 miles of electrical conductors, distribution lines, transmission lines, and poles (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	HMGP	\$212,470,949	Completed
Installation of a floodwall around critical wastewater treatment plant and addition of backflow prevention mitigation	Construct flood wall	River Flooding, Flash Flooding	HMGP	\$20,918,152	Completed
Replacement and construction of a lift station and sanitary sewer force main, addition of a wastewater treatment lagoon cell	Flood control	River Flooding-Flash Flooding	HMGP	\$1,367,063	Completed
Installation of three detention basins, retrofit two existing detention basins and increase capacity of storm water system	Flood control	River Flooding-Flash Flooding	HMGP	\$2,020,021	Completed
Construction of floodwall around water treatment plant and retrofit storm sewer system	Construct flood wall	River Flooding-Flash Flooding	HMGP	\$16,222,100	Completed
Installation of five storm water detention basins	Drainage	River Flooding-Flash Flooding	HMGP	\$9,896,000	Completed
Construction of a new wastewater treatment force main, lift stations, and expansion of the treatment lagoon	Drainage-flood protection for critical facilities	River Flooding-Flash Flooding	HMGP	\$17,867,473	Completed
Installation of five backflow valves and addition of three storm water lift stations	Drainage-flood protection for critical facilities	River Flooding, Flash Flooding	HMGP	\$1,851,868	Completed
Construction of an invisible floodwall and flood control system (PA)	Construct flood wall	River Flooding, Flash Flooding	Public Assistance Program (PA)	\$4,448,820	Completed

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Increase capacity of storm sewer drainage system and eliminate storm water infiltration in the sanitary sewer system	Construct storm sewer drainage	River Flooding, Flash Flooding	HMGP	\$3,339,846	Completed
Buyout of 22 repetitive loss flood-damaged residential properties and provide relocation benefits to occupants in seven communities	Acquire property through purchase for demolition	River Flooding, Flash Flooding	CDBG	\$2,800,000	Completed
Two electrical retrofit projects (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	HMGP	\$5,365,550	Completed
Elevation of electrical motor controls for two water supply wells (DR-1737)	Construct/elevate lift station controls	River Flooding, Flash flooding	HMGP	\$23,975	Completed
Strengthen 20.5 miles of electric lines, increase conductor size, span widths, install underground cable (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	HMGP	\$1,336,700	Completed
Prevent sewer backups by improving storm sewer drainage (DR-1705)	Drainage—construct storm sewer drainage	River Flooding, Flash Flooding	HMGP	\$1,914,250	Completed
Electrical retrofit projects for two electric cooperatives covering 12.4 miles of electrical lines (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	HMGP	\$747,500	Completed
Electrical retrofit project for a municipal utility converting 1.4 miles of overhead electric distribution lines to underground power lines (DR-1705)	Electrical retrofit—lower or bury electric lines in nonflood, high-wind areas	Severe Winter Storm, Tornado/Windstorm, Lightning/Hail, Infrastructure Failure	HMGP	\$233,603	Completed
Protect community utilities facility during flood events, remove seepage and ground water intrusion (DR-1688)	Storm water pump—flood protection for critical facilities	River Flooding, Flash Flooding	HMGP	\$115,000	Completed
Electric retrofit projects for four electrical cooperatives strengthening 117.25 miles of distribution lines, increasing conductor size and pole span (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	HMGP	\$12,928,628	Completed

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Electric retrofit projects for two electrical cooperatives strengthening 32.66 miles of distribution lines, increasing conductor size and pole span (DR-4114)	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	HMGP	\$1,717,726	Ongoing -open performance period
Electric retrofit project for one electrical cooperative strengthening 10 miles of distribution lines, increasing conductor size and pole span (DR-4119)	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	HMGP	\$371,128	Completed
Electric retrofit projects for two electrical cooperatives strengthening 16.3 miles of distribution lines, increasing conductor size and pole span (DR-4126)	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	HMGP	\$630,933	Completed
Electric project for one electrical cooperative re-routing 2.09 miles of distribution lines (DR-4135)	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	HMGP	\$135,000	Completed
Electric retrofit project for one electrical cooperative strengthening 21.1 miles of distribution lines, increasing conductor size and pole span (DR-4281)	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	HMGP	\$1,299,500	Ongoing -open performance period
Installation of floodwall around main lift station (DR-1880)	Construct flood wall	River Flooding, Flash Flooding	HMGP	\$358,337	Completed
Increase capacity of lift station and equalization basin (DR-1880)	Construct flood wall	River Flooding, Flash Flooding	HMGP	\$617,500	Completed
Retrofit storm sewers to prevent flooding caused by heavy rainfall events (DR-1928)	Flood control	River Flooding, Flash Flooding	HMGP	\$1,637,610	Completed
Retrofit sanitary sewer system (DR-1928).	Flood control	River Flooding, Flash Flooding	HMGP	\$503,000	Completed
Installation of floodwall and earthen berm around critical water treatment plant (DR-1930)	Construct flood wall	River Flooding, Flash Flooding	HMGP	\$772,168	Completed
Bank stabilization of creek (DR-1998))	Flood control	River Flooding, Flash Flooding	HMGP	\$714,000	Completed

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Retrofit sanitary sewer system, install new pump station and force main.	Flood control	River Flooding, Flash Flooding	HMGP	\$2,641,492	Completed
5% Initiative: 41 emergency storm warning sirens for nine communities (DR-1930)	Install siren warning system	Tornado/Windstorm	HMGP	\$457,038	Completed
5% Initiative: six emergency backup power generators for five communities (DR-1930)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$628,811	Completed
5% Initiative: emergency backup power generators for one community (DR-1977)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$23,902	Completed
5% Initiative: emergency backup power generators for one community (DR-4126)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$431,820	Completed
5% Initiative: 20 emergency storm warning sirens for eight communities (DR-1998)	Install siren warning system	Tornado/Windstorm	HMGP	\$406,071	Completed
5% Initiative: emergency warning sirens for one community (DR-4119)	Install siren warning system	Tornado/Windstorm	HMGP	\$19,927	Completed
5% Initiative: nine emergency backup power generators for seven communities (DR-1998)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$827,425	Completed
5% Initiative: two emergency backup power generators for two communities (DR-4016)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$89,678	Completed
5% Initiative: emergency warning sirens for one community (DR-4016)	Install siren warning system	Tornado/Windstorm	HMGP	\$13,189	Completed
5% Initiative: two emergency storm warning sirens for two communities (DR-4184)	Install siren warning system	Tornado/Windstorm	HMGP	\$61,538	Completed
5% Initiative: emergency warning sirens for one community (DR-4181)	Install siren warning system	Tornado/Windstorm	HMGP	\$49,328	Completed
5% Initiative: two emergency storm warning sirens for two communities (DR-4234)	Install siren warning system	Tornado/Windstorm	HMGP	\$49,328	Ongoing -open performance period
5% Initiative: emergency warning sirens (DR-4281)	Install siren warning system	Tornado/Windstorm	HMGP	\$38,614	Ongoing -open performance period
5% Initiative: emergency backup power generators for one community (DR-4018)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$46,236	Completed
5% Initiative: emergency backup power generators for one community (DR-4119)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$46,236	Completed

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5% Initiative: one emergency backup power generator for one community (DR-4184)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$96,360	Ongoing -open performance period
5% Initiative: three emergency backup power generators for two communities (DR-4234)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$317,766	Ongoing -open performance period
5% Initiative: one emergency backup power generator for one community (DR-4281)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$31,153	Ongoing/Open performance period
5% Initiative: two emergency backup power generators for two communities (DR-4289)	Purchase/install backup generators	Infrastructure Failure	HMGP	\$28,392	Ongoing -open performance period
Build 12 multipurpose tornado safe rooms in school facilities (DR-1880)	Construct safe rooms	Tornado/Windstorm	HMGP	\$12,826,882	Completed
Build 14 multipurpose tornado safe rooms in community facilities (DR-1880)	Construct safe rooms	Tornado/Windstorm	HMGP	\$2,186,643	Completed
Build two multipurpose tornado safe rooms in school facilities (DR-4114)	Construct safe rooms	Tornado/Windstorm	HMGP	\$1,864,420	Ongoing -open performance period
Build one multipurpose tornado safe room in school facilities (DR-4119)	Construct safe rooms	Tornado/Windstorm	HMGP	\$729,911	Completed
Acquire and demolish 129 substantially damaged or destroyed properties in six communities (DR-1880)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$11,705,378	Completed
Acquire and demolish 34 substantially damaged or destroyed properties in four communities (DR-1930)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$6,010,586	Completed
Acquire and demolish 65 substantially damaged or destroyed properties (DR-1998)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$8,955,687	Completed
Acquire and demolish one substantially damaged or destroyed property (DR-4114)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$105,893	Ongoing-open performance period
Acquire and demolish one substantially damaged or destroyed property (DR-4119)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$37,028	Completed
Acquire and demolish 42 substantially damaged or destroyed properties (DR-4126)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$2,720,684	Completed

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Acquire and demolish 11 substantially damaged or destroyed properties (DR-4181)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$1,022,682	Completed
Acquire and demolish 37 substantially damaged or destroyed properties (DR-4184)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$3,603,648	Completed
Acquire and demolish 25 substantially damaged or destroyed properties (DR-4187)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$3,672,862	Ongoing -open performance period
Acquire and demolish 10 substantially damaged or destroyed properties (DR-4234)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$1,572,075	Ongoing -open performance period
Acquire and demolish four substantially damaged or destroyed properties (DR-4281)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$376,150	Ongoing/open performance period
Acquire and demolish 53 substantially damaged or destroyed properties (DR-4289)	Acquire property through purchase for demolition	River Flooding, Flash Flooding	HMGP	\$5,277,894	Ongoing/open performance period
Build two multipurpose tornado safe rooms in school facilities (DR-1854)	Construct safe rooms	Tornado/Windstorm	HMGP	\$1,171,260	Completed
Build two multipurpose tornado safe rooms in community facilities (DR-1854)	Construct safe rooms	Tornado/Windstorm	HMGP	\$392,180	Completed
Build one multipurpose tornado safe room in school facility (DR-1877)	Construct safe rooms	Tornado/Windstorm	HMGP	\$1,505,096	Completed
Build one multipurpose tornado safe room in community facility (DR-1877)	Construct safe rooms	Tornado/Windstorm	HMGP	\$324,408	Completed
Build four multipurpose tornado safe rooms in school facilities (DR-1930)	Construct safe rooms	Tornado/Windstorm	HMGP	\$3,166,107	Completed
Build one multipurpose tornado safe room in community facility (DR-1930)	Construct safe rooms	Tornado/Windstorm	HMGP	\$861,076	Completed
Build two multipurpose tornado safe rooms in community facilities (DR-1928)	Construct safe rooms	Tornado/Windstorm	HMGP	\$966,535	Completed
Build one multipurpose tornado safe room in community facility (DR-1977)	Construct safe rooms	Tornado/Windstorm	HMGP	\$444,663	Completed
Build two multipurpose tornado safe rooms in school facilities (DR-1998)	Construct safe rooms	Tornado/Windstorm	HMGP	\$1,679,844	Completed
Build two multipurpose tornado safe rooms in school facilities (DR-4016)	Construct safe rooms	Tornado/Windstorm	HMGP	\$1,933,421	Completed
Build one multipurpose tornado safe room in school facility (DR-4018)	Construct safe rooms	Tornado/Windstorm	HMGP	\$819,752	Completed

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Four electrical retrofit projects. These will retrofit and harden a total of more than 150 miles of electrical conductors, distribution lines, transmission lines, and poles (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	HMGP	\$5,587,120	Completed
Three electrical retrofit projects. These will retrofit and harden a total of more than 309 miles of electrical conductors, distribution lines, transmission lines, and poles (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	HMGP	\$11,276,194	Completed
One electrical retrofit project. This will retrofit and harden a total of more than seven miles of electrical conductors, distribution lines, transmission lines, and poles (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	HMGP	\$341,900	Completed
One electrical retrofit project. This will retrofit and harden a total of more than 64 miles of electrical conductors, distribution lines, transmission lines, and poles (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	HMGP	\$3,017,600	Completed
Electrical retrofit projects for 29 electrical cooperatives strengthening distribution lines through 262 total projects (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	PA	\$31,354,259	Completed
Electrical retrofit projects for one 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	PA	\$6,962,404	Completed
Acquire and demolish 831 substantially damaged or destroyed properties in the 100-year floodplain	Acquire property through purchase for demolition	River Flooding, Flash Flooding	CDBG	\$112,252,484	Completed
An estimated 960 projects to provide erosion protection and soil stabilization are in progress (DR-1763)	Develop soil erosion stabilization projects	River Flooding, Flash Flooding	PA -406 Mit. Cat.(C-G)		Completed
An estimated 300 projects to provide drainage improvements are in progress (DR-1763)	All drainage mitigation measures	River Flooding, Flash Flooding	PA -406 Mit. Cat.(C-G)		Completed

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An estimated 65 projects to provide flood proofing are in progress (DR-1763)	Flood protection for critical facilities and other properties	River Flooding, Flash Flooding	PA 406 Mit. Cat.(C-G)		Completed
An estimated 170 projects to provide elevation and relocation of critical components are in progress (DR-1763)	Elevate or relocate critical components above base flood elevation	River Flooding, Flash Flooding	PA 406 Mit. Cat.(C-G)		Completed
An estimated 50 projects to encase or enclose critical utilities are in progress (DR-1763)	Ensure no leaks exist in water supply and sewer lines. Flood protection for critical facilities.	River Flooding, Flash Flooding	PA 406 Mit. Cat.(C-G)		Completed
An estimated 65 projects to install backflow devices are in progress (DR-1763)	Flood protection for critical facilities	River Flooding, Flash Flooding	PA 406 Mit. Cat.(C-G)		Completed
An estimated 15 projects to do building elevations are in progress (DR-1763)	Elevate properties above base flood elevation	River Flooding, Flash Flooding	PA 406 Mit. Cat. (C-G)		Completed
An estimated 22 projects for miscellaneous mitigation measures are in progress (DR-1763)	Various mitigation measures	River Flooding, Flash Flooding, Tornado/Windstorm	PA 406 Cat.(C-G)	Total DR-1763 \$79,062,871	Completed
A total of 18 projects to relocate buildings that have been or will be subject to repetitive heavy damage outside of the floodplain (DR-1763)	Acquire property through purchase for relocation	River Flooding, Flash Flooding	PA – Codes & Standards / Bldg. Replacement	\$104,208,574	Completed
One elevation project to remove a critical facility out of the floodplain (DR-1763)	Acquire property through purchase for elevation to or above base flood elevation. Flood protection for critical facilities	River Flooding, Flash Flooding	PA – Codes & Standards/ Bldg. Replacement	\$6,483,880	Completed
An estimated total of 201 category C projects (DR-1930)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$874,398	Completed
An estimated total of 34 category D projects (DR-1930)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. D	\$361,541	Completed



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An estimated total of 27 category E projects (DR-1930)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$2,074,826	Completed
An estimated total of 38 category F projects (DR-1930)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. F	\$378,232	Completed
An estimated total of 64 category G projects (DR-1930)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. G	\$542,982	Completed
An estimated total of six category E projects (DR-1877)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$10,315	Completed
An estimated total of 15 category F projects (DR-1877)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. F	\$19,486	Completed
An estimated total of 21 category C projects (DR-1877)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$29,802	Completed
An estimated total of one category E projects (DR-1880)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$1,343	Completed
An estimated total of 82 category F projects (DR-1880)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. F	\$608,202	Completed

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An estimated total of 16 category C projects (DR-1928)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$534,336	Completed
An estimated total of 17 category D projects (DR-1928)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. D	\$570,410	Completed
An estimated total of one category G project (DR-1928)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. G	\$1,601	Completed
An estimated total of 18 category C projects (DR-1998)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$47,245	Completed
An estimated total of 15 category D projects (DR-1998)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. D	\$85,639	Completed
An estimated total of five category E projects (DR-1998)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$395,258	Completed
An estimated total of three category F projects (DR-1998)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. F	\$59,522	Completed
An estimated total of seven category G projects (DR-1998)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. G	\$19,231	Completed

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An estimated total of three category C projects (DR-4016)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$1,457	Completed
An estimated total of seven category E projects (DR-4016)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$211,964	Completed
An estimated total of 26 category C projects (DR-4018)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. C	\$171,751	Completed
An estimated total of two category D projects (DR-4018)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. D	\$2,343	Completed
An estimated total of one category E project (DR-4018)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$600	Completed
An estimated total of two category F projects (DR-4018)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. F	\$2,125	Completed
An estimated total of two category G projects (DR-4018)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. G	\$18,449	Completed
An estimated total of two category E projects (DR-1977)	Elevation and or relocation of critical facilities, erosion stabilization, drainage mitigation, flood protection	River Flooding, Flash Flooding	PA 406 Mit. Cat. E	\$2,819	Completed