

Actions Considered to Reduce Impacts of Flooding				Criteria for Prioritizing Implementation of Actions*				For actions that jurisdictions intend to implement (within next ~10 years):	
Jurisdiction	Objective, Strategy, Action	Mitigation Action*	Specific Methods/ Practices to Use	Completion Timeframe *	Likely Benefit Compared to Cost? *	Potential Funding Source(s)*	Potential Partner(s)	Action Priority*	Jurisdiction Position(s)/ Department(s) Responsible*
Winnesiek County	2.1.1	100% cover by one or more of the soil health or perennial cover practices on Critical and High Runoff Risk parcels in Winnesiek County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Martha Creek-Upper Iowa River, Silver Creek (West), Paint Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, Community of Nordness, Trout Creek, City of Decorah, Upper Iowa River, Trout Creek-Trout River, North Bear Creek, Falcon Springs State Wildlife Area-Upper Iowa River, Canoe Creek, Trout River, North Canoe Creek, Community of Freeport-Upper Iowa River, Cold Water Creek, Daisy Valley-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River	Rural: Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. Urban: Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Medium	Decorah Stormwater Utility Fee, Federal and State cost-share	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, RC&D, Schools, Luther College, Pheasants forever	Medium-High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.1.2	40% cover by one or more of the soil health or perennial cover practices on remaining high runoff risk and present runoff risk acres in Winnesiek County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Martha Creek-Upper Iowa River, Silver Creek (West), Paint Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, Community of Nordness, Trout Creek, City of Decorah, Upper Iowa River, Trout Creek-Trout River, North Bear Creek, Falcon Springs State Wildlife Area-Upper Iowa River, Canoe Creek, Trout River, North Canoe Creek, Community of Freeport-Upper Iowa River, Cold Water Creek, Daisy Valley-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River	Rural: Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. Urban: Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Medium	Decorah Stormwater Utility Fee, Federal and State cost-share	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, Luther College, RC&D, Pheasants Forever, NRCS	Medium-High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.2.1-7	improve water quality in all surface and source waters in Winnesiek County HUC 12 subwatersheds (Martha Creek-Upper Iowa River, Silver Creek (West), Paint Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, Community of Nordness, Trout Creek, City of Decorah, Upper Iowa River, Trout Creek-Trout River, North Bear Creek, Falcon Springs State Wildlife Area-Upper Iowa River, Canoe Creek, Trout River, North Canoe Creek, Community of Freeport-Upper Iowa River, Cold Water Creek, Daisy Valley-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River) See section 6.3 for measurable water quality goals.	Rural: Cover Crop, No-till, CRP, Multi-Cropping, Prairie Strips, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment, Nutrient Management Practices, Manure Management Practices, Bioreactors, Saturated buffers, Livestock Stream Exclusion, Septic Systems Management, Low cost feedlot water and manure management, nutrient reduction wetlands, sinkhole buffer-continuous CRP, Drainage water management. Urban: Munciple infrastructure upgrades, Exclusion of stormwater from wastewater, Lawn fertilizer reduction program, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden.	1-20 years	Low	Decorah Stormwater Utility Fee, Federal and State cost-share	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, Luther College, RC&D, Pheasants Forever, NRCS	Medium-High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.3.1	Watersheds above Decorah: 32% of the total drainage area regulated, or 11,000 acre-feet of distributed storage. HUC 12 subwatersheds in Winnesiek county and above Decorah include: Martha Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, City of Decorah, Falcon Springs State Wildlife Area-Upper Iowa River, Cold Water Creek, Daisy Valley-Upper Iowa River.	Detention Ponds, Water and Sediment control Basins, Create and restore Wetlands, Create and restore Oxbows. Install Rain Harvest systems.	1-20 years	High	Decorah Stormwater Utility Fee, Federal and State cost-share, FEMA Grants	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, NRCS	High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.3.2	25% of the Canoe and North Canoe HUC 12 Subwatersheds drainage area captures by detention structure.	Detention Ponds, Water and Sediment control Basins.	1-20 years	High	Decorah Stormwater Utility Fee, Federal and State cost-share, FEMA Grants	Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Watershed Residents, NRCS	High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.3.3	Bear Cerek Watershed: Follow the <i>Bear Creek Watershed Plan and Environmental Assessment</i>	Detention Ponds, Water and Sediment control Basins, Create and restore Wetlands, Create and restore Oxbows. Install Rain Harvest systems.	1-20 years	High	Decorah Stormwater Utility Fee, Federal and State cost-share, FEMA Grants	Allamakee County SWCD, Allamakee County, Allamakee County Conservation Board, Allamakee Engineers office, Winnesiek County SWCD, Winnesiek County Conservatoin Board, Engineer's Office, Watershed Residents, NRCS	High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.4.1	Protect near stream habitat and river floodplains.	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 years	Medium	FEMA, IDALS/Watershed Approach	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, NRCS, Pheasants Forever, Iowa Coldwater Conservance, Trout Unlimited,	Md-high	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer and emergency Manager.
Winnesiek County	2.4.2	reduce impacts to vulnerable populations and at-risk properties.	Conduct buyouts and develop affordable housing outside of floodplain.	1-20 years	High	FEMA, IDALS/Watershed Approach, Decorah stormwater utility Fee.	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, FEMA	Md-high	Winnesiek County Emergency Management, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.4.3	Increase native vegetation planign adjacent to streams and rivers by 50% in the following HUC 12 subwatersheds: Martha Creek-Upper Iowa River, Silver Creek (West), Paint Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, Community of Nordness, Trout Creek, City of Decorah, Upper Iowa River, Trout Creek-Trout River, North Bear Creek, Falcon Springs State Wildlife Area-Upper Iowa River, Canoe Creek, Trout River, North Canoe Creek, Community of Freeport-Upper Iowa River, Cold Water Creek, Daisy Valley-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 years	Medium-High	Decorah Stormwater Utility Fee, Federal and State cost-share, FEMA Grants	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, NRCS, Pheasants Forever, Iowa Coldwater Conservance, Trout Unlimited,	Md-high	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.4.5	Protect critical transportation infrastructure, with emphasis on emergency response routes.	implement Detention Ponds, Water and Sediment control Basins upstream of critical infrastructure at risk of floods	1-20 years	High	Decorah Stormwater Utility Fee, FEMA grants	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Winnesiek County Emergency Management, Wastewater Management, Watershed Residents, Decorah police, Winnesiek County Sheriffs office, Winnesiek Medical Center, Gunderson Medical Center,	High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	2.4.6	Relocate critical response services and facilities out of the flood plain.		1-20 years	medium	Decorah Stormwater Utility Fee, FEMA grants	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	3.1.1-6	Support projects that target priority landscape positions	Support upland projects that protect downstream at-risk community members from economic, emotional, health and social impacts of flooding. Support flood mitigation projects that implement best management practices in the upland areas of the watershed. Support projects and practices that protect transportation infrastructure and other private and public infrastructure. Support projects that demonstrate, educate, or implement practices that infiltrate and store excess water, and/or improve water quality. Support projects in priority HUC 12s. Support projects that protect and/or restore stream and river corridor and floodplains.	1-20 years	High	FEMA, IDALS/Watershed Approach, Decorah stormwater utility Fee.	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Medium-High	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	3.2	Provide research, content, and recommendations that encourage location and practice prioritization in local plans, projects, and programs	Hazard mitigation plans and projects, SWCD watershed plan, projects and programs, City Stormwater Management Plans, county comprehensive plans, other plans as identified.	1-20 years	low	Winnesiek County Funds, FEMA grants	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.
Winnesiek County	3.3	Support continued research and analysis as new tools and funding become available to help us better understand the watershed	Apply for funding that becomes available to WMAs, Support partner organization projects and applications.	1-20 years	low	Winnesiek County Funds	Cities, Winnesiek County SWCD, Winnesiek County Conservation Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winnesiek County SWCD, Upper Iowa River WMA Project Coordinator, Winnesiek County NRCS, City of Decorah, Winnesiek County Engineer.

Winneshiek County	4.1	Increase public awareness of watersheds and the power of working through the watershed approach to measurably reduce flooding and improve water quality.	Stormwater interpretive Kiosks, Watershed Week: awareness campaign during world water week, Watershed signage, Watershed website, Promotional materials, Community BMP workshops, conservation award.	1-20 years	low	Winneshiek County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winneshiek County SWCD, Upper Iowa River WMA Project Coordinator, Winneshiek County NRCS, City of Decorah, Winneshiek County Engineer.
Winneshiek County	4.2	Encourage farmers and landowners to implement agricultural practices that conserve soil and improve water infiltration	One-on-One outreach, field days, livingroom meetings, watershed and water conservation units in agricultrue education FFA and 4H, Producer peer group, school farm conservation field trips, promotional materials, conservation award.	1-20 years	medium	Winneshiek County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winneshiek County SWCD, Upper Iowa River WMA Project Coordinator, Winneshiek County NRCS, City of Decorah, Winneshiek County Engineer.
Winneshiek County	4.3	Promote greater understanding of best practices for urban stormwater management, and develop champions for watershed protection among community leaders.		1-20 years	medium	Winneshiek County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	Low	Winneshiek County SWCD, Upper Iowa River WMA Project Coordinator, Winneshiek County NRCS, City of Decorah, Winneshiek County Engineer.

Actions Considered to Reduce Impacts of Flooding				Criteria for Prioritizing Implementation of Actions*			For actions that jurisdictions intend to implement (within next ~10 years):		
Jurisdiction	Objective, Strategy	Mitigation Action*	Specific Methods/ Practices to Use	Completion Timeframe *	Likely Benefit Compared to Cost? *	Potential Funding Source(s)*	Potential Partner(s)	Action Priority*	Jurisdiction Position(s)/ Department(s) Responsible*
Howard County	2.1.1	100% cover by one or more of the soil health or perennial cover practices on Critical and High Runoff Risk parcels in Howard County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Staff Creek, Bigalks Creek, Hayden Prairie State Wildlife Area-Beaver Creek, Town Of Granger-Upper Iowa River, City of LeRoy-Upper Iowa River, Martha Creek-Upper Iowa River, Silver Creek (West).	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Medium	Howard County SWCD, and NRCS costshare funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Medium-high	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.1.2	40% cover by one or more of the soil health or perennial cover practices on remaining high runoff risk and present runoff risk acres in Howard County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Staff Creek, Bigalks Creek, Hayden Prairie State Wildlife Area-Beaver Creek, Town Of Granger-Upper Iowa River, City of LeRoy-Upper Iowa River, Martha Creek-Upper Iowa River, Silver Creek (West).	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Medium	Howard County SWCD, and NRCS costshare funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Medium-high	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.2.1-7	Improve water quality in all surface and source waters in Howard County HUC 12 subwatersheds (Staff Creek, Bigalks Creek, Hayden Prairie State Wildlife Area-Beaver Creek, Town Of Granger-Upper Iowa River, City of LeRoy-Upper Iowa River, Martha Creek-Upper Iowa River, Silver Creek (West)) See section 6.3 for measurable water quality goals.	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Prairie Strips, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment, Nutrient Management Practices, Manure Management Practices, Bioreactors, Saturated buffers, Livestock Stream Exclusion, Septic Systems Management, Low cost feedlot water and manure management, nutrient reduction wetlands, sinkhole buffer-continuous CRP, Drainage water management. <b>Urban:</b> Munciple infrastructure upgrades, Exclusion of stormwater from wastewater, Lawn fertilizer reduction program, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden.	1-20 years	Low	Howard County SWCD, and NRCS costshare funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Medium	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.3.1	Watersheds above Decorah: 32% of the toal drainage area regulated, or 11,000 acre-feet of distributed storage. HUC 12 subwatersheds in Howard county and above Decorah include: Martha Creek-Upper Iowa River, Ten Mile Creek, Pine Creek, Dry Run, City of Decorah, Falcon Springs State Wildlife Area-Upper Iowa River, Cold Water Creek, Dalsey Valley-Upper Iowa River.	Detention Ponds, Water and Sediment control Basins, Create and restore Wetlands, Create and restore Oxbows. Install Rain Harvest systems.	1-20 years	High	FEMA grants	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.4.1	Protect near stream habitat and river floodplains.	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 years	High	FEMA grants	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, Iowa Coldwater Conservance, Trout Unlimited,	Medium	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.4.2	reduce impacts to vulnerable populations and at-risk properties.	Conduct buyouts and develop affordable housing outside of floodplain.	1-20 years	High	FEMA, IDALS/Watershed Approach	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, FEMA	Md-High	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.4.3	Increase native vegetation plantings adjacent to streams and rivers by 50% in the following HUC 12 subwatersheds: Staff Creek, Bigalks Creek, Hayden Prairie State Wildlife Area-Beaver Creek, Town Of Granger-Upper Iowa River, City of LeRoy-Upper Iowa River, Martha Creek-Upper Iowa River, Silver Creek (West).	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 years	Low	Howard County SWCD, and NRCS costshare funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, Iowa Coldwater Conservance, Trout Unlimited,	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.4.5	Protect critical transportation infrastructure, with emphasis on emergency response routes.	implement Detention Ponds, Water and Sediment control Basins upstream of critical infrastructure at risk of floods	1-20 years	High	FEMA, IDALS/Watershed Approach	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, City Law enforcement, Howard County Sheriffs office, Regional Health Services of Howard County, Lime Springs Medical Clinic, Cresco Medical Clinic	Md-High	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	2.4.6	Relocate critical response services and facilities out of the flood plain.		1-20 years	Medium	FEMA, IDALS, county funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	3.1.1-6	Support projects that target priority landscape positions	Support upland projects that protect downstream at-risk community members from economic, emotional, health and social impacts of flooding. Support flood mitigation projects that implement best management practices in the upland areas of the watershed. Support projects and practices that protect transportation infrastructure and other private and public infrastructure. Support projects that demonstrate, educate, or implement practices that infiltrate and store excess water, and/or improve water quality. Support projects in priority HUC 12s. Support projects that protect and/or restore stream and river corridor and floodplains.	1-20 years	High	FEMA, IDALS, county funds	Cities, Howard County SWCD, Howard County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Md-High	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	3.2	Provide research, content, and recommendations that encourage location and practice prioritization in local plans, projects, and programs	Hazard mitigation plans and projects, SWCD watershed plan, projects and programs, City Stormwater Management Plans, county comprehensive plans, other plans as identified.	1-20 years	Medium	Howard County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	3.3	Support continued research and analysis as new tools and funding become available to help us better understand the watershed	Apply for funding that becomes available to WMAs, Support partner organization projects and applications.	1-20 years	Medium	Howard County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	4.1	Increase public awareness of watersheds and the power of working through the watershed approach to measurably reduce flooding and improve water quality.	Stormwater interpretive kiosks, Watershed Week: awareness campaign during world water week, Watershed signage, Watershed website, Promotional materials, Community BMP workshops, conservation award.	1-20 years	High	Howard County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	4.2	Encourage farmers and landowners to implement agricultural practices that conserve soil and improve water infiltration	One-on-One outreach, field days, livingroom meetings, watershed and water conservation units in agricultrue education FFA and 4H, Producer peer group, school farm conservation field trips, promotional materials, conservation award.	1-20 years	High	Howard County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.
Howard County	4.3	Promote greater understanding of best practices for urban stormwater management, and develop champions for watershed protection among community leaders.		1-20 years	High	Howard County Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Howard County SWCD, Upper Iowa River WMA Project Coordinator, Howard County NRCS, Howard County Engineer.

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Jurisdiction	Objective, Strategy	Mitigation Action*	Specific Methods/ Practices to Use	Completion Timeframe *	Likely Benefit Compared to Cost? *	Potential Funding Source(s)*	Potential Partner(s)	Action Priority*	Jurisdiction Position(s)/ Department(s) Responsible*
Allamakee County	2.1	100% cover by one or more of the soil health or perennial cover practices on Critical and High Runoff Risk parcels in Allamakee County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Silver Creek (East), Waterloo Creek, French Creek, Upper Iowa River, Patterson Creek, Clear Creek-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 Years	Medium	Allamakee County SWCD an d NRCS cost share programs	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.1	40% cover by one or more of the soil health or perennial cover practices on remaining high runoff risk and present runoff risk acres in Allamakee County shown by the ACPF Data in section 6.5.3. Includes subwatersheds Silver Creek (East), Waterloo Creek, French Creek, Upper Iowa River, Patterson Creek, Clear Creek-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River.	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 Years	Medium	Allamakee County SWCD an d NRCS cost share programs	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.2.1-7	improve water quality in all surface and source waters in Winneshiek County HUC 12 subwatersheds (Silver Creek (East), Waterloo Creek, French Creek, Upper Iowa River, Patterson Creek, Clear Creek-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River) See section 6.3 for measurable water quality goals.	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Prairie Strips, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment, Nutrient Management Practices, Manure Management Practices, Bioreactors, Saturated buffers, Livestock Stream Exclusion, Septic Systems Management, Low cost feedlot water and manure management, nutrient reduction wetlands, sinkhole buffer-continuous CRP, Drainage water management. <b>Urban:</b> Muncipale infrastructure upgrades, Exclusion of stormwater from wastewater, Lawn fertilizer reduction program, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden.	1-20 Years	low	Allamakee County SWCD an d NRCS cost share programs	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.3.3	Bear Cerek Watershed: Follow the <i>Bear Creek Watershed Plan and Environmental Assessment</i>	Detention Ponds, Water and Sediment control Basins, Create and restore Wetlands, Create and restore Oxbows. Install Rain Harvest systems.	1-20 Years	High	Allamakee County SWCD an d NRCS cost share programs, FEMA grants	Allamakee County SWCD, Allamakee County, Allamakee County Conservation Board, Allamakee Engineers office, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Watershed Residents, NRCS	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.4.1	Protect near stream habitat and river floodplains.	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 Years	Medium	Allamakee County SWCD an d NRCS cost share programs	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, Iowa Coldwater Conservance, Trout Unlimited.	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.4.2	reduce impacts to vulnerable populations and at-risk properties.	Conduct buyouts and develop affordable housing outside of floodplain.	1-20 Years	High	FEMA	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, FEMA	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.4.3	Increase native vegetation planing adjacent to streams and rivers by 50% in the following HUC 12 subwatersheds:Silver Creek (East), Waterloo Creek, French Creek, Upper Iowa River, Patterson Creek, Clear Creek-Upper Iowa River, Bear Creek, Coon Creek-Upper Iowa River	Plant Riparian forest buffers, plant filter strips, install stream bank stabilization, purchase of easements.	1-20 Years	Medium	Allamakee County SWCD an d NRCS cost share programs,	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, Iowa Coldwater Conservance, Trout Unlimited.	Low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.4.5	Protect critical transportation infrastructure, with emphasis on emergency response routes.	implement Detention Ponds, Water and Sediment control Basins upstream of critical infrastructure at risk of floods	1-20 Years	High	Allamakee County SWCD an d NRCS cost share programs, FEMA grants	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS, Allamakee County Emergency Management, Allamakee County Law Enforcement, Allamakee County Sheriffs office, Gunderson Lutheran Lansinc Clinic, Veteran's Memorial Hospital	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	2.4.6	Relocate critical response services and facilities out of the flood plain.		1-20 Years	Medium	FEMA	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	3.1.1-6	Support projects that target priority landscape positions	Support upland projects that protect downstream at-risk community members from economic, emotional, health and social impacts of flooding. Support flood mitigation projects that implement best management practices in the upland areas of the watershed. Support projects and practices that protect transportation infrastructure and other private and public infrastructure. Support projects that demonstrate, educate, or implement practices that infiltrate and store excess water, and/or improve water quality. Support projects in priority HUC 12s. Support projects that protect and/or restore stream and river corridor and floodplains.	1-20 Years	High	Allamakee County SWCD an d NRCS cost share programs, FEMA, IDALS, IWA project	Cities, Allamakee County SWCD, Allamakee County Conservatoin Board, Engineer's Office, Wastewater Management, Watershed Residents, RC&D, Pheasants Forever, NRCS	Md-high	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	3.2	Provide research, content, and recommendations that encourage location and practice prioritization in local plans, projects, and programs	Hazard mitigation plans and projects, SWCD watershed plan, projects and programs, City Stormwater Management Plans, county comprehensive plans, other plans as identified.	1-20 Years	Low	Allamakee county Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	3.3	Support continued research and analysis as new tools and funding become available to help us better understand the watershed	Apply for funding that becomes available to WMAs, Support partner organization projects and applications.	1-20 Years	Low	Allamakee county Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	4.1	Increase public awareness of watersheds and the power of working through the watershed approach to measurably reduce flooding and improve water quality.	Stormwater Interpretive Kiosks, Watershed Week: awareness campaign during world water week, Watershed signage, Watershed website, Promotional materials, Community BMP workshops, conservation award.	1-20 Years	Low	Allamakee county Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.

Allamakee County	4.2	Encourage farmers and landowners to implement agricultural practices that conserve soil and improve water infiltration	One-on-One outreach, field days, livingroom meetings, watershed and water conservation units in agriculture education FFA and 4H, Producer peer group, school farm conservation field trips, promotional materials, conservation award.	1-20 Years	Low	Allamakee county Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.
Allamakee County	4.3	Promote greater understanding of best practices for urban stormwater management, and develop champions for watershed protection among community leaders.		1-20 Years	Low	Allamakee county Funds	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, ...	low	Allamakee County SWCD, Upper Iowa River WMA Project Coordinator, Allamakee County NRCS, Allamakee County Engineer and emergency Manager.

Actions Considered to Reduce Impacts of Flooding				Criteria for Prioritizing Implementation of Actions*				For actions that jurisdictions intend to	
Jurisdiction	Objective, Strategy, Action	Mitigation Action*	Specific Methods/ Practices to Use	Completion Timeframe *	Likely Benefit Compared to Cost? *	Potential Funding Source(s)*	Potential Partner(s)	Action Priority*	Jurisdiction Position(s)/ Department(s) Responsible*
City of Decorah	2.4.6	Relocate critical response services and facilities out of the flood plain.		1-20 years	Medium	Decorah Stormwater Utility Fee, RUT	Cities, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, RC&D, Schools, Luther College, Pheasants forever	Low	Decorah City Council
City of Decorah	2.4.4	Improve and maintain existing levee systems	Streambank stabilization along Upper Iowa River & levee, Improvements and continued maintenance to levee system	1-20 years	High	Decorah Stormwater Utility Fee	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, RC&D, Schools, Luther College, Pheasants forever	Md-High	Decorah City Council
City of Decorah	2.1.1	100% cover by one or more of the soil health or perennial cover practices on Critical and High Runoff Risk parcels in the City of Decorah shown by the ACPF Data in section 6.5.3. Includes subwatersheds City of Decorah-Upper Iowa River.	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment and Management. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Low	Decorah Stormwater Utility Fee	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, RC&D, Schools, Luther College, Pheasants forever	Low	Decorah City Council, Winneshiek County SWCD & NRCS, Upper Iowa WMA
City of Decorah	2.1.2	40% cover by one or more of the soil health or perennial cover practices on remaining high runoff risk and present Runoff Risk parcels in the City of Decorah shown by the ACPF Data in section 6.5.3. Includes subwatersheds City of Decorah-Upper Iowa River.	<b>Rural:</b> Cover Crop, No-till, CRP, Multi-Cropping, Rotational Grazing, Contour Buffer Strips, Grass Waterways, Prairie Strips, Contour Cropping, Strip Cropping, Diverse Crop Rotation, Tree and Shrub Establishment and Management. <b>Urban:</b> Permeable Pavers, Tree and Shrub Establishment and Management, Native Plantings establishment and Management, Bioswale, Bioretention Cell, Rain Garden, Infiltration Trench.	1-20 years	Low	Decorah Stormwater Utility Fee	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, RC&D, Schools, Luther College, Pheasants forever	Md-High	Decorah City Council, Winneshiek County SWCD and NRCS, Upper Iowa WMA
City of Decorah	2.4.2	reduce impacts to vulnerable populations and at-risk properties.	Conduct buyouts and develop affordable housing outside of floodplain.	1-20 years	High	Decorah stormwater utility Fee.	Cities, Winneshiek County SWCD, Winneshiek County Conservatoin Board, Engineer's Office, Decorah City Park and Rec, Wastewater Management, Watershed Residents, FEMA	Md-high	Decorah City Council, Winneshiek County SWCD and NRCS, Upper Iowa WMA