Action #	Action Description	2020 Implementation Status Comments
Huntersville- 1	Seek grant funding to retrofit critical facilities and Town- owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	No actions were needed in the last five years due to other priorities. The Town will continue to seek funding to equip new and/or existing Town- owned facilities with materials and technology that will improve resilience to hazards.
Huntersville- 2	Implement storm water mitigation projects, including the grading of ditches and replacing failing/potentially failing storm water structures	
Huntersville 3	Conduct an annual tabletop exercise addressing potential hazards faced by Town. This exercise would bring together representatives from all Town departments that would work together creating and implementing a plan to effectively deal with the hazard.	
Huntersville 4	Coordinate with Cher-Meck EM to relay critical information on the Towns Social Media Sites regarding potential hazards, localized emergencies, preparedness, and property protection options.	
Huntersville 5	Provide and maintain NIMS training for town employees and government officials likely to be involved with hazard mitigation or emergency response	

Action #	Action Description	2020 Implementation Status Comments
Pineville- 1	Seek grant funding to retrofit critical facilities and Townowned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition- resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail-resistant roofing, and anchoring fixed building equipment.	In progress: Mecklenburg County retroFIT flood hazard mitigation grant program rolled out in FY16 project to identify and partially fund various mitigation projects using techniques such as floodproofing.
Pineville- 2	Seek grant funding to install backup generators or quick connect hook ups for mobile generators on any newly constructed county/town critical facilities.	In Progress. Grants have not yet been applied for, but staff have been gathering information and quotes to be able to apply for a grant when we find one that is suitable.
Pineville- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standard (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions) b) Require critical facilities protection to 500- year flood levels c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) d) Require dry land access for new or substantially improved buildings (above Community Flood BFE) e) Levee restrictions f) Cumulative substantial damage improvement provision g) Prohibit basements below flood level on filled lots	In Progress: Municipal Ordinance Updates to City, County, and town floodplain ordinances completed as Flood Insurance Rate Map revisions become effective. Staff participated in FEMA/NCDEM training E273 "Managing Floodplain Development through the National Flood Insurance Program".
Pineville- 4	In coordination with CMSWS, continue participation in the NFIP Community Rating System (CRS) with the goal of increasing CRS credit points to become a Class 5 community of better within five years.	In Progress: Maintained programs to remain Class 6. Researched 2017 CRS manual to prepare for upcoming Annual CRS recertification.
Action #	Action Description	2020 Implementation Status Comments

Pineville- 5	Advertise and promote the availability of flood insurance.	In Progress: Annual "Floodplain Flash" newsletter distributed by USPS in May 2015, 2016 & 2018
Discussion of the Control of the Con		L. D The Morther to Co Short Birl
Pineville- 6	Preserve lands subject to repetitive flooding.	In Progress. The Mecklenburg County Flood Risk Assessment and Risk Reduction Tool (RARRT) is now used to guide local mitigation program actions. Flood risk scores, mitigation priority scores and planning level mitigation techniques were developed for all buildings with property touching the floodplain with updated floodplain maps. This data is now used to develop and prioritize local mitigation efforts.
Pineville- 7	Continue to limit future development in identified flood hazard areas and prohibit new critical facilities from being located with the 500-year floodplain as required in the Town's flood damage prevention ordinance.	In Progress. Town maintains Zoning and Subdivision Ordinances to attain this goal. In process of developing a new Comprehensive Plan and updating the Zoning Ordinance. Expected to be completed in next two years.
Pineville- 8	Conduct cumulative impact analysis/studies for multiple development projects within the same watershed.	In Progress: Staff continues to require extensive studies for development projects within watersheds.
Pineville- 9	Continue to coordinate with CMEMO on enhancements to the Town's early warning system and procedures for imminent hazard	In Progress: Continue to coordinate with CMEMO on an ongoing basis.
Pineville- 10	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management on a widespread public outreach activity to provide information on all natural hazards facing the area to local residents, including methods for preventing damages from hazardous conditions and how to respond when an imminent hazard	In Progress: Through the Town of Pineville website and social media platforms provide notifications and links to preventing damage during hazardous conditions and also how to respond to imminent hazards as they arise.
Action #	Action Description	2020 Implementation Status Comments

Pineville- 11	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multi-jurisdictional Hazard Mitigation Plan.	In Progress: CMEMO hosted April 2017 planning committee meeting CMSWS hosts May 2018 planning meeting for participating CRS jurisdictions. EM still responsible for hosting 2018 planning committee meetings for all jurisdictions.
Pineville- 12	Acquire safe sites for public facilities, including schools, police and fire stations, etc.	Achieved/Ongoing. Belle Johnston Community Center can function as a safe site and any other current or future public facilities that qualify.
Pineville- 13	Develop early warning system for hazard events.	In progress: Additional stream stage sensors will be installed to provide more stream height data to be used in H&H model calibration and automated real-time flood inundation mapping.
Pineville- 14	Develop traffic response plan addressing how to deal with traffic in a commercial area for ingress/egress in the event of a disaster or emergency.	Completed/Ongoing. The Police Department has traffic control measures in place. The Town is currently working on re-aligning a traffic light for better and more efficient

Table 7.1 – Mitigation Action Plan, Mecklenburg County

Action #	Action Description	2020 I Comm
Mecklenburg- 1	Seek grant funding to retrofit critical facilities and County-owned facilities for improved	Identifie
_	resilience to all hazards with the use of the latest building materials and technology. This	improve
	could include, but is not limited to: wind retrofits, low water consumption fixtures, leak	complet
	detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe	prioritie
	rooms, lightning protection, hail resistant roofing, and anchoring fixed building	
	equipment.	
Mecklenburg- 2	Maintain continued compliance with the National Flood Insurance Program (NFIP)	County r
	through implementation and periodic evaluation of the following higher regulatory	in Nover
	standards (in addition to basic required compliance actions):	extensiv
	a) Development standards linked to Community Floodplain (Future Conditions)	group, a
	b) Require critical facilities protection to 500-year flood levels	attorney
	c) Require parking lots to be elevated (no more than six inches deep in any parking space	clarity, c
	during Community Flood event)	ordinand
	d) Require dry land access for new or substantially improved buildings (above	effective
	Community Flood BFE)	standarc
	e) Levee restrictions	
	f) Cumulative substantial damage improvement provision	
	g) Prohibit basements below flood level on filled lots	
Mecklenburg- 3	Continue participation in the NFIP Community Rating System (CRS) with the goal of	Mecklen
	increasing CRS credit points to become a Class 5 community or better within five years.	maintair
		and is cu
Mecklenburg- 4	Update Flood Insurance Rate Maps to provide most accurate depiction of flood risk.	Class 6 c Several I
Meckienburg- 4	populate Flood insurance kate Maps to provide most accurate depiction of flood risk.	2018.
		2016.
Mecklenburg- 5	Identify, fund, and implement eligible flood mitigation projects. FEMA- defined and	In the in
	locally verified "repetitive loss properties" to receive high priority.	update (
		have be
		at a cost
		\$16.8M
		federal)
		awardec elevatio
		prevente
		impleme
		Stream I
		applicati
		/Demoli
		applicati
		NCDEM
		(Florenc
		pending

Information Notification System (FINS). Research possibility of FINS system to provide inundation mapping based on results of new H&H models and explore alternate methods and expansion into other Incations Mecklenburg- 7 As determined necessary and upon request from municipal jurisdictions, provide informative presentations and/or work sessions for newly elected officials and new Cor	mbina
inundation mapping based on results of new H&H models and explore alternate methods and expansion into other Incations Mecklenburg- 7 As determined necessary and upon request from municipal jurisdictions, provide informative presentations and/or work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	·.
methods and expansion into other locations Mecklenburg- 7 As determined necessary and upon request from municipal jurisdictions, provide informative presentations and/or work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	
Mecklenburg- 7 As determined necessary and upon request from municipal jurisdictions, provide informative presentations and/or work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	
informative presentations and/or work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	
appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	pleme
overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	mbina
implications of failing to enforce the requirements of the program or failing to properly handle variance requests.	.1, & #
handle variance requests.	ogram
On an annual basis, coordinate with Charlotte-Mecklenburg Emergency	
Management on a widespread public outreach activity to provide information on all	
natural hazards facing the area to local residents, including methods for mitigating and	
preventing damages from hazardous conditions and how to respond when an imminent hazard threatens.	
On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management to	
provide information on all natural hazards facing the area to local planning staff and	
elected officials. This should be combined with an annual progress report on the status	
of local mitigation actions as identified in the Multijurisdictional Hazard Mitigation Plan.	
Mecklenburg- 8 Install back-up emergency generators at the following critical facilities/emergency	
shelters: Tuckaseegee Recreation Center, Grady Cole Center, Naomi Drennan Recreation	
Center	

mplementation Status lents

ed specific locations for ements. Retrofits not yet ed due to competing s.

revised floodplain ordinance mber 2018 following e review by stakeholder dvisory council, and County /. Goal was to improve conform with state model ce, and adopt newly EFIRM panels. Higher ds maintained.

iburg County has ned participation in the CRS arrently a community.

FIRM panels were revised in

terval since 2015 HMP
51 flood-prone buildings
en acquired and demolished
: of
(93% local / 7%
Two FMA grants
! for structure
n, budget shortfall
ed project
entation. Floodplain
Restoration grant
ion and Acquisition
tion grant
ion submitted under
HMGP DR-4393

e), FEMA review

Table 7.2 – Mitigation Action Plan, City of Charlotte

	Table 7.2 - Witigation Action Flan, City of Charlotte		
Action#	Action Description	2020 Implementation Status Comments	
Charlotte- 1	Consider the need to add or revise existing policies or regulations to more thoroughly address natural hazards during the update of the City's Zoning Ordinance.	Under development- Stormwater regulations will be incorporated in the Charlotte Unified Development Ordinance.	
Charlotte- 2	Enhance area planning activities to better address potential natural hazards.	Under development- These elements will be considered and incorporated in the Charlotte 2040 Comprehensive Plan.	
Charlotte- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions); b) Require critical facilities protection to 500-year flood levels; c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event); d) Require dry land access for new or substantially improved buildings (above Community Flood BFE); e) Levee restrictions; f) Cumulative substantial damage improvement provision; g) Prohibit basements below flood level on filled lots	ordinances as part of the Physical Map Revision PMR3 that is effective	
Charlotte- 4	Continue participation in the NFIP Community Rating System (CRS) with the goal of increasing CRS credit points to become a Class 4 community or better within five years.	Class 4 achieved and continuing participating.	

Charlotte- 5	Seek opportunities to provide information and education to Planning staff regarding risks associated with natural hazards and potential prevention/mitigation planning strategies.	Planning staff will continue to seek American Planning Association (APA) related training in conjunction with American Institute of Certified Planners (AICP) Certification Maintenance (CM) credits. On April 12, 2019, we hosted a group viewing of the Principles for Preparing a Community's Disaster Recovery Plan webinar. The 2-hour course is sponsored by the APA Hazard Mitigation and Disaster Recovery Planning Division and eligible for 2 CM credits.
Charlotte- 6	On an annual basis, coordinate with municipalities on a widespread public outreach activity to provide information on all natural hazards facing the area to local residents, including methods for mitigating and preventing damages from hazardous conditions and how to respond when an imminent hazard threatens.	All Hazards Advisory Committee (AHAC) Conference held 11-14-19
Charlotte- 7	On an annual basis, coordinate with municipalities to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multijurisdictional Hazard Mitigation Plan.	All Hazards Advisory Committee (AHAC) Conference held 11-14-19
Charlotte- 8	Implement spring public information campaign aimed at tornado and severe weather awareness to include information on safe rooms.	Severe Weather Week occurred March 2020. Charlotte is a Storm Ready Community
Charlotte- 9	Train emergency responders and managers for flood emergencies.	EM has conducted annual trainings

Charlotte- 15 Provide information regarding encroachments, abandonments, new construction, and leases. Charlotte- 16 Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years). Charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water	Cl		le
Charlotte- 12 Provide and maintain NIMS training for all KBE's, division multiple hazard areas Charlotte- 12 Provide and maintain NIMS training for all KBE's, division heads and key government officials. Charlotte- 13 Develop evacuation routes that are not adversely affected by flooding. Charlotte- 14 Improve the dissemination of hazard information, including maps, broadcasts, internet Web site(s) and listeards. Charlotte- 15 Provide information regarding encroachments, abandonments, new construction, and leases. Charlotte- 16 Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years). Charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify, and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding alls, road closings, swift water	Charlotte- 10		Equipment evaluation is underway.
Charlotte- 12 Provide and maintain NIMS training for all KBE's, division heads and key government officials. Charlotte- 13 Develop evacuation routes that are not adversely affected by flooding. Charlotte- 14 Improve the dissemination of hazard information, including maps, broadcasts, Internet Web site(s) and listservs. Charlotte- 15 Provide information regarding encroachments, abandonments, new construction, and leases. Charlotte- 16 Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years). Charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklehour Police Department for flooding calls, road closings, swift water		emergencies, including swift water rescue.	
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heads and key government officials. Charlotte- 13 Develop evacuation routes that are not adversely affected by flooding. Develop evacuation routes that are not adversely affected by flooding. Charlotte- 14 Improve the dissemination of hazard information, including maps, broadcasts, Internet Web site(s) and listservs. Charlotte- 15 Provide information regarding encroachments, abandonments, new construction, and leases. Charlotte- 16 Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years). Charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water			
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Charlotte- 14 Improve the dissemination of hazard information, including maps, broadcasts, Internet Web site(s) and listservs. Charlotte- 15 Provide information regarding encroachments, abandonments, new construction, and leases. Charlotte- 16 Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years). Charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water			Battalion, US Army, in ongoing planning and
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charlotte- 17 Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets. Charlotte- 18 Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water	Charlotte- 10	·	
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projects to improve 20 linear miles of system between 2020 and 2025. Charlotte- 19 Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water	Charlotte 17	Revising current criteria to strategically prioritize work by	
that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water	Charlotte- 18	projects to improve 20 linear miles of system between	
flooding calls, road closings, swift water	Charlotte- 19	that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department	
rescues, etc.			

Charlotte- 20 Charlotte- 21	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Implement updates in methodology to Community Floodplain (Future Conditions) b) Additional 1-foot freeboard in the interim before Community Floodplains are updated Strive to have all other NFIP Community Rating System (CRS) municipalities in Mecklenburg County reach a Class 5 rating or better.	
Charlotte- 22	Create media campaign/message to relay to local media and the general public prior to forecasted severe storm events.	
Charlotte- 23	Conduct annual inspections on ponds/dams that City of Charlotte Storm Water Services has accepted maintenance responsibility.	
Charlotte- 24	Retrofit critical facilities and City-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	
Charlotte- 25	Install and maintain backup generators or quick connect hook ups for mobile generators on any newly constructed City-owned critical facilities.	
Charlotte- 26	Develop a plan to identify and map fueling sites with underground storage tanks and either install backup generators or quick connect hook ups for mobile generators.	

Action #	Action Description	Hazard(s) Addressed
Mecklenburg- 1	Seek grant funding to retrofit critical facilities and County-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	All Hazards
Mecklenburg- 2	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions) b) Require critical facilities protection to 500-year flood levels c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) d) Require dry land access for new or substantially improved buildings (above Community Flood BFE) e) Levee restrictions f) Cumulative substantial damage improvement provision g) Prohibit basements below flood level on filled lots	Flood
Mecklenburg- 3	Continue participation in the NFIP Community Rating System (CRS) with the goal of increasing CRS credit points to become a Class 5 community or better within five years.	Flood
Mecklenburg- 4	Update Flood Insurance Rate Maps to provide most accurate depiction of flood risk.	Flood
Mecklenburg- 5	Identify, fund, and implement eligible flood mitigation projects. FEMA- defined and locally verified "repetitive loss properties" to receive high priority.	Flood

Action #	Action Description	Hazard(s) Addressed
Mecklenburg- 6	Research possibility of using new H&H models to provide flood forecasting in the Flood Information Notification System (FINS). Research possibility of FINS system to provide inundation mapping based on results of new H&H models and explore alternate methods and expansion into other	Flood
Mecklenburg- 7	As determined necessary and upon request from municipal jurisdictions, provide informative presentations and/or work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests. On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management on a widespread public outreach activity to provide information on all natural hazards facing the area to local residents, including methods for mitigating and preventing damages from hazardous conditions and how to respond when an imminent hazard threatens. On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multijurisdictional Hazard Mitigation Plan.	All Hazards
Mecklenburg- 8	Install back-up emergency generators at the following critical facilities/emergency shelters: Tuckaseegee Recreation Center, Grady Cole Center, Naomi Drennan Recreation Center	All Hazards

Action #	Action Description	Hazard(s) Addressed	Goal & Objective Addressed	
Charlotte- 1	Consider the need to add or revise existing policies or regulations to more thoroughly address natural hazards during the update of the City's Zoning Ordinance.	All Hazards	4.1	Μι
Charlotte- 2	Enhance area planning activities to better address potential natural hazards.	All Hazards	4.1	M

Charlotte- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions); b) Require critical facilities protection to 500-year flood levels; c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event); d) Require dry land access for new or substantially improved buildings (above Community Flood BFE); e) Levee restrictions; f) Cumulative substantial damage improvement provision; g) Prohibit basements below flood level on filled lots		4.1	Hi
Charlotte- 4	Continue participation in the NFIP Community Rating System (CRS) with the goal of increasing CRS credit points to become a Class 4 community or better within five years.	Flood, Dam & Levee Failure	4.1	Hiį
Action #	Action Description	Hazard(s) Addressed	Goal & Objective Addressed	
Charlotte- 5	Seek opportunities to provide information and education to Planning staff regarding risks associated with natural hazards and potential prevention/mitigation planning strategies.	All Hazards	2.1	
		All Hazards	2.3	4

Charlotte- 7	On an annual basis, coordinate with municipalities to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multijurisdictional Hazard Mitigation Plan.		3.1	
Charlotte- 8	Implement spring public information campaign aimed at tornado and severe weather awareness to include information on safe rooms.	Tornadoes, Severe Weather	2.1	
Action#	Action Description	Hazard(s) Addressed	Goal & Objective Addressed	
Charlotte- 9	Train emergency responders and managers for flood emergencies.	Flood	3.1	M
Charlotte- 10	Equip emergency responders and managers for flood emergencies, including swift water rescue.	Flood	3.1	Mı
Charlotte- 11	Conduct disaster drills for division managers.	All Hazards	3.1	M
Charlotte- 12	Provide and maintain NIMS training for all KBE's, division heads and key government officials.	All Hazards	3.1	M

Charlotte- 13	Develop evacuation routes that are not adversely affected by flooding.	All Hazards	3.3	M
Charlotte- 14	Improve the dissemination of hazard information, including maps, broadcasts, Internet Web site(s) and listservs.	All Hazards	2.1	M
Charlotte- 15	Provide information regarding encroachments, abandonments, new construction, and leases.	All Hazards	2.1	M
Charlotte- 16	Inspect the condition of 50% of the critical assets (culverts greater than 48 inches that are under City-maintained streets) on a regular schedule (every 5 years).	Flood, Dam/Levee Failure	1.3	Hiį
			Goal & Objective Addressed	
Action # Charlotte- 17	Action Description Identify, rank and prioritize capital improvement projects. Revising current criteria to strategically prioritize work by managing our assets.	Hazard(s) Addressed Flood, Dam/Levee Failure	1.1	Hi
Charlotte- 18	Initiate (plan, design and construct) capital improvement projects to improve 20 linear miles of system between 2020 and 2025.	Flood, Dam/Levee Failure	1.1	Hiŧ
Charlotte- 19	Identify and map known areas/streets subject to flooding that are outside of currently mapped floodplain areas based on: (1) drainage concerns reported through 311; and (2) past incident reports from the Fire Department and the Charlotte-Mecklenburg Police Department for flooding calls, road closings, swift water rescues, etc.	Flood	2.1	Mı
Charlotte- 20	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Implement updates in methodology to Community Floodplain (Future Conditions) b) Additional 1-foot freeboard in the interim before Community Floodplains are updated	Flood	4.1	Hiş

Charlotte- 21	Strive to have all other NFIP Community Rating System (CRS) municipalities in Mecklenburg County reach a Class 5 rating or better.	Flood, Dam/Levee Failure	4.1	Hi
Charlotte- 22	Create media campaign/message to relay to local media and the general public prior to forecasted severe storm events.	Flood, Hurricane & Tropical Storm, Severe Weather, Tornado, Dam/Levee Failure	3.2	Mı
			Goal & Objective Addressed	
Action #	Action Description	Hazard(s) Addressed		
Charlotte- 23	Conduct annual inspections on ponds/dams that City of Charlotte Storm Water Services has accepted maintenance responsibility.	Flood, Dam/Levee Failure	1.3	'
Charlotte- 24	Retrofit critical facilities and City-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	All Hazards	1.1	ı
Charlotte- 25	Install and maintain backup generators or quick connect hook ups for mobile generators on any newly constructed City-owned critical facilities.	All Hazards	1.3	<u></u>
Charlotte- 26	Develop a plan to identify and map fueling sites with underground storage tanks and either install backup generators or quick connect hook ups for mobile generators.	All Hazards	1.3	

		Hazard(s) Addressed	Goal & Objective Addressec
Action #	Action Description		

Cornelius-1	Implement storm water mitigation projects, including the grading of ditches and replacing failing/potentially failing storm water structures.	Flood	1.2
Cornelius-2	Conduct an annual tabletop exercise addressing potential hazards faced by Town. This exercise would bring together representatives from all Town departments that would work together creating and implementing a plan to effectively deal with the hazard.	All Hazards	3.1
Cornelius-3	Review the peninsula evacuation plan that was completed in 2014.	All Hazards	3.1
Cornelius-4	Monitor utility companies, local, state, and federal websites and social media accounts, and push out information on the Town's website and social media platforms	All Hazards	2.1
Cornelius-5	Update the Town's Land Use Plan and integrate the risk assessment findings and the mitigation goals and objectives into the plan.	All Hazards	4.1

A-11-11-14	Aution Description	Hazard(s) Addressed	Goa Objec Addre
Action # Davidson- 1	Action Description Seek grant funding to retrofit critical facilities and Town-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail	All Hazards	1.3
Davidson- 2	Seek grant funding to install backup generators or quick connect hook ups for mobile generators on any newly constructed county/town critical facilities.	All Hazards	1.3
Davidson- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Require critical facilities protection to 500-year flood levels b) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) c) Require dry land access for new or substantially improved buildings (above Community Base Flood Elevation) d) Levee restrictions e) Floors of new or substantially improved buildings allowed by variance in the floodplain must be elevated at least one (1) foot above the Community (future) Base Flood Elevation.	Flood	4.1

Davidson- 4	Implement recommendations of the 2006 Tree Canopy Inventory including pruning and removal of branches and trees that threaten public utilities and structures	Hurricane & Tropical Storm, Severe Weather, Tornado, Severe Winter Storm, Wildfire	1.2
Davidson- 5	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management on a widespread public outreach activity to provide information on all natural hazards facing the area to local residents, including methods for mitigating and preventing damages from hazardous conditions and how to respond when an	All Hazards	2.1
		Hazard(s) Addressed	Goa Objec Addre
Action # Davidson- 6	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multi-	All Hazards	3.1
Davidson- 7	Develop growth policies that account for identified hazard areas	Flood, Severe Weather	4.1
Davidson- 8	Implement stormwater management plan.	Flood	4.1

		Hazard(s) Addressed	Goal & Objective Addressed
Action #	Action Description		

Huntersville- 1	Seek grant funding to retrofit critical facilities and Town- owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	All Hazards	1.3
Huntersville- 2	Implement storm water mitigation projects, including the grading of ditches and replacing failing/potentially failing storm water structures	Flood	1.2
Huntersville 3	Conduct an annual tabletop exercise addressing potential hazards faced by Town. This exercise would bring together representatives from all Town departments that would work together creating and implementing a plan to effectively deal with the hazard.	All Hazards	3.1
Huntersville 4	Coordinate with Cher-Meck EM to relay critical information on the Towns Social Media Sites regarding potential hazards, localized emergencies, preparedness, and property protection options.	All Hazards	2.1
Huntersville 5	Provide and maintain NIMS training for town employees and government officials likely to be involved with hazard mitigation or emergency response.	All Hazards	3.1

		Hazard(s) Addressed	Goal & Objective Addressed	
Action #	Action Description			Pric
Matthews- 1	Develop a second full-function Emergency Operations Center (EOC) at the Fire Department as a backup to the current EOC at the Police Department.	All Hazards	1.3	Mode
Matthews- 2	Prepare and maintain a map of areas that flood frequently, particularly those areas outside of FEMA floodplains. Digitize and add to County GIS on the Internet.	Flood	2.1	High
Matthews- 3	Paint the bonnets on all fire hydrants in the Town Limits to match the NFPA flow color so that all arriving units will be able to visually see the tested flow of the hydrant.	Wildfire	3.1	High

Matthews- 4	Seek grant funding to retrofit critical facilities and Town-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, and anchoring fixed building equipment.	All Hazards	1.3	Mode
Matthews- 5	Seek grant funding to install backup generators or quick connect hook ups for mobile generators on any newly constructed county/town critical facilities.	All Hazards	1.3	Mode
Matthews- 6	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions) b) Require critical facilities protection to 500-year flood levels c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) d) Require dry land access for new or substantially improved buildings (above Community Flood BFE) e) Levee restrictions f) Cumulative substantial damage improvement provision g) Prohibit basements below flood level on filled lots	Flood	4.1	High
Action #	Action Description	Hazard(s) Addressed	Goal & Objective Addressed	Pric
Matthews- 7	Coordinate with Mecklenburg County Storm Water Services to consider applying for and joining FEMA's Community Rating System (CRS).	Flood	4.1	Mode

Matthews- 8	Mitigate localized flooding caused by existing road and railroad structures by means of increasing the dimensions of drainage culverts in problem areas.	Flood, Severe Winter Storm	1.2	Mode
Matthews- 10	Provide and maintain NIMS training for all department supervisors and appropriate line employees. Review and revise the Town Emergency operating Plan as necessary. Exercise the plan annually.	All Hazards	3.1	High
Matthews- 11	Routinely inspect the functioning of fire hydrants and report findings to CMU for repair.	Wildfire	3.1	High
Matthews- 12	Train staff to educate themselves and the public regarding hazards and the steps that can be taken to reduce their impact.	All Hazards	3.1	Mode
		Hazard(s)	Goal & Objective Addressed	
		Addressed	Addressed	l
Action # Matthews- 13	Action Description Relocate Town EOC to Police Department	All Hazards	1.3	Pric Mode

Matthews- 14	Provide Information and Educate the Public about strategies for and actions to promote self-reliance during weather-related events. Provide timely information to the public via social media. Provide education to citizens based on the Community Emergency Response Training.	All Hazards	2.3	High
Matthews- 15	Increase Public Works Debris Removal Capability - Increase debris collection and removal capability by purchasing a grapple attachment for backhoe & skidsteer. The equipment could be used proactively to prevent storm drainage-related flooding, as well aid in as post-event clean-up.	Flood, Hurricane & Tropical Storm, Severe Winter Storm, Severe Weather, Tornado	3.1	High
Matthews- 16	"South Towns" PSAP: Explore the benefits and costs associated with moving the 'South Towns' (Mint Hill, Matthews, Pineville) PSAP to Pineville Police Dept, with Matthews serving as the back-up PSAP.	All Hazards	3.1	High

		Hazard(s) Addressed	Goa Objec Addre
Action # Mint Hill- 1	Action Description Seek funding to retrofit critical facilities and Town-owned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition-resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail resistant roofing, and	All Hazards	1.3
Mint Hill- 2	Seek funding to install backup generators or quick connect hook ups for mobile generators on any newly constructed county/town critical facilities.	All Hazards	1.3
Mint Hill- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standards (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions) b) Require critical facilities protection to 500-year flood levels c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) d) Require dry land access for new or substantially improved buildings (above Community Flood BFE) e) Levee restrictions f) Cumulative substantial damage improvement provision g) Prohibit basements below flood level on filled lots	Flood	4.1

Mint Hill- 4	Prepare and conduct a survey for critical facilities to help identify structural	All Hazards	1.3
141111111111111111111111111111111111111	and/or non-structural deficiencies that may lead to increased vulnerability to	7 III Tidzards	1.5
	natural hazards. Include recommended corrective actions in local capital		
	improvements program.		
Mint Hill- 5	Prepare and maintain a map of areas that flood frequently, particularly those	Flood	2.1
	areas outside of FEMA floodplains.		
Mint Hill- 6	Coordinate with the North Carolina Division of Forest Resources (NCDFR) to	Wildfire	4.1
	prepare Community Wildfire Protection Plans (CWWPs) for identified high risk	Vilaine	7.1
	communities.		
	communices.		
			Goa
			Objec
		Hazard(s)	Addre
		Addressed	Addie
Action #	Action Description		
Mint Hill- 7	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency	All Hazards	2.1
	Management on a widespread public outreach activity to provide information on		
	all natural hazards facing the area to local residents, including methods for		
	mitigating and preventing damages from hazardous conditions and how to		
	respond when an imminent hazard threatens.		
Mint Hill- 8	On an annual basis, coordinate with Charlotte-Mecklenburg Emergency	All Hazards	3.1
	Management to provide information on all natural hazards facing the area to local		0.12
	planning staff and elected officials. This should be combined with an annual		
	progress report on the status of local mitigation actions as identified in the Multi-		
	jurisdictional Hazard Mitigation Plan.		
Mint Hill- 9	Improve growth management procedures in identified flood hazard areas.	Flood	4.1
	improve 5.0 with management procedures in identified flood flazard dreas.	1.1000	17.1

Action #	Action Description	Hazard(s) Addressed	Goal & Objective Addressed	Priority	Mit Cat
Pineville- 1	Seek grant funding to retrofit critical facilities and Townowned facilities for improved resilience to all hazards with the use of the latest building materials and technology. This could include, but is not limited to: wind retrofits, low water consumption fixtures, leak detectors, backup generators, ignition- resistant materials, 320 or 361 compliant safe rooms, lightning protection, hail-resistant roofing, and anchoring fixed building equipment.	All Hazards	1.3	Moderate	Prop Prote

Pineville- 2	Seek grant funding to install backup generators or quick connect hook ups for mobile generators on any newly	All Hazards	1.3	Moderate	Prope Prote
	constructed county/town critical facilities.				
Pineville- 3	Maintain continued compliance with the National Flood Insurance Program (NFIP) through implementation and periodic evaluation of the following higher regulatory standard (in addition to basic required compliance actions): a) Development standards linked to Community Floodplain (Future Conditions) b) Require critical facilities protection to 500- year flood levels c) Require parking lots to be elevated (no more than six inches deep in any parking space during Community Flood event) d) Require dry land access for new or substantially improved buildings (above Community Flood BFE) e) Levee restrictions f) Cumulative substantial damage improvement provision g) Prohibit basements below flood level on filled lots	Flood	4.1	High	Preve
Pineville- 4	In coordination with CMSWS, continue participation in the NFIP Community Rating System (CRS) with the goal of increasing CRS credit points to become a Class 5 community	Flood	4.1	High	Preve
	of hetter within five years	Hazard(s) Addressed	Goal & Objective Addressed		Mit Cat
Action #	Action Description			Priority	
Pineville- 5	Advertise and promote the availability of flood insurance.	Flood	2.3	High	Publi & Aw
Pineville- 6	Preserve lands subject to repetitive flooding.	Flood	1.2	Moderate	Preve

Pineville- 7	Continue to limit future development in identified flood hazard areas and prohibit new critical facilities from being located with the 500-year floodplain as required in the Town's flood damage prevention ordinance.	Flood	4.1	Moderate	Preve
Pineville- 8	Conduct cumulative impact analysis/studies for multiple development projects within the same watershed.	Flood	4.1	Moderate	Preve
Pineville- 9	Continue to coordinate with CMEMO on enhancements to the Town's early warning system and procedures for imminent hazard	All Hazards	3.2	High	Emer Servi
Pineville- 10	events. On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management on a widespread public outreach activity to provide information on all natural hazards facing the area to local residents, including methods for preventing damages from hazardous conditions and how to respond when an imminent hazard	All Hazards	2.1	Moderate	Publi & Aw
		Hazard(s) Addressed	Goal & Objective Addressed		Mit Cat
Action # Pineville- 11	Action Description On an annual basis, coordinate with Charlotte-Mecklenburg Emergency Management to provide information on all natural hazards facing the area to local planning staff and elected officials. This should be combined with an annual progress report on the status of local mitigation actions as identified in the Multi-jurisdictional Hazard Mitigation Plan.	All Hazards	3.1	Priority Moderate	Publi & Aw
Pineville- 12	Acquire safe sites for public facilities, including schools, police and fire stations, etc.	All Hazards	1.3	High	Preve
				1	Ī

Pineville- 14	Develop traffic response plan addressing how to deal	All Hazards	3.3	Moderate	Preve
	with traffic in a commercial area for ingress/egress in				
	the event of a disaster or emergency.				

Table 7.1 – Mitigation Action Plan, Mecklenburg County

Goal & Objective Addressed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementati Timeline
1.3	Moderate	Property Protection	Mecklenburg County Code Enforcement & Mecklenburg County Fire Marshal's Office		Local, State, Federal	More than 5 ye
4.1	High	Prevention	Mecklenburg County / Storm Water	TBD	SWS Operating budget / grant	More than 5 ye
4.1	High	Prevention	Mecklenburg County / Storm Water	TBD	SWS Operating budget	2-3 years
4.1	High	Public Education & Awareness	Mecklenburg County / Storm Water	TBD	Storm Water Services Capital Fund / CTP grant	More than 5 ye
1.1	High	Property Protection	Mecklenburg County / Storm Water	Variable	FEMA Unified Hazard Mitigation Assistance / Storm Water Services capital fund	More than 5 ye

Goal & Objective Addressed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementati Timeline
3.2	Moderate	Prevention	Mecklenburg County Storm Water	TBD	TBD	More than 5 ye
2.1	Moderate	Public Education & Awareness	Charlotte- Mecklenburg Emergency Management Office/ Mecklenburg County Storm Water		Local	2020-2025
1.3	Low	Property Protection	County Asset and Facility Management	\$925,000	Mecklenburg County Capital Reserve	2-3 years

Table 7.2 – Mitigation Action Plan, City of Charlotte

Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
oderate	Prevention	City of Charlotte Planning Department, in coordination with Emergency Management and Storm	Local Staff time	Planning Department budget	2020-2025
oderate	Prevention	City of Charlotte Planning Department, in coordination with Emergency Management and Storm	Local Staff time	Planning Department budget	2020-2025

gh	Prevention	Storm Water Division, in coordination with CMSWS	Local staff time	N/A	2020-2025
gh	Prevention	Storm Water Division, in coordination with CMSWS	Local staff time	N/A	2020-2025
Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
Moderate	Prevention	City of Charlotte Planning Department, in coordination with Emergency Management and Storm Water Division		Emergency Management and/or other staff to provide training and/or utilize resources made available through the American Planning Association (including PAS Report: Integrating Hazard Mitigation into Local Planning)	2020-2025
Moderate	Public Education & Awareness	Emergency Management	Local staff time and resources	Emergency Management budget/EMPG	2020-2025

Moderate	Public Education & Awareness	Emergency Management	Local staff time and resources	Emergency Management budget/EMPG	2020-2025
Moderate	Public Education & Awareness	Emergency Management	\$3,000	Storm Water Services budget, FEMA and American Red Cross materials free of charge (see FEMA Publication 320— Taking Shelter from the Storm: Building a Safe Room Inside Your House), Department of Homeland Security— Citizen Corps	2021
Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
oderate	Emergency Services	City of Charlotte Fire Department	\$50,000	Emergency Management Performance Grants (EMPG), Emergency Management Institute, Department of Justice— State and Local Domestic Preparedness Exercise Support, Department of Homeland Security— Citizen Corps	2020-2025
oderate	Emergency Services	City of Charlotte Fire Department	\$100,000	Hazard Mitigation Grant Program (7% set aside), Emergency Management Performance Grants (EMPG)	2020-2025
oderate	Emergency Services	City of Charlotte Fire Department	\$25,000	Department of Justice—State and Local Domestic Preparedness Exercise Support, Department of Justice—State and Local Domestic Preparedness Training Program, FEMA— First Responder Counter-Terrorism Training assistance, Department of Homeland Security—Citizen Corps	2020-2025
oderate	Emergency Services	City of Charlotte Fire Department	\$25,000	Emergency Management Institute, Department of Homeland Security—Citizen Corps	2020-2025

oderate	Emergency Services	City of Charlotte Department of Transportation	Local staff time and resources	N/A	2020-2025
oderate	Public Education & Awareness	Emergency Management	Local staff time and resources	N/A, FEMA and American Red Cross materials free of charge, Department of Homeland Security— Citizenship Education and Training	2020-2025
oderate	Public Education & Awareness	Code Enforcement, Planning	Local staff time and resources	N/A	2020-2025
gh	Prevention	Storm Water Services Division	Local staff time	Storm Water Services budget	2021-2025
	Mitigation Category	Lead Agency / Department	Cost Estimate		Implementation Timeline
Priority gh	Prevention	Storm Water Services Division	Local staff time	Storm Water Services budget	2021-2025
gh	Structural Projects	Storm Water Services Division	To be determined	Storm Water Services budget	2021-2025
oderate	Prevention	Storm Water Services Division	Local staff time and resources	Storm Water Services budget	2021-2025
gh	Prevention	Storm Water Services Division, in coordination with Charlotte- Mecklenburg Storm Water Services	Local staff time	N/A	2021-2025

gh	Prevention	Storm Water Services Division, in coordination with Charlotte- Mecklenburg Storm Water	Local staff time	N/A	2021-2025
oderate	Public Education & Awareness	Storm Water Services Division, in coordination with Charlotte- Mecklenburg Storm Water Services, Charlotte Communications & Marketing and Mecklenburg County Public Information	Local staff time and resources	Storm Water Services budget	2021-2025
	Mitigation Category	Lead Agency / Department	Cost Estimate		Implementation Timeline
Priority				Potential Funding Source	
Moderate	Prevention	Storm Water Services Division	Local staff time and resources	Storm Water Services budget	2021-2025
Moderate	Property Protection	City of Charlotte	To be determined on a case- by-case basis	Local, State Grants, UHMA Grants, other federal grants	2021-2025
Moderate	Property Protection	City of Charlotte	To be determined on a case- by-case basis	Local, State Grants, UHMA Grants, other federal grants	2021-2025
Moderate	Emergency Services	City of Charlotte	To be determined on a case- by-case basis	Local, State Grants, UHMA Grants, other federal grants	2021-2025

Table 7.3 – Mitigation Action Plan, Town of Cornelius

1		Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementati Timeline
	Priority					

High	Structural Projects	Town of Cornelius Public Works Department	\$70,000	CMSWS funds	2020-2025
High	Emergency Services	Town of Cornelius Police Department and Public Works Department	\$0	N/A	2020-2025
High	Emergency Services	Town of Cornelius Police Department and Public Works Department	Staff time	N/A	2020-2025
High	Public Education & Awareness	Town of Cornelius Public Information Office	\$0	N/A	2020-2025
Moderate	Prevention	Town of Cornelius Planning Department	Staff time	N/A	2021-2022

Table 7.4 – Mitigation Action Plan, Town of Davidson

l & ctive essed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
	Moderate	Property Protection	Town of Davidson		Local, State Grants, UHMA Grants, other federal grants	2020-2025
	Moderate	Property Protection	Town of Davidson		Local, State Grants, UHMA Grants, other federal grants	2020-2025
	High	Prevention	Planning Department, Public Works Department, in coordination with CMEMO	Staff time	N/A	2020-2025

	Moderate	Prevention	Planning Department, Public Works Department	Staff time and resources	N/A	2020-2025
	Moderate	Public Education & Awareness	Planning Department, Public Works Department, in coordination with CMEMO	Staff time and resources	N/A	2020-2025
l & ctive ssed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
	Moderate	Public Education & Awareness	Planning Department, in coordination with CMEMO	Staff time and resources	N/A	2020-2025
	High	Prevention	Planning Department	Staff time and resources	N/A	2025

Table 7.5 – Mitigation Action Plan, Town of Huntersville

	Mitigation	Lead Agency /		Potential Funding	Implementation	
	Category	Department		Source	Timeline	
Priority			Cost Estimate			

Moderate	Property	Town of Huntersville	To be Determined	Local, State Grants,	2020-2025
	Protection		on a case-by- case	UHMA Grants, other	
			basis	federal grants	
High	Structural	Town of Huntersville	To be determined	CMSWS funds	2020-2025
	Projects	Public Works Department			
High	Emergency	Huntersville Police	\$0	N/A	2020-2025
	Services	Department			
High	Public Education	Town of Huntersville	\$0	N/A	2020-2025
	& Awareness	/HPD PIO	~		2020 2023
Moderate	Emergency	Town of Huntersville	\$0	N/A	2020-2025
	Services				

Table 7.6 – Mitigation Action Plan, Town of Matthews

ority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
erate	Emergency Services	Matthews Police and Fire	\$16,000	Town Funds, FEMA	5 years
	Prevention	Public Works in coordination with Planning GIS	\$10,000	Town Storm Water Fees	1 year
	Emergency Services	Fire Department	\$1,000 material, labor in house staff time	General Funds	5 years

erate	Property	Town of Matthews Public	TBD case by	Local, State Grants, UHMA	5 years
0.00	Protection	Works Department	case	Grants, other federal grants	7 5 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
				Grants, cancer reactar grants	
erate	Property	Town of Matthews Public	TBD case by	Local, State Grants, UHMA	5 years
0.000	Protection	Works Department	case	Grants, other federal grants	7 9 00.10
	Trotteetion	VVOIRS Department	cuse	Grants, other reactar grants	
	Prevention	Public Works in	Local staff time	N/A	3-5 years
		coordination with CMSWS			
	Mitigation	Lead Agency /	Cost	Potential Funding	Implementation
	Category	Department	Estimate	Source	Timeline
ority					
erate	Prevention	Public Works in	Local staff time	N/A	3-5 years
		coordination with CMSWS			

erate	Structural Projects	Public Works	\$500,000+	Bonds, power bill revenues, Army Corps project funding, Watershed Protection & flood protection funds, etc.	3-5 years
	Emergency Services	Matthews Fire & EMS	\$1,000 annually	General Fund	More than 5 years
	Prevention	Fire Department	Staff time and resources	N/A	More than 5 years
erate	Public Education & Awareness	Matthews PIO Office and Mecklenburg County	\$10,000	General tax revenues, FEMA Emergency Management Institute courses, FEMA and American Red Cross materials are free of charge, Hazard Mitigation Grant Program (HMGP), Department of Homeland Security— Citizenship Education and Training	1 year
ority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
erate	Emergency Services	Matthews Police / Matthews Emergency Management	\$10,000	General fund	1 year

Public Education	Matthews	\$5,000	General fund	2-3 years
& Awareness	Communications Director,	annually		
	Fire & EMS / Fire Corps			
 D	NAL	4450.000	0 11 11 15 1	2.5
Prevention	Matthews Public Works	\$150,000		3-5 years
			/ Storm water funds	
Emergency	Town of Matthews,	TBD	TBD	3-5 years
Services	Department TBD			

Table 7.7 – Mitigation Action Plan, Town of Mint Hill

I & ctive ssed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
	Moderate	Property Protection	Mecklenburg County Buildings and Inspections Department; Town of Mint Hill Emergency Services		Local, State Grants, UHMA grants, other federal grants	2025
	Moderate	Property Protection	Mecklenburg County Buildings and Inspections Department; Town of Mint Hill Emergency Services	To be determined on a case by case basis	Local, State Grants, UHMA grants, other federal grants	2025
	High	Prevention	Town of Mint Hill in coordination with CMSWS	Local staff time	Local	2020-2025

	Moderate	Prevention	Town of Mint Hill Public Works Department	\$20,000	Local	2025
	Moderate	Prevention	In coordination with CMSWS	\$5,000	N/A	2025
	Moderate	Prevention	Town of Mint Hill Voluntary Fire Department; in coordination with NCFS	\$5,000	NCDFR grants; FEMA PDM or HMGP	2025
I & ctive essed	Priority	Mitigation Category	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline
	Moderate	Public Education & Awareness	Town of Mint Hill in coordination with CMEMO (Lead)	Local staff time and resources	Local	2020-2025
	Moderate	Public Education & Awareness	Town of Mint Hill in coordination with CMEMO (Lead)	Local staff time and resources	Local	2020-2025
	High	Prevention	Town of Mint Hill Planning Department	Staff time and resources	Local	2025

Table 7.8 – Mitigation Action Plan, Town of Pineville

tigation egory	Lead Agency / Department	Cost Estimate	_	Implementation Timeline	2020 Status
erty ection	Town of Pineville	by-case basis	Local, State Grants, UHMA Grants, other federal grants	2020-2025	Carry Forward

erty	Town of Pineville	Determined on case	Local, State Grants, UHMA	2020-2025	Carry Forward
ction		by-case basis	Grants, other federal		,
			grants		
ention	Town of Pineville in	Local staff time	N/A	2020-2025	Carry Forward
	coordination with				
	CMSWS				
ention	Town of Pineville in	Local staff time	N/A	2025	Carry Forward
	coordination with				
	CMSWS				
tigation	Lead Agency /		Potential Funding	Implementation	2020
egory	Department		Source	Timeline	Status
		Cost Estimate			
c Education	Town of Pineville		Local budget	2020-2025	Carry Forward
/areness		Town of Pineville	J		,
		maintains a bi-			
		monthly newsletter			
		that can be used to			
		support this			
		action			
ention	Town of Pineville		Land Trust, Pre- Disaster	2020-2025	Carry Forward
		land	Mitigation (PDM)		
			program, Hazard		
			Mitigation Grant Program		
			(HMGP), Clean Water		
			Management Trust Fund		

ention	Planning and Zoning/Mecklenburg County LUESA	Staff time and resources	N/A	2020-2025	Carry Forward
ention	Mecklenburg County Storm Water Services, Public Works, GIS Department	Staff time and resources	NRCS—Watershed Protection and Flood Prevention Program, NRCS—Watershed Surveys and Planning, USACE— Floodplain Management Services, HMGP	2020-2025	Carry Forward
rgency	Police and Town Manager	TBD	FEMA—All Hazards Operational Planning, HMGP	2020-2025	Carry Forward
c Education rareness	In coordination with CMEMO (Lead)	Staff time and resources	N/A	2020-2025	Carry Forward
tigation egory	Lead Agency / Department	Cost Estimate	Potential Funding Source	Implementation Timeline	2020 Status
c Education rareness	In coordination with CMEMO (Lead)	Staff time and resources	N/A	2020-2025	Carry Forward
ention	Town Manager	Dependent on land values, existing ownership of property	Town budget	2020-2025	Carry Forward
gency	Police and Town Manager	\$100,000	FEMA—All Hazards Operational Planning,	2020-2025	Carry Forward

ention	Police	Staff time and	N/A	2020-2025	Carry Forward
	Department/NCDOT	resources			
	<u> </u>	ļ	ļ		

2020 Status	2020 Implementation Status Comments
Carry Forward	Identified specific locations for improvements. Retrofits not yet completed due to competing priorities.
Carry Forward	County revised floodplain ordinance in November 2018 following extensive review by stakeholder group, advisory council, and County attorney. Goal was to improve clarity, conform with state model ordinance, and adopt newly effective FIRM panels. Higher standards maintained.
Carry Forward	Mecklenburg County has maintained participation in the CRS and is currently a Class 6 community.
Carry Forward	Several FIRM panels were revised in 2018.
Carry Forward	In the interval since 2015 HMP update 61 flood-prone buildings have been acquired and demolished at a cost of \$16.8M (93% local / 7% federal) Two FMA grants awarded for structure elevation, budget shortfall prevented project implementation. Floodplain Stream Restoration grant application and Acquisition /Demolition grant application submitted under NCDEM HMGP DR-4393 (Florence), FEMA review
	(Florence), FEMA review pending
	Carry Forward Carry Forward Carry Forward Carry Forward Carry Forward

ion	2020 Status	2020 Implementation Status Comments
ars	New	Combination of 2010 actions #6 & #7.
	New	Implementation in progress. Combination of 2010 actions #10, #11, & #12 to align with an overall Program for Public Information.
	New	

2020 Status	2020 Implementation Status Comments
Carry Forward	Under development- Stormwater regulations will be incorporated in the Charlotte Unified Development Ordinance.
Carry Forward	Under development- These elements will be considered and incorporated in the Charlotte 2040 Comprehensive Plan.

Carry Forward	In Progress: A stakeholder group (made up of staff, advisory committee members, engineers, developers and environmental representatives) is evaluating and recommending changes to floodplain ordinances as part of the Physical Map Revision PMR3 that is effective November 16, 2018.
Carry Forward	Class 4 achieved and continuing participating.
2020 Status	2020 Implementation Status Comments
	the state of the s
Carry Forward	Planning staff will continue to seek American Planning Association (APA) related training in conjunction with American Institute of Certified Planners (AICP) Certification Maintenance (CM) credits. On April 12, 2019, we hosted a group viewing of the Principles for Preparing a Community's Disaster Recovery Plan webinar. The 2-hour course is sponsored by the APA Hazard Mitigation and Disaster Recovery Planning Division and eligible for 2 CM credits.

 - ·	Anna Lara a i
Carry Forward	All Hazards Advisory Committee
	(AHAC) Conference held
	11-14-19
 0 5 1	C 14/ 11 14/ 1
Carry Forward	Severe Weather Week occurred
	March 2020. Charlotte is a Storm
	Ready Community
2020	2020 Implementation Status
Status	Comments
Carry Forward	EM has conducted annual trainings
Carry Forward	Equipment evaluation is underway.
 _	
Carry Forward	Tabletop exercises (TTX) held in
	multiple hazard areas
Carry Forward	On-going ICS/NIMS training programs
	have been established.

Carry Forward	Coordinating with 83 rd Civil Affairs Battalion, US Army, in ongoing planning and
Carry Forward	All Hazards Advisory Committee (AHAC) Conference was held 11-14-19
Carry Forward	City zoning and planning provide ongoing outreach
New	
2020 Status	2020 Implementation Status Comments
New	
New	
New	
New	

	New	
	New	
	2020	2020 Implementation Status
	Status	Comments
	New	
	New	
_	New	
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_	New	
_		
_	New	

		2020
ion		Implementation
1011		Status Comments
	2020 Status	

Carry Forward	Public Works identifies, prioritizes, and implements improvements annually.
Carry Forward	No progress made due to limited staff availability and competing priorities.
New	
New	
New	

2020 Status	2020 Implementation Status Comments
Carry Forward	Added new generator to Fire Station #2. New monthly test/power transfer for town hall generator.
Carry Forward	New generator was installed at FS #2
Carry Forward	The Town has maintained compliance with the NFIP.

Carry Forward	Town has increased tree budget again and has completed another tree inventory. Started removals of most dangerous trees first. Continue tree pruning yearly. Hired a full time arborist on staff to manage inventory and create a canopy management plan.
Carry Forward	No progress made due to limited staff time and competing priorities.
2020 Status	2020 Implementation Status Comments
Carry Forward	No progress made due to limited staff time and competing priorities.
 ļ	
Carry Forward	A new comprehensive plan is currently in progress. Tree budget has increased and pruning/removals are continuing as needed.

	2020 Implementation Status Comments
2020 Status	

Carry Forward	No actions were needed in the last five years due to other priorities. The Town will continue to seek funding to equip new and/or existing Town- owned facilities with materials and technology that will improve resilience
New	to hazards.
New	
New	
New	

2020 Status	2020 Implementation Status Comments
Carry	Backup police communication ability
Forward	available at Fire Station 1, looking at
	moving the EOC to
_	Police HO
Carry	Continual update, mapping reviewed
Forward	annually and updated as new data is
	available.
Carry	In process as time and resources allow. Not
Forward	a priority since GIS Mapping provides same
	capability to identify flow.

Carry Forward	Resiliency will be assessed and retrofit will be evaluated as renovations take place and funding is made available.
Carry Forward	Critical facilities, PD, Fire, and PW now have generators. The need for emergency generators will be assessed as new town facilities are
Carry Forward	Partially Completed/In Progress. Continued compliance through planning ordinance; will continue to enforce. (See Section 7.)
2020 Status	2020 Implementation Status Comments
Carry Forward	Deferred. Intended to be a result of this 2020 Hazard Mitigation Plan update.

Partially Completed/In Progress. The Town has worked with CSX to have CSX complete an upgrade of the culvert under the railroad that caused flooding on Tank Town Road on a regular basis. VERY FEW FLOODING EVENTS SINCE CULVERT UPGRADE. The revised culvert is designed to handle the 50-year flood event. Now working with NCDOT to replace the Sam Newell Road culvert with bridge as part of the U-2509 widening project on US74. Construction scheduled to start 2024.
Completed and ongoing. Annual exercise of Town EOP and refresher NIMS training.
Ongoing annual hydrant maintenance program. All hydrants have been inspected and maintained annually. Flow testing every five years to comply with ISO.
Training has been conducted with staff using County and online resources. FireCorps Volunteers conducted basic CERT program every other year.
2020 Implementation Status Comments
Install additional phone and computer connections, install large display monitors to track incident status, weather, CAD, and resources. Provide breakout rooms for critical decision making, analysis, and planning. Provide for a greater degree of security. Fire Dept HQ will serve as an Operations Center and back-up for Police Communications Center.

New	
New	Grapple attachments for backhoe and skidsteer have been purchased and implemented.
New	

2020 Status	2020 Implementation Status Comments
Carried Forward	No progress made due to funding limitations. Resiliency will be assessed and retrofits will be evaluated as renovations take place and funding is
Carried Forward	Critical facilities, PD, Fire, PW and Town Hall now have generators. The need for more emergency generators will be assessed as new town Facilities are constructed.
Carried Forward	The Town has maintained compliance with NFIP.

Carried Forward	Critical facilities have been reevaluated on a yearly basis to identify any deficiencies.
Carried Forward	Mapping review completed annually. Updated as new data is available.
Carried Forward	This action is the responsibility of the NCFS. The Town of Mint Hill will continue to assist with this action as needed, however it is being monitored and maintained by NCFS.
2020 Status	2020 Implementation Status Comments
Carried Forward	No progress made due to limited staff and competing priorities.
Carried Forward	No progress made due to limited staff and competing priorities.

2020 Implementation Status Comments

In progress: Mecklenburg County retroFIT flood hazard mitigation grant program rolled out in FY16 project to identify and partially fund various mitigation projects using techniques such as floodproofing.

In Progress. Grants have not yet been applied for, but staff have been gathering information and quotes to be able to apply for a grant when we find one that is suitable.

In Progress: Municipal Ordinance Updates to City, County, and town floodplain ordinances completed as Flood Insurance Rate Map revisions become effective. Staff participated in FEMA/NCDEM training E273 "Managing Floodplain Development through the National Flood Insurance Program".

In Progress: Maintained programs to remain Class 6. Researched 2017 CRS manual to prepare for upcoming Annual CRS recertification.

2020 Implementation Status Comments

In Progress: Annual "Floodplain Flash" newsletter distributed by USPS in May 2015, 2016 & 2018

In Progress. The Mecklenburg County Flood Risk Assessment and Risk Reduction Tool (RARRT) is now used to guide local mitigation program actions. Flood risk scores, mitigation priority scores and planning level mitigation techniques were developed for all buildings with property touching the floodplain with updated floodplain maps.

This data is now used to develop and prioritize local mitigation efforts.

In Progress. Town maintains Zoning and Subdivision Ordinances to attain this goal. In process of developing a new Comprehensive Plan and updating the Zoning Ordinance.

Expected to be completed in next two years.

In Progress: Staff continues to require extensive studies for development projects within watersheds.

In Progress: Continue to coordinate with CMEMO on an ongoing basis.

In Progress: Through the Town of Pineville website and social media platforms provide notifications and links to preventing damage during hazardous conditions and also how to respond to imminent hazards as they arise.

2020 Implementation Status Comments

In Progress: CMEMO hosted April 2017 planning committee meeting CMSWS hosts May 2018 planning meeting for participating CRS jurisdictions. EM still responsible for hosting 2018 planning committee meetings for all jurisdictions.

Achieved/Ongoing. Belle Johnston Community Center can function as a safe site and any other current or future public facilities that qualify.

In progress: Additional stream stage sensors will be installed to provide more stream height data to be used in H&H model calibration and automated real-time flood

inundation manning

Completed/Ongoing. The Police Department has traffic control measures in place. The Town is currently working on re-aligning a traffic light for better and more efficient

traffic flow