

I. BEAUFORT COUNTY MITIGATION PROGRESS REPORT

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 Beaufort County Multi-Jurisdictional Hazard Mitigation Plan.

Strategy #1: Include hazard mitigation policies in all CAMA Land Use Plan Updates.

Progress: The Beaufort County CAMA Land Use Plan (Comprehensive Plan) was adopted and certified in January, 2010. Since that time, the plan has not been updated; however, the county will continue to consider mitigation practices and policies through plan updates.

Status/Corresponding 2015 Strategy: B1

Strategy #2: Coordinate all development/planning decisions with review of appropriate CAMA LUP's, including stated redevelopment policies and actions.

Progress: The Beaufort County CAMA Land Use Plan (Comprehensive Plan) was adopted and certified in January, 2010. Since that time, the plan has not been updated; however, the county will continue to consider mitigation practices and policies through plan updates.

Status/Corresponding 2015 Strategy: B2

Strategy #3: Revise local development ordinances to encourage shoreline vegetation protection to help mitigate flooding.

Progress: This strategy has not been carried out. Belhaven and Washington have opted to rely on state regulations for managing shoreline vegetation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #4: Review "Firewise" zoning and subdivision ordinance standards and report on their appropriateness for incorporation into the existing zoning and subdivision ordinances.

Progress: The county as well as participating jurisdictions have not implementing firewise zoning and subdivision standards. The MAC has decided to eliminate this as a strategy.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #5: Provide information to the general public as to how best to sight a fire, including early fire detection, and how to report it to the appropriate agency.

Progress: This strategy was never carried out due to its broad reach and general nature. This issue is covered through a range of ongoing EM efforts.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #6: Maintain reciprocal mutual aid agreements with surrounding communities for fire protection and emergency response.

Progress: Beaufort County as well as participating jurisdictions continue to maintain mutual aid agreements.

Status/Corresponding 2015 Strategy: B3

Strategy #7: Evaluate adequacy of existing local fire/EMS/police staff and equipment to respond according to current Emergency Operations Plan parameters, and improve equipment and staff training/response capability as funding allows.

Progress: It was determined through MAC discussions that this issue is adequately covered through annual EOP updates and yearly budget discussions.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #8: Evaluate adequacy of existing local early warning and emergency response communications equipment, and prepare annual capital improvements plans to improve early warning and communication effectiveness before, during, and following disaster events.

Progress: Beaufort County maintains a Code Red emergency notification system. The county will continue to operate and promote this system.

Status/Corresponding 2015 Strategy: B4

Strategy #9: Implement an emergency notification software/hardware system to provide immediate notification to businesses, residences, and critical facilities of impending natural or man-made incidents/disasters.

Progress: Beaufort County maintains a Code Red emergency notification system. The county will continue to operate and promote this system.

Status/Corresponding 2015 Strategy: B4

Strategy #10: Develop standard protocols for training/certification of volunteer staff for shelter management, traffic control, first aid, etc., to improve volunteer response capability during and following disaster events, including coordination with ARC personnel.

Progress: Beaufort County maintains several Community Emergency Response Teams. The county will continue to actively seek qualified volunteers.

Status/Corresponding 2015 Strategy: B5

Strategy #11: Complete an annual evaluation of each designated emergency shelter, including structural inspection, resource inventory, staffing plan, and vulnerability assessment, including coordination with ARC personnel.

Progress: Beaufort County EM evaluates all shelters in conjunction with annual EOP updates. The county will continue this practice.

Status/Corresponding 2015 Strategy: B6

Strategy #12: Maintain information on county and local websites concerning location of approved shelter facilities and to ensure citizens that shelter facilities are the safest option in a major disaster event.

Progress: Beaufort County EM maintains a range of materials on the county website, including this plan. The county will continue this practice.

Status/Corresponding 2015 Strategy: B7

Strategy #13: Meet annually with owners/managers of healthcare facilities and nursing homes to review evacuation plans, disaster staffing plans, emergency power capacity, etc.

Progress: Beaufort County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: B13

Strategy #14: Identify alternate detour routes from major evacuation arteries in the county.

Progress: This strategy has not been accomplished and the MAC has decided to eliminate it and handle it through the county's EOP.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #15: Provide citizens and visitors with maps of evacuation routes which will facilitate the evacuation of the county in case of a hazardous event.

Progress: Beaufort County maintains procedures for dissemination of this information through the county EOP. The county will continue this practice.

Status/Corresponding 2015 Strategy: B8

Strategy #16: Provide information as to the policies and procedures for bridge closure and reopening policies which will facilitate the evacuation and re-entry to municipalities and isolated areas of the county in case of a hazardous event.

Progress: Beaufort County maintains procedures for dissemination of this information through the county EOP. The county will continue this practice.

Status/Corresponding 2015 Strategy: B8

Strategy #17: Continue to ensure adequate evacuation warning in case of major hazard event.

Progress: Beaufort County maintains procedures for dissemination of this information through the county EOP. The county will continue this practice.

Status/Corresponding 2015 Strategy: B9

Strategy #18: Continue to monitor and establish programs to maintain continuity of government operations.

Progress: Beaufort County maintains a continuity of operations plan (COOP). The county will continue this process and procedure.

Status/Corresponding 2015 Strategy: B10

Strategy #19: Continuously maintain the Beaufort County Emergency Operations Plan and convene semi-annual Beaufort County Emergency Operations Center exercises to test the functionality of the Emergency Operations Plan.

Progress: Beaufort County reviews, maintains, and updates the county EOP on an annual basis. This practice will be maintained.

Status/Corresponding 2015 Strategy: B11

Strategy #20: Continue to apply for grant funds, allocate local funding, and work with local electric service providers to procure and maintain back-up generators/transfer switches for all critical public facilities, with an emphasis on emergency services facilities, critical water/sewer facilities, and shelter facilities. Evaluate the equipment on a regular basis to assure it continues to meet the needs of the operations occurring at each facility.

Progress: Since certification of the 2010 plan, Beaufort County has treated several units through the HMGP program. The county will continue to proactively utilize this program.

Status/Corresponding 2015 Strategy: B12

Strategy #21: Hold an annual public hazard mitigation meeting, attended by the MAC and participating jurisdictions to educate the public and elected officials and receive comments about the location of high risk facilities/development, the jurisdictions' overall vulnerability to natural and man-made hazards, and the jurisdictions' hazard mitigation efforts.

Progress: Beaufort County hosts an annual EM open house to address a range of issues including those listed above. The county will continue this practice.

Status/Corresponding 2015 Strategy: B13

Strategy #22: Maintain the Hazard Mitigation Advisory Committee (MAC) and hold semi-annual MAC meetings to continue relationship-building and communicate about mitigation measures taking place throughout the community.

Progress: Beaufort County maintains its MAC in an effort to maximize the benefits of the HMGP program. The MAC meets at least once annually.

Status/Corresponding 2015 Strategy: B14

Strategy #23: Work on the five-year implementation of the plan. At the end of this five-year period, the county will undertake efforts to update this plan including the following ten (10) planning steps: (1) Organize to prepare the plan; (2) Involve the public; (3) Coordinate with other agencies; (4) Assess the hazard; (5) Assess the problem; (6) Set goals; (7) Review possible activities; (8) Draft an action plan; (9) Adopt the plan; and (10) Implement, evaluate, and revise.

Progress: Beaufort County maintains its MAC in an effort to maximize the benefits of the HMGP program. The MAC meets at least once annually.

Status/Corresponding 2015 Strategy: B14

Strategy #24: Coordinate Beaufort County Emergency Operations and Recovery planning with the Eastern Regional Advisory Committee Medical Response Plan.

Progress: It was determined through MAC discussions that this issue is adequately covered through annual EOP updates and yearly budget discussions.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #25: Maintain continual contact/working relationship with electric service providers in the county to address the following: (1) Disaster preparedness techniques (e.g., tree trimming, vegetation planting requirements, pole replacement); (2) Identification of critical electrical facilities needing retrofit or upgrade and map with elevation reference marks; (3) Identification of problem areas and potential solutions; and (4) Communication with county officials during and immediately after a natural hazard event that results in loss of electrical power.

Progress: Beaufort County meets annually with electric service providers operating throughout the county.

Status/Corresponding 2015 Strategy: B16

Strategy #26: Monitor trees and vegetation on publicly-owned property to assure that no property or utility damage will occur as a result of diseased or dying trees or other vegetation.

Progress: This strategy is carried out by the county's municipal public works departments. The county also relies on electric service providers within the county.

Status/Corresponding 2015 Strategy: B17

Strategy #27: Continue to maintain all property acquired with public mitigation funds within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.

Progress: Since certification of the 2010 plan, Beaufort County has acquired several units through the HMGP program. The properties are maintained as open space. This practice will continue.

Status/Corresponding 2015 Strategy: B18

Strategy #28: Integrate new greenway and public park improvements into comprehensive planning and capital improvement efforts (including coordination with all local certified CAMA Land Use Plans).

Progress: The Beaufort County CAMA Land Use Plan (Comprehensive Plan) was adopted and certified in January, 2010. Since that time, the plan has not been updated; however, the county will continue to consider mitigation practices and policies through plan updates.

Status/Corresponding 2015 Strategy: B19

Strategy #29: Annually review local floodplain ordinances to provide improved flood protection standards and require freeboard for retrofitting and new construction as required by NC State Building Code.

Progress: Beaufort County has and continues to maintain an updated Flood Damage Prevention Ordinance. The county, in conjunction with participating jurisdictions, review and update this ordinance annually.

Status/Corresponding 2015 Strategy: B20

Strategy #30: Maintain and improve the capabilities of local Geographic Information (GIS) Systems with respect to risk mapping and the availability of flood hazard data and other hazard information to the public.

Progress: Beaufort County maintains a comprehensive GIS program including all data layers included in this plan. This practice will be continued.

Status/Corresponding 2015 Strategy: B21

Strategy #31: Continue to require a finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) in both incorporated and unincorporated portions of the county. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate. All elevation certificates shall be kept on file by the county or municipality (new buildings).

Progress: Beaufort County as well as participating jurisdictions maintain all elevation certificates in coordination with the NFIP. This practice will be continued.

Status/Corresponding 2015 Strategy: B22

Strategy #32: Continue to comply with North Carolina state coastal stormwater regulations.

Progress: This strategy has been eliminated because the MAC feels these issues are adequately addressed by state regulatory agencies.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #33: Maintain current listing of Repetitive Loss Properties and conduct annual outreach activities to encourage homeowners to participate in FEMA-sponsored residential acquisition and elevation programs; continue to apply for HMGP/HMA funding for residential acquisition and elevation.

Progress: This list is maintained annually and is utilized for the preparation of HMGP applications. The county will continue this practice.

Status/Corresponding 2015 Strategy: B23

Strategy #34: Encourage Beaufort County Commissioners and elected officials of non-CRS communities to participate in the Community Rating System.

Progress: Beaufort County EM continues to encourage the County Board of Commissioners to establish participation in this program. EM will continue these efforts.

Status/Corresponding 2015 Strategy: B24

Strategy #35: Maintain a map information service involving the following: (1) Provide information relating to Flood Insurance Rate Maps (FIRM) to all inquirers, including providing of information on whether a given property is located within a flood hazard; (2) Provide information regarding the flood insurance purchase requirement; (3) Maintain historical and current FIRMs; (4) Advertise once annually in the local newspaper the availability of FIRMs; and (5) Provide information to inquirers about local floodplain management requirements (all buildings).

Progress: Beaufort County maintains this service through its existing GIS department. This practice will continue.

Status/Corresponding 2015 Strategy: B25

Strategy #36: Provide information on County/City/Town websites informing the public where they can obtain information about heir property's location with respect to the special flood hazard area, and where they can obtain information about the incidence of flood events and losses incurred during historic flood events.

Progress: Beaufort County as well as the municipalities (which have websites) provide information about services and information available regarding this issue. This practice will continue.

Status/Corresponding 2015 Strategy: B26

Strategy #37: Continue to work with local real estate agencies to ensure that agents are informing clients when property for sale is located within a SFHA. The county will provide these agencies with brochures documenting the concerns relating to development located within the floodprone areas and ways that homeowners may make their home more disaster resistant to strong winds, lightning, and heavy rains (all buildings).

Progress: Beaufort County jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: B27

Strategy #38: Make information regarding hazards and development regulations within floodplains available through the following: (1) Ensure that local libraries maintain information relating to flooding and flood protection; (2) Provide a link on the municipal website to FEMA resources addressing flooding and flood protection, evacuation procedures, disaster preparedness, and post-disaster recovery; and (3) Provide website links to relevant hazard mitigation websites.

Progress: Beaufort County jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: B28

Strategy #39: Promote national “awareness” weeks (i.e., hurricane preparedness, severe weather preparedness, etc.) through local media. (“Awareness” weeks are listed on the National Weather Service website at <http://www.nws.noaa.gov/os/severeweather/severewxcal.shtml>).

Progress: Beaufort County EM works diligently to promote awareness campaigns. This practice will continue.

Status/Corresponding 2015 Strategy: B29

Strategy #40: Develop and distribute informational brochures on tornadoes and the signs of severe thunderstorms.

Progress: This strategy has not been completed and the MAC has decided to eliminate due to budgetary constraints.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #41: Educate the general public of the importance of weather alert radios and systems that can operate on alternative power and can provide up-to-the-moment information regarding locations of severe storms and possible tornadoes.

Progress: Beaufort County continues to maintain this practice. The county has distributed weather radios since certification of the 2010 plan. The county will continue this practice.

Status/Corresponding 2015 Strategy: B30

Strategy #42: Maintain a Hazardous Materials Action Plan that addresses the proper containment of spills, etc.

Progress: The county has an adopted Hazardous Materials Action Plan. The county will continue to maintain this plan.

Status/Corresponding 2015 Strategy: B31

Strategy #43: Continue to support of NC Office of Dam Safety's efforts to monitor and inspect all dams throughout the state. The county will rely on this agency to ensure that all upstream dam facilities, both public and private, are properly maintained and stable.

Progress: Beaufort County jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: B32

Strategy #44: Continue to inventory and map Beaufort County's significant man-made hazards and coordinate reporting requirements, monitoring, and emergency response in accordance with the county's Emergency Operations Plan.

Progress: Beaufort County works in concert with the county LEPC to address this issue. This is also covered under the county's EOP. The data is maintained through the county GIS department.

Status/Corresponding 2015 Strategy: B33

Strategy #45: Provide manufactured home vendors, lenders, and buyers with information on proper construction, installation, and foundation specifications in accordance with appropriate HUD/FHA/FEMA and NC Department of Insurance requirements; provide information to the public related to wind-resistant construction methods.

Progress: This process is addressed through the county's inspections department. This practice will be maintained.

Status/Corresponding 2015 Strategy: B34

Strategy #46: Monitor natural and man-made drainage structures to ensure they are clear and functioning properly; prioritize needed drainage projects and review funding alternatives annually.

Progress: This practice is carried out by the jurisdictions operating municipal stormwater systems. The strategy has been revised to reflect this fact.

Status/Corresponding 2015 Strategy: B35

Strategy #47: Ensure that private roads are clear and that access by emergency vehicles is unimpeded.

Progress: This strategy has been eliminated due to the fact that the county does not have the resources to address this issue.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #48: Improve monitoring of hazardous material transport at Norfolk Southern Railroad railyard facility near Chocowinity; improve communication with railroad officials and public information efforts related to this activity.

Progress: Beaufort County carries out this effort through coordination with the county LEPC. This practice will continue.

Status/Corresponding 2015 Strategy: B36

Strategy #49: Improve monitoring of hazardous material manufacturing, storage, and transport at PotashCorp facility and associated Norfolk Southern Railroad operations near Aurora; improve communication with corporate and railroad officials and public information efforts related to this activity.

Progress: Beaufort County carries out this effort through coordination with the county LEPC. This practice will continue.

Status/Corresponding 2015 Strategy: B37

Strategy #50: Work with citizen representatives and PotashCorp personnel to assess and improve emergency response procedures and specific mitigation actions related to the possible release of hazardous materials at the PotashCorp facility near Aurora.

Progress: Beaufort County carries out this effort through coordination with the county LEPC. This practice will continue.

Status/Corresponding 2015 Strategy: B38

II. CARTERET COUNTY MITIGATION PROGRESS REPORT

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 Carteret County Multi-Jurisdictional Hazard Mitigation Plan.

Strategy #1: Improve shelter capacities with alternate power/heat/air conditioning sources.

Progress: Carteret County has installed several back-up generators since adoption of this plan. This strategy has been revised and expanded through this update.

Status/Corresponding 2015 Strategy: CA1

Strategy #2: In concert with the American Red Cross (ARC), maintain an annually updated list of all ARC approved shelters.

Progress: Carteret County EM has worked with the American Red Cross through several shelter activations since adoption of the 2010 plan. This strategy has been revised and expanded through this update.

Status/Corresponding 2015 Strategy: CA1

Strategy #3: Continually maintain on the county's website instructional information on ensuring that on-site sheltering is as safe an option as possible.

Progress: Carteret County has and continues to maintain shelter information on the county website.

Status/Corresponding 2015 Strategy: CA1

Strategy #4: Identify alternate detour routes from major evacuation arteries in the county.

Progress: Carteret County has not carried out this task since the 2010 update. The strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA2

Strategy #5: Have available to citizens and visitors, maps of evacuation routes which will facilitate the evacuation of the county in case of a hazardous event.

Progress: Carteret County has and continues to make this information available through several avenues. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA2

Strategy #6: Provide information as to the policies and procedures for bridge closure and reopening policies which will facilitate the evacuation and re-entry to municipalities and isolated areas of the county, in case of a hazardous event.

Progress: Carteret County has and continues to make this information available through several avenues. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA2

Strategy #7: Continue to ensure adequate evacuation warning in case of major hazard event.

Progress: Carteret County has, and continues to make this information available through several avenues. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA2

Strategy #8: Continue to monitor and establish programs to maintain continuity of government operations.

Progress: The county has maintained the county's continuity of government operations since adoption of the 2010 plan. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA3

Strategy #9: Continue to identify alternate Emergency Operations Center (EOC) locations.

Progress: This strategy has been completed. The county established the new location; this effort also involved the location of a new E911 location.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #10: Continuously maintain the Carteret County Emergency Operations Response Plan.

Progress: Carteret County has and continues to update the county's EOP on an annual basis. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA4

Strategy #11: Develop a plan for consolidated E-911 dispatch center and an EOC located outside of floodplain.

Progress: This strategy has been completed. The county established an EOC at a new location; this effort also involved the location of a new E911 location.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #12: Continue to procure and maintain back-up generators for all critical public facilities, with an emphasis on Environmental Health. Evaluate the equipment on a regular basis to assure it continues to meet the needs of the operations occurring at each facility.

Progress: Carteret County has installed several back-up generators at the following locations since adoption of the 2010 plan. This strategy continues to be a priority for the county.

Status/Corresponding 2015 Strategy: CA5

Strategy #13: Maintain a contract with a qualified post-disaster recovery service provider. This contract will include the provision of essential services and equipment, including generators, and will include documentation required for reimbursement from FEMA/NCEM.

Progress: Carteret County as well as participating jurisdictions have maintained a contract with a post-disaster recovery service provider since adoption of the 2010 plan. This strategy has been revised to more accurately define the county's intention.

Status/Corresponding 2015 Strategy: CA6

Strategy #14: Hold an annual public hazard mitigation meeting attended by the MAC and participating jurisdictions, to educate the public and elected officials and receive comments about the location of high risk facilities/development, the jurisdictions' overall vulnerability to natural and man-made hazards, and the jurisdictions' hazard mitigation efforts.

Progress: Over the course of the last five years, Carteret County as well as participating jurisdictions have not formally conducted mitigation public input meetings. In order to address CRS requirements, Beaufort and Morehead City have held mitigation forums.

Status/Corresponding 2015 Strategy: CA7

Strategy #15: Maintain the Hazard Mitigation Advisory Committee (MAC) to continue relationship-building and keep updated on mitigation measures taking place throughout the community.

Progress: In addition to the duties of the regional MAC defined in this plan, each participating county will be required to maintain their own respective MACs. The MACs have been maintained since the 2010 update.

Status/Corresponding 2015 Strategy: CA8

Strategy #16: Continue to familiarize local public officials with the principles and practices of emergency management and emergency operations.

Progress: Over the course of the last five years, Carteret County as well as participating jurisdictions have not formally conducted mitigation public input meetings. In order to address CRS requirements, Beaufort and Morehead City have held mitigation forums.

Status/Corresponding 2015 Strategy: CA7

Strategy #17: Continue to rely on the Carteret County Emergency Operations Plan (EOP) for effective disaster event communication.

Progress: Carteret County has and continues to update the county's EOP on an annual basis. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA4

Strategy #18: Work on the five-year implementation of the plan. At the end of this five-year period, the county will undertake efforts to update this plan including the following ten (10) planning steps: (1) Organize to prepare the plan; (2) Involve the public; (3) Coordinate with other agencies; (4) Assess the hazard; (5) Assess the problem; (6) Set goals; (7) Review possible activities; (8) Draft an action plan; (9) Adopt the plan; and (10) Implement, evaluate, and revise.

Progress: Carteret County in conjunction with Beaufort and Morehead City (previously independent) are working towards their respective plans fire year update. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA9

Strategy #19: Coordinate Carteret County Emergency Operations and Recovery planning with the Eastern Regional Advisory Committee Medical Response Plan.

Progress: Carteret County has addressed collaboration with ERAC through updates of the county's EOP.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #20: Maintain the Emergency Services Department WebEOC, a management system that allows utilities to post information and outages on a website. Continue training for officials regarding the use of the program. This includes the Planning Department compiling a list (address, PIN, etc.) after a storm of what was disconnected and following up on it.

Progress: Carteret County has maintained a proprietary WebEOC portal since the 2010 update. This strategy will be continued through this update; however, the strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA10

Strategy #21: Continue to attend the Hurricane Preparedness Expo conducted by Progress Energy annually. This expo assists the community in preparing for the effects of severe weather, and provides the preliminary planning steps required for effective post-disaster recovery.

Progress: Carteret County has maintained attendance at all annual preparation meetings regarding safeguard of the county's electrical system. This strategy has been revised to address all utility providers in the county.

Status/Corresponding 2015 Strategy: CA11

Strategy #22: Maintain a representative of the public electric authorities on the MAC.

Progress: This strategy has been eliminated by the MAC. The county has determined that this issue is covered through various avenues.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #23: Maintain continual contact/working relationship with electric service providers in the County to address the following: (1) Disaster preparedness techniques (e.g., tree trimming, vegetation planting requirements, pole replacement); (2) Identification of critical electrical facilities needing retrofit or upgrade and map with elevation reference marks; (3) Identification of problem areas and potential

solutions; and (4) Communication with County officials during and immediately after a natural hazard event that results in loss of electrical power.

Progress: Carteret County has maintained attendance at all annual preparation meetings regarding safeguard of the county's electrical system. This strategy has been revised to address all utility providers in the county.

Status/Corresponding 2015 Strategy: CA11

Strategy #24: The municipalities will review local ordinances to require electric utilities and cable lines to be installed underground.

Progress: This strategy has not been carried out; however, Beaufort and Morehead City are still considering this issue.

Status/Corresponding 2015 Strategy: Under consideration

Strategy #25: Monitor trees and vegetation on publicly-owned property to assure that no property or utility damage will occur as a result of diseased or dying trees or other vegetation.

Progress: Carteret County has maintained attendance at all annual preparation meetings regarding safeguard of the county's electrical system. This strategy has been revised to address all utility providers in the county.

Status/Corresponding 2015 Strategy: CA11

Strategy #26: Continue to review wetlands maps for possible updates.

Progress: Carteret County has established wetland maps through the National Wetlands Inventory (NWI).

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #27: Continue annually reviewing and revising development ordinances to encourage shoreline vegetation along marshes and other Areas of Environmental Concern (AEC's).

Progress: This strategy has not been carried out. All jurisdictions have opted to rely on state regulations for managing shoreline vegetation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #28: Continue to maintain all property acquired within the Special Flood Hazard Area (SFHA) as undisturbed open space in perpetuity. Continue to pro-actively establish open space within the floodplain and floodway as grant funds become available to carry out this initiative.

Progress: Carteret County as well as participating jurisdictions have and will continue to maintain these parcels as open space.

Status/Corresponding 2015 Strategy: CA12

Strategy #29: Integrate new greenway and public park improvements into comprehensive planning and capital improvement efforts (including coordination with all local certified CAMA Land Use Plans).

Progress: The county as well as participating jurisdictions continue to utilize information in this plan when conducting planning activities. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA13

Strategy #30: Provide annual review of development restrictions in floodplain areas and maintain initiatives to ensure limited residential and commercial development in the floodplain and protection of critical facilities. Specifically address soil testing for engineered foundations, minimum lot size, critical facility protection, manufactured home park requirements including anchoring and elevation, and freeboard requirements (all buildings).

Progress: Carteret County as well as participating jurisdictions review development regulations annually. This strategy has been removed due to the fact that it is covered under other strategies.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #31: Continue to support limiting public services for new structures that will be located in 100-year floodplain areas (all buildings).

Progress: This strategy has been eliminated as the MAC has determined that jurisdictional FDPOs adequately address this issue.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #32: Maintain reciprocal mutual aid agreements with surrounding communities for fire protection.

Progress: Carteret County in conjunction with participating jurisdictions maintain ongoing mutual aid agreements to address a range of public safety issues.

Status/Corresponding 2015 Strategy: CA14

Strategy #33: Continue the preventive maintenance efforts to ensure the fire hydrants and equipment are working properly.

Progress: Carteret County as well as participating jurisdictions maintain and inspect all hydrants and equipment on an annual basis. This item is addressed through various EM policies and procedures.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #34: Map all areas in proximity to National Forest Areas including types of land use and construction.

Progress: Carteret County in conjunction with the state of North Carolina have worked to establish a comprehensive GIS system including all data layers defined in this plan.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #35: Evaluate and improve information to the general public as to how best to sight a fire, including early fire detection, and how to report it to the appropriate agency.

Progress: Carteret County EM and partnering fire stations as well as the NC Forestry Division provide education on sighting and response. The MAC has determined that these efforts are adequate and, therefore, eliminated this strategy.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #36: Annually review the Floodplain Ordinances to provide improved flood protection standards.

Progress: Carteret County as well as participating jurisdictions review and update their respective FDPOs at a minimum annually, but also in the event of NCEM or FEMA mandated revisions.

Status/Corresponding 2015 Strategy: CA15

Strategy #37: Damage Assessments – Flood Damaged Structures. Any and all portions of buildings that have been submerged for any length of time will be inspected for flood-related damage, as well as other conditions that may be dangerous to life, health, or other property (existing buildings).

Progress: This strategy was determined to be unclear and vague; therefore, it was been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #38: Continually maintain and update the County's Geographic Information System (GIS).

Progress: Carteret County in conjunction with the state of North Carolina have worked to establish a comprehensive GIS system including all data layers defined in this plan.

Status/Corresponding 2015 Strategy: CA16

Strategy #39: Continue to require a finished floor elevation certificate for all development within the Special Flood Hazard Area (SFHA) within both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined SFHA without the submittal of the required elevation certificate. All elevation certificates shall be kept on file by the County or municipality (new buildings).

Progress: Carteret County as well as all participating CRS communities have and continue to require and maintain elevation certificates for all structures developed in the flood hazard area.

Status/Corresponding 2015 Strategy: CA17

Strategy #40: Continue to comply with North Carolina state coastal stormwater regulations.

Progress: This strategy has not been carried out. All jurisdictions have opted to rely on state regulations for managing shoreline vegetation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #41: At the local government staff level, work with the North Carolina Department of Transportation (NCDOT) and the Regional Planning Organization to identify drainage problem areas and develop resolutions for drainage issues created by NCDOT facilities, including inspections of channels, retention basins, and, as needed, pursue debris removal.

Progress: The county MAC determined that DOT adequately addresses state-owned roads throughout the county. This strategy has been revised to reflect issues for jurisdictions who maintain roads and streets.

Status/Corresponding 2015 Strategy: TBC

Strategy #42: Continue to encourage utilization of alternatives to impervious surfaces in all projects.

Progress: The county as well as participating jurisdictions have encouraged contractors to use Best Management Practices as defined by the NCDENR stormwater branch.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #43: Continue to maintain a list of repetitive flood loss properties (existing buildings).

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA19

Strategy #44: Continually maintain participation in the National Flood Insurance Program (NFIP) (all buildings).

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA16

Strategy #45: Establish and maintain reconstruction policies that include procedures for issuance of building permits after a natural disaster (all buildings).

Progress: All jurisdictions participating in this plan have developed some guidelines for redevelopment. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA18

Strategy #46: Adopt and annually update a capital improvement plan with an emphasis on mitigation for critical facilities including relocation and retrofitting. (NOTE: Subject to funding availability).

Progress: Carteret County has not historically maintained a CIP and has not adopted one since certification of the 2010 plan. This strategy has been eliminated to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #47: Apply for all available funding from the Hazard Mitigation Grant Program (HMGP) and funds to assist with the mitigation of severe repetitive loss properties to relocate structures out of the floodplain (existing buildings).

Progress: Since adoption of the 2010 plan, several units have been treated through the HMGP program. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA12

Strategy #48: Establish local and regional partnerships to identify funding sources for natural hazard mitigation activities and seek funding.

Progress: Since adoption of the 2010 plan, several units have been treated through the HMGP program. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CA12

Strategy #49: Support participation in the Community Rating System (CRS) Program (all buildings).

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA19

Strategy #50: Maintain a map information service involving the following: (1) Provide information relating to Flood Insurance Rate Maps (FIRM) to all inquirers, including a provision of information on whether a given property is located within a flood hazard area; (2) Provide information regarding the flood insurance purchase requirement; (3) Maintain historical and current FIRMs; (4) Advertise once annually in the local newspaper the availability of FIRMs; and (5) Provide information to inquirers about local floodplain management requirements (all buildings).

Progress: *Progress:* Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA20

Strategy #51: Annually mail a notice to all property owners whose land is located within a SFHA. This notice should clearly state that the recipient's property is susceptible to flooding and provide information pertinent to emergency evacuation and post-disaster recovery.

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA21

Strategy #52: Continue to work with local real estate agencies to ensure that agents are informing clients when property for sale is located within a SFHA. The County will provide these agencies with brochures documenting the concerns relating to development located within the floodprone areas and ways that homeowners may make their home more disaster resistant to strong winds, lightning, and heavy rains (all buildings).

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA22

Strategy #53: Make information regarding hazards and development regulations within floodplains available through the following: (1) Ensure that the local library maintains information relating to flooding and flood protection; (2) The County will provide a link on the County website to FEMA resources addressing flooding and flood protection; (3) All participating municipalities will provide a link on the municipalities' website to FEMA resources addressing flooding and flood protection, evacuation procedures, disaster preparedness, and post-disaster recovery; and (4) Provide website links to relevant hazard mitigation websites.

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA23

Strategy #54: Maintain a comprehensive Geographic Information System (GIS) with current FIRM panels in an effort to make this information readily available to County citizens. In addition to this digital data, bound copies of all historical and current FIRM panels will be maintained within the Carteret County Planning Department.

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA16

Strategy #55: Coordinate with the Carteret County School System Hazards Awareness Educational Programs for use by educators within the Carteret County School System.

Progress: This campaign is no longer in existence; however, alternative outreach methods have been established.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #56: Promote national “awareness” weeks (i.e., hurricane preparedness, severe weather preparedness, etc.) through local media, (“Awareness” weeks are listed on the National Weather Service website at <http://www.nws.noaa.gov/os/severeweather/severewxcal.shtml>).

Progress: This campaign is no longer in existence; however, alternative outreach methods have been established.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #57: Develop and distribute informational brochures on tornadoes, waterspouts, and the signs of severe thunderstorms.

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA23

Strategy #58: Educate the general public to the importance of weather alert radios and systems that can operate on alternative power and can provide up-to-the-moment information regarding locations of severe storms and possible tornadoes.

Progress: Since certification of the 2010 plan, the county has maintained a widespread campaign regarding this issue. The county intends to continue these efforts.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #59: Prepare a Hazardous Material Action Plan that addresses the proper containment of spills, etc.

Progress: This strategy was not accomplished under this update; however, it has been carried forward in this update.

Status/Corresponding 2015 Strategy: CA29

Strategy #60: Continue to support the NC Office of Dam Safety's efforts to monitor and inspect all dams throughout the state. The County will rely on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.

Progress: Carteret County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CA25

Strategy #61: Identify and map Carteret County's significant man-made hazards and coordinate response with the County's Emergency Operations Plan.

Progress: This strategy has been completed and is maintained through annual updates.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #62: Maintain dialogue with Michael S. Smith Airport Authority to effectively regulate land use as the County continues to grow and encroach upon the airport environs.

Progress: Carteret County has established zoning regulations and land use policies regarding land adjacent to the airport or other areas affecting air space in relation to aircraft. The county continues to review and maintain regulations.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #63: Maintain dialogue with US Marine Corps and Department of Defense for the Bogue and Atlantic Airfields to effectively regulate land use as the County continues to grow and encroach upon the airport environs.

Progress: Carteret County has established zoning regulations and land use policies regarding land adjacent to the airport or other areas affecting air space in relation to aircraft. The county continues to review and maintain regulations.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #64: Continue to enforce the International Building Code, to include requiring that new structures or structures undergoing significant renovation (renovations or expansion exceeding 50% of fair market value) meet code requirements including wind-related risks (all buildings).

Progress: Carteret County as well as participating jurisdictions have maintained enforcement of the IBC and in turn the NC State Building Code since certification of the 2010 plan.

Status/Corresponding 2015 Strategy: CA30

Strategy #65: Include hazard mitigation policies in all CAMA Land Use Plan Updates.

Progress: Carteret County and the participating jurisdictions all maintain land use plans adopted prior to certification of the 2010 plan. All jurisdictions continue to consider this document during plan updates.

Status/Corresponding 2015 Strategy: CA28

Strategy #66: Continually coordinate all development/planning decisions with the County and municipal-certified CAMA Land Use Plans including stated redevelopment policies and actions.

Progress: Carteret County and the participating jurisdictions all maintain land use plans adopted prior to certification of the 2010 plan. All jurisdictions continue to consider this document during plan updates.

Status/Corresponding 2015 Strategy: CA28

Strategy #67: Revise local development ordinances to encourage and incorporate shoreline vegetation protection along the AEC's in order to protect character and to help mitigate flooding.

Progress: This strategy has not been carried out. All jurisdictions have opted to rely on state regulations for managing shoreline vegetation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #68: Revise the development ordinances to encourage and incorporate sand fencing along the oceanfront lots to promote dune replenishment and establishment.

Progress: This strategy has not been carried out. All jurisdictions have opted to rely on state regulations for managing shoreline vegetation.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #69: Continue to coordinate with the County Public Works Department, as well as all municipalities, regarding the monitoring of water resources. When necessary, the County will institute measures to conserve water resources according to the county's Drought Management Plan.

Progress: Carteret County Emergency Management in collaboration with communities operating water systems have and will continue to enforce standards defined in the respective jurisdiction's Drought Management Plan.

Status/Corresponding 2015 Strategy: CA26

Strategy #70: Continue to maintain water shortage response guidelines at the County and municipal levels.

Progress: Carteret County Emergency Management in collaboration with communities operating water systems have and will continue to enforce standards defined in the respective jurisdiction's Drought Management Plan.

Status/Corresponding 2015 Strategy: CA26

Strategy #71: Continue to coordinate with utility providers to inform residents of drought hazards and regional drought policies.

Progress: Carteret County Emergency Management in collaboration with communities operating water systems have and will continue to enforce standards defined in the respective jurisdiction's Drought Management Plan.

Status/Corresponding 2015 Strategy: CA26

Strategy #72: Continue to coordinate with utility providers to inform residents about water conservation techniques.

Progress: Carteret County Emergency Management in collaboration with communities operating water systems have and will continue to enforce standards defined in the respective jurisdiction's Drought Management Plan.

Status/Corresponding 2015 Strategy: CA26

Strategy #73: Distribute materials on how to conserve water during periods of drought but also during periods of adequate water supplies.

Progress: Carteret County Emergency Management in collaboration with communities operating water systems have and will continue to enforce standards defined in the respective jurisdiction's Drought Management Plan.

Status/Corresponding 2015 Strategy: CA26

III. CRAVEN COUNTY MITIGATION PROGRESS REPORT

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 Craven County Multi-Jurisdictional Hazard Mitigation Plan.

Strategy #1: In concert with the American Red Cross (ARC), maintain an annually updated list of all ARC approved shelters.

Progress: The Craven County EOP maintains a current listing of all salient data regarding emergency response, including shelters. The county updates the EOP annually in coordination with the American Red Cross.

Status/Corresponding 2015 Strategy: CR13

Strategy #2: Continuously maintain, on the County's website, instructional information on ensuring that on-site sheltering is as safe an option as possible.

Progress: The Craven County EOP maintains a current listing of all salient data regarding emergency response, including shelters. The county updates the EOP annually in coordination with the American Red Cross. Additionally, this information is maintained on the Craven County website.

Status/Corresponding 2015 Strategy: CR13

Strategy #3: Maintain continuous contact/working relationship with electric service providers in the County to address the following: (1) disaster preparedness techniques (e.g., tree trimming, vegetation planting requirements, pole replacement); (2) identification of critical electrical facilities needing retrofit or upgrade and map with elevation reference marks; and (3) communication with County officials during and immediately after a natural hazard event that results in loss of electrical power. The MAC will meet at least once per year with electric service providers.

Progress: Since adoption of the 2010 plan, the county has maintained ongoing coordination with all electric service providers within the county. This effort is now incorporated into County EOP procedures.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #4: Improve capability of secondary power source at all County and Municipal Critical Facilities (all buildings).

Progress: Craven County has continued these efforts, establishing several back-up generators since certification of the 2010 plan. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: CR15

Strategy #5: Maintain a representative of the public electric authority on the MAC.

Progress: This issue has been adequately addressed through establishment and implementation of the county co-op since adoption of the 2010 plan. This plan will continue to be maintained and updated.

Status/Corresponding 2015 Strategy: CR8, CR15

Strategy #6: Retrofit all County and Municipal facilities for lightning protection (existing buildings).

Progress: The county MAC has determined that this strategy is impractical, and should be handled on a case-by-case basis.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #7: Support conservation easements on all floodprone property and impose such easements on all properties acquired with public assistance funds.

Progress: This strategy has been eliminated because all properties acquired with HMGP funding have a FEMA mandated deed restriction placed on them that restricts future development.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #8: Integrate new greenway and public park improvements into comprehensive planning and capital improvement efforts (including coordination with all local certified CAMA land sue plans).

Progress: Craven County adopted the latest CAMA (Comprehensive Plan) prior to certification of the 2010 plan. The county will continue to consider mitigation through future plan updates.

Status/Corresponding 2015 Strategy: CR1

Strategy #9: Provide annual review of development restrictions in floodplain areas and maintain initiatives to ensure limited residential and commercial development in the floodplains and protection of critical facilities. Specifically address soil testing for engineered foundations, minimum lot size, critical facility protection, manufactured home park requirements including anchoring and elevation, and freeboard requirements (new buildings).

Progress: Craven County has and continues to maintain an updated Flood Damage Prevention Ordinance. The county, in conjunction with participating jurisdictions, review and update this ordinance annually.

Status/Corresponding 2015 Strategy: CR2, CR3, CR5

Strategy #10: Publicize and maintain maps of floodplain and floodprone areas on the county website and at building inspection offices and in public libraries. Provide copies of the flood maps to the public.

Progress: Craven County maintains FIRMs that are current and in line with FEMA standards. Additionally, the ordinance is updated as directed by NCEM and/or FEMA.

Status/Corresponding 2015 Strategy: CR4

Strategy #11: Map all areas in proximity to National Forest Areas including types of land use and construction.

Progress: This strategy was completed in 2012-2013 in conjunction with the county GIS department. The data is currently available through county GIS.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #12: The MAC will review “firewise” zoning and subdivision standards and recommend their appropriateness for incorporation into existing (or new) zoning subdivision of UDO ordinances. (Source: <http://www.firewise.org>). This will include the establishment of buffers around National Forest Areas (new buildings).

Progress: Craven County has determined that this strategy is impractical and will be eliminated from the plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #13: Annually review County and Municipal Zoning, Subdivision, UDO, and Flood Damage Prevention Ordinances for improved control of flooding hazards, including identifying/responding to new flood data (new buildings).

Progress: Craven County maintains limited zoning and subdivision regulations. The county, in conjunction with participating jurisdictions, have determined that respective Flood Damage Prevention Ordinances and existing land development regulations are adequate.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #14: Adopt and annually update a capital improvement plan with an emphasis on mitigation for critical facilities including relocation and retrofitting (all buildings). NOTE: Subject to funding availability.

Progress: Since certification of the 2010 plan, Craven County has maintained a CIP that has been updated through the annual budgeting process (this practice will continue).

Status/Corresponding 2015 Strategy: CR8

Strategy #15: At the staff level, work with the North Carolina Department of Transportation (NCDOT) to identify and develop resolutions for drainage issues created by NCDOT facilities, including inspections of channels, retention basins, and, as needed, pursue debris removal.

Progress: Craven County, in collaboration with local and regional partners, work on an ongoing basis to address regional drainage issues.

Status/Corresponding 2015 Strategy: R6

Strategy #16: Apply for all available funding from the Hazard Mitigation Grant Program (HMGP) and funds to assist with the mitigation of severe repetitive loss properties to relocate structures out of the floodplain (existing buildings).

Progress: Since certification of the 2010 plan, Craven County, in collaboration with the participating jurisdictions, have treated several units through the HMGP program. The county will continue to maintain a proactive approach to this program.

Status/Corresponding 2015 Strategy: CR9

Strategy #17: Require a finished floor elevation certificate for all development within the special flood hazard area (SFHA) in both incorporated and unincorporated portions of the County. All elevation certificates should be submitted on an official FEMA elevation certificate. No certificate of occupancy shall be issued for any development within a defined special flood hazard area without the submittal of the required elevation certificate (new buildings).

Progress: Craven County and all CRS participating communities will continue to maintain these efforts.

Status/Corresponding 2015 Strategy: CR6

Strategy #18: Identify and map municipal stormwater “hot spots” and coordinate with capital improvement planning for upgrade of substandard storm drainage components.

Progress: Craven County, in collaboration with local and regional partners, work on an ongoing basis to address regional drainage issues.

Status/Corresponding 2015 Strategy: CR1

Strategy #19: Continue to comply with North Carolina state coastal stormwater regulations (new buildings).

Progress: This strategy has been eliminated because the MAC feels these issues are adequately addressed by state regulatory agencies.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #20: Continuously maintain information concerning the County’s flood data maintenance efforts, including GIS/tax parcel data.

Progress: Craven County has collected information establishing a comprehensive GIS database, inclusive of floodplain information. This system will continue to be maintained.

Status/Corresponding 2015 Strategy: CR4

Strategy #21: Hold an annual public hazard mitigation meeting, attended by the MAC and participating jurisdictions, to educate the public and elected officials and receive comments about the location of high risk facilities/development, the jurisdictions’ overall vulnerability to natural and man-made hazards, and the jurisdictions’ hazard mitigation efforts.

Progress: Craven County in conjunction with the annual county-wide EOP update process adequately addresses this issue. Currently, maintenance procedures will remain in place until a change is deemed necessary.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #22: Maintain a map information service involving the following: (1) Provide information relating to Flood Insurance Rate Maps (FIRMs) to all inquirers, including providing information on whether a given property is located within a flood hazard area; (2) provide information regarding the flood insurance purchase requirement on the county's website; (3) Maintain historical and current FIRMs; (4) Advertise once annually in the local newspaper; (5) Provide information to inquirers about local floodplain management requirements; (6) Include in the county's newsletter (all property owners) and on the county's website a letter on flood insurance; (7) Notify property owners within a floodprone area that they are subject to flooding (all buildings).

Progress: Craven County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CR20, CR21, CR22

Strategy #23: Craven County will provide comprehensive services regarding planning and development activities within the defined SFHA. These services will include: (1) Providing site specific flood and flood related information on an as-needed basis; (2) Building Inspections Department will maintain a list of contractors with experience in floodproofing and retrofitting techniques; (3) Building Inspections Department will maintain materials providing an overview of how to select a qualified contractor; (4) Make site visits upon request to review occurrences of flooding, drainage, and sewer problems. If applicable, inspector should provide one-on-one advice to the property owner; (5) Provide advice and assistance regarding CRS Activity 530; (6) Advertise the available of services once annually in the local newspaper; and (7) Maintain a log of all individuals assisted through these services, including site visits (all buildings).

Progress: Craven County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CR20, CR21, CR22

Strategy #24: Craven County will make information regarding hazards and development regulations within the floodplains through the following: (1) The County Planning Director will ensure that the local library maintains information relating to flooding and flood protection; and (2) The County will provide a link on its website to FEMA resources addressing flooding and flood protection (all buildings).

Progress: Craven County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CR20, CR21, CR22

Strategy #25: Craven County will establish and maintain flood warning systems.

Progress: Craven County has established an early warning system. This system will be maintained and updated as deemed necessary.

Status/Corresponding 2015 Strategy: CR11

Strategy #26: Craven County will work with local real estate agencies to ensure that agents are informing clients when property for sale is located within an SFHA. The county will provide these agencies with brochures documenting the concerns relating to development located within floodprone areas (existing buildings).

Progress: Craven County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CR22

Strategy #27: Craven County will coordinate with the Craven County School System Hazards Awareness Educational Programs for use by educators within the Craven County School System.

Progress: Craven County maintains a widespread public awareness campaign. The MAC eliminated this strategy due to a range of outreach efforts ongoing throughout the county.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #28: Continue to rely on the Craven County Emergency Operations Plan (EOP) for effective disaster event communication.

Progress: Craven County updates the county EOP on an annual basis. The county addresses all emergency communication necessary throughout the county.

Status/Corresponding 2015 Strategy: CR14, CR16

Strategy #29: Establish county-wide program, including a public service campaign prompting citizens to register their unlisted or mobile telephone numbers.

Progress: This strategy has been worked on and is in place relating to state requirements for Special Medical Needs Registries.

Status/Corresponding 2015 Strategy: CR17

Strategy #30: Maintain a registry of special needs individuals, which has been coordinated with the Craven County Department of Social Services. This list will include: (1) persons on life support systems; (2) persons dependent on electricity for medical equipment; and (3) persons with severe mental handicap or mental illness.

Progress: This strategy has been worked on and is in place relating to state requirements for Special Medical Needs Registries.

Status/Corresponding 2015 Strategy: CR17

Strategy #31: Craven County, in conjunction with all municipal jurisdictions participating in this hazard mitigation plan update, will work on the five-year implementation of this plan. At the end of this five-year period, the county will undertake efforts to update this plan including the following ten (10) planning steps: (1) Organize to prepare the plan; (2) Involve the public; (3) Coordinate with other agencies; (4) Assess the hazard; (5) Assess the problem; (6) Set goals; (7) Review possible activities; (8) Draft an action plan; (9) Adopt the plan; and (10) Implement, evaluate, and revise.

Progress: Craven County has maintained a county MAC including all participating jurisdictions since certification of the 2010 plan.

Status/Corresponding 2015 Strategy: CR23

Strategy #32: Maintain dialogue with the Craven Regional Airport Authority to effectively regulate land use as the County continues to grow and encroach upon the airport environs defined by the Craven County Zoning and Height Ordinance.

Progress: Craven County adopted the latest CAMA (Comprehensive Plan) prior to certification of the 2010 plan. The county will continue to consider mitigation through future plan updates.

Status/Corresponding 2015 Strategy: CR1

Strategy #33: Maintain dialogue with the Cherry Point Marine Corps Air Station (MCAS) personnel to effectively regulate land use as the County continues to grow and encroach upon the airport environs defined by the Craven County Zoning and Height Ordinance and the Marine Corps Air Station Zoning Ordinance.

Progress: Craven County adopted the latest CAMA (Comprehensive Plan) prior to certification of the 2010 plan. The county will continue to consider mitigation through future plan updates.

Status/Corresponding 2015 Strategy: CR1

Strategy #34: Craven County will continue to support the NC Office of Dam Safety's efforts to monitor and inspect all dams throughout the state. The county will rely on this agency to ensure that all dam facilities, both public and private, are properly maintained and stable.

Progress: Craven County as well as all other jurisdictions participating in the CRS program (see page 6-37) must maintain this data, in addition to conducting a range of education and community outreach efforts. These communities have and will strive to maintain current rankings through implementation of this plan.

Status/Corresponding 2015 Strategy: CR20, CR21, CR22

Strategy #35: Support storm hazard mitigation policies provided in the 2008 Craven County, Bridgeton, and New Bern CAMA Land Use Plans (all buildings).

Progress: Craven County adopted the latest CAMA (Comprehensive Plan) prior to certification of the 2010 plan. The county will continue to consider mitigation through future plan updates.

Status/Corresponding 2015 Strategy: CR1

Strategy #36: Continue to enforce the International Building Code, to include requiring that new structures or structures undergoing significant renovation (renovations or expansion exceeding 50% of fair market value) meet code requirements including wind-related risks (all buildings).

Progress: Craven County has maintained the International Building Code since certification of the 2010 plan. These codes are currently in place.

Status/Corresponding 2015 Strategy: CR3

Strategy #37: Continuously maintain current state-approved water supply plans.

Progress: Craven County as well as participating jurisdictions continue to update and maintain water shortage response plans to address drought conditions.

Status/Corresponding 2015 Strategy: CR7

IV. *HYDE COUNTY MITIGATION PROGRESS REPORT*

The following provides a summary of progress achieved with regard to the strategies adopted through the 2008 Hyde County Multi-Hazard Mitigation Plan Update.

Strategy #1: Develop and adopt a “no-rise (in base flood elevation)” clause for the county’s Flood Damage Prevention Ordinance.

Progress: This strategy has not been completed. The MAC has deemed implementation of this strategy as impractical and removed it from the plan.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #2: Advertise and promote the availability of flood insurance to county property owners by including information in all building permit applications, displaying information in County Inspections Department and adding information to the County website.

Progress: The county has maintained this information since certification of the 2010 plan.

Status/Corresponding 2015 Strategy: H2

Strategy #3: Continue to support and work towards completion of the construction of the Swan Quarter “mosquito dike” to alleviate future flood hazard conditions.

Progress: This project was completed; this strategy has been updated to reflect maintenance of the Swan Quarter dike moving forward.

Status/Corresponding 2015 Strategy: H3

Strategy #4: Seek funding to complete a stormwater drainage study/plan for both Mainland Hyde and the village of Ocracoke that will lead to a stormwater management ordinance.

Progress: Hyde County has researched various avenues available to address this issue. This strategy has been revised to more accurately define the county’s intentions.

Status/Corresponding 2015 Strategy: H4

Strategy #5: Continue to support and develop the Geographic Information System (GIS) to maintain current cadastral (building/parcel) data for purposes of conducting more detailed hazard risk assessments and for tracking permitting/land use patterns.

Progress: Hyde County has maintained and will continue to maintain a comprehensive GIS system through implementation of this plan.

Status/Corresponding 2015 Strategy: H5

Strategy #6: Continue to collect educational materials on individual and family preparedness/mitigation measures for property owners, and display at both the library and routinely-visited county offices.

Progress: Hyde County has continued to carry out this strategy in an effort to maintain compliance with the CRS program (this strategy is ongoing).

Status/Corresponding 2015 Strategy: H6

Strategy #7: Continue to acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners.

Progress: Since certification of the 2010 plan, the county has treated several units through HMGP funding. The county will continue to make this a priority moving through implementation.

Status/Corresponding 2015 Strategy: H7

Strategy #8: Regularly calculate and document the amount of floodprone property that is preserved as open space for additional credit points under the Community Rating System (CRS).

Progress: Hyde County must maintain this data, in addition to conducting a range of education and community outreach efforts. The county has and will strive to maintain its current ranking through implementation of this plan.

Status/Corresponding 2015 Strategy: H16

Strategy #9: Evaluate the potential mitigation techniques for protecting each critical facility to the maximum extent possible, including all new facilities.

Progress: Hyde County consistently assesses EM facilities including both shelters and critical facilities.

Status/Corresponding 2015 Strategy: H8

Strategy #10: Establish a local reserve fund for repairing and/or incorporating hazard mitigation measures for public facilities and infrastructure damaged by natural hazards.

Progress: This strategy has not been carried out. The MAC has decided to remove the strategy due to a lack of political will.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #11: Conduct inventory/survey for the county's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or required resources, including funding for public safety services.

Progress: It was determined by the MAC that these efforts are covered through the county EOP. The strategy has been removed due to redundancy.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #12: Formally review the county's Flood Damage Prevention Ordinance and continually revise on a 3-year cycle.

Progress: Hyde County reviews and updates the Flood Damage Prevention Ordinance annually at this time. This effort is in addition to any NCEM or FEMA mandated revisions.

Status/Corresponding 2015 Strategy: H10

Strategy #13: Continue to update educational flyers targeting NFIP policyholders on the Increased Costs of Compliance (ICC) coverage, to be disseminated following a flood event that results in substantial damage determined by the county.

Progress: Hyde County addresses the issue of ICC through their ongoing mitigation program. The county will continue to do so.

Status/Corresponding 2015 Strategy: Completed/Removed

Strategy #14: Incorporate the inspection and management of hazardous trees into the county's routine drainage system maintenance process.

Progress: Hyde County has limited resources with regard to public works and maintenance. The strategy has been revised to more appropriately reflect the current state of affairs.

Status/Corresponding 2015 Strategy: H11

Strategy #15: Continue to contact all owners of FEMA-identified repetitive loss properties and inform them of the assistance available through the federal Flood Mitigation Assistance (FMA) program, in addition to other flood protection measures.

Progress: Hyde County has and will continue to maintain these efforts through the county's CRS program.

Status/Corresponding 2015 Strategy: H15, H16

Strategy #16: Continue to augment the enforcement of the State Building Code and related county ordinances by encouraging wind-resistant design techniques for new residential construction during the county's permit process.

Progress: Hyde County has enforced the NC State Building Code since certification of the 2010 plan, and will continue to do so through this update.

Status/Corresponding 2015 Strategy: H12

Strategy #17: Amend the county's Manufactured Housing and Travel Trailer Park Ordinance to require tornado shelters for any new major manufactured/mobile home park with more than 30 mobile home spaces.

Progress: This strategy has not been completed and has been deemed to be impracticable. It will be reconsidered in the future, if necessary.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #18: Annually provide public hazard information for the residents of Hyde County, in combination with the "Engelhard Seafood" festival on the Mainland and the "Ocracoke" festival on Ocracoke Island or another appropriate community event.

Progress: This effort has proven effective for the county and will be maintained through this update.

Status/Corresponding 2015 Strategy: H13

Strategy #19: Continue to update the local emergency evacuation plan for the Village of Ocracoke in coordination with the North Carolina Department of Transportation, North Carolina Division of Emergency Management, and other appropriate agencies.

Progress: Hyde County works closely on an annual basis to ensure that proper emergency evacuation procedures are in place. The strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: H14

V. *PAMLICO COUNTY MITIGATION PROGRESS REPORT*

The following provides a summary of progress achieved with regard to the strategies adopted through the 2010 Pamlico County Multi-Jurisdictional Hazard Mitigation Plan.

Strategy #1: Monitor and review damage assessments in the County during and after future events to evaluate the effectiveness of the increased BFE.

Progress: Since certification of the 2010 plan, there have been several events in the county requiring damage assessments. The county will maintain a proactive stance toward this issue.

Status/Corresponding 2015 Strategy: P1

Strategy #2: Identify vulnerable areas and prioritize the critical drainage ditches.

Progress: The county monitors drainage conditions during every significant rain event. The strategy has been revised to better address the issue.

Status/Corresponding 2015 Strategy: P2

Strategy #3: Explore grant funding for storm water management plans.

Progress: Since 2010, the county has not proactively sought out grant funding for stormwater management. This strategy has been revised to more adequately define resources available to address mitigation.

Status/Corresponding 2015 Strategy: P6

Strategy #4: Continue participation in the community service program to clean ditches and petition the State of North Carolina to continue the community service program.

Progress: This program has served the county well over the last five years and will continue to be utilized as a resource.

Status/Corresponding 2015 Strategy: P4

Strategy #5: Make public aware of the importance of drainage areas and the link to the proliferation of mosquitoes.

Progress: Pamlico County maintains an active vector control program. This effort will be maintained through the County budget.

Status/Corresponding 2015 Strategy: Completed

Strategy #6: Coordinate with the State Forest Service/NCDOT concerning drainage ditches and tree-cutting activities.

Progress: Pamlico County has and continues to deal with this persistent problem.

Status/Corresponding 2015 Strategy: P6

Strategy #7: Meet with insurance agents, Realtors, and bankers to coordinate public education.

Progress: Pamlico County works closely with the community to educate property owners and residents about issues associated with natural hazards (these efforts will continue).

Status/Corresponding 2015 Strategy: P7

Strategy #8: Create a publication or brochure in order to communicate the potential of natural hazards in the area to potential landowners and residents.

Progress: This strategy has not been carried out and is being eliminated due to budgetary constraints.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #9: Pursue placemats containing information about flood zones.

Progress: This strategy was deemed impracticable and eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #10: Meet with schools, churches, and other community organizations to disseminate information.

Progress: The county EM department in conjunction with the MAC determined that public education efforts are adequately covered through other programs.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #11: Recommend annual review by towns of storm readiness coordinated by County Emergency Management.

Progress: Pamlico County EM addresses this effort annually through review and update of the county EOP. The towns are involved in this process.

Status/Corresponding 2015 Strategy: P8

Strategy #12: Support State efforts to develop guidelines to reduce nonpoint source water pollution that originates from new construction and use of fertilizers.

Progress: Pamlico County continues to work closely with NCDENR regarding water quality issues. This strategy has been revised to more accurately define the county's intentions.

Status/Corresponding 2015 Strategy: P9

Strategy #13: Seek upstream river monitoring by the NC Division of Water Quality.

Progress: This strategy has been deemed impracticable by the MAC and eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #14: Map preferable secondary roads to be used for evacuation and place more evacuation route signs on roads throughout the County.

Progress: The county GIS department has mapped all right-of-ways and this information has been provided to the NC GIS clearinghouse.

Status/Corresponding 2015 Strategy: Completed

Strategy #15: Develop flood marker program and pursue a grant to fund the program.

Progress: This strategy was deemed impracticable by the MAC and eliminated.

Status/Corresponding 2015 Strategy: Eliminated

Strategy #16: Develop the County's floodplain map for public dissemination in the brochure to be developed in [Strategy] #8 of this plan.

Progress: This strategy has been achieved through establishment of the NC statewide floodplain management portal.

Status/Corresponding 2015 Strategy: P11

Strategy #17: Research methods to address repetitive loss properties.

Progress: Pamlico County has treated several severe repetitive loss properties since certification of the 2010 plan. The county will continue to utilize this program when feasible.

Status/Corresponding 2015 Strategy: P3

Strategy #18: Request the NC Climate Office in their Storm Events Database to include nor-easters, wildfires, and severe winter storms (damage estimates by county) in the list of various types of storms.

Progress: Pamlico County did not carry out this strategy; however, an alternate data source was identified.

Status/Corresponding 2015 Strategy: Eliminated