APPENDIX VI

1998 Brunswick County Land Use Plan Summary of Policies and Implementation Actions (with Commentary)

Policy Area	Implementation Action	Commentary
8.0 General Vision Policy We, the residents, businesses, and property owners of Brunswick County shall seek to preserve and enhance our natural and human resources, and will plan for and accommodate future growth while simultaneously maintaining and improving the quality of life for current and future residents.	The County staff, Planning Board, and Board of County Commissioners shall employ the policies contained in this land use plan on a routine basis in evaluating development proposals and other matters concerning land use.	Ongoing implementation.
8.1 Resource Protection Policies The natural and scenic resources of Brunswick County enable many business owners and employees to earn a livelihood, residents to have a high quality of life, and visitors to enjoy the many attractive features of the area. Brunswick County, through its policies and actions, shall not support or approve any action which would significantly jeopardize the long term viability of our natural and scenic resources.	**In February 2005, the Brunswick County Board of County Commissioners adopted a resolution in support of the Lower Cape Fear Stewardship Development Program in support of low-impact design and cluster development concepts. This Program encourages and recognizes development that employ conservation by design techniques to preserve natural resources.** See specific Implementation Actions listed below as they pertain to specific policy issues.	
8.1.1 Constraints To Development: Soils, Septic Tank Suitability, Flooding		
8.1.1(a) Development is encouraged to locate in areas without soil suitability problems and where infrastructure is available. In areas where suitability problems exist, engineering solutions are supported to the extent that the natural environment is not compromised.	(1) Ongoing efforts to incorporate U.S. Soil Conservation Service detailed soil classification maps into the County's geographic information system (GIS) will continue.	
	(2) Plans to produce detailed topographic mapping (2' contour intervals) in the County's GIS will continue.	
8.1.1(b) In the absence of sewer facilities, the County shall work cooperatively with property owners to evaluate site suitability for septic tank use. When soil conditions are such that, in the opinion of County sanitarians,	The County Health Department will continue to implement internal procedures to make the review and approval process for septic tank permits more customer service oriented.	

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health or environmental standards would be compromised, full explanation of the reasons for denial shall be given, and alternatives for possible solutions provided.		
8.1.1(c) Brunswick County supports the administration and enforcement of applicable flood plain management regulations and the national flood insurance program.	(1) The County will continue to enforce the local flood damage prevention ordinance.	
	(2) Efforts to disseminate flood insurance rate maps to Realtors, developers, financial institutions, and insurance agencies will continue.	
	(3) Efforts by FEMA to update the County's flood insurance rate maps will be encouraged and supported. Upon completion, such mapping should be incorporated into the County's GIS system.	In progress. Statewide Floodplain Mapping Initiative.
8.1.2 Areas of Environmental Concern Brunswick County will support and enforce, through its local CAMA permitting capacity, the State policies and permitted uses in the Areas of Environmental Concern (AEC's). Such uses shall be in accord with the general use standards for coastal wetlands, estuarine waters, public trust areas and ocean hazard areas as stated in 15A NCAC Subchapter 7H.	(1) The County's commitment to the protection of coastal wetland AEC's will continue through County financial and staff support for the minor CAMA permit program.	
	(2) Major CAMA permit reviews and comment by the County's staff will include references to the County's land use policies. Also, the County will request that the State consult with the County on all interpretations of the Land Use Plan, its policies, and land classification map, so that consistent State/Local interpretations will be achieved.	
8.1.2(a) Due to the critical role that wetlands play in protecting the quality of estuarine waters and in providing habitat for fish and wildlife, Brunswick County strongly supports the efforts of State and Federal agencies to properly designate and preserve coastal wetlands. Such preservation shall be balanced with the economic and community values of piers, docks, and marinas which serve the public, whether they be publicly or privately owned.		

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8.1.2(b) Estuarine Water AEC's Developments and mitigation activities which support and enhance the natural function, cleanliness, sanity, and circulation of estuarine water resources shall be supported.	**(1)** The County **adopted a Stormwater Quality Management & Discharge Control Ordinance in September 2002.**	**Review and modifications to Stormwater Ordinance and other land development regulations will occur on an as needed basis.**
	(2) The County will call upon the North Carolina Department of Transportation to conduct a study of road drainage patterns within the Lockwood Folly watershed. The study will examine, for example, the effects of direct ditching to estuarine waters and potential corrective actions.	Study has not started.
	(3) The County, in conjunction with the North Carolina Coastal Federation, received an EPA Grant in 2005 to study and select appropriate growth management strategy(ies) for the Lockwood Folly River Watershed.	
	(4) The County will consider the creation of a shoreline overlay district as part of an overall zoning ordinance. Such overlay district might include requirements for more intense review of proposed drainage, and limitation on the type of land uses allowed within the overlay district.	Shoreline Overlay District has not been created.
	(5) The County shall review the Cape Fear River Corridor study with the intent of implementing as many recommendations as can be deemed feasible by County decision-makers.	Certain recommendations have been incorporated in town ordinances.
	(6) The County will continue to press for action **to the US Army Corps of Engineers and** in Congress or elsewhere, to approve funding for **the Section 206 Aquatic Habitat Restoration Project and other** studies and dredging to reopen the eastern channel of the Lockwood Folly River.	Ongoing.
	(7) The County shall **continue to support** implementation of a natural buffer program adjacent to all streams and drainage ways in the County **via Stormwater Quality Management & Discharge Ordinance.**	**Also supported via** Phase II Stormwater Regulations.

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8.1.2(c) Public Trust Waters AEC's The community's need for piers and docks, whether publicly or privately owned, shall be tempered by the rights of the public for the free and open use of public trust waters for navigation, shell fishing, and other uses. Efforts of State and Federal agencies to limit the length of docks and piers as they project into estuarine waters are especially supported.	(1) The County will support implementation of newly revised State standards concerning pier length and obstruction of shallow-water navigation in the County's public trust waters.	Ongoing.
	(2) The County **updated the 1990 Shoreline Access Plan in 2003.**	Plan has **been updated.**
8.1.2(d) Estuarine Shoreline AEC's Brunswick County supports the protection and preservation of its estuarine shorelines, as enforced through the application of CAMA use standards.	(1) The County will consider the creation of a shoreline overlay district as part of an overall zoning ordinance. Such overlay district might include requirements for more intense review of proposed drainage, and limitations on the type of land uses allowed within the overlay district.	Shoreline Overlay District has not been created.
8.1.2(e) Ocean Hazard AEC's Brunswick County supports state and federal standards for the management of development in the ocean hazard AEC's under the County's planning jurisdiction: the Baptist assembly grounds and part of Bird Island.	(1) The County will continue to support proper enforcement of applicable CAMA regulations for ocean hazard area AEC's.	County has a local CAMA officer and works closely with the State Regional Office in Wilmington.
8.1.2(f) Public Water Supply AEC's Brunswick County supports the designation of Public Water Supply AEC's when such designation meets State prerequisites and when such action is deemed necessary to ensure the long term viability of the County's public water supplies.	(1) Brunswick County shall continue to be an active participant in the meetings of the NC Coastal Resources Commission to stay abreast of opportunities available at the County and State level to protect critical resources through the AEC component of the State coastal management program.	County participates in public hearings and stays abreast of proposed rule changes.
8.1.2(g) Natural and Cultural Resource AEC's Brunswick County supports the selective designation of appropriate areas as natural and cultural resource AEC's (Coastal Complex Natural Areas, Coastal Areas that Sustain Remnant Species, Unique Geologic Formations, Significant Coastal Archaeological Resources and Significant Coastal Historical Architectural Resources).	(1) In keeping with the implementation action immediately above, the County supports appropriate State studies to examine areas within Brunswick County for possible AEC designation.	No studies currently underway.
8.1.2(h) Wildlife Protection The abundance and diversity of wildlife in Brunswick County shall be preserved and enhanced through protection of the unique coastal	**The County is developing its first Unified Development Ordinance (UDO) that will encourage preservation of natural resources.**	

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ecosystems, including marshes, woodlands, open fields and other areas upon which they depend.		
8.1.3 Wetlands of Highest Function Significance (Awaiting development of mapped information by the State)		
8.1.4 Other Hazardous or Fragile Land Areas		
8.1.4(a) Freshwater Swamps, Marshes, Pocosins, and 404 Wetlands Brunswick County will continue to support the efforts of the CAMA program and the U.S. Army Corps of Engineers 404 permitting program to preserve and protect sensitive fresh water swamp and marsh areas.	(1) In the absence of AEC designation, the County supports efforts of the North Carolina Wildlife Resources Commission to identify and designate critical habitat areas within the County, provided that opportunities for local study and evaluation are included.	Planned unit development (PUD) ordinance encourages protection of wetlands through private conservation easements and passive use of open space **adjacent to fragile areas.**
8.1.4(b) Maritime Forests Maritime forests in Brunswick County shall receive a high level of environmental protection when considering public and private sector uses: When development is considered, preferred usage shall be for low intensity or clustered development forms, which preserve the majority of forest cover. (See also Policy 8.3.17 Tree Cover and Landscaping)	(1) The County will include tree preservation in the County's **new Unified Development Ordinance,** particularly regarding open space provisions. Consideration shall be given to a means of addressing outstanding and historic trees, including but not limited to, significant live oaks and maritime forest.	PUD ordinance encourages tree preservation.
8.1.4(c) Outstanding Resource Waters (ORW) Brunswick County supports State and local efforts to restore the water quality of the Lockwood Folly River, as well as other estuarine waters in the County, to a water quality level deserving of ORW designation.	(1) Regardless of whether ORW designation is accomplished, the County will consider creating a special shoreline overlay district within the County's overall zoning ordinance to protect and restore, to the extent possible, water quality in the County's estuarine waters.	
	(2) The County will continue to press for action **to the US Army Corps of Engineers and** in Congress or elsewhere, to approve funding for **the Section 206 Aquatic Habitat Restoration Project and other** studies and dredging to reopen the eastern channel of the Lockwood Folly River.	The County continues to support dredging of the Lockwood Folly/Galloway Flats inlet area to improve water flow.
8.1.4(d)		

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Shellfishing Waters The County supports and encourages the activities of the State's Shellfish Management Program. The County shall continue to promote estuarine water quality through its stormwater management planning and stormwater runoff policies. (See Section 8.1.7)		
8.1.4(e) Water Supply Areas/Other Waters with Special Values The County's ground water resources, including but not limited to the Castle Hayne aquifer, shall be recognized as an invaluable source of public and private potable water and shall receive the highest level of protection when considering County policies, standards and actions, including the possible creation of a special overlay district.	(1) Demands on the County's groundwater resources will be relieved through continued expansion of the County-wide water system, including the feasibility of tapping into the Pee Dee aquifer, or drawing water from surface water sources in addition to the Cape Fear River. **Brunswick County completed a USGS Hydrogeology and Groundwater Quality Study of Brunswick County, NC study in 2003.**	
	(2) In keeping with the recommendations contained in the recently completed Aquifer Sensitivity Study (See Section 8.1.5), the County shall take appropriate measures to ensure the long term protection of the County's critical groundwater resources.	
	(3) The County shall inquire of State coastal management officials as to the feasibility of designating the 211 groundwater treatment plant wells as AEC's.	Ongoing.
8.1.4(f) Cultural and Historic Resources Brunswick County encourages efforts to protect cultural and historic resources to preserve their cultural, educational and aesthetic values and qualities.	(1) Brunswick County will encourage the State to update the current list of cultural and historic resources in Brunswick County.	
8.1.4(g) Manmade Hazards Brunswick County will seek to minimize potential land use conflicts and hazards related to development in areas near existing, potentially hazardous facilities.	(1) Brunswick County will continue to provide staff assistance in support of air space zoning for the Brunswick County Airport, in keeping with the wishes of the jurisdiction within which the airport falls, the Southeast Sanitary District.	Airport Height Control Ordinance adopted 1998.
8.1.4(h) Hazardous Materials and Events Plans for the safe transportation of hazardous materials, for the prevention and clean-up of spills of toxic materials, and for the evacuation of area residents in response to hazardous events, shall be	The County shall continue to encourage the development of emergency response plans for specific industries in the area. All such plans should be fully coordinated with the County's emergency management function.	

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supported.		
8.1.5 Protection of Potable Water Supply		
8.1.5 (a) Brunswick County supports Federal, State and local efforts to protect the quantity and quality of water in the Cape Fear River, whether such protection involves controls over point source discharges, surface runoff, inter-basin water transfers, or other appropriate means, including upstream activities.	(1) Brunswick County will encourage State efforts to prepare targeted studies and effective policies on water allocation, inter-basin transfers, water quality impacts, etc. as these issues affect the Cape Fear River.	Ongoing.
	(2) The County shall generally support initiatives in the General Assembly to reduce levels of pollutants and nutrient loading in the Cape Fear River. Support for specific measures shall be based upon the rationality and logic of each proposal.	Brunswick County was represented on the Phase II Stormwater Statewide Stakeholders group.
8.1.5(b) Brunswick County supports federal, state and local efforts to protect the quantity and quality of water in the region's groundwater system, whether such protection involves controls over the location and management of activities involving hazardous substances, restrictions on groundwater drawdowns, or any other activity which would jeopardize the short and long term viability of groundwater resources.	**(1)** The County shall take appropriate measures to ensure the long-term protection of the County's critical groundwater resources, consistent with the recommendations set forth in the groundwater management and conservation study prepared by hydro geologist Ralph Heath **and the Hydrogeology and Groundwater Quality Study of Brunswick County, NC study by USGS.**	USGS study underway.
	(2) The County shall conduct a study of the quality of groundwater in the County, based on available groundwater information related to existing well sites and known data, with one of the objectives being to create the mapping necessary to support an aquifer protection overlay.	USGS study underway. County well ordinance (1999) sets standards for new well construction and for proper closure of abandoned wells. An aquifer protection overlay district has not been created.
8.1.5(c) Brunswick County will continue improvements to and expansion of the County's potable, piped water supply system, with emphasis on the development of a self supporting operation, where costs are assigned in relative proportion to the benefits conveyed.	(1) The County shall continue with appropriately tailored engineering studies to accurately model the County's existing system, with an eye toward maximizing efficiencies and costs. The feasibility of water districts shall continue to be explored.	County has closed water system loops and electronically monitors the system for efficiency. Five Water **and Sewer Districts** were established **in May**

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		2004.
8.1.5(d) So as to facilitate the orderly development of the County water system, Brunswick County shall establish and maintain utility extension and tap-on policies designed to address the timing, location, priorities and sequence, etc. of system expansion.	(1) The County shall promulgate clear, written policies regarding water system extensions and tap on policies.	Policy in place.
8.1.6 Package Sewage Treatment Plants Brunswick County advocates the development and use of regional sewage treatment plants over smaller, privately operated package sewage treatment plants. When package treatment plants are employed, they should be designed to allow for future connections to a larger regional system.	(1) The County shall continue to partner with area utility districts to encourage the proper development of regional sewer systems **and complete construction of the 2-plant regional (North Brunswick and West Brunswick) Wastewater Treatment Systems.**	Interlocal agreements between County and municipalities/sanitary sewer districts are in place.
	(2) The County shall encourage the State to enforce strict compliance in the operation of package treatment plants.	Ongoing.
8.1.7 Stormwater Runoff		
8.1.7(a) Brunswick County shall take a proactive role in the development of stormwater management and design standards intended to protect the quality of the County's streams, rivers, marshes and estuarine systems.	(1) The County will continue to improve upon regulations dealing with runoff from proposed development. Included shall be **potential** modifications to the **newly created UDO** regulations and Stormwater Management **Ordinance**.	Subdivision ordinance includes limitation to 5% additional runoff post construction.
8.1.7(b) Brunswick County shall support a program of vegetated buffers adjacent to all streams, rivers, marshes and estuarine waters and other contaminants into area surface waters.	(1) The County **has incorporated a 30'** natural buffer program adjacent to all streams in the County. The County will look into the availability of funding available through the Clean Water Management Trust Fund of the State of North Carolina.	Phase II Stormwater regulations will mandate stream buffers.
	(2) The County will call upon the NC DOT to conduct a study of road drainage patterns within the Lockwood Folly Watershed. The study will examine, for example, the effects of direct ditching to estuarine waters and potential corrective actions.	Study is not underway.
	(3) The County will consider the creation of a shoreline overlay district as part of an overall zoning ordinance. Such overlay district might include requirements for more intense review of proposed drainage, and limits on the type of land uses allowed within the overlay district.	Shoreline Overlay District has not been created.

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8.1.7(c) Brunswick County shall advocate a policy of stormwater runoff management in which post-development runoff has a rate of flow and volume which approximates, as closely as practical, pre-development conditions.	(1) The County will continue to support and improve upon existing regulations dealing with runoff from proposed development. This shall include **potential** modifications to the County**'s newly UDO.**	Subdivision ordinance revisions and Phase II Stormwater regulations.
8.1.8(a) Marinas As a means of providing public access to area surface waters, Brunswick County encourages environmentally responsible marina development in accordance with State CAMA standards for AEC's. Marina facilities also shall be evaluated for site specific compatibility with surrounding land uses, as well as for aesthetic concerns, parking, access, and available services.	(1) The County shall update the 1990 Shoreline Access Plan during the next five year period. The update will incorporate marina development and a water use plan.	Shorelines Access Plan has not been updated.
8.1.8(b) Floating Home Development Brunswick County discourages floating home development anywhere in the waterways, public trust waters, and along the shorelines of the County, so as to prevent the unwanted "consumption" of the County's limited estuarine surface waters.	The County shall implement specific zoning standards to discourage or prohibit floating homes from locating in the County's public trust waters. In doing so, the County will study other coastal counties such as Carteret County and New Hanover County for examples of appropriate local regulations and standards. **Such requirements shall be supported by the County's new UDO.**	No zoning standards have been developed.
8.1.8(c) Moorings and Mooring Fields The desirability of freestanding moorings and mooring fields shall be evaluated on a case by case basis in accordance with CAMA development policies and standards. The unimpeded use of and navigation within public trust surface waters by the boating shall be of concern.		Major CAMA permit required.
8.1.8(d) Dry Stack Storage To minimize "consumption" of valuable public trust surface waters, dry stack storage marinas generally shall be preferred over wetslip marinas. Dry stack storage facilities shall be evaluated for site specific compatibility with surrounding land uses, as well as for aesthetic concerns, parking, access, and available services.		Several dry stack storage facilities have been permitted by CAMA.
8.1.8(e)		Ongoing. Aquaculture

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Commercial Fishing Operations Due to the important role of commercial and recreational fishing to the economy and cultural heritage of Brunswick County, the County shall encourage and support commercial fishing operations and sports fishing operations, provided that such operations meet all applicable development standards and are otherwise consistent with the policies of area local **and State** governments.		management and maintenance of fish and shellfish farming operations) is being encouraged through the aquaculture technology program at Brunswick Community College **and South Brunswick High School.**
8.1.9 Industrial Impacts on Fragile Areas Industries shall be encouraged to locate in suitable, non-fragile areas. Environmental impacts on air, land and water resources, as well as compatibility with surrounding land uses and the availability of required services, shall be factors employed in evaluating the merits of any particular industrial development proposal.	(1) The County will **continue to** implement, **strengthen** and enforce industrial performance standards in the **new UDO.**	Industrial performance standards have been adopted.
	(2) The land classification map and zoning ordinance will identify areas particularly suitable for industrial development.	Done
8.1.10 Development of Sound and Estuarine System Islands Development of sound and estuarine system islands, while not encouraged, is permitted, provided that impacts on the natural environment are properly mitigated. If such islands must be developed, low intensity uses such as open space, recreation, and very low density residential shall be the preferred uses. When such islands are deemed to have greater than local significance, the County encourages the State or Federal government to purchase these environmentally sensitive areas for the benefit of all residents of the State.	(1) The County will continually improve its **new UDO** regulations to provide for proper environmental protection and development on sensitive estuarine system islands.	
8.1.11 Development within area that might be susceptible to sea level rise or shoreline erosion development within areas susceptible to sea level rise, shoreline erosion, and/or wetland loss, should take into consideration such conditions upon initial development. In the event such	(1) The County will continue to enforce the flood protection ordinance as a means of ensuring that new development in low-lying areas is consistent with the limitations of the land **and incorporate the adopted Lumber River and Cape Fear River Flood Maps.**	Ongoing.

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development is later threatened by shoreline loss, the County shall support the AEC use standards governing shoreline protection and management. The County will not permit efforts to harden the shoreline in an attempt to counteract such conditions; however, this policy shall not preclude the use of innovative shoreline preservation techniques as approved by the Coastal Resources Commission.	(2) The County will continue to support CAMA standards for Ocean Hazard AEC's and Inlet Areas, to the extent that the County has jurisdiction.	Ongoing.
8.1.12 Upland Excavation for Marina Basins Brunswick County supports the development of marina basins in upland sites in accordance with CAMA standards. Marina basins also shall be evaluated for site specific compatibility with surrounding land uses, as well as for aesthetic concerns, parking, access, and available services.	(1) The County will continue to support CAMA standards for the development of marinas in upland locations.	County staff provides review and comment on CAMA standards and applications for permits.
8.1.13 Marsh Damage from Bulkhead Installation Brunswick County supports State and Federal standards which seek to prevent or minimize marsh damage from bulkhead or rip rap installation. The County recognizes however, that some limited marsh damage may be necessary to provide for otherwise environmentally sound development.	(1) Brunswick County will continue to support State and Federal standards for environmentally sensitive bulkhead installations.	County staff provides review and comment on CAMA standards and applications for permits.
8.1.14 Water Quality Problems and Management Measures Brunswick County shall encourage and support State and Federal standards which seek to prevent or minimize adverse water quality impacts. The County shall work proactively with the State on measures to reduce stormwater runoff rates, soil erosion and sedimentation, and point source discharges into area waters.	See implementation actions under Sections 8.1.5 through 8.1.7, especially.	**UDO** and Phase II Stormwater regulations.
8.1.15 Air Quality Brunswick County shall encourage and support State and Federal standards which seek to prevent or minimize adverse air quality impacts. The County shall work constructively with State and Federal agencies and local industries on measures to reduce or eliminate air quality problems, including odor problems that may not fall under prescribed environmental standards.	(1) Brunswick County shall intervene as necessary on behalf of County residents who may be affected by inadequate air quality controls. Such intervention may range from informal discussions with local industries to more rigorous communications with industry or State environmental officials.	Air quality standards are established in the zoning ordinance **and will be updated in the new UDO.**
8.2 Resource Production and Management Policies		

Policy Area	Implementation Action	Commentary
8.2.0 Basic Policy Statement Regarding Resource Protection and Management Brunswick County is one of the most biologically diverse areas in the State of North Carolina. The County shall take no action nor approve of any action which would seriously or irreparable harm the long term bio-diversity and productivity of the area.	**In March 2005, the County Board of Commissioners officially supported NCDWQ's request to reclassify 120.83 acres in the Green Swamp Preserve and Myrtle Head Preserve to Unique Wetlands classification.**	
8.2.1 Productive Agricultural Lands	The County adopted the Voluntary Agriculture District (VAD) **and has voluntarily enrolled 18,361 acres as of May 2005.**	
8.2.1(a) The continued agricultural use of Brunswick County's remaining farmlands shall be encouraged through proactive planning for agricultural and open space preservation as well as through growth management policies which favor distinct, "town and country" style development patterns.	(1) The **new UDO** will be reviewed from time to time as to standards for preservation and protection of the better agricultural lands in the County.	County has adopted a voluntary agricultural district ordinance.
	(2) The County will encourage State and Federal governments to develop appropriate regulations over storm drainage and soil erosion from agricultural and forestry activities.	County encourages use of best management practices (BMPs).
8.2.1(b) Brunswick County encourages the planning, installation and on-going maintenance of community-based "cooperative gardens". Such gardens may be planned as a part of new community designs, or may be established in existing neighborhoods through the cooperative efforts of homeowners.	The County shall encourage area residents to participate in the master gardening program offered by the Cooperative Extension Service.	Includes pesticide and herbicide application training.
8.2.2 Commercial Forest Lands Commercial forestry activities shall be supported in Brunswick County, provided significant adverse impacts on natural resource systems are fully mitigated. Such activities should be conducted in accordance with the standards and recommendations of the U.S. Forest Service. The County also advocates the voluntary participation of commercial forestry interests in the State of North Carolina's best management practice program for forest management.	The County shall request and shall maintain on file a copy of applicable U.S. Forest Service standards and recommendations for commercial forestry management practices.	County relies on U.S. Forest Service to enforce commercial forestry management practices.
8.2.3 Mineral Production Areas Mineral production and mining activities will be considered on a case by case review of economic benefits and environmental and land use	(1) The locations of mineral production and mining activities shall be controlled by County policies and ordinances. No local permit shall be issued until necessary State approvals have been granted.	The **new UDO, like the previous Zoning Ordinance, will** prohibit the establishment of new

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impacts. Mining activities which would jeopardize the short or long term viability of valuable natural resources or create hazardous conditions in the County shall not be permitted.		mineral production and mining activities **that jeopardize valuable natural resources.**
8.2.4 Commercial and Recreation Fisheries Brunswick County supports efforts to maintain and enhance the fisheries resource of its waters, including water quality protection measures, nursery and habitat preservation, proper fisheries management and enforcement, aquaculture development, and artificial reef activities.	(1) The County will support educational seminars to inform local area residents and business people about the potential for aquaculture development in the County. Such educational seminars may include courses at County high schools, efforts of the local Extension Service, and course work at Brunswick Community College, and UNC-W.	Supported by Brunswick Community College aquaculture program, Cooperative Extension Service **and Brunswick County Board of Education.**
	(2) The County shall continue to support Brunswick Community College in its efforts to promote local economic development interests to establish significant aqua-cultural operations in Brunswick County.	Aquaculture program has been established.
	(3) The County will continue to provide funding in support of the artificial reef program involving, for example, the sinking of old boats and railroad cars.	Ongoing.
	(4) The County will call upon and cooperate with the State and Federal government for improved marine fisheries management.	Ongoing.
	(5) The County will continue to press for action **to the US Army Corps of Engineers and** in Congress or elsewhere, to approve funding for **the Section 206 Aquatic Habitat Restoration Project and other** studies and dredging to reopen the eastern channel of the Lockwood Folly River.	Ongoing.
8.2.5 Off Road Vehicles Brunswick County discourages the use of off-road vehicles in all fragile areas because of potential adverse environmental impacts.	(1) The County Magistrate and the Sheriff's Department will be called upon as necessary to enforce trespassing laws involving off road vehicles on properly posted private property, as provided for in the General Statutes.	Ongoing enforcement.
8.2.6 Development Impacts New development and redevelopment activities shall not be permitted which would significantly degrade the quality of natural and scenic resources in Brunswick County, prematurely diminish the predominantly rural character of the area, or create incompatibilities of scale, design, or	**UDO will incorporate such tools to greater extent than first Zoning Ordinance adopted in January 1994.**	

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land use.		
8.2.7 Peat or Phosphate Mining Impacts See the general mining policy set forth previously under section 8.2.3		
8.2.8 Gamelands/Hunting Clubs Brunswick County supports efforts to maintain and enhance public and private gamelands, including habitat protection and management and the proper management of hunting clubs and hunting activities.		
8.3 Economic and Community Development Policies		
8.3.0 Basic Policy Statement Regarding Economic and Community Development Brunswick County shall work to maintain a diversified local economy while at the same time protecting the natural and man-made environment and improving the area as a more attractive community in which to work, live and play. Economic and community development initiatives which capitalize upon and enhance a distinct "town and country" character shall be especially supported.		
8.3.1 Industries Desired and Local Assets Desirable to Such Industries Brunswick County encourages the development of clean industry in locations where appropriate services can be provided, where transportation facilities are adequate, where environmental impacts can be fully mitigated, and where surrounding land uses are compatible in nature. Brunswick County shall advocate the recruitment of new industries which are compatible with area resources and economic conditions, and to the extent possible, promote the upward mobility of low and moderate income persons.	(1) The County zoning ordinance contains several manufacturing/industrial zoning districts and an "economic development overlay" district. Such an overlay district allows the County to respond to concrete requests for new industrial development in an appropriate and flexible manner. **New UDO will continue to support.**	The County has five satellite industrial parks.
	(2) The County will continue to support efforts to actively seek industries with higher pay scales relative to existing pay scales in the County.	Ongoing.
	(3) The County continues to fund the Economic Development Commission as a principal agency in recruiting new industry to the County, as well as encouraging the expansion of existing industry.	County provides annual appropriation to EDC.

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	(4) The County will consider, when justified, funding of necessary infrastructure and targeted job training at the Community College, in support of new industrial activities in Brunswick County, possibly supplemented by the full university system available within the state.	Brunswick Small Business Center, Brunswick Economic Development Center (Winnabow), Brunswick Community College satellite facility (Leland), on site job training for industries.
8.3.2 Provision of Services to Development Brunswick County will strive, to the extent that area resources, prudent budgeting, and priority setting allows, to facilitate the expansion of public services and facilities to meet the needs of existing and future commercial, industrial, and residential development. The location and size of such services shall be coordinated with land use policies and the County**'s land development regulations.**	(1) The County shall continue with appropriately tailored engineering studies to accurately model the County's existing system, with an eye toward maximizing efficiencies and costs. **In 2005, the Brunswick County Board of Commissioners initiated a Water and Wastewater Master Plan Study to increase water availability and improve service efficiency.**	
	(2) The County will continue to coordinate transportation improvements in the area through updates to the County Thoroughfare Plan, and through review and comment on the transportation improvement program (TIP).	2001 Thoroughfare Plan Update.
	(3) The County will continue to participate in the development of the Wilmington Urbanized Area Transportation Plan.	Ongoing.
	(4) The County Commissioners will review allocations for secondary road improvements on a regular basis.	Ongoing.
	(5) The County will continue to provide its coordinated human services transportation program **(Brunswick Transit Service, Inc)**.	Brunswick Transportation System Inc. (BTSI).
	(6) The County will continue to serve in a coordinating capacity regarding extra territorial jurisdiction between nearby municipalities (e.g. Sunset Beach, Calabash).	Brunswick County ETJ Expansion Policy in effect since 1995.
8.3.3 Urban Growth Pattern Desired Brunswick County shall encourage developments which contribute to a	(1) The land classification map will be employed to direct urban level growth to appropriate locations where services can be provided.	Ongoing.

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distinct "town and country" or "village and country" growth pattern. The intent of this policy is to allow for the preservation of open space and productive farm and timber land, to minimize costs of extending infrastructure and services, to avoid higher taxes, and minimize traffic congestion associated with modern day suburban sprawl.	(2) The County's **UDO** will be continually evaluated for its ability to target and direct growth to areas consistent with the land classification map, the water distribution system, **transportation facilities** and existing and future sewer systems.	Ongoing.
	(3) The County shall employ specific provisions of **all land development regulations** and infrastructure improvements to encourage a town and country development pattern.	Ongoing.
	(4) The County will continue to enforce the flood damage prevention ordinance as a means of discouraging inappropriate development in flood prone areas.	Ongoing.
8.3.4 Types of Residential Development Desired		
8.3.4 (a) Brunswick County shall encourage a wide range of residential development forms and products, with emphasis on convenience to town or village based services. Residential developments which would isolate residents **from** necessary services, thereby increasing transportation, infrastructure, and service delivery costs, shall not be encouraged.	(1) The zoning ordinance accommodates a variety of residential development forms including but not limited to: patio homes, townhomes, manufactured homes, zero lot line and flag lot developments, and cluster developments, as well as traditional single family subdivision developments.	**New UDO will continue to** encourage more compact development through Planned Unit Development standards.
	(2) The County shall employ the **UDO** to encourage residential developments to occur in or near towns and villages and therefore convenient to urban services.	County encourages development near existing crossroad communities.
8.3.4(b) Multi-family development shall be located so as to have direct access to a state or higher level road. Access to higher density housing through existing lower density residential areas shall be strongly discouraged.	**Land Development** regulations and site plan review process shall be employed to implement this policy.	Ongoing.
8.3.5 Types of Commercial Development Desired		

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8.3.5(a) Brunswick County shall encourage commercial development to locate in town or village centers convenient to surrounding residential neighborhoods, and of a scale and design compatible with their surroundings. Automobile-oriented commercial strip development along the County's roadways shall be strongly discouraged. If highway oriented commercial development must occur, then it should be located in a commercial "node", at the intersection of two or more state or higher level roadways.	(1) The County shall employ the zoning ordinance to encourage commercial developments to occur in or near towns and villages and therefore convenient to urban services. The **UDO will continue to** direct commercial development along highways to major intersections, and in planned clusters.	Planned Unit Development standards encourage mixed-use projects; Transportation Overlay District discourages strip commercial development.
	(2) The County shall amend its development regulations to incorporate design standards for commercial development in keeping with Policy Section 8.3.5 of this plan.	Transportation Overlay District zoning.
8.3.5(b) Office and institutional development may be employed as a transitional land use between residences and more intensive forms of commercial development, provided that such transitional development is compatible in design and scale with nearby residences.	(1) The **UDO** shall be employed to implement this policy.	Ongoing.
8.3.6 Redevelopment, including Relocation of Threatened Structures		
8.3.6(a) Brunswick County supports and encourages the restoration and/or appropriate adaptive reuse of significant and architecturally important historic and cultural structures and sites.		
8.3.6(b) Redevelopment and/or rehabilitation of substandard structures within the County shall be supported through public and private sector initiatives for the economic betterment of area residents.	(1) The County will continue to participate in the Small Cities Community Development Block Grant (CDBG) Program, including opportunities for Section 8 housing **and affordable housing**.	Ongoing.
	(2) The County will continue to work for higher paying jobs and enhanced economic opportunity for local area residents as a means of providing additional income to residents for rehabilitation of their homes.	High school and community college classes provide for advanced training and skills development.
8.3.6(c) Recognizing that most erodible areas are within the planning jurisdictions of the County's municipalities, the County nonetheless		

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supports a policy of relocation and retreat, rather than shoreline hardening, when structures are threatened by shoreline erosion. (Also see policy 8.3.8(a) regarding support for beach renourishment.)		
8.3.7 Commitment to State and Federal Programs Brunswick County supports applicable State and Federal programs regarding economic and community development, especially those programs related to better jobs, water quality, fisheries, and water and land transportation system improvements.	(1) The County will continue to participate in the Transportation Improvement Program (TIP) process.	Ongoing.
	(2) **In 2004, Brunswick County residents approved a $30 million bond referendum that includes, but not limited to, construction of Applied Plant Science Facilities, Continuing Education Center and an Early Childhood Education Center.** The County will continue to participate in shared funding of Brunswick Community College.	Ongoing.
	(3) The County will continue to operate job training programs at the County Industrial Park in coordination with the Community College.	Ongoing.
	(4) The County will actively participate in cooperative regional economic development and strategic planning programs, including, for example, the Cape Fear River Corridor Study.	Ongoing.
8.3.8 Assistance to Channel Maintenance/Beach Renourishment		
8.3.8(a) Brunswick County supports the continued maintenance of navigable channels and inlets and the renourishment of the County's beaches in a timely, coordinated fashion. The County will assist, in whatever non-monetary capacity it can, to see that proper spoil areas and other channel maintenance needs are made available in support in these efforts.	(1) The County is committed to ongoing unified support for channel improvements in waterways throughout the County.	Resolution in support of reconstructing flow of the Lockwood Folly River. Agreement with Natural Resources Conservation for removal and disposal of debris from county waterways.

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	(2) The County will support efforts to place spoil materials from channel maintenance and dredging on Brunswick County beaches, including each of the County's incorporated beach municipalities, as warranted.	US Army Corps of Engineers manages 49 spoil material disposal sites in Brunswick County.
	(3) The County will continue to press for action **to the US Army Corps of Engineers and** in Congress or elsewhere, to approve funding for **the Section 206 Aquatic Habitat Restoration Project and other** studies and dredging to reopen the eastern channel of the Lockwood Folly River.	Resolution in support of reconstructing flow of Lockwood Folly River.
8.3.8(b) Brunswick County supports the existing cooperative planning and cost sharing program among the Federal, State and municipal beachfront communities as the most equitable and practical method for funding beach renourishment projects.		
8.3.9 Energy Facility Siting and Development Due to the inherent conflicts with the growing, substantial, tourist-based sector of Brunswick County's economy, the development of off-shore energy facilities and associated on-shore staging and service bases shall not be supported. Similarly, oil, natural gas and related refining operations shall not be supported in Brunswick County.	(1) The County shall pursue the development of performance standards for private industry, including strict standards for energy facilities.	Performance standards developed for zoning districts.
8.3.10 Tourism		
8.3.10(a) Brunswick County encourages the development of a high quality tourism trade as a primary element of the County's economic future.	(1) The County will continue to provide funding on an annual basis to the Southport-Oak Island and South Brunswick Chambers of Commerce for tourism promotion.	Ongoing.

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Investments in education and training, services, facilities, growth management, and community appearance shall be employed in furtherance of this objective.	(2) The County has begun and will continue to develop a litter reduction program, the purpose of which is to educate and organize public and private organizations and individuals to enhance the County's appearance. **(3) The County also has implemented an annual one-day roadside clean-up program with Volunteer County employees.**	Annual Beach Sweep, Spring/Fall Clean-up, Future Generations Litter Reduction Program, Adopt a Highway Program. County enforcement program for roadside litter. Brunswick County has implemented a program called "ACE" Appearance and Code Enforcement. This program was established to promote the esthetic appearance of the County through specific action regarding Junked/Abandoned Vehicles, Junked Mobile Homes and Dilapidated Housing.
8.3.11 Beach, Waterfront and Boating Access		
8.3.11(a) Brunswick County encourages efforts to plan for and provide public access to the County's beaches, shores, rivers, streams, and waterfronts, in accordance with the County's shoreline access plan and commensurate with anticipated population increases.	(1) The County shall update the 1990 Shoreline Access Plan during the next five year period.	Shoreline Access Plan has not been updated.
8.3.11(b) The provision of boating access facilities by the County, State, towns and private interest shall be encouraged and supported as an important means of public access to area waters.	(1) The County shall update the 1990 Shoreline Access Plan during the next five year period.	Shoreline Access Plan has not been updated.
8.3.12 Beautification, Including Signs, Roadway Appearance and Litter		

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8.3.12(a) Brunswick County shall employ a combination of incentives and controls to encourage beautification measures which preserve the natural amenities of the community, especially as seen from the County's highways and roadways.	(1) The County **land development regulations** shall be employed to implement this policy.	Ongoing.
8.3.12(b) The County shall continually improve its signage standards so that as the area grows, additional signage will not visually overwhelm the County's roadways, thereby detracting from the beauty of the area and devaluing its attractiveness as a place in which to live or vacation.	See action immediately above.	
8.3.12(c) Brunswick County views junked cars, "permanent" yard sales, flashing signs, and other roadside clutter as eyesores in the community, a detriment to a high quality of life, and a deterrent to tourism and economic development efforts. Brunswick County shall, in cooperation with the County's municipalities, work to address these problems and eliminate them from our roadsides.	(1) The County shall facilitate a meeting of local governments in the County regarding roadside litter and other visual blight related activities.	Appearance Code Enforcement Program Enforcement coordinated with municipalities.
8.3.12(d) Brunswick County shall not tolerate roadside litter and, in cooperation with the County's municipalities, shall enforce strict measures against littering.	**(1) The County also has implemented an annual one-day roadside clean-up program with Volunteer County employees.**	
8.3.13 Airports Brunswick County supports the continued development of the Brunswick County Airport and will encourage land development patterns which allow for adequate airport expansion and improvements.	(1) Brunswick County will continue to provide staff assistance in support of air space zoning for the Brunswick County Airport, in keeping with the wishes of the jurisdiction within which the airport falls, the Southeast Sanitary District.	Airport Height Control Ordinance adopted June 1999.
8.3.14 Education		
8.3.14(a) The attainment of a quality educational system shall be recognized as a critical factor in the future economic development and quality of life in Brunswick County. Actions taken by the County in support of education shall reflect the high priority given to this issue.	(1) In light of the critical importance of primary education to the future of Brunswick County, the County Commissioners, in coordination with the Board of Education and the Brunswick Community College Board of Trustees, and with appropriate assistance from the UNC System, will place increasing emphasis on the development of a quality educational system in the County. The important linkage between a good educational system	

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	and economic development/quality of life issues will be emphasized during such efforts.	
8.3.14(b) Responsibility for improvements to the educational system shall not be placed solely with policy makers, professional educators and administrators. Programs and actions which emphasize (1) parental involvement and (2) assistance from the business community shall be strongly pursued.	(1) Activities which encourage ongoing school visitations and workshops by parents, and by leaders in business and industry shall be especially emphasized.	
8.3.14(c) Appropriate educational and training programs shall be encouraged to help unemployed and underemployed local residents take advantage of business expansion and to stay abreast of new technologies.	(1) The County will continue to provide support for the Brunswick Community College Industrial Education Center, housed in Brunswick County's Industrial Park in the Leland area.	
8.3.15 Solid Waste Management		
8.3.15(a) Local area requirements for solid waste disposal facilities shall continue to be anticipated through advanced planning; facilities shall be located and designed so as not to adversely impact significant natural or manmade resources.	(1) Long range planning for the County's solid waste management needs, including alternative waste disposal methods and cooperative regional solutions, shall continue.	
	(2) The County will continue to educate and enforce efforts to curtail construction material dumping at trash collection sides.	
8.3.15(b) Brunswick County recognizes the need for a regional solution to the solid waste issue and will support efforts toward that end.	See implementation action (1) immediately above.	
8.3.15(c) Research and development of recycling and resource recovery programs, whether public or private, shall be encouraged and supported	(1) The County will continue to coordinate the recycling efforts of the incorporated municipalities in cooperation with those of the County.	
8.3.16 Growth and Development Controls Growth and development controls shall be employed to promote a "town and country" pattern of concentrating urban services cost-effectively within developing town and village centers.	(1) Efforts to improve and refine the County's zoning in the unincorporated areas of the County will continue to be a priority **in its new UDO**. Opportunities to implement a town and country growth pattern shall be sought during future evaluations of the ordinance.	
	(2) The County will support State initiatives for the appropriate regulation of livestock production facilities.	

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	(3) The County will accommodate and provide proper planning for four classes of manufactured housing, as specified in the zoning ordinance **and new UDO.**	
	(4) Commercial zoning districts and driveway access standards will be implemented and periodically refined to discourage inappropriate stripping of development along the County's highways.	**Adopted TOZ as development standards along major thoroughfares.**
8.3.17 Tree Cover, Landscaping and Buffering The County shall encourage efforts to preserve and enhance tree cover in new development and redevelopment. The County also encourages the use of native landscape plants and materials in new and existing development to buffer incompatible uses, improve appearances, absorb stormwater runoff, and moderate air temperature swings.	(1) Current efforts to revise, update and improve the County's subdivision regulations, particularly with regard to open space and tree preservation, will continue.	Major subdivisions required to set preserve minimum percent of open space.
	(2) The County shall evaluate the need for **additional** development standards related to parking lot landscaping **in its UDO.**	Standards for parking lot landscaping adopted.
8.3.18 Transportation		
8.3.18(a) Brunswick County shall be an active participant in plans and actions related to transportation improvements to and within the County. Transportation improvements shall be coordinated with land use planning, infrastructure improvements, and economic development efforts.	(1) The County will continually work to improve road access standards to protect the integrity of significant traffic-carrying roadways through the County.	
	(2) The County Commissions will review allocations for secondary road improvements on a regular basis.	
	(3) The County will continue to provide its coordinated human services transportation program **(Brunswick Transit System, Inc.).**	
8.3.18(b) Brunswick County supports regional intergovernmental planning and cooperation for transportation improvements to and within southeastern North Carolina and northeastern South Carolina.	(1) The County will continue to coordinate transportation improvements in the area through updates to the County thoroughfare plan, and through review and comment on the Transportation Improvement Program (TIP).	
	(2) The County will continue to participate in the development of the Wilmington Urbanized Area Transportation Plan **such as Carolina Bays Parkway Extension.**	
8.3.18(c) Continued use and planned development of the Cape Fear River, Atlantic Intracoastal Waterway, and the Brunswick County Airport shall be encouraged.	(1) The County will actively participate in cooperative regional economic development and strategic planning programs, including for example, the Cape Fear River Corridor Study.	

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	(2) Brunswick County will continue to provide staff assistance in support of air space zoning for the Brunswick County Airport, in keeping with the wishes of the jurisdiction within which the airport falls, the Southeast Sanitary District.	
8.3.19 Sunny Point Military Ocean Terminal Due to the regional economic significance of the Sunny Point Military Ocean Terminal and its strategic role in our nation's defense system, Brunswick County supports its continued presence. The County also supports cooperative, long range planning for the future of the terminal property as its mission may evolve over time.	(1) The County shall meet with appropriate officials of the Sunny Point Military Ocean Terminal on an ongoing basis to discuss opportunities for joint long range planning for the terminal property, areas around it, and transportation facilities serving it.	
8.3.20 Capital Improvement Planning		
8.3.20(a) Brunswick County shall plan ahead for the timely and cost effective provision of major capital improvements and services on the basis of anticipated growth and demand.	(1) The County shall prepare a capital improvement plan to address significant capital expenditures anticipated for the next five to ten years.	
8.3.20(b) Coordination between the County, its municipalities, sewer districts, and major industries shall be encouraged in planning and providing for capital facilities and services.	(1) The above mentioned CIP shall be coordinated, to the extent practical, with area municipalities and other service providers.	
8.3.21 Parks and Recreation As the population of Brunswick County continues to grow, the County shall support a commensurate increase in the development, maintenance and enhancement of its parks, open space and recreational facilities, including sound and ocean access facilities. The County shall explore alternative means of funding for parks facilities as necessary, including State and Federal grants, development impact fees, park user fees, general obligation bonds, and other sources of revenue.	(1) Part of the above mentioned CIP shall address long range park and recreation needs in the County.	Parks and Recreation Master Plan 2002-2007 adopted January 2002.
8.3.22 Long Range Planning Given the accelerated growth of the County and projections of continued	(1) The County **completed a 20-year planning initiatives titled *Brunswick Tomorrow: Our County, Our Vision, Our Decision* in February 2004.**	Ongoing **initiative.**

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rapid growth, Brunswick County shall continue to embrace a bias for long range, strategic planning, with near term priorities established annually in conjunction with the County's budget process.	(2) The Planning Board shall continue to meet twice-monthly so as to allow for discussions of long range planning issues on a routine basis.	Ongoing.
8.4 Public Participation and Coordination Policies		
8.4.0 Basic Policy Statement Regarding Public Participation Brunswick County believes that an ongoing, public information program, combined with meaningful opportunities for citizen involvement in County decision-making, is the foundation for effective public participation in County government.		
8.4.1(a) Public Education on Planning Issues Brunswick County shall continue to employ public participation techniques at public meetings which actively involve the public in identifying and discussing planning issues, thereby **facilitating** a form of "engaged" education. Media attention concerning such meetings is also strongly encouraged and thankfully acknowledged for the public service they provide.	(1) The County will continue to conduct special public meetings as necessary to address important growth issues and proposals in Brunswick County.	Annual municipal/county workshop to address issues of mutual interest, e.g., bike trails, smart growth issues.
	(2) The County will continue to provide advance notice and interviews with the press in an effort to inform the public as to the purpose of public meetings in advance of such meetings.	Ongoing.
8.4.1(b) Continuing Public Participation in Planning Following plan adoption, Brunswick County shall employ frequent, constructive and open regular meetings of the Planning Board and County Commissioners as the primary vehicle for engaging public participation in ongoing planning issues and development projects.	(1) The Planning Board will periodically evaluate its effectiveness in achieving this policy, and will consider special actions to encourage participation.	Ongoing.
8.4.1(c) Public Input in Developing Policy Statements Citizen input in the development of growth policies shall be supported through attention given to the issues and priorities which the public identified during early input meetings.	(1) The County will continue to provide for open meetings of the Planning Board and County Commissioners in both the letter and spirit of the open meetings law of the State of North Carolina.	
8.4.1(d) Intergovernmental Coordination in Local Government Planning Effective public participation in County government planning shall also include coordination with municipal governments and utility districts in the County. The County shall continue to act to facilitate improved	(1) The County shall continue its recent initiatives established over the past 2-3 years in facilitation joint meetings of all local governments and service districts in the County.	

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communication and coordination on planning matters among local governments in the County. The Land Classification Map of the County land use plan shall be employed as a specific planning tool to identify and affirm County town and village growth centers.	(2) The Planning Board shall facilitate an annual planning symposium with the various towns on topics of common interest and concern. e.g. adult-oriented businesses, sign regulations, landscape standards, roadside litter, stormwater management, planned unit development standards, etc.	
8.5 Storm Hazard Mitigation/Post-Disaster Recovery, & Evacuation Policies and Plans		
8.5.0 The County shall continually seek to establish procedures and take actions to reduce the potential for the loss of life and property damage prior to a storm event, and to provide a framework for orderly reconstruction in the aftermath of a hurricane or other significant damaging event.		
8.5.1(a) Storm Effect Mitigation (1) High Winds: Brunswick County shall continue to enforce the North Carolina Building Code, particularly those provisions which require construction standards to meet resistive factors, i.e. design, wind velocity.	(1) The County will continue to provide building inspections services for the unincorporated area, as well as some of the municipalities in the County, including the enforcement of all provisions relative to storm safety and resistance.	
(2) Storm Surge: Recognizing that most parts of the County subject to storm surge are within the regulatory jurisdiction of municipalities, Brunswick County nonetheless supports the development standards of the State CAMA Ocean Hazard Area of Environmental Concern (AEC). These standards help ensure that structures particularly susceptible to storm surge (e.g. first row) are set back from the ocean a distance based on the average annual erosion rate at that location.	(1) The County will **adopt the new Lumber River and Cape Fear River Basin Flood Maps completed by the State of NC** to provide a more accurate picture of land located in hazardous locations.	
(3) Flooding: The County is an active participant in the National Flood Insurance Program and is supportive of its hazard mitigation elements. The County shall continue to seek improvements in development standards which would result in lower insurance premiums for County property owners. The County also supports enforcement of State and Federal wetlands development permit processes in areas potential susceptible to flooding.	(1) The County will continue to enforce the flood damage prevention ordinance.	Ongoing.
(4) Wave Action and Shoreline Erosion: The County is supportive of the CAMA development permit process for oceanfront and estuarine shoreline areas and the requisite development standards which encourage shoreline preservation, dune stabilization, wave action		

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absorption, and other mitigation measures.		
8.5.1(b) Discouragement of Hazardous Development (1) Brunswick County shall discourage high intensity uses and large structures from being constructed within the 100-year floodplain, erosion-prone areas, and other location susceptible to hurricane and flooding hazards.	The County shall review its zoning map and **land development** ordinances concerning commercial and high intensity residential districts as related to flood prone or other high hazard areas. Appropriate zoning amendments may then be undertaken.	Ongoing.
(2) Brunswick County, through its Emergency Management Office shall encourage each of its communities to participate in hurricane preparedness, education and information sharing programs at least once per year. Such public outreach programs should educate the public as to storm resistant building design and construction standards, as well as local government policies on evacuation, reentry, restoration of services and reconstruction.	(1) Continual improvements **of** the County's administration of the 911 emergency systems will be sought.	Ongoing.
	(2) The street signage program will continue.	Ongoing.
	(3) The County-wide street naming and addressing program will continue.	Ongoing.
(3) The County will periodically conduct studies to analyze both the feasibility and benefits of revising local building and development standards to lessen the effects of storm damage. Included shall be an examination of the County's floodplain management, **land development** and building standards.		Ongoing.
8.5.1(c) Public Land Acquisition **Brunswick County shall participate in the purchase of land parcels located in hazard areas or rendered unbuildable by storms or other events for the purposes of shorefront access.**		Ongoing. **Revision to 1998 CAMA Land Use Plan.**
8.5.1(d) Evacuation and Emergency Management (1) Brunswick County, in cooperation with municipal and State officials, shall annually evaluate the impact of continued growth on existing transportation facilities with regard to evacuation routes and times. The intent shall be to identify and address needed transportation improvements well in advance of a crisis.	(1) An annual report shall be presented to the County Commissioners summarizing any significant developments or concerns regarding hurricane evacuation.	Ongoing.
(2) Brunswick County recognizes the critical role that area fire departments, rescue and other emergency personnel play in managing emergency situations. The County shall work cooperatively with such emergency personnel to plan for and respond to emergencies and shall facilitate cooperation among emergency personnel.		Ongoing.
8.5.2(a) Emergency Management Plan and Near Term Response The County shall prepare and annually update an Emergency Management and Operations Plan, in concert with municipal and State		Ongoing.

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Emergency Management officials. The plan shall encompass pre-storm and immediate post storm activities and policies of the County, including coordinated policies on evacuation and reentry to damaged areas. Important elements of the plan and its policies shall be publicized, particularly at the beginning of each hurricane season.		
8.5.2(b) Local Post-Disaster Reconstruction Policies Redevelopment in the most hazardous areas may be discouraged or prohibited if post storm analysis indicates that rebuilding would be unsafe or unwise. Structures and sites destroyed by 50% or more of their value and which do not conform to the County's building regulations, zoning ordinances, and other storm hazard mitigation policies, shall be redeveloped according to current standards. In some instances, this may mean relocation of construction or no reconstruction at all. Structures and sites suffering damages at less than 50% of their value shall be allowed to be restored to their original condition prior to the storm.		Ongoing.
8.5.2(c) Recovery Task Force The Board of County Commissioners of Brunswick County shall be ultimately responsible for supervising the implementation of policies and procedures contained in the disaster relief and assistance plan, and the post-disaster recovery policies of the land use plan. The Board of County Commissioners shall also have at their disposal a predetermined Recovery Task Force to carry out their directive regarding recovery activities following a major storm event. The composition and duties of the Recovery Task Force shall be specified in the County's Emergency Management and Operations Plan.	(1) The County's Emergency Services Center will serve as a logical command center for the directives of the County Commissioners during and after a major storm event.	Ongoing.
8.5.2(e) Staging Schedule for Reconstruction and Repair (1) To deal with the large number of requests for permits after a major storm, the County shall employ a "building permit triage" system for orderly issuance of building permits. Criteria for the order of issuance shall be developed in advance, with the need for modification acknowledged based upon the specific circumstances being faced.		Ongoing.
(2) The Board of County Commissioners may declare a moratorium of up to 180 days on the permitting of any new construction, including new utility hookups, or redevelopment construction that would increase the intensity of the land uses existing before the hurricane.	(1) Implementation of any such moratorium will be carried out if, in the opinion of the Board of County Commissioners, insufficiently planned new construction would result in a compromise of the public health, safety and general	

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	welfare.	
(3) Immediately following a damaging storm event, the County shall work with all appropriate utility and service companies to implement a planned sequence for the restoration of public utilities and services, with allowance for adjustment to deal with circumstances at hand. Generally, priority shall be given to those repairs that will restore service to critical locations (e.g. hospital) first and secondarily, to those repairs that will restore service to as many persons as soon as possible.	(1) This policy will be implemented in accordance with the best practices of public and private utilities regarding the restoration of service following a major storm event.	Ongoing.
8.5.2(E) Public Infrastructure Repairs/Replacement (1) The County encourages underground installation, replacement and storm proofing of public and private utilities and infrastructure.		
(2) In the event of extensive hurricane damage to public utilities requiring replacement or relocation of these utilities, efforts shall be made to locate damaged utilities away from hurricane hazard areas or to strengthen their construction.	(1) The County will monitor all reconstruction efforts involving both public and private utilities, including roads, to provide for less vulnerable redevelopment after a hurricane.	