

Wilson County Multi-Jurisdictional Hazard Mitigation Plan Executive Summary

In 2004, the County Board of Commissioners adopted the Wilson County Multi-Jurisdictional Hazard Mitigation Plan. During the same independency as well as the City of Wilson adopted their standalone plan. During the 2009 update, the County and all the original participating localities, along with the City of Wilson combined their efforts to form a more comprehensive countywide approach to hazard mitigation planning.

Came together.....The County extended an invitation to municipalities within the County to participate in the update and to expand the scope of the plan to a Multi-Jurisdictional Hazard Mitigation Plan. The City of Wilson, along with the Towns of Black Creek, Elm City, Lucama, Saratoga, Sims, and Stantonsburg chose to participate in the planning process. Plan accomplishments are outlined in further detail within each of the respective localities mitigation action goals, starting on page ES-6. The city of Wilson, in addition to the proposed actions, documented the prior achievements from the 2004 plan; those are specifically outlined in table ES-1.

Why Develop a Hazard Mitigation Plan?

The primary reason for developing a Hazard Mitigation Plan is to reduce a community's exposure to natural hazards by taking proactive, pre-disaster planning steps to limit development in hazard sensitive areas, particularly floodplain or flood hazard areas. The second reason is to comply with the hazard mitigation planning requirements established by the Federal Emergency Management Agency (FEMA) and the NC General Assembly and implemented through the NC Division of Emergency Management. The completion of this plan update provides compliance with the Stafford Act and Section 322 of the Disaster Mitigation Action of 2000, allowing Wilson County and all of the participating localities, funding opportunities for post disaster assistance in the event of a natural disaster. It should be noted that each locality is eligible by their own right for post disaster funding, not necessarily in combination with any other participating entity.

In recent years, the frequency and impact of natural disasters has increased not because natural hazards occur more frequently but because more people are choosing to live and work in locations that put them and their property at risk. "Since the 1960s, tremendous numbers of Americans have chosen to live in areas at risk from coastal storms, repeated flooding, and seismic activity, often with little or no attention to the need for sound building practices or land use policy. As a result, risk of disasters occurring in the wake of natural hazards has grown exponentially. For instance, by the year 2010 the number of people residing in the most hurricane-prone counties throughout the nation will have doubled. Likewise, while floods have caused a greater loss of life and property and have disrupted more families and communities than all other natural hazards combined, the rate of development in flood-prone areas continues to escalate, putting more people and property in danger."¹

While natural hazards cannot be prevented, local communities can use various means to reduce the vulnerability of people and property to damage. Communities can reduce exposure to future natural hazards by managing the location and characteristics of both the existing and future built environment. By utilizing location and construction techniques, a community can mitigate negative impacts and reduce future damage to both human lives and property.

¹ Local Hazard Mitigation Planning Manual, North Carolina Division of Emergency Management, November 1998, p. 1.

Hazard mitigation is defined as “any action taken to eliminate or reduce the long-term risk to human life and property from natural and technological hazards”. Hazard mitigation includes three types of activities:

1. Structural mitigation – constructing dam and levee projects to protect against flooding, constructing disaster-resistant structures, and retrofitting existing structures to withstand future hazardous events;
2. Non-structural mitigation - development of land use plans, zoning ordinances, subdivision regulations, and tax incentives and disincentives to discourage development in high-hazard risk areas; and
3. Educational programs – educating the public about potential natural hazards, the importance of mitigation, and how to prepare to withstand a disaster.

“A fundamental premise of mitigation strategy is that current dollars invested in mitigation activities will significantly reduce the demand for future dollars by reducing the amount needed for emergency recovery, repair, and reconstruction following a disaster. Mitigation also calls for conservation of natural and ecologically sensitive areas (such as wetlands, floodplains, and dunes) which enables the environment to absorb some of the impact of hazard events. In this manner, mitigation programs help communities attain a level of *sustainability*, ensuring long-term economic vitality and environmental health for the community as a whole.”²

Participants in the Planning Process

The planning process was overseen by the Wilson County Multi-Jurisdictional Hazard Mitigation Stakeholders which met regularly during the planning process. The stakeholders also identified other interested parties who were invited to participate in planning meetings.

Plan Adoption

Once the draft plan is approved by NC Emergency Management (NCEM) and the Federal Emergency Management Agency (FEMA) the Wilson County Multi-Jurisdictional Plan will be adopted by the Wilson County Board of Commissioners and the respective elected boards of the municipalities of Black Creek, Elm City, Lucama, Saratoga, Sims, Stantonsburg and Wilson under the authority and police powers granted to the counties and municipalities of the State of North Carolina by North Carolina General Statutes (N.C.G.S., Chapter 153A and Chapter 160A).

Study Conclusions

FEMA requires that each community nationwide evaluate exposure to thirteen known natural hazards:

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|--------------------------------|---------------------------------------|--------------|
| • Coastal and Riverine Erosion | • Floods | • Tsunamis |
| • Dam and Levee Failures | • Hurricanes and Coastal Storms | • Volcanoes |
| • Droughts and Heat Waves | • Expansive Soils and Land Subsidence | • Avalanches |
| • Earthquakes | • Severe Storms/Hail/Tornados | • Wildfires |
| • Winter Storms and Freezes | | |

² Local Hazard Mitigation Planning Manual, p. 4.

Through the planning process it was determined that the County is not at risk for coastal erosion, tsunamis, avalanches, or volcanoes and that there is “low” risk of riverine erosions, dam and levee failures, earthquakes, and expansive soils/land subsidence (including landslides/sinkholes). Six hazards were rated “moderate” risk – droughts and heat waves, floods, hurricanes and coastal storms, severe storms and tornadoes, wildfires, and winter storms and freezes. No hazards were rated as being a “high” risk.

Droughts and Heat Waves

In general, communities can have little influence or impact on mitigating the impact of droughts/heat waves on the local government level except through ensuring adequate water supplies for normal circumstances and through implementation of water conservation measures when drought conditions are imminent. Similarly, heat waves have wide ranging effects that are almost impossible to combat at the local government level. Local communities, therefore, must depend upon State and Federal agencies for assistance.

Floods

Flooding is often associated with hurricanes and coastal storms (most often general flooding) as well as with severe summer storms (typically flash flooding). Floods are the easiest hazard to quantify and isolate as flooding occurs in known locations.

The severity of a flood is generally dependent upon the amount of rainfall, prior soil conditions (including ground cover), and in the case of coastal counties, the severity (height) of the storm surge. Flood hazard vulnerability can be decreased through adoption and enforcement of local land use regulations and through cooperative, regional efforts to ensure that coastal and river front properties are elevated for protection and that upstream jurisdictions do not contribute to increased downstream flooding problems.

High Winds (Severe Storms/Tornadoes and Hurricanes/Coastal Storms)

Severe storms and tornadoes as well as hurricanes and coastal storms present high wind hazards. This hazard is mainly combated through building codes, building construction and proper placement of trees and tree pruning to reduce the likelihood of damage caused by falling trees and limbs. Enforcement of the current State building code and enhancement of the code in regards to wind resistance will prove the most beneficial in addressing high winds.

Wildfires

Fortunately, wildfires in North Carolina, although frequent, are not normally a serious threat to large areas as is the case in western states where dry weather conditions and large expanses of timber increase the likelihood and extent of the impact of a wildfire. The North Carolina Division of Forest Resources has the responsibility for protecting state and privately owned forest land from wildfires. The program is managed on a cooperative basis with all one hundred counties in the State. The State fire program emphasizes fire prevention efforts; pre-suppression activities (including extensive training of personnel); aggressive suppression efforts on all wildfires; and law enforcement follow-up.

Winter Storms and Freezes

Local governments also look to the State and to private utility companies for leadership in dealing with winter storms/freezes. The typical effects of snow and ice accumulation - loss of electrical power, phone, and cable service and treacherous road conditions - can be only minimally addressed at the local level. (The exceptions would be larger cities which have more snow/ice removal equipment and manpower and governments that own the local electrical distribution system.)

Community Goals

Wilson County and the seven participating municipalities developed a list of hazard mitigation goals and objectives that set the framework for development of hazard mitigation actions:

Mitigation Actions

New mitigation actions for Wilson County are outlined in Table ES-2. These are the mitigation actions that are to be undertaken by the County as the lead agency with the municipalities serving in a supporting role where appropriate. Separate mitigation action tables for the seven municipalities follow as Tables ES-3 through ES-9.

Goal #1 Protect the public health, safety and welfare by increasing public awareness of hazards and by encouraging collective and individual responsibility for mitigating hazard risks.

Objective 1.1 The County and municipalities will engage in activities and practices that will help mitigate the impacts of natural hazards.

Objective 1.2 The County and municipalities will implement a public awareness campaign to educate citizens of the possible hazards associated with locating in floodplains and of measures that can be taken to lessen impacts of future floods.

Objective 1.3 The County and municipalities will work to ensure that emergency services are adequate to protect public health and safety.

Goal #2 Improve technical capability to respond to hazards and to improve the effectiveness of hazard mitigation actions.

Objective 2.1 The County and municipalities will work together to develop policies that limit the provision of public services (water and sewer) to proposed new development in flood hazard areas.

Objective 2.2 Wilson County and the participating municipalities will continue to evaluate participation in the Community Rating System to help monitor hazard mitigation efforts and to improve the affordability of flood insurance for citizens.

Goal #3 Enhance existing or create new policies and ordinances that will help reduce the damaging effects of natural hazards.

Objective 3.1 The County and municipalities will continue to ensure future development occurs in such a way as to protect wetlands, floodplains, and other natural features that serve to reduce flood hazard susceptibility.

Objective 3.2 The County and municipalities will enforce National Flood Insurance Program (NFIP) development standards and also study additional methods that would help prevent increases in flood velocities and levels that endanger both people and property. (Some of the municipalities will be adopted flood damage prevention regulations for the first time on November 1, 2004 as required by NCEM/FEMA.)

Goal #4 Protect the most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions.

Objective 4.1 The County and municipalities will continue to restrict development in known or predictable pathways of natural hazards such as in identified floodplains. Where hazard locations cannot be predicted, as in the case of hurricane force winds, the County and municipalities will continue to ensure that new structures are built to be as resilient as possible to the impacts of a natural hazard.

Objective 4.2 While recognizing that property owners have the constitutional right to put land to an economically viable use, the County and participating municipalities will honor this right while working to limit development in areas that may cause emergency workers to put lives at risk to rescue someone from a structure knowingly built in a hazardous area.

Table ES-1: 2004-2009 City of Wilson Hazard Mitigation Plan - Mitigation Action Plan Accomplishments

Action	Description	
Hazard Advisory Council	In 2005, the activity was underway for the Advisory Committee to convene beginning in Jan 06. In 05, problems arose due to staff changes and the abundance of other pressing projects. This continued in 06 as they experienced continued staff turn-over and other pressing projects. It was decided that the 04 HMUP needed revising and to include more standard operating procedures. They decided to reassemble in early 07 to discuss and plan for needed updates including the FEMA mandated 5-yr update.	
Improve Community Shelters	In 05, shelters were increased from 3 to all 7 schools and 8 additional ones as well. 5 of these can be used for long term use (2 to 5 days), the others function as back-up temporary shelter for hazardous events. In 06, Red Cross shelters were reorganized and redistributed to 2 newest schools in community which can sustain heavier wind loads, if extra schools are needed, the other 5 can be placed online as needed but aren't as favorable. . Red Cross's capability of providing meals 3 days/week for 7-10 days has increased from 4,000 to 36,000 meals/day. 7 feeding stations can be setup within County, 4 in the City, within 6 hours after wind dies down.	
Improve Coordination and Communication	In 2005, a video covering hurricane preparedness entitled "Before, During, and After the Storm" was developed and aired frequently on the City public channel. The local newspaper featured articles on Wilson vulnerabilities which included improvement to make the City more resistant and hurricane-prepared. The website features the HMP and links to the County's EM programs. Website also includes "My Neighborhood" with flood plain maps and parcel level to determine extent of floodplain on resident's property. In 2006, many shows were broadcast on Channel 8 about city work that show what has been done to limit flooding, streets to avoid, how fire personnel were trained more efficiently, and a fire safety program. Fire Dept to receive specialized equipment to allow EMS, Fire, Police, etc to cross-communicate. City recently adopted the National Incident Management System to train emergency personnel to communicate more effectively and allows for future funding and participation of all emergency-response related personnel. Information on Spanish populations addressing emergency preparedness and shelter locations has been developed and includes advertisements on the radio and TV as well as flash cards with symbols for key words used by staff and by volunteers. In 2007, City of Wilson has a TV station on site; Channel 8 improved programming available in emergency, including more on fire safety. Mass dialing fully operational. Fiber optic network was installed with 1st customers coming online during first quarter of 2008. Fire Department still using video conferencing and received grant to purchase digital sign to be used for amber alerts, weather alerts, emergency information, etc.	
Keep Utilities On	2005	Water Treatment- back up generator added
		Gas Division - Rebuilt/replaced 3 regulator station to better system pressure, removed 2 potentially dangerous regulators, installed residential meters in locations away from ignition sources, updated GIS with new, replaced, or abandoned gas main and service lines.
		Waste Water Treatment- Installation of 4 auxiliary power generator sets and off-site pumping stations.

Keep Utilities On	2006	Electrical Infrastructure - Generator for City Hall Complex, substation signage has been installed that is bilingual and displays GPS location as well as emergency numbers, OMS System was implemented.
		Water and Sewer Infrastructure - Portable regenerator was rebuilt that can be used to power one of 2 remaining pumping stations (20 stations and 18 have permanent generators). A new administration and lab facility at the Waste Water Treatment plant has eliminated nuisance flooding at the old facility with its leaking roof. Solid waste handling stations were moved out of flood hazard areas. A revised Spill Prevention and Control Plan were developed for WWTP to address hazardous spills in 05. Three generators have been installed at the water and sewer plant with only one possibly still needed.
		Fire Department - 10 personnel trained in swift water rescue and one will soon reach State Rescue Technician Instructor level and be able to train the others. Main fire station has been further protected from flooding with the build-out retrofit in 03 when drainage was rerouted via an added swell.
		Police Department - Computer operations have been moved out of the basement. Servers are still there.
		Communication Operations - City's fiber optics now serve major City facilities and are being expanded to cover corporations and service providers within the community.
	2007	Electrical Infrastructure - Completed installation of a spare transformer bank at Substation #6. Refurbished and upgraded the City's existing mobile transformer. Fiber optic network has been run to all substations to allow for communication. SCADA will be completed next year. New substation under construction is located outside of flood hazard area. Generator at Operations Center has been replaced with a larger one to support the fiber optic network.
		Gas Department- Isolation tracing available on all vehicles.
		Wastewater Infrastructure- WWTP has been flood-proofed using steel plats and sandbags.
		Fire Department- Department conducted the unified command and control exercise for all emergency support personnel (Homeland Security requirement). Mobile GIS is available in all vehicles.
		Police Department- All staff fit tested for gas masks. Servers in basement have been installed in rack mounts to alleviate flooding problems.
Improve Floodplain and Drainage Systems	2005 - Flood Plain Ordinance approved to further restrict development in Floodplain Fringe by limiting construction to only 50% of the area in the floodplain fringe that is further away from the floodway. Stormwater Division looked at possibility of buying out some commercial properties prone to flooding, no funding yet. RFP for Hominy Swamp Drainage Basin Plan (City's central drainage basin) awarded to Jewell Engineering who will finish plan by Dec. 05. Will address critical flooding problems and make recommendations for addressing blockage and other restrictions that cause flooding.	
Improve Floodplain and Drainage Systems	2006 - Stormwater Infrastructure Hominy Swamp Stormwater Master Plan was completed and identified 19 alternative activities and projects to improve the overall drainage system. Ditch cleaning continues with three major projects (Creek Side Subdivision, Sherwood Forest, and Queen Street area) assisted in reducing nuisance flooding problems. State mandated Water Quality Detention Ponds throughout the City jurisdiction are inspected on a regular basis and with aggressive enforcement owners are required to make necessary repairs where deficiencies are discovered.	

	Neuse River Basin City staff considering additional buffering requirements that will increase protection areas along streams.
Improve Floodplain and Drainage Systems	Stormwater Infrastructure Outfall improvements made in the Riverbirch Subdivision along Saddle Run Road to improve drainage. Implementer measures to assure pond compliance. Beginning to keep track of all conservation easements. Set up a Pre/Post Severe Weather Plan which sets up zones for Public Service Departments to remove obstructions from storm drainage systems prior to storm events. Four storm drainage improvement projects completed. Ditch cleaning projects completed off Aycock St in 2 locations and at intersection of Dogwood Lane and Forest Hills Rd. Performing drainage surveys for the worst areas of localized flooding.

Source: City of Wilson

Table ES-2: Wilson County Multi-Jurisdictional Hazard Mitigation Plan - Hazard Mitigation Actions

Action #	Wilson County Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Preventive Actions							
P-1	Updated DFIRM floodplain maps were effective in 2004.	Flood	1.1 3.1 3.2	High	NCDENR	P&I	Completed and maps adopted 2004
P-2	Evaluate benefits of participation in the Community Rating System (CRS).	Flood	2.2	Moderate	Local	P&I	2010-2011
P-3	Add drainage as an issue to be discussed during Technical Review Committee review of proposed development plans.	Flood	3.1	High	Local	P&I	2009
P-4	Continue to support the NC Sedimentation Control Commission efforts to ensure erosion and sedimentation control measures are properly installed and maintained during construction.	Flood	3.1	High	Local State	P&I	Ongoing
P-5	Comprehensive Land Use Plan completed - Update 1990 Wilson Growth Plan; - Develop more specific land use categories and clearly delineate areas that are unsuitable for growth and development; - Develop an open space plan; target key properties for an open space acquisition program. (Use the properties being purchased through the FEMA Buyout Program as initial plan components.); - Adopt a more limited policy on the types of uses allowed within flood hazard areas; and - Establish a policy that not only encourages but also states a preference for clustering of residential lot development to preserve flood hazard	All	1.1 2.1 3.1	Moderate	Local	P&I	Completed 2008

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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Action #	Wilson County Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
	Consider raising the minimum finished floor elevation to more than 2' above base flood elevation (BFE) to provide more flood protection for new or substantially improved structures. (CRS 430).						
P-9	Inventory existing lots and structures within flood hazard areas to establish baseline data regarding current state of development within flood hazard areas.	Flood	1.1 3.2 4.2	Moderate	Local	P&I	2009
P-10	Acquire destroyed or substantially damaged properties and relocate households (voluntary program) (CRS 520/420).	Flood	1.1 4.2	High	FEMA NCEM	P&I	As needed
P-11	Building Inspections: - Continue to require and maintain FEMA elevation certificates for all permits for new buildings or improvements to buildings on lots including any portion of the 100-year floodplain (CRS 310). - Count building improvements cumulatively (maintain permit history so when cumulative improvements equal 50% of building value, (substantial improvement) building must be brought up to flood protection standards for new construction) with a goal to eventually have all flood hazard endangered buildings brought up to flood protection standards (CRS 430). - Continue to maintain elevation certificates on all new construction and substantial improvements; make available to the public (CRS 310). - Ensure that manufactured homes are installed and secured properly. - Ensure doorframes are securely anchored; especially double doors that can be very dangerous in high winds.	Flood	1.1 4.1	High	Local	P&I	Ongoing

Action #	Wilson County Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
P-12	Establish coordinating committee to ensure that all parties responsible for stormwater management communicate to ensure maximum cooperation in developing and maintaining stormwater drainage systems within the County.	Flood	1.1	High	Local	P&I	2009
P-13	Establish and maintain coordinated debris inspection program.	Flood	1.1	Moderate	Local	P&I NRCS EM SW	2009
P-14	Emergency water connects have been put in place that can connect Wilson County with Rocky Mount, Kenly, Edgecombe County, Johnston County, Wayne County	Droughts	1.1	High	Local	Utilities	Completed 2007 & Ongoing
P-15	Include provisions within the UDO Wilson County will be adopting a Conservation Overlay District which will require a Minimum 40,000 (forty-thousand) square foot lot size. This District will cover much of the western part of Wilson County around Buckhorn Reservoir. Requiring larger lots in this area will reduce the impact on flood prone areas.)	Floods	1.1	High	Local	P&I	2009
Emergency Services							
ES-1	Ensure adequate evacuation time in case of major hazard event.	All	1.1 1.3	High	Local	EM	Ongoing
ES-2	Evaluate areas with limited evacuation capacity and pursue methods for improving capacity.	All	1.1 1.3	High	Local	EM	Completed
ES-3	Protect new critical facilities by flood-proofing or locating outside 500-year floodplain (CRS 430).	Flood	4.1 4.2	Moderate	Local	EM	Completed
ES-4	Improve hazard warning and response plan – warning and evacuating persons out of flood prone or isolated areas, controlling vehicles on evacuation routes, evacuation of hazard materials (CRS 610).	All	1.3	High	Local	EM	Completed

ES-5	Establish program for evaluation and improvements of critical services and facilities.	All	1.3	High	Local	EM NCDOT Utilities Hospitals	2004-2005
ES-6	Evaluate flood or access problems for critical facilities; develop recommendations for protecting critical facilities. Identify alternate command posts.	All	1.3	High	Local	EM	2004-2005
ES-7	Improve Hazard Warning and Response Plan – warning and evacuating critical facilities, getting persons out of flood prone or isolated areas, controlling vehicles on evacuation routes, evacuation of hazard materials (CRS 610).	All	1.3	High	Local	EM	2004-2005
ES-8	Water line expansion Phase I and Phase II of the Wilson County water system with fire hydrants being placed in the rural areas water is much more accessible when needed to fight a wild fire.)	All	1.3	High	Local	Utilities	2005
Public Information Activities							
PI-1	Advise/assist property owners in retrofitting homes and businesses. (Retrofitting is defined as any modification to an existing building or yard to protect the property from flood damage.)	Flood	1.1 1.2	High	Local	P&I	Ongoing
PI-2	Establish and maintain information on retrofitting techniques at the Planning and Inspections Department and also at the public library. Publicize through citizen news bulletins or newsletters. (CRS 330/350/360).	Flood	1.1 1.2	High	Local	P&I	2009
PI-3	Updated flood maps reflect new subdivisions, changes in corporate limits, and all FIRM data; publicize availability of maps and keep record of service (CRS 320).	Flood	1.1 1.2 2.3	High	Local	GIS	Continuous
PI-4	Add information on hazard awareness to the County website and link with town websites as available.	All	1.1 1.2	High	Local	GIS	Completed

Source: Wilson County.

Table ES-3: Town of Black Creek Mitigation Actions – Ordered by Action #

Action #	Town of Black Creek Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Black Creek P-1	Review Floodplain Prevention Ordinance and amend as necessary to be in compliance with the NC state model ordinance	Flood	1.1 1.2	High	Local	TC	Completed
Black Creek P-2	Review and update the Zoning and Subdivision Ordinances.	All	1.1	Moderate	Local	TC	Completed
Black Creek P-3	Identify and Inspect Public Drainage Outlets.	Flood	3.1	Moderate	Local	TS	Completed
Black Creek P-4	Maintain Floodplain Maps for review with new subdivisions.	Flood	1.3	Moderate	Local	ZA PB	Completed
Black Creek P-5	The Town of Black Creek plans to work in conjunction with Wilson County to produce and maintain a digital zoning map.	All	2.3	Moderate	County	Wilson County	Completed
Black Creek P-6	In conjunction with Wilson County, improve inspection and enforcement of inspection guidelines for mobile homes.	All	1.2	Moderate	Local	ZA	Completed
Black Creek P-7	Inventory and maintain list of critical facilities	All	1.1	Moderate	Local	TC	Completed
Black Creek P-8	Update Water Treatment System for Well #5	All	1.1	Moderate	State Federal	TS	2010
Black Creek P-9	Analyze potential point sources for infrastructure leaks within sewer system	All	1.1	Moderate	State Federal	TS	2009-2010
Black Creek P-10	Install emergency generators for Town Hall, Fire Dept., and Police Station	All	1.3	Moderate	Local	TS TC	2009-2010

Abbreviations: PB – Planning Board, ZA – Zoning Administrator, TS – Town Superintendent, and TC – Town Commissioners
Source: Town of Black Creek

Table ES-4: Town of Elm City Mitigation Actions – Ordered by Action #

Action #	Town of Elm City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Elm City P-1	Update Zoning Ordinance regulations to more fully address development standards that would reduce stormwater runoff and the potential for flooding.	All	3.2	Moderate	Local	PB TB	Completed
Elm City P-2	Strengthen the Public Water and Sewer Ordinance by adding language that specifically prohibits extending public services and utilities into the flood hazard or other environmentally sensitive areas to discourage growth.	Flood	3.1	Moderate	Local	PB TB	Completed
Elm City P-3	Periodically update Flood Damage Prevention Ordinance.	Flood	1.2	High	Local	PB TB	Ongoing
Elm City P-4	Install generators at water lift stations	All	1.1	Moderate	Local	PU	2013
Elm City NR-1	The Town will review and update policies on water shortage to be more prepared in the event of a drought.	All	1.2	Moderate	Local	TC TB PU	2009-2010
Elm City PI-1	Work with Wilson County to produce and maintain digital zoning and land use maps.	All	2.3	Moderate	County	Wilson County	Ongoing

Abbreviations: PB – Planning Board; TB – Town Board; PW – Public Works; PU – Public Utilities.
Source: Town of Elm City

Table ES-5: Town of Lucama Mitigation Actions – Ordered by Action #

Action #	Town of Lucama Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Lucama P-1	Adopted a Flood Damage Prevention Ordinance.	Flood	3.1	High	Local	PB TB	Completed Oct. 2004
Lucama P-2	Town of Lucama will develop and revise as necessary a Water Shortage Response Plan – adopted 2003.	All	1.1	Low	Local	TB	Ongoing
Lucama P-3	Electric Emergency Load Reduction Plan and Procedures – 2008	All	1.1	High	Local	PU	Completed 2008
Lucama ES-1	The Town of Lucama will continue to review and revise as necessary the Emergency Response Plan.	All	1.1 1.3	Low	Local	TB	Ongoing
Lucama ES-2	The Town of Lucama will consider how to improve security around public water wells, pumps stations, and the water treatment facility.	All	1.1	High	Local	PU	2013-2014
Lucama PI-1	Work in conjunction with Wilson County to produce and maintain digital zoning and land use maps.	All	1.1	Moderate	Local County	TB Wilson County	Ongoing

Abbreviations: PB – Planning Board; TB – Town Board; PU – Public Utilities.

Source: Town of Lucama

Table ES-6: Town of Saratoga Mitigation Actions – Ordered by Action #

Action #	Town of Saratoga Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Saratoga P-1	Adopt a Flood Damage Prevention Ordinance.	Flood	3.1	High	Local	PB TB	
Saratoga P-2	Update Zoning Ordinance regulations to more fully address development standards that would reduce stormwater runoff and the potential for flooding.	All	3.2	Moderate	Local	PB TB	2010
Saratoga PI-1	Work in conjunction with Wilson County to produce and maintain digital zoning and land use maps.	All	1.1	Moderate	Local County	TB Wilson County	Ongoing

Abbreviations: PB – Planning Board; TB – Town Board.

Source: Town of Saratoga

Table ES-7: Town of Sims Mitigation Actions – Ordered by Action #

Action #	Town of Sims Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Sims P-1	Update the Land Use Plan.	All	1.1.	Moderate	Local	TB	2010
Sims P-2	Strengthen the Public Water and Sewer Ordinance by adding language that specifically prohibits extending public services and utilities into flood hazard or other environmental sensitive areas to discourage growth.	Flood	2.1	High	Local	TB	2009
Sims P-3	Update Zoning and Subdivision Ordinances.	All	1.1	Moderate	Local	TB	2012
Sims P-4	Adopted a Flood Damage Prevention Ordinance.	Flood	1.1	High	Local	TB	Completed 2003
Sims NR-1	Consider implementing the NC well-head-protection program.	All	1.1	Moderate	Local	TB	2010
Sims ES-1	Continue to revise the Water Shortage Policy as needed.	All	1.1 1.3	Moderate	Local	TB	Ongoing
Sims PI-1	Work in conjunction with Wilson County to produce and maintain digital zoning and land use maps.	All	1.1.	Moderate	Local	TB Wilson County	Ongoing
Sims PI-2	Outreach Project on Hazard Mitigation Strategy Education – Send out flyers and information to the public to educate in case of emergencies.	All	1.1 1.2	High	Local	TB	Ongoing
Sims PI-3	Make available educational material on natural hazards and place in Town Hall.	All	1.1 1.2	Moderate	Local	TB	Ongoing

Abbreviations: TB – Town Board.

Source: Town of Sims

Table ES-8: Town of Stantonburg Mitigation Actions – Ordered by Action #

Action #	Town of Stantonburg Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party	Target Completion Date
Stantonburg P-1	Update and amend the Zoning Ordinance (1985).	All	1.1	Moderate	Local	PB TC	2010-2011
Stantonburg P-2	Update and amend the Flood Damage Prevention Ordinance and Flood Maps.	Flood	1.1	High	Local	TM TC	2009
Stantonburg P-3	Strengthen the Water and Sewer Ordinance by adding language to specifically prohibit extending public services and utilities into flood hazard areas and other environmentally sensitive areas to discourage growth.	Flood	3.1 1.3 2.1	Moderate	Local	TM TC	2011-2012
Stantonburg NR-1	Amend the Water Shortage Response Plan as necessary (adopted April 2004).	Drought	1.1	High	Local	TM TC	Ongoing
Stantonburg NR-2	Update and amend the Wellhead Protection Policy to correspond to the new flood maps.	All	2.1	Moderate	Local	TM TC	2010-2011
Stantonburg ES-1	Install emergency back-up generators at the Wastewater Treatment Plant and at lift stations in the event of extended power outages.	All	1.3	High	Local State Federal	TC	2010-2011
Stantonburg ES-2	Install alarm systems and telemetry on water treatment plant, booster station, water tanks, and existing wells in the event of extended power outages or other failures.	All	1.3	High	Local County	TC Wilson County	2009-2010
Stantonburg PI-1	Work in conjunction with Wilson County to produce and maintain digital zoning and land use maps.	All	1.1	Moderate	Local County	TB Wilson County	Ongoing

Abbreviations: PB – Planning Board, TC – Town Council, TM – Town Manager.

Source: Town of Stantonburg

Table ES-9: City of Wilson Mitigation Actions – Ordered by Action #

Action #	Wilson City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party ¹	Target Completion Date
Preventative Actions							
Wilson P-1	Consider the installation of additional monitoring systems for flood waters.	Flood	1.1	Low	Local	PS SW	2014
Wilson P-2	Consider requiring retention facilities to hold storm water to allow seepage on site.	All	1.1	Moderate	Local	PS SW	Ongoing
Wilson P-3	Consider detention facilities to store storm water during peak runoff to be released at off-peak times.	All	1.1	Moderate	Local	PS SW	Ongoing
Wilson P-4	The City currently has a rating of 7 (ten-highest, one-lowest) under the Community Rating System (CRS). Consideration should be given for more stringent activities.	All	2.2 3.2	Moderate	Local	PD SW	Ongoing
Wilson P-5	Increasing the flood proofing protection for nonresidential buildings to at least 2 and 1/2 feet of “free board”, residential development should also be considered.	Flood	1.1	High	State	PD SW	Completed
Wilson P-6	New substation and point-of-delivery completed.	All	1.1	High	Local	PS	Completed 2008
Wilson P-7	Another substation is under construction. Larger transformer installed in Sub 4 for added capacity.	All	2.1 3.1	High	Local	PS	2010
Wilson P-8	Installed a new pressure regulator station on Lake Wilson Rd. to bolster our 95# & 45# gas systems	All	2.1 3.1	High	Local	PS	Completed 2008
Wilson	Recalibrated our Gas Modeling	All	1.1	High	Local	PS	Completed 2008

Action #	Wilson City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party ¹	Target Completion Date
P-9	software to better manage outages and problems on the gas system						
Wilson P-10	Enhance our GIS capabilities	All	1.1	High	Local	PS	Ongoing
Wilson P-11	Purchased new rugged laptops in division's first responder vehicles that contain GIS and customer related information on them	All	1.1	High	Local	WE	Completed 2008
Wilson P-12	Continue to replace aging steel gas facilities with polyethylene that has a longer life span	All	1.1	High	Local	WE	2009-2013
Wilson P-13	Continue Cathodic Protection and Leakage survey's to better understand our buried facilities so that trouble spots are recognized before more serious problems occur.	All	1.1	Moderate	Local	WE	2009-2013
Wilson P-14	Install rugged laptops on all of the division's vehicles.	All	1.1	Moderate	Local	WE	2009-2013
Wilson P-15	Utilize updated DFIRM Floodplain data when creating mapping.	Flood	1.1	High	Local State	PD SW	Completed 2004
Wilson P-16	Continue coordination from NCEM and FEMA to secure resources for hazard mitigation activities.	All	1.1	Moderate	Local State Federal	PD	Ongoing
Wilson P-17	Encourage builders to incorporate mitigative measures for disaster resiliency during construction.	All High Wind	1.1	Moderate	Local State	CS	Ongoing
Wilson P-18	Continue to enforce the NC State Building Code, incorporating hazard mitigation measures as applicable.	All	1.1	Moderate	Local State	CS	Ongoing
Wilson P-19	Seek funds to buyout repetitive loss properties.	Flood	3.1	Moderate	Local State Federal	PD	Ongoing
Property Protection Actions							

Action #	Wilson City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party ¹	Target Completion Date
Wilson PP-1	Consider wind requirements for all public buildings, as applicable by the NC State Building Code.	Flood	3.1	Moderate	State Local	PD CS	Ongoing
Wilson PP-2	Continue to evaluate the relocation/elevation/flood proofing needs of all critical public facilities.	Flood	4.2	Moderate	Local Federal	PD LD	Ongoing
Wilson PP-3	The State and Federal funded "buyout" program for Hurricane Floyd was completed within the time limits established by the State. (353 homes units or 173 properties were purchased and families relocated with the Buyout funds.)	Flood	4.1 4.2	High	Local State Federal	PS SW	Completed
Wilson PP-4	As additional grants become available the City should continue to apply for acquisition funds to purchase other properties flooded.	Flood	4.1	Moderate	Local	PD SW	Ongoing
Wilson PP-5	Continue to seek funds, to provide new developments to replace areas subject to flooding and relocate families.	Flood	4.1 4.2	High	Local State Federal	PD SW	Ongoing
Wilson PP-6	Consider construction moratoriums following a flood related disaster	Flood	1.1	Moderate	Local	PD CS	Ongoing
Emergency Services Actions							
Wilson ES-1	Minimize placing new critical public facilities within the floodplain, unless they are designed to withstand flood damage.	Flood	3.1 4.2	Moderate	Local Federal	PD LD	Ongoing
Wilson ES-2	Review the Emergency Management Operational Plan on an annual basis and revise as needed.	All	1.1	Moderate	Local	FD	Ongoing
Natural Resource Actions							
Wilson NR-1	Continue to implement the program to "take back" major drainage areas or streams through	All	4.1	Moderate	Local State	PS SW	Ongoing

Action #	Wilson City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party ¹	Target Completion Date
	acquisition or easements and maintain them as public facilities.						
Wilson NR-2	Continue improving and maintaining streams throughout the community.	All	1.1	Moderate	Local	PS SW	Ongoing
Wilson NR-3	Wherever possible preserve natural wetlands, especially along streams, through acquisition or conservation easements.	All	1.1	High	Local	PS SW	Completed
Wilson NR-4	As part of the Hominy Swamp Watershed Management Plan expansion of wetland protection is recommended through the acquisition of existing wetland areas along sections of the stream.	All	1.1	Moderate	Local	PS SW	Ongoing
Wilson NR-5	Continue to work with State and Federal agencies to more aggressively clean and clear out the streams to improve drainage and water flows.	All	1.1	Moderate	Local State Federal	PS SW	Ongoing
Wilson NR-6	Where feasible and practical address drainage problems in the streams or drainage facilities within the City's ETJ.	All	1.1	Moderate	Local	PS SW	Ongoing
Wilson NR-7	Consider a floodplain/stream modeling program that allows evaluation of flooding potential along streams based upon new developments that occur upstream.	Flood	1.1	Low	Local Grant	SW	2014
Wilson NR-8	Through the Storm Water Management Program insure that the stream channels are properly maintained to reduce or minimize nuisance flooding.	Flood	1.1	Moderate	Local	SW	Ongoing
Public Information							

Action #	Wilson City Actions	Hazard	Objective(s) Addressed	Relative Priority	Funding Sources	Responsible Party ¹	Target Completion Date
Wilson PI-1	Due to the flooding related to Hurricane Floyd, signs were installed to notify public of the water height.	Flood	1.2	High	Local	PS	Completed
Wilson PI-2	Continue to update the City's website with Hazard Mitigation Updates and progress reports.	All	1.2	High	Local	IT PS	Completed 2005
Wilson PI-3	Continue to inform citizens of funding opportunities for potential flood buy-outs.	Flood	1.2	Moderate	Local	PD SW	Ongoing

Abbreviations: (PS) Public Services, (SW) Stormwater, (PD) Planning and Development Services, (CS) Construction Standards, (LD) Land Development, (MS), Management Services, Wilson Electric (WE), Fire Department (FD) and (SH) Safety and Health.
Source: City of Wilson