

# Appendix H:

## NCEI Storm Event Data

This section of the Plan includes the historic storm event data as reported to the National Centers for Environmental Information.

- ◆ H.1 – Drought
- ◆ H.2 – Extreme Heat
- ◆ H.3 – Flood
- ◆ H.4 – Hail
- ◆ H.5 – Heavy Rain
- ◆ H.6 – Heavy Snow
- ◆ H.7 – High Wind
- ◆ H.8 – Ice Storm
- ◆ H.9 – Lightning
- ◆ H.10 – Sleet
- ◆ H.11 – Tornado
- ◆ H.12 – Thunderstorm
- ◆ H.13 – Winter Storm

**TABLE H.1: DROUGHT EVENTS (2000-2019)**

Date	Description
<b>Brunswick County</b>	
6/14/2011	Rainfall totals at the end of June were well below average for much of the region, ranging from 55 to 65 percent of normal. Crops were for the most part just beginning to stress, with no reports of widespread drought damage.
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7/1/2011	Rainfall amounts continued to be meager, with most areas between eight to twelve inches below normal for the year. There were sporadic reports of localized water rationing, however most communities were still under normal water usage. Although most crops around the region were definitely feeling the stress of the drought, the extent of crop losses around the area is unknown at this time.
7/1/2011	Rainfall amounts continued to be meager, with most areas between eight to twelve inches below normal for the year. There were sporadic reports of localized water rationing, however most communities were still under normal water usage. Although most crops around the region were definitely feeling the stress of the drought, the extent of crop losses around the area is unknown at this time.
<b>New Hanover County</b>	
6/14/2011	Rainfall totals at the end of June were well below average for much of the region, ranging from 55 to 65 percent of normal. Crops were for the most part just beginning to stress, with no reports of widespread drought damage.
6/14/2011	Rainfall totals at the end of June were well below average for much of the region, ranging from 55 to 65 percent of normal. Crops were for the most part just beginning to stress, with no reports of widespread drought damage. The drought was a major contributor to a large fire off of Juniper Road in the Holly Shelter Game Land.
7/1/2011	Rainfall amounts continued to be meager, with most areas between eight to twelve inches below normal for the year. There were sporadic reports of localized water rationing, however most communities were still under normal water usage. Although most crops around the region were definitely feeling the stress of the drought, the extent of crop losses around the area is unknown at this time.
7/1/2011	Rainfall amounts continued to be meager, with most areas between eight to twelve inches below normal for the year. There were sporadic reports of localized water rationing, however most communities were still under normal water usage. Although most crops around the region were definitely feeling the stress of the drought, the extent of crop losses around the area is unknown at this time.
<b>Onslow County</b>	
6/1/2011	Severe drought (D2) designation began for Onslow County in early June 2011. No significant precipitation occurred during the month with only typical summertime afternoon showers and thunderstorms.
7/1/2011	Severe drought (D2) designation in June deteriorated to extreme drought (D3) conditions for Onslow County in early July 2011. No significant precipitation occurred during the month with only typical summertime afternoon showers and thunderstorms.
8/1/2011	Extreme drought (D3) designation continued for Onslow County through late August 2011 just prior to Hurricane Irene. Significant rainfall occurred across the county with the passage of Hurricane Irene. Storm total rainfall from Hurricane Irene at Jacksonville (11.70 inches), Maysville (10.68 inches), and Swansboro (9.76 inches) indicated sufficient precipitation to remove drought designation for Onslow County.
<b>Pender County</b>	
6/14/2011	Rainfall totals at the end of June were well below average for much of the region, ranging from 55 to 65 percent of normal. Crops were for the most part just beginning to stress, with no reports of widespread drought damage.
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7/1/2011	Rainfall amounts continued to be meager, with most areas between eight to twelve inches below normal for the year. There were sporadic reports of localized water rationing, however most communities were still under normal water usage. Although most crops around the region were definitely feeling the stress of the drought, the extent of crop losses around the area is unknown at this time.

**TABLE H.2: EXTREME HEAT EVENTS (2000-2019)**

Location	Date	Description
Onslow County	7/13/2019	The temperature at KOAJ was 93 with a dew point of 79 which produced a heat index of 110 at the following times on July 13th, 2019:    1030 - 1100 LST, 1100 - 1145 LST, 1155 - 1205 LST, 1215-1246 LST.    The peak heat index occurred at 1200 LST with a temperature of 95 and a dewpoint of 79 producing a heat index of 113 degrees.
Onslow County	7/21/2019	An extended heat wave came to an end when heat index values reached as high as 110 to 115 degrees on July 21.

**TABLE H.3: FLOOD EVENTS (2000-2019)**

Location	Date	Description
<b>Brunswick County</b>		
SOUTHPORT	7/6/2001	Minor flooding was reported on Caswell Beach Rd. and Long Beach Rd.
GRISSETTOWN	5/29/2010	Emergency Manager reported water flowing across Hwy 17 near Hwy 904 in Ocean Isle Beach. The road was impassable.
TOWN CREEK	6/27/2013	A yard was flooded on Town Creek Road.
CALABASH	7/1/2013	Significant flooding reported. All the ditches were full and were overflowing across several streets.
MILL CREEK	7/13/2013	Portions of Longwood Road were flooded with several stranded vehicles.
MILL CREEK	7/21/2014	Swift flowing water on River Rd at two intersections: Daws Creek Rd and Funston Rd. The flooding trapped about 50 cars.
FULFORD	12/24/2014	Flooding was reported on Holden Beach Road in Shallotte.
EASTBROOK	10/2/2015	Dorsay Lane was flooded.
IREDEL	10/2/2015	Flooding was reported on Marlowtown Road.
REGAN	10/2/2015	Jamestown Road and Ash Little River Road were flooded.
SEASIDE	10/2/2015	Sunset Beach confirms an approximately 20 ft sinkhole near Park Rd, Sunset Blvd, and Hwy 904.
FREELAND	10/3/2015	A sinkhole was forming on Kingtown Road in Ash.
IREDEL	10/3/2015	Flooding was reported on Hwy 17 and Ocean Highway West. Flooding was also reported on SR 1303.
TOWN CREEK	10/6/2015	A report of water covering portions of Hwy 17 near Zion Church Road in the Town Creek area.
ASH	11/3/2015	Flooding was reported on Mill Branch Road and Ash Road.
HOLDEN BEACH	11/3/2015	Flooding was reported on Stanbury Road near Varnamtown.
MILL CREEK	11/3/2015	Flooding was reported on Fifty Lakes Drive and Filmore Road.
MILL CREEK	11/3/2015	Highway 133 near Funston Road was closed due to 8-10 inches of moving water.
LONG BEACH	2/7/2016	Several streets were flooded on Oak Island.
MILL CREEK	2/7/2016	Flooding was reported on Mirror Lake Drive.
OAK GROVE	2/7/2016	Flooding was reported in the Edgar Wood community in Supply.

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Location	Date	Description
SOUTHPORT	2/7/2016	Many roads were flooded around Southport.
LELAND	8/8/2017	Nearly four inches of rain fell in Leland, with minor flooding.
MILL CREEK	5/19/2018	E Boiling Spring Road was flooded in several spots. The road was closed near Elm Street.
MILL CREEK	5/19/2018	Fifty Lakes Drive was flooded near Fillmore Road.
MILL CREEK	5/19/2018	Flooding on Highway 87 near Danford Road.
MILL CREEK	5/19/2018	Old Mill Creek Road near Fisher Drive was impassable due to flooding.
MILL CREEK	5/19/2018	There was a foot of water on Funston Road approaching River Road.
REGAN	6/8/2019	Law enforcement reported flooding on Ash Little River Road.
<b>New Hanover County</b>		
WILMINGTON	7/2/2001	A cold front and associated heavy rains caused poor visibilities, minor street flooding and scattered car accidents. One injury was reported.
CASTLE HAYNE	7/11/2001	New Hanover 911 reported water entering a house on Old Mill Rd. Based on radar, around 4 inches of rain fell in Castle Hayne. There were several car accidents with no injuries reported. A newspaper report described about 1200 customers in the Wilmington area without power.
WILMINGTON	9/1/2002	Heavy rain fell on already saturated soil, causing numerous reports of street flooding in Wilmington. 911 reported flooding on New Centre Drive, Wedgefield Drive, River Road, Greenbriar and Billmark roads, and the North College Road exit to I-40.
WILMINGTON	9/15/2002	The remnants of Tropical Storm Hanna spawned thunderstorms that dumped over two inches of rainfall in a short period of time, causing standing water on South Third Street near Greenfield Lake.
WILMINGTON	8/19/2010	There was around a foot of water with stalled cars on Oleander Drive near Dawson Street. Flooding was also reported on South College Road, between the intersections of Wilshire Boulevard and Wrightsville Avenue.
MASONBORO	9/27/2010	Heavy rain caused a slow rise of a creek that overflowed Beasley Road.
WILMINGTON	9/30/2010	Flooding occurred on Front Street and Greenfield Street.
AIRLEE	6/29/2011	Flooding was reported on Military Cutoff and Main Street.
EAST WILMINGTON	6/29/2011	A water rescue was made at the intersection of Treadwell and Pine Grove Drive.
FERNESIDE	6/29/2011	Cars were trapped in flood waters on New Centre Drive and College Road. Roads were impassable.
NEW BERN JCT	6/29/2011	Flooding was reported on the 200 block of Covil Avenue.
SOUTH WILMINGTON	9/26/2011	Street flooding was reported at the intersection of Independence and 17th Street.
WILMINGTON	9/26/2011	Standing water was reported on 16th Street, between Market and Dawson. Road was impassable.
WILMINGTON	6/27/2013	Greenfield Street was closed at 6th and 7th Avenues due to flooding.
MURRAYSVILLE	7/12/2013	Flooding was reported on Murrayville Road and Setter Lane.
MURRAYSVILLE	7/12/2013	Flooding was reported on White Road. Smaller vehicles could not pass.
MYRTLE GROVE	7/12/2013	Flooding was reported at the intersection of Woods Edge Road and Woodridge Road. Road was impassable.
MYRTLE GROVE	7/12/2013	Over six inches of rain fell around the Myrtle Grove area. Coronado and Greenbriar Drives had heavy flooding, with a report of the water waist deep on Greenbriar Drive.
SEAGATE	7/12/2013	Greenville Loop Rd was reported to be flooded. A foot of water was standing near a home in Greenville Village.
SOUTH WILMINGTON	7/12/2013	Flooding was reported on St. Andrews Drive.
BAYMEADE	9/12/2014	Flooding was reported at the intersection of Putnam and Medallion.
MASONBORO	9/12/2014	Flooding was reported on Beasley Road near Beaver Creek.
WILMINGTON	9/12/2014	Flooding was reported on Wooster and Dawson Streets, as well as Dawson and 16th Street.

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Location	Date	Description
CASTLE HAYNE	12/24/2014	Flooding was reported on Holly Shelter Road.
WILMINGTON	12/24/2014	Flooding was reported on 13th Street and Rankin. Flooding was also reported on 16th Street at several intersections.
WRIGHTSBORO	12/24/2014	Flooding was reported at the 5600 block of Castle Hayne Road. Several homes were flooded on Jamaica Drive.
WILMINGTON	6/9/2015	Flooding was reported on Carolina Beach Road in front of Legion Stadium and on Southern Blvd, as well as Morningside Drive.
NEW BERN JCT	7/23/2015	Flooding was reported on Market Street near the YMCA.
SEA BREEZE	7/23/2015	Heavy rain combined with a high tide required a water rescue on Canal Street at Carolina Beach.
WILMINGTON	7/23/2015	Flooding was reported at Oleander and Dawson Street.
WILMINGTON	7/23/2015	Flooding was reported at the intersection of 16th Street and Castle Street.
WILMINGTON	7/23/2015	Flooding was reported on Queen Street and Wooster Ave.
EAST WILMINGTON	7/31/2015	Flooding was reported at the intersection of Oleander and College.
EAST WILMINGTON	7/31/2015	Flooding was reported on Independence Blvd between Shipyard Blvd and Oleander Drive.
BAYMEADE	8/3/2015	Two feet of standing water and stalled cars on Wood Sorrell Rd.
FERNSIDE	8/3/2015	Flooding was reported on Racine Drive near New Centre and Eastwood Rd.
EAST WILMINGTON	8/25/2015	Flooding was reported at the 400 block of Robert E Lee Drive.
WILMINGTON	10/2/2015	There was one to two feet of water on Tandem Court.
BAYMEADE	10/2/2015	Flooding was reported at the 6700 Block of Amsterdam Way.
BAYMEADE	10/2/2015	Flooding was reported at the intersection of Putnam Drive and Medallion Place.
FT FISHER	10/2/2015	Flooding was reported on the road to Fort Fisher.
MURRAYSVILLE	10/2/2015	The 6200 block of Murrayville was impassable due to flooding.
WRIGHTSBORO	10/2/2015	Flooding was reported at 500 Old Mill Road.
BAYMEADE	10/4/2015	Water was overflowing several portions of Torchwood Road.
MASONBORO	10/4/2015	Masonboro Loop Road is flooded between Holiday Hills Drive and Trails End Drive.
MASONBORO	10/4/2015	Roads impassable between Kelly Road near Beasley Road and Sand Hills Drive. Four cars were disabled.
MASONBORO	10/4/2015	Water was entering a home on Oak Bluff Lane.
WRIGHTSBORO	10/4/2015	Flooding was reported on Castle Hayne Road.
FERNSIDE	10/10/2015	Flooding was reported at South Kerr and Emerson.
FT FISHER AFS	2/7/2016	Over half a foot of water was reported to be coming into the yards on General Whiting Blvd. Some water was also getting into basements.
MASONBORO	2/7/2016	Red Berry Drive was completely flooded.
SEA BREEZE	2/7/2016	Flooding was reported along Myrtle Grove Road.
MASONBORO	4/1/2017	Several intersections in the Eagle Nest neighborhood had minor street flooding.
CAROLINA BEACH	8/8/2017	About three and a half inches fell at Carolina Beach.
MYRTLE GROVE	8/8/2017	Over four inches of rain was recorded at the Myrtle Grove Junction.
BAYMEADE	5/19/2018	There was a foot and a half of water along Putnam Road and other roads near Ogden Park. Roads impassable.
EAST WILMINGTON	5/19/2018	There was about a foot of water along College Rd at the intersection of Oleander Drive.
NEW BERN JCT	5/19/2018	Darlington Avenue was closed due to flooding between Broad Street and Frog Pond Place due to a retention pond overflowing.

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Location	Date	Description
BAYMEADE	8/15/2018	A slow moving storm produced four inches of rain in Ogden. Police closed Bright Leaf Road at Wendover Lane. Flooding was also reported in the 7400 block of Market Street and on Amsterdam Way.
<b>Onslow County</b>		
Unincorporated Area	10/7/2005	A combination of weather systems including the remnants of Tropical Storm Tammy and low pressure associated with an approaching cold front linked up to cause flooding rains across the area. During a three day period from October 6th through the 8th portions of eastern North Carolina received up to a foot of rainfall. Six to eight inch rainfall totals were common across much of the area. This resulted in flash flooding and widespread flooding across Beaufort, Carteret, Craven, Duplin, Lenoir, Martin, Onslow, Pamlico, and Pitt counties. Many roads across the area were closed due to flooding, and property damage was reported in several counties.
COUNTYWIDE	6/28/2006	Flooding reported across a large area of the county. Water levels reported up to the hood of cars in Jacksonville with 4 feet of water reported on Western Blvd. Flood waters were waist deep in the Tarawa Terrace housing area at Camp Lejeune. Also, 2 to 3 feet of water was reported along Highway 258 and Rhodestown Rd. just south of Richlands.
BELL FORK	4/15/2007	Flooding reported on Bell Fork Road.
BELL FORK	8/6/2009	High water reported on Brynn Marr Road in Jacksonville with several cars stalled.
BELL FORK	8/12/2009	Very heavy rain produced flooding at the intersection of Western Boulevard and Brynn Marr Road. Several cars stalled in the flood waters.
FOLKSTONE	9/7/2009	Flooding reported along Old Folkstone Road.
SWANSBORO	11/12/2009	Heavy rain, with widespread amounts over six inches, flooded numerous secondary roads off Highway 24. Several roads were impassable.
BELL FORK	6/25/2010	Flooding over Western Boulevard with the road briefly impassable.
JCKSNVLL ELLIS ARPT	9/29/2010	Several days of heavy rain led to widespread flooding across Onslow County with many small streams flooded. several roads were flooded and impassable at times.
FULCHERS LNDG	6/29/2011	Onslow County 911 reported water covering roadway on Fulcher Landing Road in Sneads Ferry.
HALF MOON	8/6/2011	Trained spotter reported over one foot of water across multiple roadways near the intersection of Gum Branch Road and Ramsey Drive north of Jacksonville.
GREGORY FORKS	9/12/2014	Very heavy rain produced flooding near Richlands. Roads were reported to be washed out near the intersection of Gregory Fork Road and Turtle Shell Road.
BELL FORK	9/13/2014	Heavy rain in the Jacksonville area produced flooding, with the Public Safety Building and Fire Station One area flooded.
HALF MOON	5/31/2018	Road flooding was reported with water 4 to 5 inches deep. An estimated 3 to 4 inches of rain fell.
<b>Pender County</b>		
HAMPSTEAD	9/7/2009	Rain, ranging from six to ten inches, fell over portions of eastern Pender County. Several major roads were closed, including Hwy 210 and SR-1561. Hughes Road was washed out. Other secondary roads with standing water included Azalea Dr., Sloop Pt Rd., and many roads in Surf City. Many yards had standing water on them.
WALKERS STORE	5/30/2012	Lake Drive was flooded with a foot of standing water.
BURGAW	7/11/2012	Flooding on New Savannah Rd near Penderlea Hwy. The road was blocked and impassable.
PENDERLEA	7/11/2012	Flooding on Shiloh Road. The road was impassable.
VAN EDEN	7/11/2012	Flooding on Horse Branch Road near the 3000 block of Penderlea Hwy.
HAMPSTEAD	8/9/2014	Highway 17 was closed at Hwy 210 due to flooding.
TOPSAIL	8/9/2014	A foot of standing water was reported on the streets of the Castle Bay Golf Course.
TOPSAIL	8/9/2014	A half a foot of water was reported on Hwy 17, causing traffic delays.
TOPSAIL	8/9/2014	Country Club Road was closed due to flooding. A portion of the road was washed away.

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TOPSAIL	8/9/2014	Flood waters came into the halls and gymnasium of Topsail Middle School. The gymnasium floor had to be redone.
TOPSAIL	8/9/2014	Widespread flooding was reported on the Belvedere Plantation Golf Course. Up to three feet of standing water near the homes.
WOODSIDE	8/9/2014	Over a half foot of water was reported on Hwy 17 near the Sloop Point Fire Department.
PENDERLEA	6/26/2015	Flooding was reported at the intersection of Penderlea and Shiloh Rd.
HAMPSTEAD	10/2/2015	Flooding was reported at the 1500 block of Hwy 210.
MALPASS CORNER	10/2/2015	Flooding was reported on Herrings Chapel Road.
SHELTER NECK	10/2/2015	Flooding was reported on Hwy 50 near the Pender/Duplin county line.
STAG PARK	10/2/2015	Flooding was reported in Stag Park.
HIGHSMITH	2/4/2016	Flooding was reported on Scott Rd. Road was temporarily closed.
HIGHSMITH	2/7/2016	Significant flooding was reported on Fennel Town Road.
SHELTER NECK	7/3/2017	Flooding on Hwy 50 near Hwy 53.
MARLBORO	7/18/2017	Over three and a half inches of rain was recorded in Castle Hayne.
BURGAW	6/7/2018	Over three inches of rain fell in 30 minutes in Burgaw. Multiple streets were reported to be flooded.

**TABLE H.4: HAIL EVENTS (2000-2019)**

Location	Date	Size	Description
<b>Brunswick County</b>			
SUPPLY	4/18/2000	0.75	Hail reported ranging from 1/2 to 3/4 inch.
ASH	4/28/2000	0.88	
LELAND	4/28/2000	1	
WINNABOW	4/28/2000	0.75	
GRISSETTOWN	4/29/2000	0.75	Longwood Fire Department reported dime size hail or larger at the fire station.
HOLDEN BEACH	5/25/2000	0.88	Spotter reported nickel-size hail.
CASWELL BEACH	5/28/2000	0.75	Oak Island Dispatch reported dime-size hail at Caswell Beach.
LELAND	5/28/2000	0.75	Dime-size hail reported on the Cape Fear Memorial Bridge.
ASH	7/16/2000	1.75	911 center reported golfball size hail.
BOLIVIA	4/1/2001	0.75	Dime size hail reported at Boiling Springs Lakes.
HOLDEN BEACH	4/1/2001	0.75	Ham radio operator reported dime size hail.
ASH	5/26/2001	1.75	Spotters reported golfball size hail with 50 to 60 mph wind gusts.
LELAND	5/28/2001	1.75	Golfball size hail reported.
SHALLOTTE	5/28/2001	0.75	Skywarn reported dime size hail.
HOLDEN BEACH	3/11/2003	0.75	Holden Beach Pier reported dime size hail.
LELAND	3/11/2003	0.75	911 reported dime size hail.
LELAND	3/11/2003	0.75	Television station reported dime size hail.
LONG BEACH	3/11/2003	1	Long Beach Pier reported quarter size hail.
SOUTHPORT	3/11/2003	1	Spotter reported quarter size hail.
MACO	5/3/2003	1	Skywarn reported quarter size hail.
LELAND	5/31/2003	1.25	Widespread hail was reported by 911, ranging from penny to half dollar size.
MACO	7/12/2003	0.75	Penny size hail was reported.
LELAND	8/23/2003	0.88	Nickel size hail was reported near the Magnolia Greens golf course.
LELAND	6/3/2004	1.25	Half dollar size hail was reported.
LELAND	6/3/2004	0.88	Nickel size hail was reported at Magnolia Greens.
LELAND	6/3/2004	0.88	Nickel size hail was reported.

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Location	Date	Size	Description
WINNABOW	6/3/2004	0.75	A spotter reported penny size hail at the intersection of Hwy 87 and US Rt 17.
SHALLOTTE	4/3/2006	0.75	
SHALLOTTE	4/3/2006	0.88	
SOUTHPORT	4/3/2006	1	Quarter size hail was covering the road near Town Creek Bridge.
SOUTHPORT	4/3/2006	1.5	Quarter to ping pong size hail was reported.
ASH	4/8/2006	0.88	
ASH	6/6/2006	0.75	
BOLIVIA	6/6/2006	1	Nickel to quarter size hail was reported.
LELAND	6/6/2006	0.75	Penny size hail was reported on Mellanie Lane.
CALABASH	6/8/2006	1.75	Golfball size hail fell at the intersection of Hwy 17 and Seaside Road.
SHALLOTTE	6/8/2006	0.88	Nickel size hail was reported at Shallotte Point.
LELAND	8/8/2006	0.75	Penny size hail was reported.
SUPPLY	6/5/2007	1	Quarter size hail was reported on Hwy 17 at mile marker 29.
ASH	6/13/2007	0.75	Penny size hail fell.
LELAND	6/25/2007	0.75	Penny size hail fell on Old Mill Road.
MACO	7/27/2007	0.88	Nickel size hail fell on Highway 74/76.
LELAND	3/15/2008	0.75	Report of three-quarter inch hail relayed via Amateur Radio Operator.
NORTH WEST	4/21/2008	0.75	The fire department reported hail up to the size of pennies.
SOUTHPORT	6/17/2008	0.75	Hail ranged in size from pea to penny at Quiznos on Southport Supply Road SE.
SOUTHPORT	6/17/2008	0.88	Nickel size hail was reported near The Clubs at St James Plantation.
BOLIVIA	6/21/2008	0.88	Hail was estimated to the size of nickels.
LONG BEACH ARPT	6/21/2008	0.88	Several reports of hail up to nickel size.
SOUTHPORT	6/21/2008	0.88	Several reports of nickel size hail.
SOUTHPORT	6/21/2008	0.88	Several reports of nickel size hail.
VARNUM	6/21/2008	1	Numerous reports of hail, up to the size of quarters, from west of Long Beach to around Southport.
LANVALE	5/11/2009	1	Hail up to the size of quarters was reported. The hail lasted for about 20 seconds.
WINNABOW	5/11/2009	1	Nickel to quarter size hail was reported on the Town Creek Bridge.
BELL SWAMP	5/10/2011	1	Hail to the size of quarters was reported.
GRISSETTOWN	5/10/2011	1	Hail to the size of quarters was reported near the intersection of Seaside Road and Old Georgetown Road.
MILL CREEK	5/10/2011	1.75	Hail to the size of golf balls was reported along South Shore Drive.
MILL CREEK	5/10/2011	1.75	Hail to the size of golf balls was reported. The report was relayed via the media.
MILL CREEK	5/10/2011	1.25	Hail to the size of half dollars was reported along Caison Loop Road.
MILL CREEK	5/10/2011	1.5	Hail to the size of ping pong balls was reported.
LONG BEACH ARPT	6/5/2011	1	Hail to the size of quarters was reported at the Players Club Golf Course.
MILL CREEK	6/5/2011	1	Hail to the size of quarters was reported.
SECESSION	11/4/2011	1	Hail up to the size of quarters was reported along Coastal Shores Road near the intersection with Seashore Road.
TOWN CREEK	11/4/2011	1	Hail to the size of quarters was reported near the intersection of Town Creek Road and Old Town Creek Road.
LONG BEACH	3/19/2012	1	Hail to the size of quarters was reported at NE 15th Street and East Yacht Drive. The hail lasted for 3 minutes.
SECESSION	3/25/2012	1.5	Hail to the size of ping pong balls was reported.
SUPPLY	3/25/2012	1.75	Hail to the size of golf balls was reported.
BOLIVIA	4/26/2012	0.88	Hail to the size of nickels was reported. The time was estimated by radar data.



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Location	Date	Size	Description
BOWEN PT	5/14/2012	0.75	Hail to the size of pennies was reported on Bay Road SW.
CALABASH	7/1/2012	1	Hail up to the size of quarters was reported.
PHOENIX	10/7/2012	1	Hail to the size of quarters was reported along Merrywood Drive.
LONGWOOD	6/13/2013	1	Hail to the size of quarters was reported at the intersection of Longwood Road and Etheridge Road.
EAST ARCADIA	5/23/2014	0.88	Hail to the size of nickels was reported west of Highway 17 in Calabash. The location was estimated based on radar data.
GRISSETTOWN	5/23/2014	1	Quarter size hail reportedly lasted for 5 minutes.
THOMASBORO	5/23/2014	1.75	Golf ball size hail was reported in the community of Brunswick Plantation.
WINNABOW	7/28/2014	1	Marble to quarter size hail was reported. The report was relayed through the media.
SECESSION	8/21/2014	0.75	Hail slightly larger than a dime was reported.
SECESSION	8/21/2014	0.88	Hail up to the size of nickels was reported.
LONGWOOD	7/13/2015	1.25	Hail to the size of half dollars was reported.
REGAN	7/13/2015	1	Hail up to the size of quarters was reported on Pireway Road.
EASY HILL	5/3/2016	1	Nickel to quarter size hail was reported near Mallory Creek.
BOWEN PT	4/5/2017	1	Hail to the size of quarters was reported.
CAUSE LNDG	4/5/2017	1	Hail to the size of dimes increased to the size of quarters.
HOLDEN BEACH	4/5/2017	1.5	Hail to the size of ping pong balls was reported 2 miles west of the Intracoastal Waterway Bridge.
LONG BEACH ARPT	4/5/2017	1.75	Hail to the size of golf balls was reported. The time was estimated based on radar data.
MIDWAY	4/5/2017	2	Hail was estimated up to 2 inches in size near Sunset Harbor Rd. The time was estimated based on radar data. The report was relayed by the media.
SECESSION	4/5/2017	1.25	Hail to the size of quarters and half dollars was reported.
TOWN CREEK	5/30/2017	0.75	Hail was measured to the size of three-quarters of an inch.
ELIAH	6/15/2018	1	Quarter size hail was reported at the Magnolia Greens golf course.
LELAND	6/2/2019	1	Quarter size hail was reported on Hwy 74.
PHOENIX	6/2/2019	1	Quarter size hail damaged a car on Hooper Rd in Leland.
PHOENIX	6/2/2019	1	Quarter size hail was reported on Mt Misery Rd.
LANVALE	7/3/2019	1	Quarter size hail was reported in Leland.
<b>New Hanover County</b>			
WILMINGTON	4/18/2000	0.75	NWS employee reported dime size hail at their house in Ogden.
MYRTLE GROVE	4/28/2000	0.88	
WILMINGTON	5/22/2000	0.75	NWS employee reported dime-size hail in Ogden, at the intersection of Gordon and Market St.
MYRTLE GROVE	7/16/2000	1	Quarter size hail reported.
WILMINGTON	4/1/2001	0.88	Ham radio reported both dime and nickle size hail.
WILMINGTON	5/28/2001	1	One inch hail occurred at the Wilmington airport. The hail was observed and entered in the Wilmington ASOS observation.
WILMINGTON	4/3/2002	0.75	Dime size hail reported on Shipyard Blvd.
MYRTLE GROVE	5/10/2002	1	New Hanover 911 reported quarter size hail. Dime size hail was also reported on Carolina Beach Rd.
WILMINGTON	7/31/2002	0.75	Dime size hail reported near Oleander and Hydrangea Drives.
CAROLINA BEACH	3/11/2003	1	911 reported quarter size hail.
WILMINGTON	3/11/2003	0.75	Ham radio operator reported dime size hail at the state port.
WILMINGTON	3/11/2003	0.88	Off duty NWS employee reported nickel size hail.
WILMINGTON	3/11/2003	0.88	Off duty NWS employee reported nickel size hail.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
WILMINGTON	3/11/2003	1.25	Off duty NWS employee reported one-inch size hail. The public also reported hail at Wrightsville Beach.
WILMINGTON	3/11/2003	0.75	Public reported dime size hail.
WILMINGTON	3/11/2003	1.25	Spotter reported half dollar size hail. The police also reported dime size hail at Wrightsville Beach.
MURRAYSVILLE	5/29/2003	0.75	An off-duty NWS employee reported penny size hail at his home.
WILMINGTON	5/31/2003	1	Widespread hail was reported in and around the city of Wilmington, ranging from penny to quarter size.
WILMINGTON	8/23/2003	1	New Hanover 911 reported quarter size hail in Wrightsboro.
WRIGHTSBORO	6/3/2004	1.25	Quarter to half dollar size hail was reported at the Fire/Rescue station 51.
MYRTLE GROVE	7/17/2004	1	A ham radio operator reported quarter size hail.
WILMINGTON	7/13/2005	0.75	Penny size hail was reported at the intersection of Shipyard Boulevard and Carolina Beach Rd.
WILMINGTON	1/2/2006	0.75	Hail covered the ground on Greenville Loop Rd.
CAROLINA BEACH	4/3/2006	1.75	Golf ball size hail was reported.
CAROLINA BEACH	4/3/2006	0.88	Nickel size hail was covering the ground just north of Snows Cut Bridge.
WILMINGTON	4/3/2006	0.75	Penny size hail reported at Pine Grove and Holly Tree Rd.
WILMINGTON	6/6/2006	0.88	Nickel size hail was reported in the Kings Grant subdivision.
WILMINGTON	6/6/2006	0.75	Penny size hail.
WILMINGTON	6/6/2006	0.75	
WILMINGTON	6/8/2006	1.75	Penny to golf ball size hail was reported in the Ogden area.
WILMINGTON	8/8/2006	0.75	Penny size hail was reported.
WILMINGTON	6/25/2007	0.75	Penny size hail fell along U.S. Highway 421.
WILMINGTON	3/15/2008	1	Quarter size hail was reported on Front Street.
FERNESIDE	4/21/2008	0.75	The public reported pea to penny size hail. The report was relayed via WECT television station.
MASONBORO	4/21/2008	0.75	National Weather Service employee measured three-quarter inch hail.
SEAGATE	4/21/2008	0.75	National Weather Service employee reported penny size hail.
EAST WILMINGTON	6/22/2008	0.88	Hail up to the size of nickels partially covered the ground.
WILMINGTON	6/22/2008	0.88	Hail up to the size of nickels was reported.
SEA BREEZE	5/11/2009	1.75	Hail up to the size of golf balls was reported along Red Lighthouse Lane.
SEA BREEZE	5/11/2009	0.88	Hail up to the size of nickels was reported on Player Way. The hail covered the ground.
MASONBORO	5/19/2010	0.75	Penny size hail was reported.
CAROLINA BEACH	5/10/2011	1.75	Hail to the size of golf balls was reported.
CAROLINA BEACH	5/10/2011	1.75	Hail to the size of golf balls was reported.
KURE BEACH	5/10/2011	1.75	Hail to the size of golf balls was reported.
MURRAYSVILLE	6/23/2011	1	Hail to the size of quarters was relayed by another National Weather Service office.
BAYMEADE	6/26/2011	0.75	Hail to the size of pennies was reported.
HARBOR IS	6/29/2011	1.75	Hail to the size of golf balls was reported at Wings.
CASTLE HAYNE	10/7/2012	0.88	Hail to the size of nickels reportedly covered the ground.
FERNESIDE	7/28/2014	1	Hail to the size of quarters was reported at the Golden Corral Restaurant on New Centre Drive.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
FERNESIDE	7/28/2014	1	Quarter size hail was reported at the intersection of Martin Luther King Jr. Parkway and N Kerr Avenue.
MYRTLE GROVE	5/3/2016	0.75	Hail to the size of pennies was reported.
MURRAYSVILLE	5/12/2016	1	Hail to the size of quarters was reported in Brittany Lakes subdivision.
BAYMEADE	7/19/2016	0.75	Dime to penny size hail was reported near the intersection of Military Cutoff Road and Market Street.
BAYMEADE	7/19/2016	1	Hail to the size of quarters was reported near the intersection of Gordon Road and Market Street. The time was estimated by radar data.
BAYMEADE	7/12/2018	1	Quarter size hail was reported on Gordon Road, near Interstate 40.
MURRAYSVILLE	9/9/2019	0.75	The public reported three quarter inch hail fell for several minutes.
NEW BERN JCT	9/9/2019	1	Quarter size hail was reported.
<b>Onslow County</b>			
SNEADS FERRY	4/18/2000	0.75	
RICHLANDS	5/28/2000	0.75	
SWANSBORO	8/13/2000	0.75	
VERONA	8/13/2000	0.75	
Unincorporated Area	4/1/2001	0.75	
CATHERINE LAKE	4/1/2001	0.75	
HAW BRANCH	4/1/2001	0.75	
JACKSONVILLE	4/1/2001	1.75	
HAW BRANCH	5/12/2001	1.25	
RICHLANDS	5/20/2001	0.75	
HAW	5/26/2001	0.75	
JACKSONVILLE	5/28/2001	0.75	
CAMP LEJEUNE	7/6/2001	0.75	
RICHLANDS	6/14/2002	0.88	
HAW BRANCH	7/10/2002	0.75	
HAW BRANCH	8/19/2002	1.25	
RICHLANDS	3/6/2003	0.88	Onslow county 911 reported nickel size hail near Haws Run.
CATHERINE LAKE	4/30/2003	1	Public reported one inch diameter hail.
BELGRADE	7/17/2003	1	Onslow county 911 center reported hail.
RICHLANDS	6/11/2004	0.75	Public reported penny size hail.
PINEY GREEN	7/11/2004	1.75	Public report of golf ball size hail.
JACKSONVILLE	10/13/2004	0.75	
NORTH TOPSAIL BEACH	5/24/2005	0.88	
CAMP LEJEUNE	8/3/2005	0.75	Penny size hail reported near Highway 24.
CAMP LEJEUNE	8/16/2005	0.75	Penny size hail reported south of Jacksonville from near Camp Lejeune to near Verona.
JACKSONVILLE	4/3/2006	1.25	Public reported penny to quarter size hail in Jacksonville.
Unincorporated Area	4/17/2006	0.75	
SWANSBORO	4/17/2006	1	
JACKSONVILLE	5/26/2006	0.75	
JACKSONVILLE	5/26/2006	1.5	
CATHERINE LAKE	6/3/2006	1	
CAMP LEJEUNE	6/5/2006	0.75	

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
SWANSBORO	6/5/2006	0.88	
CAMP LEJEUNE	6/6/2006	1.75	
HUBERT	6/6/2006	0.75	
JACKSONVILLE	6/6/2006	0.75	
PINEY GREEN	6/6/2006	0.75	
SWANSBORO	6/6/2006	1	
RICHLANDS	6/12/2006	0.88	
JACKSONVILLE	6/28/2006	1	
RICHLANDS	6/28/2006	1	
JACKSONVILLE	6/30/2006	0.75	Hail reported in Haws Run.
JACKSONVILLE	7/29/2006	0.75	Hail reported at the intersection of Highway 17 and the Highway 17 Bypass.
HUBERT	8/5/2006	0.75	
Unincorporated Area	6/5/2007	0.88	The public reported nickel size hail.
BELL FORK	6/5/2007	0.75	Penny size hail and large tree branches were reported down on Gum Branch Road.
BELL FORK	6/5/2007	1	Quarter size hail was reported near Highway 17.
CATHERINE LAKE	6/5/2007	0.88	Nickel size hail was reported near Catherine Lake.
ERVINTOWN	6/5/2007	0.75	Penny size hail was reported in Ervintown.
HAW	6/5/2007	0.75	County 911 center reported penny sized hail near highway 53.
SKY MANOR ARPT	6/5/2007	1.75	Golf ball size hail was reported on Highway 53 near Angola.
MORTON FORK	6/12/2007	0.75	Penny size hail was reported just west of Morton Park.
BELGRADE	6/16/2007	0.75	Penny size hail was reported in Belgrade.
SEAHAVEN	3/15/2008	1	Spotter reported quarter size hail near North Topsail Beach.
ERVINTOWN	4/21/2008	0.75	Penny size hail covering the ground in Richlands.
SKY MANOR, SWANSBORO	4/21/2008	0.75	An upper level area of low pressure moved across eastern North Carolina during the afternoon of April 21 2008. Cold temperatures in the mid-levels of the atmosphere were conducive for thunderstorms with many producing hail.
BELL FORK	5/5/2008	0.88	Scattered thunderstorms developed just north of a stationary front across eastern North Carolina during the afternoon of May 5th. Isolated storms became severe producing large hail.
CATHERINE LAKE	5/5/2008	0.75	Scattered thunderstorms developed just north of a stationary front across eastern North Carolina during the afternoon of May 5th. Isolated storms became severe producing large hail.
KELLUMTOWN	5/5/2008	0.75	Scattered thunderstorms developed just north of a stationary front across eastern North Carolina during the afternoon of May 5th. Isolated storms became severe producing large hail.
MIDWAY PARK	5/5/2008	0.88	Scattered thunderstorms developed just north of a stationary front across eastern North Carolina during the afternoon of May 5th. Isolated storms became severe producing large hail.
BELL FORK	5/10/2008	1	A weak cold front stalled over southeast North Carolina during the early morning hours of May 10th. Isolated thunderstorms developed along this boundary and moved across the southern parts of eastern North Carolina. Some of the storms became severe producing large hail and strong winds.
ERVINTOWN	5/10/2008	0.75	A weak cold front stalled over southeast North Carolina during the early morning hours of May 10th. Isolated thunderstorms developed along this boundary and moved across the southern parts of eastern North Carolina. Some of the storms became severe producing large hail and strong winds.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
HALF MOON	5/10/2008	0.75	A weak cold front stalled over southeast North Carolina during the early morning hours of May 10th. Isolated thunderstorms developed along this boundary and moved across the southern parts of eastern North Carolina. Some of the storms became severe producing large hail and strong winds.
HUBERT	5/10/2008	0.75	A weak cold front stalled over southeast North Carolina during the early morning hours of May 10th. Isolated thunderstorms developed along this boundary and moved across the southern parts of eastern North Carolina. Some of the storms became severe producing large hail and strong winds.
BELL FORK	5/11/2008	0.88	Numerous thunderstorms developed near the coast of eastern North Carolina during the late afternoon and evening hours ahead of a cold front. Unstable air ahead of the cold front combined with strong wind shear to produce rotating thunderstorms and several tornadoes were reported near the south coast in parts of Onslow...Jones and Carteret counties.
BELL FORK	5/11/2008	0.88	Numerous thunderstorms developed near the coast of eastern North Carolina during the late afternoon and evening hours ahead of a cold front. Unstable air ahead of the cold front combined with strong wind shear to produce rotating thunderstorms and several tornadoes were reported near the south coast in parts of Onslow...Jones and Carteret counties.
HAW	5/11/2008	0.75	Numerous thunderstorms developed near the coast of eastern North Carolina during the late afternoon and evening hours ahead of a cold front. Unstable air ahead of the cold front combined with strong wind shear to produce rotating thunderstorms and several tornadoes were reported near the south coast in parts of Onslow...Jones and Carteret counties.
MIDWAY PARK	5/11/2008	0.75	Numerous thunderstorms developed near the coast of eastern North Carolina during the late afternoon and evening hours ahead of a cold front. Unstable air ahead of the cold front combined with strong wind shear to produce rotating thunderstorms and several tornadoes were reported near the south coast in parts of Onslow...Jones and Carteret counties.
PALO ALTO	5/11/2008	0.75	Numerous thunderstorms developed near the coast of eastern North Carolina during the late afternoon and evening hours ahead of a cold front. Unstable air ahead of the cold front combined with strong wind shear to produce rotating thunderstorms and several tornadoes were reported near the south coast in parts of Onslow...Jones and Carteret counties.
BELL FORK	5/20/2008	0.75	A cold front crossed eastern North Carolina during the late evening hours of May 20th. Thunderstorms became numerous across the area during the late afternoon and early evening hours ahead of the cold front. Some of the thunderstorms became severe producing numerous reports of large hail.
CATHERINE LAKE	5/20/2008	0.75	A cold front crossed eastern North Carolina during the late evening hours of May 20th. Thunderstorms became numerous across the area during the late afternoon and early evening hours ahead of the cold front. Some of the thunderstorms became severe producing numerous reports of large hail.
VERONA	5/20/2008	0.75	A cold front crossed eastern North Carolina during the late evening hours of May 20th. Thunderstorms became numerous across the area during the late afternoon and early evening hours ahead of the cold front. Some of the thunderstorms became severe producing numerous reports of large hail.
BELL FORK	6/1/2008	0.75	An upper level disturbance and cold front approaching from the west, combined with a very unstable atmosphere, led to scattered thunderstorms over eastern North Carolina. Most of the storms occurred during the late afternoon and evening hours with some producing strong winds and large hail.
KELLUMTOWN	6/1/2008	0.88	An upper level disturbance and cold front approaching from the west, combined with a very unstable atmosphere, led to scattered thunderstorms over eastern

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
			North Carolina. Most of the storms occurred during the late afternoon and evening hours with some producing strong winds and large hail.
MIDWAY PARK	6/1/2008	1	An upper level disturbance and cold front approaching from the west, combined with a very unstable atmosphere, led to scattered thunderstorms over eastern North Carolina. Most of the storms occurred during the late afternoon and evening hours with some producing strong winds and large hail.
BELL FORK	6/29/2008	1.5	Hot temperatures and high humidity led to a very unstable air-mass across eastern North Carolina during the afternoon and evening of June 29th. Scattered thunderstorms developed along the sea breeze during the afternoon and a few became severe producing damaging winds and large hail.
BELL FORK	6/29/2008	0.88	Hot temperatures and high humidity led to a very unstable air-mass across eastern North Carolina during the afternoon and evening of June 29th. Scattered thunderstorms developed along the sea breeze during the afternoon and a few became severe producing damaging winds and large hail.
CAMP LEJEUNE	6/29/2008	2	Hot temperatures and high humidity led to a very unstable air-mass across eastern North Carolina during the afternoon and evening of June 29th. Scattered thunderstorms developed along the sea breeze during the afternoon and a few became severe producing damaging winds and large hail.
HALF MOON	6/29/2008	1	Hot temperatures and high humidity led to a very unstable air-mass across eastern North Carolina during the afternoon and evening of June 29th. Scattered thunderstorms developed along the sea breeze during the afternoon and a few became severe producing damaging winds and large hail.
HUBERT	7/21/2008	0.88	Nickel sized hail reported in Bear Creek.
BELL FORK	10/1/2008	0.75	A cold front crossed eastern North Carolina during the evening of October 1st 2008. warm and unstable air ahead of the cold front help produce scattered thunderstorms over the area. A few of the storms became severe and produced large hail.
BELGRADE	6/13/2009	1.75	A few severe thunderstorms developed just ahead of a weak cold front across eastern North Carolina during the evening of June 13th 2009.
DEPPE	6/13/2009	0.75	A few severe thunderstorms developed just ahead of a weak cold front across eastern North Carolina during the evening of June 13th 2009.
CATHERINE LAKE	7/23/2009	0.75	Penny size hail reported near Highway 258 and Rhodes Town Road.
CATHERINE LAKE	7/24/2009	0.75	Onslow County 911 Center relayed report of hail and strong winds along Fire Tower Road and Highway 111 near Catherine Lake.
GUM BRANCH	7/24/2009	0.75	Penny size hail reported along Northwest Bridge Road 4 miles southeast of Richlands.
HALF MOON	7/24/2009	0.88	Hail reported at the intersection of Gum Branch Road and Ramsey Road.
HALF MOON	7/24/2009	0.75	A cold front and upper level disturbance combined to produce widespread severe thunderstorms across the area mainly during the afternoon hours.
MIDWAY PARK	7/24/2009	0.75	Hail reported near Camp Lejeune main gate.
VERONA	7/24/2009	0.88	Hail reported at the intersection of Dawsons Cabin Road and Highway 17.
ERVINTOWN	8/5/2009	0.75	Penny size hail reported in Richlands.
JARMANTOWN	8/5/2009	0.75	Hail reported 6 miles northwest of Richlands.
TAR LNDG	10/13/2010	1	A cold front moved slowly south through eastern North Carolina during the afternoon and evening of October 13th 2010. An isolated thunderstorm developed along the front over Onslow county and produced large hail during the evening.
FOLKSTONE	6/29/2011	0.75	County official reported penny size hail, a wind gust estimated at 50 mph, and minor ponding of water on roadways.
HOLLY RIDGE	6/29/2011	0.88	County official reported nickel size hail with heavy rain in downtown Holly Ridge.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
HAWKSIDE	7/24/2011	1	Public reported quarter inch hail near the intersection of Indian Drive and Gum Branch Road.
HAWKSIDE	7/24/2011	0.88	Trained spotter reported nickel size hail in Gum Branch.
CAMP LEJEUNE	8/12/2011	1	Public reported quarter inch hail north of Jacksonville.
ERVINTOWN	9/30/2011	0.75	Law enforcement reported penny size hail in Richlands.
HAW BRANCH	2/24/2012	1	Scattered showers and thunderstorms moved across eastern North Carolina during the afternoon of February 24th ahead of cold front. A few of the storms became severe producing strong winds and large hail.
HAWKSIDE	3/25/2012	1	Broadcast media relayed public report and pictures of quarter size hail near New River.
BROCKS	3/30/2012	0.75	Isolated thunderstorms developed over the southern sections of eastern North Carolina during the late afternoon of March 30th as a warm front slowly lifted north into the area.
HUFFMANTOWN	3/30/2012	1	Isolated thunderstorms developed over the southern sections of eastern North Carolina during the late afternoon of March 30th as a warm front slowly lifted north into the area.
BELL FORK	5/5/2012	0.88	Public reported nickel size hail.
JARMANTOWN	7/1/2012	1.75	Public reported golf ball size hail in Jarmantown.
DIXON	3/22/2014	1	Quarter sized hail was observed at Dixon High School.
HUBERT	3/22/2014	1	Public reported quarter size hail and strong winds along Queens Creek.
SHELL ROCK LNDG	3/22/2014	0.75	Spotter reported penny sized hail near Hammocks Beach.
STARLING	3/22/2014	0.75	An observer reported dime to penny sized hail south-southeast of Hubert.
STARLING	3/22/2014	1.75	Golf ball sized hail reported near Hubert.
SWANSBORO	3/22/2014	1.75	Spotter reported golf ball sized hail in Swansboro.
FOLKSTONE	5/23/2014	0.88	North Shore Golf Course estimated penny to nickel sized hail.
FOLKSTONE	5/23/2014	0.75	Public reported dime size hail.
FOLKSTONE	5/23/2014	0.88	Public reported nickel size hail.
HUBERT	5/23/2014	0.88	Onslow County 911 center received report of nickel sized hail in Hubert.
HAW BRANCH	5/27/2014	1	Onslow County 911 center relayed report of quarter size hail near the Hwy 24 and Hwy 258 intersection.
JCKSNVLL ELLIS ARPT	9/17/2014	1	Spotter reported quarter sized hail just south of the Albert J Ellis Airport.
BELL FORK	6/19/2015	1	Public report through social media of quarter size hail in Jacksonville.
HAWKSIDE	6/19/2015	1	Onslow County 911 center reported nickel to quarter size hail at their location. Public also reported one-inch hail.
JACKSONVILLE	6/19/2015	1	Public reported 1-inch hail in Jacksonville.
TAR LNDG	6/19/2015	0.88	Onslow County 911 Center relayed public report of nickel sized hail on Falcon Crest Road west of Jacksonville.
ERVINTOWN	6/14/2016	1.25	Half dollar size hail reported in Richlands.
ERVINTOWN	6/14/2016	1	Quarter size hail reported in Richlands.
GUM BRANCH	7/19/2016	0.88	Report of nickel size hail in Gum Branch.
HALF MOON	7/19/2016	0.88	Nickle size hail reported in Half Moon.
SWANSBORO	7/19/2016	0.75	Dime size hail reported in Swansboro.
SNEADS FERRY	6/14/2018	1	Quarter size hail fell at Everett Yopp Dr.
CATHERINE LAKE	6/24/2018	1.5	Scattered to numerous thunderstorms developed over Eastern North Carolina during the afternoon and evening hours. Some of these storms became severe with large hail and damaging winds. An upper level trough of low pressure and strong

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
			shear combined with strong instability over the area to produce the severe thunderstorms.
JACKSONVILLE	6/24/2018	1	Quarter size hail was reported on Henderson Drive.
JACKSONVILLE	6/24/2018	1	Quarter size hail was reported via social media.
JACKSONVILLE	6/24/2018	1	Quarter size hail was reported.
<b>Pender County</b>			
CURRIE	4/18/2000	0.75	Trained spotter reported dime size hail.
SCOTTS HILL	5/22/2000	0.75	Skywarn spotter reported dime-size hail.
HAMPSTEAD	5/25/2000	0.75	
PENDERLEA	7/16/2000	1.75	Golfball to as large as softball size hail fell in Penderlea. Extensive crop damage was noted, and large limbs were reported snapped off the treetops. A storm survey estimated the winds at 60 to 70 mph.
WARDS CORNER	7/16/2000	1.25	
WATHA	7/16/2000	1	
WILLARD	7/16/2000	1	Quarter size hail and numerous trees down were reported. The wind estimate is unknown.
BURGAW	7/22/2000	0.75	Spotter reported dime size hail.
PENDERLEA	7/22/2000	1	Deputy reported quarter size hail.
CURRIE	8/11/2000	0.75	Dime size hail reported.
HAMPSTEAD	4/1/2001	0.75	Spotter reported dime size hail.
ROCKY PT	4/1/2001	0.75	TV station reported dime size hail.
WILLARD	5/12/2001	1.75	Spotter reported golfball size hail.
HAMPSTEAD	5/28/2001	1.75	NWS employee reported golfball size hail.
CURRIE	5/29/2003	0.75	A spotter reported penny size hail.
CURRIE	5/29/2003	1	A spotter reported quarter size hail.
CURRIE	5/29/2003	0.75	Penny size hail covered the ground.
SCOTTS HILL	5/29/2003	0.75	A Skywarn spotter reported penny size hail.
SURF CITY	5/29/2003	1	Surf City police reported quarter size hail.
PENDERLEA	6/20/2003	0.88	The Penderlea general store reported nickel size hail. A tree and large limbs were also reported down.
MAPLE HILL	7/11/2004	0.75	Penny size hail was reported.
WATHA	1/31/2006	1	Rocky Point fire department reported quarter size hail.
ATKINSON	4/3/2006	1.75	Golfball size hail was reported near Hwy 421 and 53.
ATKINSON	5/26/2006	1.75	Golfball size hail fell along Hwy 421.
BURGAW	5/26/2006	0.75	Penny size hail was reported.
WATHA	6/6/2006	0.88	Nickel size hail covered the ground.
WATHA	6/6/2006	0.75	Penny size hail fell.
HAMPSTEAD	6/8/2006	0.75	Penny size hail was reported just north of Scotts Hill.
CURRIE	6/25/2007	0.75	Penny size hail fell on Hwy 421.
SHELTER NECK	4/21/2008	0.75	Hail covered the ground along State Route 53.
BURGAW	5/5/2008	0.75	Law enforcement reported penny size hail.
MARLBORO	5/5/2008	0.75	EMS reported hail along U.S. Highway 117, just north of Castle Hayne.
ROCKY PT	5/5/2008	0.75	Penny size hail fell at the intersection of U.S. Highway 117 and State Route 210.
EAST ARCADIA	5/11/2008	1	A National Weather Service employee measured one-inch hail.
MARLBORO	5/11/2008	1.75	The public measured golf ball size hail in the Swan Plantation community, about one mile north of the Cape Fear River Bridge on U.S. Highway 117.
TOPSAIL	5/11/2008	0.88	A National Weather Service employee reported penny to nickel size hail.
ATKINSON	5/20/2008	0.75	A Pender County Deputy reported penny size hail on State Route 53.



**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Size	Description
BELLS XRDS	6/9/2008	0.88	Report of nickel size hail along NC Highway 210.
PENDERLEA	4/20/2009	0.88	Hail up to the size of nickels was reported.
PINEY WOOD	4/28/2011	1	In the conduction of a National Weather Service Storm Survey, those interviewed stated they observed hail to the size of quarters along Highway 421.
SURF CITY	6/29/2011	0.75	Hail to the size of pennies was reported.
MURRAY TOWN	9/28/2011	1	Hail to the size of quarters was reported near the intersection of Highway 53 and Burgaw Creek Loop Road.
BURGAW	3/25/2012	1	Nickel to quarter size hail covered the ground.
MALPASS CORNER	3/25/2012	1	Hail up to the size of quarters was reported.
WARDS CORNER	3/25/2012	0.88	Nickel size hail covered the ground.
HAMPSTEAD	5/22/2012	1.75	Hail to the size of golf balls was reported on Sheep Ford Road.
HAMPSTEAD	5/22/2012	1	One-inch hail was measured in the Cross Creek subdivision.
HAMPSTEAD	5/22/2012	1	One-inch hail was measured on Knollwood Drive.
ROCKY PT	5/22/2012	1	Hail to the size of quarters was reported near the intersection of Highway 117 and 210.
ROCKY PT	5/22/2012	0.75	Three-quarter inch hail was measured.
CURRIE	6/23/2012	0.75	Hail to the size of pennies was reported.
WILLARD	7/1/2012	1	Hail to the size of quarters was reported.
ATKINSON	8/2/2012	1	Hail to the size of quarters was reported.
MARLBORO	10/7/2012	1	Hail to the size of quarters was reported along Willows Bay Drive.
MARLBORO	10/7/2012	1	Hail to the size of quarters was reported near the intersection of Carver Drive and Summit Ridge Road.
MARLBORO	3/22/2014	0.88	Hail up to the size of nickels was reported at the intersection of Carver Drive and Summit Ridge Drive.
MARLBORO	3/22/2014	1	Hail up to the size of quarters was reported on the Pender County side of the I-40 bridge. The time was estimated based on radar data.
MARLBORO	3/22/2014	1.5	Irregularly shaped hailstones estimated at quarter to ping pong ball size were reported in Summit Ridge. The time was estimated based on radar data.
LONG CREEK	5/29/2014	1	Hail to the size of quarters was reported.
SHELTER NECK	6/5/2014	1	Quarter size hail reportedly broke a window on a mobile home on John Pickett Road. The time was estimated based on radar data.
WATHA	6/18/2015	0.75	Hail to the size of pennies was reported.
VAN EDEN	5/3/2016	1.5	Hail to the size of ping pongs was reported.
SIX FORKS	5/13/2016	1	A video showed hail falling. The size was estimated to be dime to quarter size. The time was estimated by radar.
SCOTTS HILL	7/14/2016	1	Hail up to the size of quarters was reported. The hail lasted for several minutes.
BURGAW	5/25/2017	0.88	Hail to the size of nickels was reported.
HAMPSTEAD	5/31/2019	1	Quarter size hail was reported.
WALKERS STORE	8/10/2019	1	Dime to quarter size hail was reported. Minor crop damage was also suspected.

**TABLE H.5: HEAVY RAIN EVENTS (2000-2019)**

Location	Date	Description
<b>Brunswick County</b>		
SHALLOTTE	8/30/2002	Hwy 17 near 4 Mile Road flooded. Public reported numerous other roads flooded.
LELAND	7/3/2004	Nearly four inches of rain fell at Magnolia Greens golf course. Many intersections had 18 inches of standing water.
LELAND	9/1/2004	Significant street flooding was reported with two feet of water on Village Road.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
LELAND	9/10/2004	A sheriff reported Hwy 133 flooded near Brunswick Cove nursing home.
SHALLOTTE	10/7/2005	The remnants of Tropical Storm Tammy, in conjunction with a weak upper level disturbance in the Caribbean set up an unusually long and sustained fetch of tropical moisture over the area. The heaviest rain occurred near the coast, where seven to nine inches of rain fell on average over a three day period. Even more rain fell over eastern Brunswick and New Hanover county, where over a foot of rain fell. Over 50 roads in Brunswick county alone were either partially or completely impassable. In New Hanover county, the Cape Fear Museum's basement was completely flooded. Over 46,000 rare artifacts were stored in this area. Many residential areas had roads replaced by small lakes, with numerous homes and some businesses sustaining minor to moderate flood damage. In Robeson county, State Highway 130 was barricaded due to high water. Pender county also saw flooding, with portions of Highway 117 under water. Much of the monetary damages were due to debris cleanup, road repair, and water damage to homes and businesses.
WINNABOW	9/14/2006	Heavy rain caused Hwy 17 to be nearly impassable at Goodman Branch Rd. Other roads were impassable in Magnolia Greens.
LELAND	8/16/2009	Several roads in the community of Brunswick Forest were flooded. One road had up to two feet of standing water.
HOLDEN BEACH	12/2/2009	There was standing water on Beach Drive, Ocean and Sunset Drive, and Holden Beach Drive.
ASH	9/27/2010	Water covered Ash Road in the town of Ash.
BOLIVIA	9/27/2010	There was flooding in the southbound lane of Interstate 17, west of Boiling Spring Lakes.
EASY HILL	9/27/2010	Street flooding was reported on Westport Drive and Mallory Creek Road.
EASY HILL	9/27/2010	Water covered the road at River Road at Westport Drive and Malory Creek.
FULFORD	9/27/2010	A portion of Gray Bridge Road was washed away.
LELAND	9/27/2010	Several streets were flooded in Leland.
VARNUM	9/27/2010	There was standing water on Zion Hill Road.
RUSSTOWN	12/24/2014	Heavy rain produced flooding on Hwy 17.
MIDWAY	9/3/2015	Over two inches of rain fell in about 90 minutes. Ditches were full.
ELIAH	7/19/2016	Over four inches of rain fell in an hour and a half.
SUPPLY	7/19/2016	Almost three inches of rain fell at the Supply Nature Conservatory.
<b>New Hanover County</b>		
WILMINGTON	9/18/2000	Two accidents occurred due to the heavy rain on the Cape Fear Memorial Bridge. Minor injuries were reported.
WILMINGTON	7/15/2002	911 center reported standing water on many streets. New Center Drive near the overpass at Market Street had 1-2 feet of standing water. Radar estimated between three and four inches of rain fell in this area.
WILMINGTON	8/29/2002	Heavy rain on already saturated soil caused street flooding over much of Wilmington. Old Mill road was under 4 feet of water, with scattered flooding reported in North Chase and other subdivisions north of Market Street. Burnt Mill Creek breached its banks and flooded a large part of Mary Bridge Park off Princess Place Drive.
WILMINGTON	8/30/2002	Flooding reported at the intersection of Carolina Beach Road and Burnet Blvd. Standing water was reported in the Ogden area.
WILMINGTON	8/31/2002	Two to three inches of rain fell on already saturated ground, causing flooding at the corner of Market St and Gordon Rd. Many other roads in the northern portion of the city were flooded.
WILMINGTON	7/29/2004	A foot of water was reported in Kings Grant.
WILMINGTON	8/15/2004	Several neighborhoods were flooded in the Masonboro area. Portions of College Rd. were flooded.
MURRAYSVILLE	9/1/2004	Street flooding was reported on Murraysville road near the Quail Wood community. Road was nearly impassable.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
WILMINGTON	9/1/2004	Heavy rain produced street flooding on Oleander Drive and Dawson Street. Flooding was also reported on the 7400 block of Market Street southbound.
WILMINGTON	9/1/2004	Water was entering the buildings on South 2nd Street. Damage, if any, was unknown.
CASTLE HAYNE	9/10/2004	Heavy rain produced low land flooding with one foot of water in parking lots and some yards.
WILMINGTON	9/10/2004	The Wilmington police department reported numerous roads flooded and impassable in the city and surrounding communities.
WILMINGTON	9/14/2004	Off duty NWS employee reported Masonboro Loop nearly impassable with a foot of water on the road.
WILMINGTON	7/13/2005	Flooding was reported on 17th St. and Oleander, as well as Dawson St.
MASONBORO	8/19/2005	Intersection of College Rd. and 17th St. under a foot of water with traffic flow disrupted.
MASONBORO	8/19/2005	Water covered the road at the intersection of College Road and South 17th Street to a depth of one foot. Several nearby lawns had standing water to a depth of eight inches.
WILMINGTON	8/23/2005	Law enforcement reported numerous flooded roadways across Wilmington.
WILMINGTON	8/23/2005	Racine Drive was closed due to flooding. Both Pilgrim Circle and Castle Hayne Road were flooded. Numerous other roads in the county were reported flooded.
WILMINGTON	10/7/2005	
WILMINGTON	11/21/2005	Rainfall amounts of three to four inches produced street flooding in Wilmington and Carolina Beach. Market Street had flooding between College Road and Gorden Road. Many businesses had standing water in their parking lots, with one business sustaining minor water damage. In Carolina Beach, moderate street flooding was observed, with a section of Lake Park Boulevard closed.
WILMINGTON	8/27/2007	Heavy rain produced street flooding along Market Street at the 1500 block. The road was briefly closed. An NWS employee reported six inches of standing water downtown.
WILMINGTON	5/11/2008	A thunderstorm produced two and a half inches of rainfall in an hour at the airport...with over three inches recorded at a Mesonet site.
WILMINGTON	6/22/2008	Flooding was reported on South College Road from New Center Drive to Shipyard.
WILMINGTON	6/22/2008	Heavy rain caused street flooding at Highway 132 and Gordon Road.
WILMINGTON	9/25/2008	A NWS employee reported 2.73 of rain at his residence.
MASONBORO	7/6/2009	Heavy rainfall produced multiple reports of flooded cars and flooded streets. There were several stalled cars on Racine Drive with standing water up to the hoods of the vehicles, and cars were stranded at the 1000 block of Rankin Drive and Wagner Drive.
WILMINGTON	9/22/2009	Heavy rain washed out a driveway in Porters Neck.
MASONBORO	11/11/2009	About half a foot of water was covering the road at the intersection of Pine Grove and Masonboro Loop Road.
WILMINGTON	12/2/2009	Ditches overflowed onto Oleander Road, just east of College Road.
WILMINGTON	12/2/2009	Heavy rain produced eight inches of standing water on 23rd Street between Market and Princess Place. There was standing water on portions of Darlington Ave near Covil Road.
WILMINGTON	12/2/2009	Heavy rain produced street flooding at Murrayville Road between Candlewood and Rockwell Roads. There was also water on Quail Woods Road and Covey Lane.
BAYMEADE	6/2/2010	Three to four inches of rain fell, with standing water on Torchwood Blvd.
NAVASSA	6/2/2010	Heavy rain caused a holding pond to overflow on Landville Trace Rd.
FERNESIDE	9/27/2010	Heavy rain caused some streams to overflow their banks.
SEAGATE	9/27/2010	Street flooding was reported on 58th Street, between Oleander and Roseland Drive.
WILMINGTON	9/27/2010	A small stream near Forrest Hills Elementary School overflowed its banks, flooding Colonial Drive.
MURRAYSVILLE	3/19/2012	Heavy rain produced street flooding on Murrayville Road at the intersections of Pointer and Setter Lanes. The roads were briefly closed.
CAROLINA BEACH	8/1/2012	Heavy rain produced street flooding on Canal Drive in Carolina Beach.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
WILMINGTON	8/1/2012	Several inches of standing water were at the intersection of 16th Street and Dawson. Water was also standing at 17th Street and Independence.
CAROLINA BEACH	12/26/2012	Heavy rain caused flooding on South Lake Park Blvd. Flooding was also reported on Lake Drive near Carolina Lake up into the parking lots of local businesses.
WILMINGTON	4/12/2013	About a half a foot of standing water was at the intersection of Dawson and 16th Street. Traffic was at a standstill.
MASONBORO	8/17/2013	A spotter reported flooding in the subdivision of Eagles Nest with standing water in the streets and yards.
MYRTLE GROVE	8/17/2013	Street flooding was reported at the intersection of Carolina Beach Rd and Piner Rd.
WILMINGTON	8/22/2013	Street flooding was reported with stalled cars near New Hanover High School.
<b>Onslow County</b>		
SWANSBORO	9/27/2010	Storm total rainfall of 21.65 inches reported by an observer.
FOLKSTONE	5/30/2012	An observer reported 0.92 inches in an hour and a half with heavy ponding on nearby roads.
<b>Pender County</b>		
HAMPSTEAD	9/14/2004	A meteorologist reported two feet of water in several residents' yards.
HAMPSTEAD	10/7/2005	
TOPSAIL	9/22/2009	Street flooding was reported at the intersection of Hwy 17 and Sloop Point Road.
HAMPSTEAD	11/11/2009	Hwy 210 eastbound in eastern Pender County was closed due to flooding. Olde Point and Country Club Road were also closed to standing water.
BURGAW	8/22/2010	Over six inches of rain produced minor flooding over portions of interior Pender County.
CURRIE	6/7/2013	Water covering the road at the intersection of Hwy 421 and Hwy 210.
MARLBORO	6/23/2013	Heavy rain caused part of a private road to be washed out near Sycamore Rd in Castle Hayne.
ROCKY PT	6/23/2013	Multiple roads had standing water including US Hwy 117 near Rocky Point.

**TABLE H.6: HEAVY SNOW EVENTS (2000-2019)**

Date	Description
<b>Onslow County</b>	
1/20/2009	Rain changed to snow around 9 am and continue into the late evening hours. Snow accumulated 2 to 3 inches across the county.
2/12/2010	Reports throughout the county of 6 to 8 inches of snowfall.
12/26/2010	Widespread snow developed during the morning hours and continued into the early evening. Total snow accumulations ranged from 3 to 4 inches over most of the county with 2 inches or less closer to the coast. One fatality occurred during the morning in an automobile accident due to slippery roads.
1/10/2011	Snow accumulations of 3 to 5 inches reported across the entire county.

**TABLE H.7: HIGH WIND EVENTS (2000-2019)**

Date	MPH	Description
<b>New Hanover County</b>		
3/24/2013	51	A 59-mph gust was recorded at the Johnny Mercer Pier.
3/24/2013	51	A 59-mph gust was recorded at the Oceanic Restaurant.
3/24/2013	58	A 67-mph gust was recorded at the Oceanic Restaurant.
3/7/2014	53	A 61-mph wind gust was estimated by a spotter in Kure Beach. A few minutes earlier, a 56-mph gust was estimated.
10/4/2015	53	The wind instrumentation at Johnnie Mercer's Pier measured a wind gust to 61 mph.
4/26/2019	61	Nearly a dozen trees were blown down along US-117 in the Northchase neighborhood.
<b>Onslow County</b>		

**APPENDIX H: NCEI STORM EVENT DATA**

Date	MPH	Description
12/16/2000	47	On the morning of December 17th, a strong cold front moved across Eastern North Carolina followed by a very powerful high pressure system. As the high pressure moved into the region, afternoon non-thunderstorm winds of 40 to 50 mph caused some minor damage to street lights and outdoor signs. Two boaters were lost that morning in the New River when their fishing boat capsized in the high wind.
3/13/2001	47	Strong northeast winds of 50 to 60 mph caused minor damage in coastal counties and along the Outer Banks. The worst damage reported was a roof that had been blown off of a business in Onslow County.
3/20/2001	52	Strong northeast winds of 55 to 60 mph effected the Crystal Coast as well as the Outer Banks. A roof was destroyed on a home in Onslow county when a tree fell on the residence.
1/6/2002	54	Strong non-convective winds of 60 to 70 mph impacted the Crystal Coast and Outer Banks during the afternoon of March 6, 2001. No damage was reported; however, trees were reported down in some areas as well as numerous power outages.
2/4/2002	34	Strong high pressure moved into Eastern North Carolina during the evening hours of February 4th creating sustained winds along the coast of 40 to 50 mph. No damage was reported.
3/7/2004	55	A cold front moved through producing strong damaging winds across much of the area during the late evening hours on March 7th. Wind gusts ranged from 50 to 72 miles per hour causing minor structural damage. Many trees and power lines were downed as a result of the strong winds.
2/28/2005	59	High winds associated with a coastal low-pressure area resulted in a 68-mph wind gust at Risely Pier in Onslow County, and a 60 mph wind gust at the Cedar Island Ferry.
5/6/2005	52	Report from Jacksonville.

**TABLE H.8: ICE STORM EVENTS (2000-2019)**

Date	Description
<b>Brunswick County</b>	
2/24/2015	Precipitation began as snow before dawn, accumulating around two tenths of an inch. The precipitation transitioned to freezing rain by late morning, with a report of a quarter inch of ice accumulation west of the town of Leland.
<b>New Hanover County</b>	
2/24/2015	Precipitation began as snow before dawn, accumulating around two tenths of an inch along the coast. The precipitation transitioned to freezing rain by late morning, with reports ranging from a tenth of an inch to as much as a quarter inch of ice accumulation along the northeast coast of New Hanover county.
<b>Onslow County</b>	
2/16/2015	A quarter inch of freezing rain observed across the northwestern part of the county. Some tree limbs were brought down by the weight of the ice.
<b>Pender County</b>	
2/24/2015	Precipitation began as snow before dawn, accumulating as much as .4 in the town of Hampstead. The precipitation transitioned to freezing rain by late morning, with reports of a quarter inch of ice accumulation along the entire coast.

**TABLE H.9: LIGHTNING EVENTS (2000-2019)**

Location	Date	Description
<b>Brunswick County</b>		
SHALLOTTE	6/6/2000	Lightning struck the electric transformer near Atlantic Telephone's main switch exchange, interrupting local telephone and Internet service for over 34,000 customers. The lightning knocked out the company's main power source, their generator, and exchange air conditioner.
LELAND	5/31/2003	Lightning struck a house in the 100 block of Rampart Street, starting a fire that burned half the house and totaled three automobiles.
SHALLOTTE	7/17/2004	A man walking along the beach at Bird Island was struck by lightning and was killed.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
LONG BEACH	8/14/2005	Lightning struck two homes in Long Beach. Minor damage to the interior of the homes was reported.
SHALLOTTE	8/14/2005	Lightning struck three houses with minor roof damage. A riding lawn mower was also damaged.
SECESSION	3/1/2009	Local law enforcement reported lightning struck a home in Holden Beach. The strike caused some structural damage and broke some windows.
SOUTHPORT	6/5/2011	Lightning strikes downed two trees in Southport.
MILL CREEK	8/22/2011	A house was struck by lightning on Westwood Road.
SOUTHPORT	3/19/2012	Lightning struck a house in the 4300 block of Gauntlet Drive. Lightning also struck a tree and set it ablaze at the intersection of Gauntlet Drive and St James Drive.
FT CASWELL	4/4/2012	Lightning destroyed a vacation home on 1 Palmetto Road on Bald Head Island. No one was in the house at the time.
BOWEN PT	5/14/2012	Lightning started a fire that caused moderate structural damage to a home on Mary Sheldon Road. The roof was damaged, but the house remained standing. No one was in the home at the time.
FT CASWELL	8/12/2012	Lightning struck a house at 27 Mourning Warbler Court, setting the third floor on fire. Renters of the home were able to escape without injury.
CASWELL BEACH	10/15/2012	Lightning started a house fire on SE 69th Street in Oak Island. The three-story beach home was badly damage. No one was home when the fire started.
MILL CREEK	6/3/2013	Lightning struck a house on South Shore Drive near Longwood Road.
EASY HILL	8/20/2013	Lightning struck a house on the 200 block of E Wood Lane. A teenager received a burn from a gaming system inside the home.
EASY HILL	8/20/2013	Lightning struck a storage building on the 600 block of Hickory Branches Ln.
VARNUM	6/15/2014	Lightning struck the Zion Hill Baptist Church, entering through a phone line. The lightning caused some electrical damage, as well as one minor injury.
SOUTHPORT	7/15/2014	A house was struck by lightning in Southport and was heavily damaged. Three firefighters had to be treated following the blaze.
VARNUM	8/3/2014	Lightning struck a house on 2949 Serrano Trail, causing moderate damage.
BISHOP	6/9/2015	Lightning struck a tree, which fell on power lines.
EASY HILL	7/23/2015	Lightning caused smoke and fire damage at the Waterberry Plantation Clubhouse in Leland.
LANVALE	7/23/2015	Lightning started a fire at 1806 Evangline Drive in Brunswick County. The fire burned the entire roof of the house.
THOMASBORO	4/5/2017	Lightning started a structural fire on Kirkcaldy Ct. The extent of the damage is estimated.
ELIAH	7/3/2019	Lightning started a fire at a home on Lapham Dr in Leland.
LANVALE	7/3/2019	Lightning damaged a home on Pullen Dr in Leland.
<b>New Hanover County</b>		
WILMINGTON	8/11/2000	Lightning stuck a home on Avenshire Circle, setting it ablaze. A fire captain estimated the damage at \$100,000. Lightning also struck a shed behind a private home on Meares Street, causing approximately \$6000 in fire damage.
WILMINGTON	6/16/2001	Lightning struck an apartment unit, starting a fire.
CAROLINA BEACH	7/6/2002	Lightning struck the beach near the Sandpiper Lane public beach access, injuring a lifeguard and two other people near the area, none seriously.
WILMINGTON	7/20/2002	A women was injured when struck by lightning and was sent to the hospital.
WRIGHTSVILLE BEACH	4/7/2003	Lightning started a fire at a large oceanfront home in Wrightsville Beach.
WILMINGTON	3/5/2005	Lightning damage several buildings downtown. Numerous limbs were blown down.
WRIGHTSVILLE BEACH	7/13/2005	Lightning struck near a lifeguard on Wrightsville Beach. The lifeguard suffered muscle spasms and was treated and released at the local hospital.
CAROLINA BEACH	8/14/2005	Lightning struck the beach at Bald Head Island, injuring nine people. Seven were treated at the local hospital for tingling feelings. One boy was in cardiac arrest when rescue units

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
		arrived and was revived at the scene. Another boy was knocked unconscious and was also revived at the scene. All the victims were out of the water and on the sand at the time of the strike.
WILMINGTON	7/28/2007	Lightning struck a home on Gorham Ave., heavily damaging the home.
WILMINGTON	7/28/2007	Lightning struck an apartment complex on Hearthsides Drive, heavily damaging it. Heavy rain also caused street flooding on Dawson Street, Medical Center Drive, and parts of College Road. About 1400 customers lost power.
WILMINGTON	6/26/2009	Lightning struck a house on North Bend Road in Ogden, setting it on fire. Around the same time, another home was struck on Kauri Street in the subdivision of Porters Neck, causing damage.
WILMINGTON	6/27/2009	Lightning struck a home on the corner of Shinn Creek Lane and Wescott, causing damage to the roof and some of the windows.
WRIGHTSVILLE BEACH	9/25/2009	A thunderstorm moved quickly into the Wrightsville Beach area, and lightning struck a young man swimming near the Crystal Pier.
SEAGATE	8/18/2010	Lightning struck a NWS employee's house, causing some structural damage and a fire.
EAST WILMINGTON	8/19/2010	Lightning struck a house at 5119 Somerset Lane, causing significant damage.
SEAGATE	5/13/2011	Lightning caused a structural fire on Oakcrest Drive.
SEAGATE	6/29/2011	Lightning struck a home 236 Spruce Drive.
WILMINGTON	7/10/2012	Lightning damaged a tree and a fence on Jackson Street.
BAYMEADE	7/23/2012	Lightning started a fire in Ogden Park. The fire spread and the park had to be evacuated.
CASTLE HAYNE	8/19/2012	Lightning struck and killed a man while fishing on the Northeast Cape Fear River near Castle Hayne.
KIRKLAND	12/26/2012	Lightning caused extensive fire damage to a house on Bonaventure Drive.
MYRTLE GROVE	8/23/2013	Lightning struck a home on 111 Pitch Pine Court, starting a fire. All indications are that significant damage was done before fire crew could put out the fire.
MYRTLE GROVE	9/2/2013	Lightning struck the roof of a home in Myrtle Grove. A small fire caused minor roof damage.
HARBOR IS	7/15/2014	Lightning struck a home on Turnberry Place in Landfall.
MYRTLE GROVE	7/15/2014	Lightning struck a house on 6201 Amble Side Drive. No fire was reported, but the lightning left a hole in the side of the house.
SEA BREEZE	7/15/2014	Lightning struck a home on Palmer Way. The house caught fire and was a total loss.
SEA BREEZE	7/15/2014	Lightning struck a house on Hogan Court.
BAYMEADE	6/19/2015	Lightning struck a house that started a fire on White Rd.
MYRTLE GROVE	12/24/2015	A man was taken to the hospital after he was struck by lightning on the 300 block of Burbank Road. His injuries did not appear life threatening.
HARBOR IS	7/14/2016	An ocean rescue vehicle was struck by lightning on Wrightsville Beach. The lightning also deflected and struck a woman. She broke her ankle and was dazed. The vehicle sustained electrical damage and would not start.
WILMINGTON	7/12/2018	Lightning started a structural fire on Keaton Ave in downtown Wilmington.
<b>Onslow County</b>		
SWANSBORO	5/28/2001	Lightning struck 3 homes in Swansboro causing fire damage.
ERVINTOWN	8/22/2010	Shed struck by lightning and burned down.
ERVINTOWN	9/7/2011	Law enforcement reported a house was struck by lightning on Haw Branch Road causing minor damage.
Unincorporated Area	7/11/2017	Two marines were struck by lightning while working on aircraft at New River MCAS. One of the marines passed away several days later due to serious injuries sustained from the lightning strike.
<b>Pender County</b>		

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	Description
SURF CITY	7/2/2001	Emergency manager reported that lightning struck a house in Surf City, south of the drawbridge.
SURF CITY	7/11/2001	Lightning struck a house on Oak Drive, punching charred holes in the roof and damaging most electrical appliances.
BURGAW	1/31/2006	Lightning struck a house, damaging the roof and exterior of the home. The lightning also damaged many electrical outlets within the home, and a telephone box.
TOPSAIL	7/7/2008	During a thunderstorm, four people took refuge under a house on Lea Island. A boy was struck by lightning and was killed. Three others were indirectly struck by lightning and were transported to the hospital. They reportedly were not seriously injured.
HAMPSTEAD	7/23/2009	Lightning struck a home on Saint John's Church Road. The house sustained very minor damage, and a microwave oven was destroyed.
SCOTTS HILL	6/29/2011	Lightning struck a home on 300 North Beach Road. Damage is unknown.
SLOOP PT	9/2/2013	A man and his wife were walking on the beach near South Shore Drive in Surf City when they were struck by lightning. It appears the man was struck directly, and the woman received only a minor shock. The man was knocked unconscious, but was revived about six minutes later and taken to the hospital for severe burns. Days later, he is alive but still recovering from his injuries. The woman had minor burns and was not hospitalized.
ASHTON	8/18/2014	Lightning caused a structural fire on Double Eagle Road.
SLOOP PT	7/23/2015	Lightning started a fire at 1601 South Shore Drive in Surf City.
NEW TOPSAIL BEACH	7/3/2016	Lightning injured four people at South Topsail Beach. After three people were transported, a police officer responding to the scene was also struck.
HAMPSTEAD	6/11/2018	Lightning struck a house in Hampstead, causing a large fire.

**TABLE H.10: THUNDERSTORM EVENTS (2000-2019)**

Location	Date	MPH	Description
<b>Brunswick County</b>			
LONGWOOD	5/25/2000	60	Brunswick 911 reported dime size hail, and a spotter reported a wind gust blew trees and power lines down. In addition, the roof of the Indigo Plantation clubhouse was damaged.
SHALLOTTE	7/21/2000	55	Brunswick 911 reported a large billboard was blown down.
WINNABOW	4/1/2001	55	Large tree was blown across a road.
LONGWOOD	8/29/2001	52	A spotter estimated a 60-mph wind gust knocked trees down along Ash Little River Road.
LELAND	5/10/2002	60	Spotter reported several trees down in the Magnolia Greens area.
WINNABOW	6/14/2002	55	Sherriff reported trees down.
LELAND	7/20/2002	56	Spotter estimated thunderstorm wind gusts to 65 mph. The winds damaged a steel frame house under construction. Dime size hail was also reported with this storm.
MACO	8/24/2002	55	Large tree limbs down.
WINNABOW	2/22/2003	55	Trees down on power lines.
LELAND	7/9/2003	60	The fire department reported trees down.
LELAND	6/3/2004	61	Wind gusts were estimated at 70 mph at the Magnolia Greens golf course. Patio furniture was blown 30 yards, and there was some shingles torn off of a house.
LELAND	7/17/2004	60	A Brunswick sheriff reported a large tree down blocking the entire roadway.
SOUTHPORT	7/17/2004	65	The public reported trees down off of Hwy 133 near Orton Plantation.
LANVALE	3/8/2005	60	Leland police reported several trees down.
WINNABOW	4/17/2006	60	Trees down. There was some reported flooding on Hwy 17.
LONGWOOD	7/15/2006	52	Numerous large limbs were blown down.
LELAND	4/15/2007	61	NWS Storm Survey concluded straight line winds to near 70 mph caused minor damage to approximately 12 homes along Port Royal Road, just north of the intersection with



**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
			Northwest Road NE. The damage was caused primarily by downed trees, some up to 16 inches in diameter. Spotty minor damage continued for approximately one quarter mile to the northeast near the intersection of Goose Neck Road and Little Trail. A garage door and an air conditioning unit were damaged in this area.
LONGWOOD	6/20/2008	50	A large tree was blown down at the intersection of Etheridge Road and Longwood Road.
PINEY GROVE	6/21/2008	52	A very large pine tree was uprooted.
VARNUM	6/21/2008	52	Thirteen large trees were blown down. The report was relayed via Brunswick County 911 Center.
MAKATOKA	7/31/2008	52	Several trees were reported down along Makatoka Road NW, about 1 mile south of SR 1340.
VARNUM	6/26/2009	52	A large oak tree fell onto a house in the community of Lockwood Folly Country Club.
BISHOP	12/2/2009	50	A large tree fell onto a power line near the intersection of Maco Road and Hunters Ridge Drive.
SHALLOTTE	1/25/2010	52	A large gas station canopy was blown off. Minor damage to a home including damage to a screened in porch, shutters and a mailbox. A large trampoline was carried by the wind causing damage to a few vehicles. Six trees were reported down. Time was estimated based on radar.
SEASIDE	8/6/2010	56	A hand held anemometer measured a wind gust to 64 mph.
GORES LNDG	9/30/2010	56	Trees were reported down.
LONG BEACH	9/30/2010	62	Ocean Crest Pier, a CORMP station, measured a wind gust to 62 knots.
MACO	9/30/2010	50	Trees were reported down.
ASH	4/5/2011	56	A large tree was reportedly down and blocking traffic on Ash Little River Road NW, near Whiteville Road NW.
MILL CREEK	4/5/2011	56	Trees were reportedly down on power lines near the intersection of East Boiling Spring Road and Argonne Road.
NORTH WEST	4/5/2011	61	A wind gust to 70 mph was measured by a trained spotter in the community of Northwest.
HONEY POND	7/24/2011	50	A tree was reportedly down on Longwood Road near the intersection with Hughes-Smith Road.
FREELAND	8/20/2011	56	A National Weather Service Storm Survey Team concluded a microburst with winds to 65 mph downed large limbs and some trees just to the west of Kingtown Road. A couple of the larger trees appeared to be rotted and there were a few shallow rooted 8 to 10-inch diameter ornamental trees uprooted. There was also minor roof damage to about 6 homes and a greenhouse also sustained minor damage. Just to the east of Kingtown Road, a metal canopy attached to a metal building was blown off. Windows were reportedly blown out of a house. The roof of a shed was torn off and blown onto a car. The maximum path width was 0.8 miles. The path length was 334 yards.
MILL CREEK	8/22/2011	50	A tree was blown down onto a mobile home on Sycamore Road.
SOUTHPORT	12/27/2011	59	Wind gust to 68 mph was measured.
BOWEN PT	5/14/2012	50	A large tree was reported down across Mary Sheldon Drive SW.
CAMP BRANCH	7/1/2012	52	A National Weather Service Storm Survey team found several snapped pine trees along Highway 211. The diameter of these trees was up to 12 inches.
CAUSE LNDG	7/1/2012	50	Large limbs were reported down on East 2nd Street.
HOLDEN BEACH	7/1/2012	50	Thunderstorm winds created some flying debris. This debris did cause lacerations to one person. The person was transported to the hospital for evaluation.
LELAND	7/1/2012	52	Several trees and power lines were reported down along Old Mill Road.
SUPPLY	7/1/2012	52	A National Weather Service Storm Survey team found several pine trees snapped near the Lockwood Folly Athletic Complex. The diameter of these trees was up to 12 inches.
SUPPLY	7/1/2012	52	Trees were reported down along and near Southport-Supply Road.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
SUPPLY	7/1/2012	50	Trees were reported down along Stone Chimney Road.
MILL CREEK	10/7/2012	50	Several trees and a power line were reportedly down on East Boiling Spring Road near Pretty Pond. The time was estimated based on radar data.
MILL CREEK	10/7/2012	50	Several trees were reportedly down near the intersection of Daws Creek Road and River Road. The time was estimated based on radar data.
SOUTHPORT	12/26/2012	54	A thunderstorm wind gust to 62 mph was measured. The equipment is mounted on a tower about 45 feet above ground level.
SOUTHPORT	12/26/2012	59	A thunderstorm wind gust to 68 mph was measured. The equipment is mounted on a tower about 45 feet above ground level.
SOUTHPORT	1/31/2013	51	A mesonet site measured a wind gust to 59 mph. The equipment is mounted 45 feet above ground level.
PINEY GROVE	6/3/2013	50	A large tree was reported down across Rosa Trail near the intersection with Old Ocean Highway.
WINNABOW	6/27/2013	50	A tree was reported down. The time was estimated based on radar data.
CAUSE LNDG	4/30/2014	50	A tree reportedly fell on a car. The fire department was dispatched.
COOL RUN	8/16/2014	50	Trees were reported down.
SUPPLY	5/21/2015	56	Several trees were reported down near the intersection of Gilbert Road and Benton Road. The time was estimated based on radar data.
BOLIVIA	7/23/2015	52	A wind gust to 60 mph was measured.
PHOENIX	7/23/2015	52	A metal roof was partially blown off a trailer on John Davis Road NE.
CAMP BRANCH	5/3/2016	50	Large tree limbs were reportedly down on Freeman Road.
EASY HILL	7/19/2016	56	Several trees were reported down along Cottonwood Lane.
PINEY GROVE	7/19/2016	54	Two trees were reportedly down off Midway Road between Boat Lane and Zachary's Path. The time was estimated based on radar data.
RED BUG	2/15/2017	61	A survey conducted by the National Weather Service found evidence of a microburst with winds of 60 to 70 mph, mainly near the Shallotte Fire Training center. The damage occurred over a broad, but short swath. There was damage observed to a large number of vinyl fences in the community near the fire station.
RUSSTOWN	2/15/2017	56	A carport was heavily damaged.
SOUTHPORT	2/15/2017	52	Trees were reported down.
MILL CREEK	6/15/2017	52	Several trees were reported down on George II Highway near the intersection with Martinville Dr. The time was estimated based on radar data.
EASY HILL	4/19/2019	52	Some trees were snapped in Leland.
SECESSION	4/19/2019	56	Some trees were snapped.
CASWELL BEACH	6/20/2019	52	A Wunderground station at Caswell Dunes recorded a 60-mph gust.
ASH	6/22/2019	61	Several large trees down near Ash.
<b>New Hanover County</b>			
WILMINGTON	2/14/2000	54	62 mph thunderstorm gust measured at the National Weather Service ASOS site at the Wilmington Airport.
WRIGHTSVILLE BEACH	4/18/2000	61	Wrightsville Beach fire station measured a 69 mph wind gusts with their wind equipment.
WILMINGTON	8/24/2000	50	An anemometer at the North Carolina State Port measured a 58-mph wind gust that caused significant damage to a crane.
WRIGHTSVILLE BEACH	4/1/2001	77	Wind equipment at Wrightsville Beach measured an 89-mph wind gust.
WILMINGTON	6/7/2001	60	Ogden Fire Dept. reported trees down on Bayshore Drive. A NWS employee drove to the location and observed several trees down. The newspaper reported that 3000 customers were without power due to the storm.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
WILMINGTON ARPT	6/7/2001	62	The ASOS at the Wilmington airport measured a 71-mph wind gust. A NWS employee observed several trees down in the area.
WILMINGTON	5/10/2002	53	Television station reported trees down. A wind gust of 62 mph was recorded at State Port. The strong winds and lightning caused power outages for approximately 4600 residents in the county.
WILMINGTON	6/14/2002	78	National Weather Service storm survey concluded a microburst with estimated 80-90 mph winds caused widespread damage along a path approximately 1/2-mile-long with a maximum width of 50 to 100 yards. Wrightsboro Elementary School sustained three broken windows. Portions of school's metal roof were peeled back or were torn off and blown 50 yards from the building. One trailer was blown off its concrete blocks. Seventeen houses sustained damage along Long Leaf Drive. Damage included shingles blown off roofs, siding torn off houses or significant damage to porches. An 18-inch diameter tree was snapped off about 20 feet above ground level, with numerous other trees uprooted. Fallen trees and limbs damaged power lines and at least 4 cars. No injuries were reported.
WILMINGTON	6/14/2002	65	New Hanover 911 reported that thunderstorm winds caused a building to partially collapse on Front Street. Trees were also reported down.
WILMINGTON	7/20/2002	55	911 dispatch reported a large tree fell on a vehicle.
WRIGHTSVILLE BEACH	11/12/2002	50	Wrightsville Beach police department reported a measured 58 mph wind gust.
WRIGHTSVILLE BEACH	2/4/2003	51	A measured 59 mph wind gust was recorded at the Oceanic Pier in Wrightsville Beach.
WILMINGTON	3/20/2003	51	A measured 58 mph wind gust was recorded at the state port.
WILMINGTON ARPT	5/8/2003	62	The ASOS at the Wilmington Airport measured a 71-mph wind gust.
WILMINGTON	5/31/2003	87	A NWS storm survey concluded a microburst produced estimated 100 mph wind gusts, causing extensive damage to many homes in the Brittany Woods subdivision. Nearly 100 homes sustained at least some damage. The more serious damage occurred to half a dozen homes when their garage doors were blown in, allowing the wind to blow portions of walls and/or roofs away. One home sustained extensive damage when a fence was demolished, with the projectiles blown through the house's walls. A large travel trailer and an RV motor home were overturned, and an SUV and an attached trailer were turned around. The storm continued east southeast, with numerous trees and power lines reported down. The thunderstorm dropped penny to nickel size hail 3 miles northeast of Wilmington and 7 miles north of Wilmington, as well as 3 miles east of Murraysville. More penny size hail was reported in Wrightsville Beach, as the storm finally moved offshore.
MURRAYSVILLE	7/9/2004	55	Pine trees were blown down.
WILMINGTON	3/5/2005	51	A 58-mph wind gust was measured at the Wilmington airport.
MYRTLE GROVE	3/8/2005	77	A NWS Mesonet site measured an 89 mph wind gust.
WILMINGTON	3/8/2005	77	The Wilmington ASOS measured an 89-mph wind gust. A private hangar at the airport was damaged, and a man in Wilmington was injured. In downtown Wilmington, a section of the roof of city hall was damaged, and an historic home, built in 1738, was moderately damaged when a chimney collapsed. The Oceanic pier also measured a 69-mph wind gust.
WILMINGTON	4/3/2006	60	Trees down at Airlie and Military Cutoff Rds.
CASTLE HAYNE	4/17/2006	63	
WRIGHTSVILLE BEACH	6/12/2006	58	A 66-mph wind gust was recorded at the Oceanic restaurant.
WILMINGTON	7/15/2006	51	

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
WILMINGTON	7/15/2006	60	Large tree down in the road near North Kerr Ave. and Gordon Rd.
WILMINGTON	8/8/2006	60	The event began with penny size hail reported at the intersection of Market St. and 27th St. A large tree fell at the corner of Greenville Loop Rd. and Wrightsville Ave. Power lines were down at Carolina Beach Rd. and Shipyard Boulevard.
FERNSIDE	6/22/2008	52	A large tree fell onto a new car on Lullwater Drive. The car reportedly sustained some damage, but no estimate was given.
MURRAYSVILLE	6/22/2008	52	A few oak and pine trees were snapped along Fallen Tree Court. Some of the trees were described as large.
SOUTH WILMINGTON	7/10/2008	50	A swing set was damaged in the Pine Valley neighborhood. A large tree was also uprooted.
WILMINGTON	4/11/2009	52	Large limbs and a few trees down along Orange Street, Rankin Street and Castle Street in downtown Wilmington. One large limb fell on a house causing minor damage.
KIRKLAND	6/27/2009	50	Several trees were snapped along Porters Neck Road. The trees were snapped from one-half to 4 feet off the ground.
WILMINGTON	6/23/2011	65	ASOS equipment at the Wilmington International Airport measured a wind gust to 75 mph. A National Weather Service Storm Survey Team confirmed a microburst with a path length of up to 400 yards northeast of the ASOS. Four tree limbs were broken and one tree was down. A street sign was detached and damaged, blown about 100 yards from where it had been posted.
AIRLEE	6/29/2011	54	A tree was reported down near the intersection of Wrightsville Avenue and Oleander Drive. The time was estimated based on radar data.
HARBOR IS	6/29/2011	50	NOS station on Johnnie Mercer's Pier measured a wind gust to 58 mph.
SEAGATE	6/29/2011	50	A large tree was reported down near the 5600 block of Oleander Drive. The time was estimated based on radar data.
SEAGATE	6/29/2011	50	A tree was reported down along Park Avenue.
SOUTH WILMINGTON	6/29/2011	56	A tree was reported down across Henry H Watters Drive. The time was estimated based on radar data.
SOUTH WILMINGTON	6/29/2011	62	A wind gust to 71 mph was measured about 65 feet above the ground at the North Carolina State Port. A container crane was moved about 150 yards by the wind gust. Six box containers were blown off of their stacks. Two garage doors were also blown in. The damage was likely the result of a microburst.
MURRAYSVILLE	7/21/2011	50	A large pine tree was reportedly uprooted on Sidbury Road.
WILMINGTON	7/1/2012	61	A trained spotter estimated a 60 to 70 mph wind gust.
KURE BEACH	12/26/2012	61	The National Weather Service conducted a survey and concluded a microburst with winds to 70 mph damaged a convenience store located on the corner of Fort Fisher Boulevard and Avenue K. Two large windows were blown out and two large outdoor ice machines were toppled.
WILMINGTON	1/31/2013	50	A large tree was reported down across an unoccupied vehicle on North 10th Street. The fire department was en route.
HARBOR IS	6/30/2013	53	A 61 mph thunderstorm wind gust was measured at Johnny Mercer Pier.
WILMINGTON	6/18/2015	54	A 62 mph thunderstorm wind gust was measured by the ASOS equipment at the Wilmington International Airport.
BAYMEADE	6/18/2015	52	Several large limbs blown down and a large bench swing blown over and damaged.
CASTLE HAYNE	6/18/2015	50	A tree was reportedly snapped in half in a yard on Blue Clay Road.
SEAGATE	6/18/2015	56	A three foot diameter oak tree was toppled onto a house.
FERNSIDE	6/19/2015	56	A portion of metal roofing was blown off a car dealership. The roofing materials then landed on some of the cars in the lot and damaged them. The time was estimated based on radar data.
FERNSIDE	7/23/2015	78	A survey conducted by the National Weather Service concluded a microburst with winds up to 90 mph produced considerable damage in Wilmington, North Carolina.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
			The damage path began on the premises of Colonial Parke Apartments on Hunt Club Road. A two foot diameter tree was uprooted and crashed through the roof and window of a second story apartment causing severe damage. Three other apartments in the complex sustained damage. The damage path continued across Market Street to just northeast of the Market Street and North College Road intersection. Numerous branches from 6 to 10 inches in diameter were broken from trees. A couple stores within a shopping center sustained damage to include ceiling tiles, windows and store merchandise. As the microburst crossed Market Street, it lifted a large rooftop HVAC unit from Bonefish Grill and deposited it 30 yards away. The HVAC unit landed inside a neighboring storage unit facility after breaking down a garage door. Damage continued east along Market Street to just beyond North College Road where a small portion of the roof of Builders First Source was lifted off. Several buildings along the path of this microburst sustained damage ranging from minor shingle loss to partial roof loss. Most of the damage was consistent with 75 to 80 mph wind speeds, however the HVAC damage was consistent with a maximum wind speed of 90 mph. The path length was about eight-tenths of a mile and the maximum path width was 200 yards. There were no reports of injury or death although some people did have to seek safe shelter as the severe winds hit. More than 3000 people were briefly without electricity.
SOUTH WILMINGTON	6/17/2016	50	Isolated tree damage was observed in several neighborhoods on either side of South College Road.
WILMINGTON	7/8/2016	50	KILM ASOS reported a squall with a measured wind gust to 58 mph.
MYRTLE GROVE	2/15/2017	50	A large pine tree was reportedly snapped at the base.
CAROLINA BEACH	5/25/2017	51	Several small amusement rides were blown over. Damage to roofing shingles and signs. The time was estimated based on radar data.
KURE BEACH	5/25/2017	51	A wind gust to 51 knots was measured on Fort Fisher Blvd.
BAYMEADE	7/22/2018	52	An officer reported a large limb down on New Center Dr.
WILMINGTON	7/23/2018	52	Power lines were reported down on Castle St, and 18th St.
WILMINGTON	12/20/2018	52	A tree was blown down on Waltmoor Rd. A power pole was snapped at the corner of Bethel and Amber Rd.
MYRTLE GROVE	6/2/2019	52	Portions of a fence was blown down and flag pole was blown down in the Deer Hill neighborhood.
SEA BREEZE	6/2/2019	52	A large tree fell on a car in the Sea Breeze Community.
SEA BREEZE	6/2/2019	56	A tree was blown down across the road. Fences were also blown down along Hill Valley Walk. The power was out in the area.
EAST WILMINGTON	7/3/2019	52	A large tree was blown down at the 3900 block of Peachtree Ave.
WILMINGTON	9/9/2019	56	There was some minor roof damage to the Wilson Center.
<b>Onslow County</b>			
RICHLANDS	6/22/2000	55	
SNEADS FERRY	12/17/2000		A severe thunderstorm moved across eastern Onslow county blowing down a large oak tree that destroyed a trailer.
CATHERINE LAKE	4/1/2001	56	Thunderstorm wind blew the roof off of a house, destroyed a barn, and knocked a mobile home off its foundation in Catherine Lake.
HUBERT	4/1/2001	61	Estimated wind speeds of 70 mph knocked down numerous power lines and trees in and near Hubert and Stella.
SWANSBORO	8/28/2001	52	
HALF MOON	6/14/2002	61	A mobile home was destroyed when a large pine tree fell in about 70 mph wind.
SNEADS FERRY	7/5/2002	52	
CAMP LEJEUNE	7/10/2002	62	Thunderstorm winds around 70 mph blew down numerous trees on Camp Lejeune, one of which totaled a truck. Flying debris damaged several other vehicles.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
PINEY GREEN	7/10/2002	62	Severe thunderstorm winds ripped the siding off of several homes in Piney Green.
BELGRADE	7/20/2002	52	Numerous trees and power lines down in and around Belgrade.
RICHLANDS	7/20/2002		Falling trees and limbs caused damage to a mobile home in Richlands.
CAMP LEJEUNE	7/31/2002	56	
JACKSONVILLE	8/20/2002	52	
NORTH TOPSAIL BEACH	11/12/2002	52	
SWANSBORO	11/12/2002	54	
JACKSONVILLE	2/22/2003	50	Local media reported trees down along Highway 17.
JACKSONVILLE	7/17/2003	50	Onslow county 911 center reported trees down on Haws Run Road.
HUBERT	7/9/2004	50	Public reported a gazebo blown over.
JACKSONVILLE	7/11/2004	50	Spotter reported trees down near intersection of Highway 24 and Western Boulevard.
RICHLANDS	3/8/2005	50	A line of severe thunderstorms moved through much of North Carolina during the morning and early afternoon hours of March 8th. In general, Eastern North Carolina experienced straight-line wind gusts from 50 to 90 mph. A wind gust of 110 mph was recorded at Kill Devil Hills on the Outer Banks of Dare County where significant structural damage occurred, including the destruction of a communications tower. Sporadic to widespread wind damage occurred across the entire area with numerous trees and power lines down, and minor to significant structural damage. There was one injury in Hyde County when a mobile home was overturned and demolished by the fierce winds.
SWANSBORO	3/8/2005	53	A line of severe thunderstorms moved through much of North Carolina during the morning and early afternoon hours of March 8th. In general, Eastern North Carolina experienced straight-line wind gusts from 50 to 90 mph. A wind gust of 110 mph was recorded at Kill Devil Hills on the Outer Banks of Dare County where significant structural damage occurred, including the destruction of a communications tower. Sporadic to widespread wind damage occurred across the entire area with numerous trees and power lines down, and minor to significant structural damage. There was one injury in Hyde County when a mobile home was overturned and demolished by the fierce winds.
JACKSONVILLE	7/28/2005	50	Large trees down in Deerfield off of Gumbranch Road.
CAMP LEJEUNE	8/23/2005	51	
CAMP LEJEUNE	4/17/2006	52	60 mph wind gust measured near camp gate on Highway 172.
JACKSONVILLE	5/26/2006	50	Power lines down.
RICHLANDS	5/26/2006	60	Trees down on several homes.
SWANSBORO	6/3/2006	50	
HUBERT	7/15/2006	51	
HALF MOON	7/23/2006	51	
GREGORY FORKS	3/4/2008	50	Tree blown down onto power line on Gregory Fork Road.
HUBERT	3/5/2008	50	Strong wind gust ripped siding off a house.
SHELL ROCK LNDG	3/5/2008	68	Person near Hammocks Beach reported a measured wind gust of 78 mph.
ERVINTOWN	4/12/2008	50	Trees blown down near Loise Lane near Richlands.
BELL FORK	6/1/2008	52	Wind gust of 60 mph reported by trained spotter.
CAMP LEJEUNE	6/29/2008	52	Trained Spotter reported wind gust to 60 mph on Gum Branch Road.
CATHERINE LAKE	6/29/2008	50	Strong winds blew a tree down on a car.
FRANKTOWN	6/29/2008	60	Strong winds blew Steeple off a church on Briar Neck Road.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
MORTON FORK	6/13/2009	50	Spotter reported trees blown down south of Belgrade.
HOLLY RIDGE	6/26/2009	50	Trees blown down on Morris Landing Road.
KELLUM	7/17/2009	50	A top of a pine tree reported blown off 3 miles northeast of Jacksonville near Kellum.
ERVINTOWN	8/11/2009	50	Several trees down in Richlands.
ERVINTOWN	5/16/2010	50	Tree blown down along Nine Mile Road near Richlands.
GREGORY FORKS	5/16/2010	50	Tree blown down along Gregory Fork Road west of Richlands.
MIDWAY PARK	6/13/2010	50	Tree blown down over Tallmans Circle in Midway Park.
ERVINTOWN	6/16/2010	63	Spotter measured a 72 mph wind gust in Richlands.
GREGORY FORKS	6/29/2010	50	Four large trees blown down on Goldie Lane.
HALF MOON	6/29/2010	50	Large tree limb blown down on Gum Branch Road.
NORTH TOPSAIL BEACH	7/18/2010	50	Power lines blown down by strong winds.
GREGORY FORKS	4/5/2011	50	Tree blown down on Gregory Fork Road near Richlands.
RICHLANDS	4/5/2011	50	Aluminum shed destroyed by strong winds on Hoffman Forest Road near Richlands.
GREAT NECK LNDG	6/17/2011	50	CoCoRaHS observer reported several trees down along Stella Road and Belgrade Road in Swansboro.
HUBERT	6/23/2011	50	Fire department reported trees down in Hubert.
WALTONS STORE	7/22/2011	50	Tree blown down on Foy Lockamy Road about 3 miles west of Jacksonville.
JCKSNVLL ELLIS ARPT	7/23/2011	50	Tree branch blown down onto a car near Albert J Ellis Airport.
Unincorporated Area	7/24/2011	59	ASOS at New River Air Station observed a 59 knot wind gust.
BELL FORK	7/24/2011	50	Public reported trees down on Pine Valley Road in Jacksonville.
HAWKSIDE	7/24/2011	50	Public reported tree limbs down across yard.
HAWKSIDE	7/24/2011	50	Public reported trees down near the intersection of Indian Drive and Gum Branch Road.
KELLUM	7/24/2011	50	Law enforcement reported trees down on road blocking New Bern highway in Jacksonville.
KELLUMTOWN	7/24/2011	50	Public reported large tree limbs down on Rocky Run Road near Piney Green.
PUMPKIN CENTER	7/24/2011	50	Law enforcement reported a tree down on a vehicle and powerlines across road on Piney Green Road.
GUM BRANCH	5/22/2012	50	Public reported trees down along Rhodestown Road.
Unincorporated Area	7/1/2012	54	New River Marine Corps Air Station (KNCA) observed a 62 mph thunderstorm wind gust.
Unincorporated Area	7/1/2012	50	National Weather Service storm survey found multiple pine trees snapped on Highway 111.
BROCKS	7/1/2012	50	National Weather Service storm survey found damage to a chicken coop on Comfort Road in Richlands.
ERVINTOWN	7/1/2012	50	National Weather Service storm survey found numerous large tree limbs scattered throughout Richlands.
HAWKSIDE	7/1/2012	50	National Weather Service storm survey found trees uprooted on Highway 17 North.
BELL FORK	7/24/2012	50	Public reported large tree limbs down in Jacksonville.
TAR LNDG	1/31/2013	50	Onslow county 911 reported trees down on powerlines near the intersection of Liberty Park Road and Richlands Highway northwest of Jacksonville.

**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
WILLIS LNDG	11/26/2013	55	Strong winds blew down several large trees along Bear Creek Road south of Hubert. One of the trees crushed a small shed.
JARMANTOWN	2/21/2014	50	Trees down on Burney Town Road.
BELL FORK	4/30/2014	52	Strong winds blew down a fence at a skate park in Jacksonville and damaged several skate ramps.
BELL FORK	4/30/2014	52	Trained spotter estimated wind gust of 60 mph on Gum Branch Road.
CATHERINE LAKE	6/5/2014	50	Strong winds blew down a tree near Catherine Lake.
GREGORY FORKS	6/5/2014	50	Strong winds blew down a tree along Catherine Lake Road to the west of Richlands.
SKY MANOR ARPT	6/5/2014	50	Strong winds damaged a metal roof near Haws Run.
BELL FORK	6/18/2015	50	Strong winds blew down a tree along Aragona Boulevard near Jacksonville.
BELL FORK	6/26/2015	50	Strong winds blew down a tree and power line just east of Jacksonville.
KELLUMTOWN	6/27/2015	50	Strong winds blew down a tree onto Jasper Road to the east of Jacksonville.
TAR LNDG	6/27/2015	50	Strong winds blew down a tree near the intersection of Burgaw Highway and Holly Shelter Road to the west of Jacksonville.
ERVINTOWN	7/21/2015	50	Strong winds blew down a tree along Highway 258 in Richlands. A fence was also damaged.
GUM BRANCH	7/21/2015	50	Strong winds blew down a tree blocking Gum Branch Road southeast of Richlands.
GUM BRANCH	7/21/2015	50	Strong winds blew down trees between Richlands and Jacksonville.
ERVINTOWN	5/3/2016	50	Strong winds blew a tree down on Highway 258 near Richlands.
KELLUMTOWN	7/8/2016	50	Strong winds blew down trees onto Highway 24 east of Jacksonville.
HAWKSIDE	7/19/2016	51	Wind gust of 51 knots measured by New River ASOS.
KELLUMTOWN	7/19/2016	50	Strong winds blew down a tree onto Piney Green Road east of Jacksonville.
BELL FORK	7/30/2016	50	Strong winds blew down trees onto Highway 17 near Jacksonville.
KELLUM	7/15/2017	52	Estimated 60 mile per hour wind gusts and nickel size hail were reported in Kellum on Highway 17.
BELGRADE	6/11/2018	50	Large limbs were blown down in various yards along Highway 17, south of the Onslow and Jones County line. The time was estimated based on radar.
PUMPKIN CENTER	6/24/2018	50	Trees were snapped and fell on power lines near the intersection of Piney Green Rd and Country Club Rd. The time was estimated based on radar.
JACKSONVILLE	4/19/2019	50	Shingles were damaged.
HAW	5/12/2019	50	A tree was blown down across Haws Run Rd.
HAW	5/12/2019	50	Numerous trees were blown down near Dawson Cabin Rd. Power lines were blown down as well.
SKY MANOR ARPT	5/12/2019	50	A tree was blown down across William Gurganus Rd.
BELL FORK	8/10/2019	50	Duke Energy reported over 2000 customers without power in the Jacksonville area. The assistant city manager confirmed the media outlets the outages were due to strong winds.
CAMP LEJEUNE	8/10/2019	50	Power lines were blown down. The time was estimated based on radar data.
KELLUMTOWN	8/10/2019	50	A large advertising sign was blown down on Piney Green Rd.
<b>Pender County</b>			
WATHA	2/14/2000	58	68 mph tstm gust measured by skywarn observer.
WATHA	3/16/2000	50	Trained spotter and ham radio operator measured a 58 mph wind gusts on his home weather equipment.
WATHA	4/8/2000	54	SKYWARN observer measured a 62-mph wind gust with home equipment.



**APPENDIX H: NCEI STORM EVENT DATA**

Location	Date	MPH	Description
HAMPSTEAD	5/28/2000	56	Off duty National Weather Service employee estimated wind gusts to 65 mph during a thunderstorm at the Castle Bay golf course near Hampstead.
WILLARD	5/28/2000	60	Pender 911 reported trees down on Hwy 11 in Willard.
MAPLE HILL	8/16/2000	60	Pender county sheriff reported trees down across highway 50.
BURGAW	4/1/2001	65	General public reported a thunderstorm wind that destroyed a shed and blew it across a roadway.
SURF CITY	4/1/2001	69	Wind equipment at the Surf City drawbridge measured an 80-mph wind gust.
WATHA	4/1/2001	51	Trained spotter in Watha reported a measured 59 mph wind gust on his home wind equipment.
ROCKY PT	5/10/2002	61	Emergency manager reported a 6-inch diameter tree was uprooted. The wind was estimated at 70 mph.
BURGAW	6/14/2002	60	Trees down.
SURF CITY	7/5/2002	52	Surf City Bridge measured a 60-mph wind gust.
MAPLE HILL	7/10/2002	60	Public reported trees down.
BURGAW	8/24/2002	60	Sherriff's department reported trees down near Hwy 53.
HAMPSTEAD	11/12/2002	56	NWS employee (off duty) estimated a 65-mph wind gust at his residence. The strong winds blew a tree down onto a car.
SURF CITY	11/12/2002	59	Surf City bridge reported a measured 68 mph wind gust.
BURGAW	2/22/2003	55	Public reported large limbs down and a flag pole snapped.
SCOTTS HILL	5/31/2003	65	The fire department reported thunderstorm winds flipped a boat off its trailer and shingles were blown off roofs.
WILLARD	7/11/2003	60	Pender county electric company reported trees down in Willard. A large tree was also reported down in Watha.
HAMPSTEAD	9/22/2003	70	Strong winds blew eight trees down on Lee Drive, Factory Road, and Second Street.
SURF CITY	7/11/2004	65	The Pender county sheriff reported trees down across Hwy 50 between Holly Ridge and Surf City.
ROCKY PT	8/5/2004	55	A utility company reported trees down on power lines.
BURGAW	3/8/2005	52	A coop observer reported an estimated 60 mph.
SURF CITY	3/8/2005	63	A 72-mph measured gust was recorded at the Surf City bridge.
ATKINSON	4/17/2006	65	Several large trees were blown down at Wards Corner.
ATKINSON	7/15/2006	65	A large tree was down on on SR 53, with numerous trees and limbs down across town. A church sign and power lines were also blown down.
ASHTON	3/15/2008	83	Numerous pine trees were blown down or snapped along a path about 100 yards wide and 300 yards long. Five mobile homes were damaged by downed trees in the Interstate Mobile Home Park and adjacent Cedar Grove Mobile Home Park. Two of these homes were knocked off of their foundations and sustained major damage. A National Weather Service Storm Survey concluded the damage was the result of straight-line winds between 90 and 95 mph. Pender County officials estimated all storm related damage totaled \$2 million dollars.
ATKINSON	6/29/2008	50	A large tree was reportedly snapped by the wind.
WATHA	6/29/2008	50	Trees were reported down across Shiloh Road. The report was relayed by the fire department.
PINEY WOOD	5/4/2009	52	Large tree branches were down. The branches were up to six inches in diameter. A chainsaw was required to remove them.
WILLARD	7/28/2009	52	A large tree was reported blocking Old Mill Road.
HIGHSMITH	12/2/2009	52	A spotter estimated a wind gust to 60 to 70 mph near the intersection of Stone House Road and State Road 1402.
MONTAGUE	6/16/2010	50	Several large tree limbs were reported down. The tree limbs had diameters of 4 to 6 inches. The public estimated a wind gust to 60 mph. Time was estimated based on radar data.

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Location	Date	MPH	Description
PINEY WOOD	6/25/2010	50	One large tree was reported down along Tuckahoe Road. Time was estimated based on radar data.
BURGAW	8/12/2010	50	A large tree was reported down on North Wright Street. The time of occurrence was estimated based on radar data.
HAMPSTEAD	4/5/2011	56	A large tree was reportedly down near the intersection of Center Drive and Thornton Drive. The time was estimated based on radar data.
HIGHSMITH	4/5/2011	56	Trees were reportedly down near the intersection of Highsmith Road and Scott Road.
LONG CREEK	6/23/2011	50	Large limbs were reported down.
SURF CITY	6/29/2011	55	A weather station at the Surf City Tourism and Information Center on Shore Drive measured a wind gust of 63 mph.
STAG PARK	8/12/2011	61	A National Weather Service Storm Survey Team concluded a microburst with winds to 70 mph downed numerous trees. The tops of some of the trees were twisted. Power lines were also reported down. The damage occurred along Stag Park Road and extended for a little over one mile.
SURF CITY	3/25/2012	50	Shingles were reportedly blown off a cafe roof and 150 feet of canopy was ripped by the winds. The time was estimated based on radar data.
NEW TOPSAIL BEACH	12/26/2012	51	A thunderstorm wind gust to 59 mph was measured.
BELLS XRDS	6/13/2013	52	A large tree was reported across Scott Road near the Long Creek Grady Fire Department. The time was estimated based on radar data.
PENDERLEA	6/13/2013	52	A tree was reported down on a power line at the intersection of Highway 11 and Red Tip Lane. The time was estimated based on radar data.
BURGAW	11/27/2013	56	A small metal storage building was picked up and wrapped around a utility pole near Stag Park Road and Jewell Lane.
BURGAW	11/27/2013	50	A small utility trailer was rolled over in a yard on Stag Park Road. Numerous limbs were reported down.
BURGAW	11/27/2013	56	The covered front porch was blown off a home on Stag Park Road and into the rear of the property. A third of the metal roof peeled off the home. Two large trees were also snapped about 30 feet off the ground.
BURGAW	11/27/2013	56	The covered front porch was blown off a home on Stag Park Road. A large tree was snapped approximately 10 feet above the ground.
WHITE STOCKING	11/27/2013	50	A large pine tree was blown down across White Stocking Road. The tree was removed by the Department of Transportation.
BURGAW	2/21/2014	50	Five trees were reported down near the intersection of Penderlea Highway and Basden Road. The time was estimated based on radar data.
CURRIE	2/21/2014	52	An open-air canopy roof was reportedly ripped off a building at Blueberry Road and Highway 210. The time was estimated based on radar data.
BURGAW	7/15/2014	52	Media relayed a viewer report of a tree down on a house on Phedora Spur. There were no details as to any structural damage. The time was estimated based on radar data.
MALPASS CORNER	8/18/2014	52	Two trees were reported down near and along Highway 421 just south of Malpass Corner. Hail of unknown size was also reported.
NEW TOPSAIL BEACH	8/18/2014	52	A 60-mph wind gust was measured at Topsail Beach marker 3.
NEW TOPSAIL BEACH	8/18/2014	59	A wind gust to 68 mph was measured at the Topsail Beach Fire Department.
PENDERLEA	8/22/2014	50	Several trees and tree limbs were knocked down and one large tree was uprooted along Shiloh Road and Lake Road. Some trees fell onto power lines. A large field of corn was also blown down.
STAG PARK	6/18/2015	52	A tree was reportedly snapped on Stag Park Road near Jordans Church.

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Location	Date	MPH	Description
HAMPSTEAD	7/13/2015	50	Two pine trees were reportedly down on roadway near 3000 block of Highway 210. The time was estimated based on radar data.
ROCKY PT	7/23/2015	52	A large tree was reported down across the westbound lane of Interstate 40 near exit 408. Traffic was reportedly backed up. The time was estimated based on radar data.
PENDERLEA	8/6/2015	50	A tree was reported down on Indian Hill Road, approximately 1 mile from Highway 421.
SCOTTS HILL	7/14/2016	50	One tree and tree limbs were reported down in Plantation Landing.
BELLS XRDS	7/31/2016	51	A large tree was reportedly down on Highway 133 near Forest Lane. The time was estimated based on radar data.
CURRIE	7/31/2016	56	A tree was reported down on a house on Blueberry Road and caused unspecified structural damage. Other trees were also reported down along Blueberry Road. The report was relayed through the media. The time was estimated by radar data.
MONTAGUE	7/31/2016	56	Several trees and tree limbs along a short stretch of Richard Switch Road were reportedly down. The time was estimated based on radar data.
MALPASS CORNER	5/5/2017	52	A large tree was reported down along Highway 53 near Pender High School.
PENDERLEA	5/29/2017	52	Two houses reportedly sustained partial roof damage as did a couple out-houses. Trees were reported down. The damage occurred in the 5000 block of Englishtown Rd. The Pender County Emergency Manager determined the damage was the result of straight-line thunderstorm winds. The time was estimated based on radar data.
WOODSIDE	7/6/2017	50	Trees were reportedly down, a flag pole was snapped and outdoor furniture was blown around on one property on Pinnacle Pkwy.
LONG CREEK	7/8/2017	54	Half the roof of a barn was reportedly blown off on Montague Rd. Several trees on the property were reported split or down. One tree was uprooted. Small hail was also reported. Radar data was used to confirm the time of the event.
MALPASS CORNER	7/8/2017	50	A couple of trees were reported down on Herrings Chapel Rd.
BURGAW	5/12/2019	56	The public reported trees down with damage to power lines in Burgaw.
BURGAW	5/12/2019	56	There were multiple metal roofs blown off which led to power line damage. Large industrial sized drain pipes were also blown across Wallace Street in Burgaw.
ST HELENA	8/10/2019	56	Trees were blown down across Newroad Ave, north of Rocky Point.
STAG PARK	8/10/2019	56	Power lines were blown down on Stag Park Rd.

**TABLE H.11: TORNADO EVENTS (2000-2019)**

Location	Date	Scale	Description
<b>Brunswick County</b>			
SHALLOTTE	9/11/2001	F0	A waterspout moved ashore just east of the Ocean Isle Beach fishing pier. According to eyewitness accounts from a police detective, the tornado moved northwest through undeveloped property across First and Third streets, then into the marsh on the north side of the island. No damage was reported.
SHALLOTTE	7/24/2002	F0	A waterspout formed in the Shallotte River and briefly moved over land before dissipating. The F0 tornado crossed Gray Bridge Road. There was no damage reported.
LONG BEACH	9/10/2004	F0	Ham radio operator relayed a report of a tornado just southwest of St James Plantation. No damage was reported.
SOUTHPORT	9/10/2004	F0	Deputy sheriff reported two nearly stationary tornadoes. No damage was noted.
REGAN	4/6/2009	EF1	A National Weather Service Storm Survey concluded that an EF-1 tornado with winds up to 105 mph occurred near Longwood, North Carolina. The tornado initially touched down near Etheridge Road NW and State Route 1300. The tornado produced EF-0 damage in this location with two homes suffering minor damage. A small hog pen was

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			destroyed near the two homes and six trees were snapped. Spotty damage was observed to trees as the tornado moved east-northeast across State Route 1300. The tornado peaked at EF-1 with significant damage to over forty trees north of the intersection of Ward Road NW and Etheridge Road NW. It turned to the northeast causing spotty EF-0 damage at the north end of Freedom Star Road. It then crossed Highway 904 and Butler Pond before reaching Butler Circle NW where six trees and a shed were damaged. The tornado lifted before reaching Russtown Road NW. There were no injuries or fatalities.
EAST ARCADIA	6/7/2013	EF0	A National Weather Service Storm Survey Team concluded an EF0 tornado with winds to 70 mph caused damage just to the west of Varnamtown. A tornado touched down just to the south of Varnamtown Road SW near the intersection with Stone Chimney Road SW. The damage was just to the east of the church located there. The tornado crossed Varnamtown Road SW from south to north and caused most of the damage on the north side of the road. Numerous trees were snapped. Large limbs were also down. Some of these limbs fell onto a large storage building causing damage. The tornado quickly lifted behind the homes on the north side of the road.
HOLDEN BEACH	9/22/2013	EF0	A brief tornado, with winds up to 65 mph, touched down near Lafayette Street north of Holden Beach Road SW. The tornado uprooted a tree and knocked down large limbs before crossing McLamb Avenue SW. Snapped trees fell onto a home on the east side of the road. On the west side of the road, a screened in porch was lifted from its foundation and two pump houses were thrown into a home. The tornado proceeded across Lakesedge Drive SW where it knocked down a couple trees and lifted over a pond on the north side of the road.
MALMO	6/27/2015	EF0	A survey was conducted by the National Weather Service and found no apparent damage. However, a video taken by someone in the area at the time did confirm the brief touchdown. The tornado touched down just off of U.S. Highway 74 near Sandy Creek. The tornado caused minor roof damage and moved a farm tractor a few feet. A large tree fell and broke a fence. The tornado was rated EF-0 with winds up to 70 mph. The path length was 50 yards.
REGAN	2/15/2017	EF1	A survey conducted by the National Weather Service concluded an EF-1 tornado first touched down along a hunting trail south of Pireway Rd NW, causing tree damage west of Longwood, North Carolina. The tornado tracked east across inaccessible portions of forest before emerging near the intersection of Etheridge Rd and Ash-Little River Rd NW where it snapped trees and caused significant roof damage to a home. The tornado snapped dozens of pine trees on the north side of Etheridge Rd. The tornado crossed Etheridge Rd near Gwynn Rd NW and toppled dozens of pine trees and a poorly constructed barn between Gwynn Rd NW and Ward Rd NW. As the tornado continued to move east, it caused damage to vehicles near Ward Rd NW and Quaker Dr NW along with minor roof damage to the first home on Quaker Dr NW. The tornado then lifted south of Etheridge Rd between Ward Rd NW and Cephus Trail NW. The tornado had estimated maximum winds of 90 mph and was on the ground for about 5 minutes.
SUPPLY	10/23/2017	EF0	A survey team from the National Weather Service discovered tree damage in a very rural portion of Brunswick County. The damage observed was along Makatoka Rd where a few large trees around a foot in diameter were snapped and a few larger limbs were knocked out of tree tops. The damage was determined to be due to an EF-0 tornado with winds up to 65 mph. The tornado had a path length of just over a third of a mile and a maximum path width of 50 yards. The tornado was on the ground for less than 2 minutes.
WINNABOW	9/16/2018	EF0	A tornado touched down briefly on the north side of Governors Road and moved northwest for about a tenth of a mile. About a dozen small pine trees were broken off.

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SEASIDE	9/5/2019	EF2	Video shared on social media showed the tornado moving onshore near Tubbs Inlet. The tornado moved northwest causing moderate tree damage and minor roof damage as it crossed Sunset Blvd N near Sunset Beach Town Hall. Spotty tree and roof damage continued as the tornado crossed Sea Trail Golf Resort and moved into a large wooded area north of Old Georgetown Road SW (Hwy 179). To this point along the path, damage was consistent with wind speeds in the 80-90 mph range (EF-0/EF-1). The tornado emerged near Bennett Trail SW at the intersection of Thomasboro Road, and caused major roof damage to a few homes and a horse barn. Large sections of roofs were blown off, and numerous large trees were snapped as the tornado approached The Farms at Brunswick community. In this area, the tornado strengthened to EF-2 with a width of approximately 200 yards. Damage in The Farms was extensive. Several dozen homes received minor to major damage along Carolina Farms Blvd, Slippery Rock Way, Fence Post Lane and Castle Run Lane. The tornado reached maximum intensity as it crossed Slippery Rock Way near Fence Post Lane, where large sections of roofs were blown off. There were several instances of lumber piercing both exterior and interior walls of houses. The only known injury, a broken arm, was sustained in this area. The tornado exited The Farms at Brunswick and crossed Highway 17 just south of the intersection of Hickman Road (Hwy 57). Two open air carports and a metal garage were destroyed on the north side of Highway 17. It crossed the holes 14-16 of Crow Creek Golf Club, snapping numerous large pine trees and causing minor roof damage to homes along Honey Tree Lane. The tornado crossed Hickman Road behind Beulah Baptist Church, traversed the north end of Green Pastures Lane, and snapped numerous large hardwood and pine trees throughout private game land. It caused minor damage to a farmhouse and destroyed a chicken coop before crossing Ash Little River Road NW. Numerous trees were snapped and uprooted on the west side of Ash Little River Road NW as the tornado moved into swampland near the Waccamaw River. Damage along and north of Hickman Road was consistent with maximum winds of 90-100 mph winds (EF-1).
SOUTHPORT	9/5/2019	EF0	The tornado touched down briefly on the Military Ocean Terminal Sunny Point complex. Approximately one dozen pine trees up to 12 inches in diameter were snapped on either side of MOTSP Access Road.
SUPPLY	9/5/2019	EF1	Initial damage was observed from the end of Middle River Road NE, where about a dozen trees up to 14 inches in diameter were snapped, along with a few smaller hardwoods. From this point, the tornado tracked over rural and inaccessible swamp land towards Highway 211. On the east side of 211, approximately 50 large pine trees were snapped in an area about 50 yards wide. Several trees fell across Highway 211, and a few additional smaller trees were snapped on the west side. Little significant damage was observed west of 211.
<b>New Hanover County</b>			
KIRKLAND	5/11/2008	EF0	A tornado moved across a small marsh island, just north of Bridge Road, before moving offshore as a waterspout. The public reported seeing the rotation extend to the surface as it passed across the uninhabited island. There was reportedly no discernible damage. The tornado was rated an EF0. The path length was estimated at 0.2 miles and the maximum path width was estimated at 10 yards.
CAROLINA BEACH	8/18/2011	EF0	A National Weather Service Storm Survey Team concluded a waterspout came ashore as an EF-0 tornado with winds to 65 mph. The tornado had a path length of one-third of a mile and a maximum path width of 20 yards. The waterspout was moving to the southwest, parallel to the northern portions of Carolina Beach. It eventually moved onto the coast just southeast of the Marriott Hotel at the north end of Carolina Beach Avenue South. The tornado crossed over the dunes and destroyed a wooden dune bridge structure. The tornado crossed near the intersection of Woody Hewett Avenue and Atlanta Avenue causing minor damage to a light pole at a car wash. The tornado

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			tossed patio furniture and umbrellas into the air prior to crossing South Lake Park Boulevard. Video showed that the tornado moved across Carolina Beach Lake and then quickly lifted near the lake's southern shoreline.
WRIGHTSBORO	12/24/2014	EF1	A National Weather Service Storm Survey Team concluded an EF-1 tornado with winds estimated to 105 mph briefly touched down in Castle Hayne, North Carolina. The tornado destroyed a large shed, damaged a house, moved a box car type storage structure and damaged some trees. One person was injured due to flying glass. The damage was mainly confined to one property on Gladiolus Road. The tornado lifted as it neared I-140 and there was no evidence of any further touchdowns. The path length was 360 yards and the maximum path width was 25 yards.
BAYMEADE	5/5/2016	EF1	A survey conducted by the National Weather Service concluded at EF-1 tornado with winds up to 95 mph injured one and caused extensive damage, intermittently touching down as it moved through several communities. The tornado initially touched down in the community of Landfall near Arboretum Drive and Fair Lakes Drive. Extensive damage was done to about 30 stately trees along Fair Lakes Drive, Marshland Drive, Inverary Way and Dundee Lakes Place. A few trees up to two feet in diameter were snapped off and numerous trees were uprooted. Several large limbs were blown out of trees and caused damage to one home on Dundee Lakes Place where windows were also blown out. A vehicle weighing more than 4000 pounds with two passengers inside was traveling on Fair Lakes Drive. The tornado lifted the car from the street and deposited it at an angle on the grass a few feet away. The vehicle did sustain damage, but the occupants were not injured. The tornado crossed Howe Creek and produced significant damage to approximately two dozen large trees in the Timber Creek neighborhood. Falling limbs resulted in one injury on Tree Lake Court. The tops of several trees were snapped off and many were uprooted. Minor shingle and fascia damage were noted to one home as well. The tornado then crossed Middle Sound Loop Road and caused extensive damage to numerous trees and several homes on Wellington Drive and East Bedford Road. Dozens of trees up to two feet in diameter were uprooted or snapped. A large snapped pine tree fell through the roof of a home on East Bedford Road. The funnel lifted for the last time near the intersection of Middle Sound Loop Road and Buckeye Drive. The tornado had a path length of 1.8 miles and a maximum path width of 75 yards.
BAYMEADE	9/15/2018	EF0	A brief tornado touched down on the south side of Biscayne Drive at Pages Creek. The tornado moved NW for about 2 minutes and snapped a couple dozen trees up to 14 in diameter, uprooted several large trees, and caused significant roof damage to a home on Biscayne Drive. The tornado lifted near the intersection of Bayshore Drive and Biscayne Drive. It touched down again briefly on the west side of Market Street (US-17) near the intersection of Yvonne Road and Jacqueline Drive. In a wooded area near the Cedarbrook Arabians horse training facility, several pine trees up to 14 in diameter were snapped or uprooted on both sides of Yvonne Drive.
EAST WILMINGTON	9/15/2018	EF1	A tornado touched down near the intersection of Floral Parkway and Park Avenue, causing minor tree damage as it moved quickly northwest. Damage became more severe as it passed east and north of Empie Park, where a few pine trees up to 18 inches in diameter were snapped, and numerous large limbs broken. A nearly continuous path of tree damage was observed as the tornado continued northwest across the Forest Hills community and 23rd Street between Market Street and Princess Place Drive. This area also received significant tree damage during the landfall of Hurricane Florence, however the path of the tornado was discernible by observing damage limited primarily to broken and twisted limbs amongst tree tops. The heavy damage to large oak trees in Forest Hills and on 23rd Street was apparently a result of the hurricane, and not the tornado. The tornado moved northwest, crossing Princess Place Drive and snapping several trees up to 10 inches in diameter, along with

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			numerous limbs along 21st Street and the intersection with Klein Road. The tornado broke large limbs from a few trees along Wynnwood Street in the Love Grove community before lifting.
KIRKLAND	9/15/2018	EF0	A brief tornado touched down on the north side of Porters Neck Road between Porters Neck Road and Tibbys Drive. The tornado moved NW for less than 2 minutes and snapped a couple dozen trees up to 16 in diameter and uprooted a few large trees.
MURRAYSVILLE	9/15/2018	EF1	An EF-1 tornado impacted the Brittany Lakes area of Murrayville near  Wilmington NC. Maximum winds were estimated at 95 mph. The tornado initially formed near Dove Field Ct and Brittany Lakes Rd. It moved into a wooded area causing dozens of trees to snap or become uprooted. Several of the trees were down onto a few homes on the north side of Brittany Lakes Rd. The tornado moved toward the west-northwest, passing just south of the west end of Quail Woods Rd. The tornado caused additional tree damage just north of Creek Ridge Rd and lifted near Brittany Rd.
MYRTLE GROVE	9/15/2018	EF1	A tornado touched down in the Elliot Place neighborhood on River Vista Drive, snapping approximately 15-20 hardwood trees up to 18 in diameter. The tornado moved northwest and across the Cape Fear River. It caused minor tree damage, breaking out a few limbs as it lifted near NC 133 in the vicinity of Pleasant Oaks Plantation Road.
SOUTH WILMINGTON	9/16/2018	EF0	An EF-0 tornado, with winds estimated at 75 mph touched down along Split Rail Dr. Several large limbs were torn from the tops of about a dozen pine trees, some falling onto a pickup truck.
WRIGHTSBORO	9/16/2018	EF0	A tornado touched down briefly along Blue Clay Road north of I-140 and west of North College Road. Several hardwood trees up to ten inches in diameter were snapped off approximately 15 feet off the ground.
MASONBORO	12/20/2018	EF0	A tornado formed just west of Sutton Dr. along Waltmoor Rd in the Oxford place area of Wilmington. The tornado moved northwest between Waltmoor Rd  and Archer Dr. The tornado lifted just prior to reaching Pinecliff Dr. It primarily caused damage to numerous trees and knocked down several fences. However, the tornado uprooted trees onto at least three homes along Waltmoor Rd and onto a minivan on Archer Dr. In addition, the tornado flipped over a large wooden shed and knocked a small boat onto its side.
WILMINGTON	9/5/2019	EF0	A short-lived tornado impacted the Brookfield Community near  Gordon Rd in the Wilmington area. The tornado formed just south of Stones Edge Loop causing some damage to trees. The tornado moved  across Northbrook Rd and knocked large limbs down. It also caused  the walls to buckle at a home along Northbrook Rd., destroyed a  nearby shed, and knocked several large limbs out of a large tree.  The tornado moved northwest causing damage to an old shed on the  south side of Briercrest Dr. The tornado then crossed Briercrest  Dr. causing minor damage to a home and knocking large limbs out of trees. The tornado lifted in the vicinity of Gordon Rd. east of  North Kerr Ave.
EAST WILMINGTON	9/5/2019	EF0	A weak tornado with winds generally 55 to 65 mph caused mainly minor tree damage from near Wrightsville Ave around Eisenhower Rd into the Burnt Mill Creek area. The weak tornado quickly moved  toward the northwest and completely lifted near the west end of  Klein Rd.
KIRKLAND	9/5/2019	EF1	A waterspout moved ashore over the northern end of Figure Eight Island, causing EF0 damage to a couple beachfront homes and trees. The tornado track was evident across the marsh towards the Intracoastal Waterway, where it affected Bald Eagle Ln. At the Bald Eagle Ln area there was one injury, numerous trees snapped and uprooted, along with mostly minor home damage. The tornado moved northwest towards Fazio Dr where it created its widest damage, including some roof damage and large trees snapped near the Porter's Neck golf course. The tornado continued to move northwest

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			to Futch Creek Rd and Plantation Landing Dr where it lifted after producing EF0 damage, mainly to trees.
MYRTLE GROVE	9/5/2019	EF0	A tornado initially impacted the SE Harbor Dr area with large limbs down. The tornado moved west-northwest breaking numerous large limbs. It crossed Myrtle Grove Rd breaking large limbs and uprooting a few trees up to 3 feet diameter. Shingles were also blown off a shed in this area. The tornado lifted on the north side of Grove Point Rd.
<b>Onslow County</b>			
RICHLANDS	3/16/2000	F0	An F0 tornado briefly touched down near the town of Richlands destroying one mobile home.
CATHERINE LAKE	5/21/2000	F0	A tornado touched down in western Onslow county near Ellis Airport and tracked northeast through the woods for 1 mile. The tornado was tracked by a trained spotter until it dissipated.
JACKSONVILLE	2/22/2003	F0	Public report of brief tornado touchdown with minor damage reported at Chico's Used Tire Store on highway 24.
HALF MOON	7/2/2003	F0	Public report of brief tornado touchdown in an open field.
JACKSONVILLE	7/2/2003	F1	Onslow County Emergency Management reported tornado damage to ten homes in the Angola area near the intersection of Highway 53 and Gurganus Road in southwest Onslow county.
RICHLANDS	7/2/2003	F0	Media reported a brief tornado touch down on Highway 258.
SWANSBORO	6/22/2004	F0	Weak tornado moved across a neighborhood in Swansboro taking some siding off a house.
RICHLANDS	8/13/2004	F0	Emergency Manager reported a brief tornado touchdown damaging a home in Richlands.
JACKSONVILLE	8/14/2004	F0	Emergency Manager reported minor structural damage at the Beachman Apartments south of Highway 17.
JACKSONVILLE	4/17/2006	F0	Tornado briefly touched down and moved southeast across New River affecting boaters.
JACKSONVILLE	7/23/2006	F0	Brief tornado over New River.
SNEADS FERRY	8/31/2006	F0	Spotter reported tornado.
BELGRADE	5/11/2008	EF2	Tornado touched down near Belgrade and moved east into southern Jones county about 1 mile southeast of Belgrade. The tornado had a path length of around 5 miles and was rated as an EF2. Several homes received moderate to severe damage with 6 minor injuries reported. Several outbuildings were destroyed and numerous trees were sheared off.
MORTON FORK	5/11/2008	EF0	Brief tornado touchdown reported by several people south of Belgrade. No damage was reported and was rated as an EF0.
ONslow BEACH	9/25/2008	EF0	Public reported brief tornado touch down near Onslow Beach. No damage was reported.
MIDWAY PARK	5/7/2009	EF0	Brief tornado touchdown near Camp Lejeune main gate. No damage reported.
MIDWAY PARK	4/16/2011	EF3	Tornado spun up near Tarawa Terrace and quickly increased to EF2 intensity with winds to 125 mph and a damage width of 100 yards. Many residences were damaged severely. The tornado continued to track northeast and crossed Highway 24 and the Holiday City Subdivision at EF2 intensity with many homes severely damaged. The tornado widened to about 450 yards as it crossed the Colonial Heights Subdivision with winds around 100 mph. The tornado narrowed to about 100 yards and increased to EF3 intensity with winds to 145 mph as it crossed Piney Green Road and impacted the Montclair Subdivision. Severe damage to many homes with some totally destroyed. Several vehicles were picked up and tossed. The tornado then appeared to weaken and lift as it moved northeast of Piney Green. Total damage was estimated at 9.4 million



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			dollars. There were 30 injuries directly related to the tornado, 3 critical. No fatalities occurred.
CAMP LEJEUNE	6/10/2013	EF1	A National Weather Service storm survey found evidence of an EF1 tornado with winds estimated at 80 to 90 mph touched down north of Jacksonville. The tornado touched down near the intersection on Springwood Drive and Terry Lee Lanier Drive. The tornado produced sporadic damage for about 1/2 mile before lifting. Minor structural damage to a few homes was observed with several trees blown down or snapped. There were no injuries.
WILLIS LNDG	9/15/2018	EF1	A tornado touched down in Camp Lejeune. Maximum winds were estimated at around 90 mph. The damage path started along Highway 172, south of Lyman Road. Most of the damage was confined to about 10 to 15 snapped pine trees with a few uprooted pine trees. Most of this damage was oriented toward the southwest or west. However, a small building that was open toward the west, had damage inside the building pointed toward the southeast or in the opposite direction of the storm motion. We were not able to examine the total path, but more damage was found to the northwest of the initial point crossing Lyman Road. The time was based on radar data.
<b>Pender County</b>			
ROCKY PT	3/16/2000	F0	Initial damage began 2 miles north of Rocky Pt., off Ashton Rd, damaging a car and a fence. Tornado proceeded east to Kellyville Road, moderately damaging the roof and carport of a house. During a damage assessment, an NWS employee notice that part of the house was lifted off its foundation.
CURRIE	4/25/2000	F0	Roof of a hangar at a small airstrip was blown approx. 350 feet. Some damage was reported to an airplane inside the hangar.
BURGAW	4/28/2000	F0	A small tornado tracked about a mile across western and northern Burgaw, touching down just south of the prison at the State Highway barn, at Old Savannah Road, and at Ed Cowan Road, snapping trees and damaging 4 buildings on two residential properties.
MAPLE HILL	4/1/2001	F0	NWS surveyed damage to a turkey farm in Maple Hill. One building sustained significant damage, with debris consisting of broken timbers, sheets of tin, and various feeding equipment, spread over an area that was approximately 100 yards wide and a quarter mile long.
WATHA	5/27/2003	F0	A NWS storm survey determined an F0 tornado touched down 4 miles west of the town of Watha. It snapped 12-15 pine trees up to 18 inches in diameter. One tree hit the side of a house, with minor damage. The tornado complete destroyed a shed in this area. Moving southeast, the tornado snapped six small pine trees, and a wood fence was blown over. More damaged was observed east-southeast of the previous damage, where a barn roof was blown off, and debris was strewn east approximately 100 yards. The minimal tornado then turned on a more east-northeast path, with damage observed east of Watha. Two large trees were uprooted, and a brick chimney was toppled. Eyewitness accounts reported strong rotation in the clouds, just off the ground. The damage path ended 3.5 miles east of Watha, where a couple dozen pine and hardwood trees were snapped, 10-40 feet above the ground.
ROCKY PT	8/13/2004	F2	The remnants of Tropical Storm Bonnie produced a tornado that touched down just south of Rocky Point and moved northeast, causing F0-F2 damage. Damage (F0) was first observed near West Strawberry Lane, with roof damage to a couple of structures. The tornado crossed I-40, just southeast of Rocky Point. It then tracked across Martin Marietta Access Road, causing f0-f1 tree damage. The tornado intensified to f1-f2 as it moved into a small community along Hwy 210. Significant damage occurred on Clayton Lane, Nixon Avenue, and Pickett Road. The tornado reached peak intensity as it moved across Cart Wheel Road, where several homes were completely leveled. It continued to track northeast, with F1 tree damage. The tornado crossed the Northeast Cape Fear River and finally dissipated near Shaw Highway, approximately one mile

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			north of Hwy 210. The following is a summary of damage from Pender County Emergency Management: 17 homes destroyed, 25 other homes suffered major damage, 34 other homes suffered minor damage, 2 businesses suffered major damage, 1 business suffered minor damage
POINT CASWELL	11/16/2006	F1	Tornado tracked through trees in western Pender County before hitting barns and vehicles along NC Highway 210. A large tractor trailer was overturned and a large shed was destroyed. There was minor roof damage to a home and a large tree was heavily damaged.
HAMPSTEAD	3/15/2008	EF1	A National Weather Service Storm Survey concluded a tornado first touched down about 100 yards southwest of State Route 210. The tornado traveled northeast, across the intersection of Pansy Lane and Peanut Road where several businesses and homes were damaged. The tornado crossed near the intersection of Loblolly Trail and Pinestraw Drive where several homes were damaged and numerous trees were blown down. The tornado then lifted and skipped for another half mile, crossing Old Casteen Road, and then dissipating near Ravinswoods Road. Along its length, the tornado frequently lifted to tree top level and caused tops of trees to snap. There were 15 homes that received minor damage and 3 that sustained moderate damage. There were 10 businesses that sustained minor damage, and 3 that experienced moderate damage. Damage to one business was described as major. There were 5 mobile homes with minor damage and 2 with moderate damage. The maximum path width was 100 yards. The path length was almost 2 miles. The tornado was rated EF1, with winds up to 110 mph. However, for most of its length, the tornado was rated an EF0. Pender County officials estimated total storm damage was \$2 million dollars.
SURF CITY	8/27/2008	EF0	A waterspout briefly came ashore as a tornado before dissipating. The tornado crossed the beach and tossed around some pool furniture at the Surf Condos. There was no significant damage reported.
ATKINSON	4/28/2011	EF1	A National Weather Service Storm Survey Team concluded a tornado touched down two miles southwest of Atkinson, in Pender County North Carolina. The tornado was rated up to an EF1 with maximum winds estimated to 110 mph. The path length was just shy of a third of a mile and the maximum path width was 60 yards. The tornado first touched down as an EF0 near the edge of a field west of Slocum Trail Road with strong inflow noted on its southern flank causing extreme damage to two grain silos and a barn. The damaged silos and barn were blown across the road. The tornado strengthened to an EF1 along a stand of trees west of Slocum Road before weakening as it moved north-northeast across the road and lifting. A few dozen trees were snapped and uprooted along the path of the tornado.
ATKINSON	4/28/2011	EF0	A National Weather Service Storm Survey Team concluded an EF0 tornado touched down near Atkinson in Pender County, North Carolina. The maximum wind speed was estimated to 85 mph. The path length was near six and a half miles and the maximum path width was 50 yards. The tornado first touched down on the west side of Highway 11, south of Atkinson. The tornado damaged two dozen trees and caused minor damage to three homes. The tornado then moved northeast, crossing Highway 11, just south of Atkinson and then across Rooks Road, damaging more trees. The tornado then crossed Highway 53 in a narrow path, east of Atkinson, snapping a few dozen trees. Finally, as the tornado crossed Point Caswell Road, it downed dozens of trees before lifting.
PINEY WOOD	4/28/2011	EF1	A National Weather Service Storm Survey Team concluded a tornado touched down 5 miles west-southwest of Watha in Pender County, North Carolina. The maximum wind speed was estimated to 90 mph. The path length was just over three miles and the maximum path width was 60 yards. The tornado first touched down near the fish hatchery on the south side of Shiloh Road. As the tornado moved across Shiloh Road, it uprooted and snapped several dozen trees. Several large trees fell across houses

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			causing roof damage. Other houses suffered minor roof, soffit and siding damage. The damage was rated EF1 in this area with winds to 90 mph. The tornado continued to the northeast and weakened, but did damage the roof of another house on Shiloh Road. The tornado continued to the northeast, crossing Penderlea Highway where it did substantial damage to a large storage building, uprooted several trees and ripped the top off a grain silo. The tornado finally lifted northeast of Penderlea Highway.
WILLARD	4/28/2011	EF0	A National Weather Service Storm Survey Team concluded an EF0 tornado touched down near Willard in northern Pender County, North Carolina. The maximum wind speed was estimated to 80 mph. The path length was near a quarter of a mile and the maximum path width was 30 yards. The tornado touched down near a turkey farm near Meadow Beauty Road. The tornado slammed into one of the turkey houses causing significant damage and killing several turkeys. The tornado lifted northeast of the turkey farm and prior to reaching a stand of trees.
SURF CITY	7/19/2017	EF0	A storm survey conducted by the National Weather Service confirmed a waterspout moved onshore with tornadic winds up to 70 mph that resulted in minor damage. The EF-0 tornado tossed patio furniture and caused minor damage to wooden patio fencing at one residence on S Shore Dr. The tornado quickly moved across S Shore Dr. and caused minor roof damage to a home at the intersection of Seahorse Ave. and S Shore Dr. The tornado caused more roof damage to a home on the north side of Seahorse Ave. as well as a town house before lifting. There was considerable video evidence of the waterspout and tornado. The path length was less than two tenths of a mile.
ATKINSON	9/15/2018	EF1	A tornado touched down on the east side of Beattys Bridge Road about 0.3 mile southeast of the intersection with Slocum Trail, breaking numerous small limbs out of a few trees in the front yard of a residence. Additionally, the roof of a camper, which was parked in the yard, was blown off. The tornado lifted and touched down again as it crossed over a cemetery at the intersection of Slocum Trail and Beattys Bridge Road. It passed directly over a mobile home which was occupied at the time. The tie down straps broke, and the mobile home briefly lifted a few inches off the ground as the tornado passed over. A shed on the property was destroyed and debris recovered nearly one-quarter mile away. In the woods immediately west of the mobile home, a few dozen hardwood trees up to 16 in diameter were snapped.
HAMPSTEAD	9/15/2018	EF0	Tornado damage was observed in a half mile path starting in the woods southeast of Great Oak Drive in the Deerfield community in Hampstead NC. The EF-0 tornado moved across Great Oak Drive to East Creek View Drive before it lifted over a tidal creek located  northwest of East Creek View Drive. The tornado mainly snapped  trees as it moved quickly toward the northwest. It flipped a boat onto a car along East Creek View Drive and damaged a detached garage. Before the tornado lifted it flipped a boat dock on the tidal creek.
SURF CITY	8/5/2019	EF0	A tornado briefly touched down in the Blackbeard Campground. Two RVs sustained minor damage and two property owners sustained minor injuries.
SCOTTS HILL	8/7/2019	EF0	A storm survey determined an EF-0, with winds of 65 mph touched down just east of Hwy 17 in a wooded area, with minor tree damage.
CLARKS LNDG	9/5/2019	EF1	A tornado formed near Forest Lane, where several large tree branches were broken. The tornado continued off to the northwest, where EF0 damage was also seen at Clarks Landing Loop Rd due to several snapped trees near a field. Low-end EF1 damage was then observed on Long Creek Loop Rd where softwood trees were snapped. The tornado continued off to the northwest where damage was limited to broken tree limbs, before lifting near Herrings Chapel Rd and Mulberry Ln.
SCOTTS HILL	9/5/2019	EF0	A tornado formed near Scott's Hill Animal Hospital and moved west-northwest across Highway 17. The tornado caused some structural damage to Scott's Hill Market and some minor damage to homes primarily along the west side of Pandy Ann Ln. There

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			were several trees uprooted along the road. The tornado lifted as it entered the woods near the end of Pandey Ann Ln.
WALKERS STORE	9/5/2019	EFO	Tornado formed along Shaw Highway NE of Rocky Point. The tornado crossed the NE Cape Fear River and caused minor tree damage along New Rd. The tornado moved NW causing minor roof damage and some snapped trees along Highway 117 in the St. Helena area. The tornado approached the southside of Burgaw causing tree damage on Worth Beverage Dr. Additional tree damage was found up to West Clark St. The tornado lifted near Pender Memorial Park.
WHITE STOCKING	9/5/2019	EFO	A tornado was likely already occurring as it moved into the old Maple Hill Rd area south of Highway 53 causing trees to be snapped. Prior to this time, it was likely over the Holly Shelter swamp area which was inaccessible during our damage survey. The tornado moved WNW, crossing Shaw Highway near Old Blakes Bridge Rd. causing some minor tree damage. The tornado then crossed Highway 53 causing additional tree damage. The tornado finally lifted near Croombsbridge Rd north of Highway 53 in the Shelter Neck area.

**TABLE H.12: WINTER STORM EVENTS (2000-2019)**

Date	Description
<b>Brunswick County</b>	
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about two tenths of an inch, and sleet accumulations along the coast were about a half inch. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about two tenths on an inch, and sleet accumulations in the county ranged from a half inch to nearly an inch. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.
2/11/2014	Freezing rain began falling the morning of February 11th, with around a quarter inch of ice accumulation reported at Sunset Beach. Driving was treacherous, with numerous power outages reported.
2/11/2014	Freezing rain began falling the morning of February 11th, with around a quarter inch of ice accumulation reported by late that afternoon. Driving was treacherous, with numerous power outages reported. Some residents stayed overnight at emergency shelters.
1/3/2018	Snow began falling by afternoon on Jan 3rd. Two inches of snow had fallen by 9 pm, and the totals for the event ranged from one half inch to four inches with most of the snow falling on the northeast portion of the county. The low pressure responsible for the winter weather bombed off the east coast, dropping 24 millibars in twenty-four hours. Record cold preceded and followed the event, lasting until Jan 8th.
<b>New Hanover County</b>	
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about a half inch, and sleet accumulations along the coast were about an inch. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about a half inch, and sleet accumulations in the county ranged from one to two inches. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.
2/11/2014	Freezing rain began falling the morning of February 11th, with a tenth of an inch of ice accumulation reported by late that afternoon. Driving was treacherous, with numerous power outages reported.

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Date	Description
2/11/2014	Freezing rain began falling the morning of February 11th, with over a half inch of ice accumulation reported at the National Weather Service office in Wilmington. Driving was treacherous, with numerous power outages reported. The police department reported trees and branches down over much of Wilmington. Some residents stayed overnight at emergency shelters.
1/3/2018	Snow began falling by afternoon on Jan 3rd. Two inches of snow had fallen by 11 pm, and the total snow for the event was about an inch along the coast. A quarter of an inch of ice was also reported in Kure Beach. The low pressure responsible for the winter weather bombed off the east coast, dropping 24 millibars in twenty-four hours. Record cold preceded and followed the event, lasting until Jan 8th.
1/3/2018	Snow began falling by afternoon on Jan 3rd. Two inches of snow had fallen by 11 pm, and the totals for the event ranged from one to four inches with the heaviest accumulations to the north. A tenth of an inch of ice was also reported southwest of Wilmington. The low pressure responsible for the winter weather bombed off the east coast, dropping 24 millibars in twenty-four hours. Record cold preceded and followed the event, lasting until Jan 8th.
<b>Onslow County</b>	
1/3/2002	Eastern North Carolina was blanketed by ice and snow beginning later in the afternoon on January 3rd. Snowfall continued for several hours and ended over much of the area by 4am on the 4th. Mainland locations received 4 to 6 inches of snow while along the outer banks only a trace to an inch of snow was recorded from Manteo to Cape Hatteras, mainly due to gusty winds. On the Island of Ocracoke, four inches of snow was recorded within the village.
1/23/2003	A major winter storm affected eastern North Carolina on January 23, 2003. The storm dumped the highest amounts of snow east of highway 17 across the area known as the Outer Banks, where 8 to 12 inches of snow fell with isolated amounts up to 14 inches, including the counties of eastern Carteret, Dare and, and Hyde counties. This was the largest one-day snowfall on the Outer Banks in over a decade. The greatest storm total snowfall occurred on December 23rd and 24th in 1989. Snowfall amounts from 4 to 8 inches fell across central sections of the county warning area including Craven, Pamlico, Beaufort, and Tyrrell counties. Other western counties received 2 to 4-inch snowfall amounts.
1/25/2004	A winter storm produced up to 2-inch ice accumulations mainly across the coastal plains of eastern North Carolina.
1/26/2004	A winter storm caused up to one half inch ice accumulations mainly across the coastal plains of eastern North Carolina during the night.
12/26/2004	Another winter storm affected parts of eastern North Carolina on the 26th with a second round of winter weather. A wintry mix of precipitation occurred along and west of Highway 17. Portions of Duplin, Lenoir, Greene, Pitt, Martin, and Washington counties received up to 5 inches snow. Freezing rain resulted in up to one quarter inch ice accumulations in western Beaufort, Craven, Jones, Onslow, and Duplin counties.
1/28/2014	A mix of sleet and freezing rain began during the morning of January 28th and continued through the early morning hours of January 29th before briefly ending as light snow. There was up to 0.25 inches of freezing rain early, then around 2 inches of sleet. Roads were icy for several days during and after the event.
2/11/2014	Widespread freezing rain, sleet and snow developed during the morning hours of February 11th and continued much of the day. Ice accumulated 0.25 to 0.5 inch across the southern and eastern parts of the county. Over the far northwest parts of the county snow accumulated 3 to 4 inches. The freezing rain and snow gradually changed to rain on February 12th.
1/3/2018	Light freezing rain changed to snow during the evening of January 3rd and accumulated 3 to 5 inches county wide by the early morning hours of January 4th. The snow and ice produced widespread hazardous travel conditions. A weather-related traffic fatality was reported in Onslow County near the Pender County line as motorist drove into a canal.
<b>Pender County</b>	
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about four tenths of an inch, and sleet accumulations along the coast were about one and a half inches. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.

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Date	Description
1/28/2014	Freezing rain began falling the afternoon of Jan 28th, changed over to mostly sleet in the evening and overnight hours, and tapered off to flurries the morning of the 29th. Total ice accumulations were about a quarter inch, and sleet accumulations in the county were about two and a half inches. Due to the nature of the precipitation, power outages were isolated, however driving was treacherous. Numerous traffic accidents were reported as well as injuries due to slips and falls.
2/11/2014	Freezing rain began falling the morning of February 11th, with a tenth of an inch of ice accumulation reported near the coast. Driving was treacherous, with numerous power outages reported.
2/11/2014	A mixture of snow, freezing rain and sleet began falling the morning of February 11th, with over an inch of frozen precipitation reported at Watha. Driving was treacherous, with 3700 residents without power. Some residents stayed overnight at emergency shelters. One man was killed when an ice-laden tree branch fell on him outside his home on Hopes Path Road in Rocky Point. Six people were taken to the hospital and treated for carbon monoxide. They were trying to heat their home with a charcoal grill.
1/3/2018	Snow began falling by afternoon on Jan 3rd. Two inches of snow had fallen by 8:00 pm, and the totals for the event ranged from three to five inches. The low pressure responsible for the winter weather bombed off the east coast, dropping 24 millibars in twenty-four hours. Record cold preceded and followed the event, lasting until Jan 8th.
1/3/2018	Snow began falling by afternoon on Jan 3rd. Two inches of snow had fallen by 8 pm, and the totals for the event ranged from three to five inches. The low pressure responsible for the winter weather bombed off the east coast, dropping 24 millibars in twenty-four hours. Record cold preceded and followed the event, lasting until Jan 8th.