

HTI Potential Impact Statements

Updated: 7/27/2020

Wind

<i>None</i>	<p>Little to no potential impacts from wind.</p>
Potential for wind 39 to 57 mph (Weak TS)	<p>Damage to porches, awnings, carports, sheds, and unanchored mobile homes. Unsecured lightweight objects blown about.</p> <p>Large tree limbs broken off. A few trees snapped or uprooted, but with greater numbers in places where trees are shallow rooted.</p> <p>Some roads impassable due to debris, particularly within urban or heavily wooded locations. Hazardous driving conditions on bridges and other elevated roadways, especially for high profile vehicles.</p> <p>Isolated to scattered power and communications outages.</p>
Potential for wind 58 to 73 mph (Strong TS)	<p>Some damage to roofing and siding materials, along with damage to porches, awnings, carports, and sheds. A few buildings experiencing window, door, and garage door failures. Mobile homes damaged, especially if unanchored. Unsecured lightweight objects become dangerous projectiles.</p> <p>Several large trees snapped or uprooted, but with greater numbers in places where trees are shallow rooted.</p> <p>Some roads impassable from large debris, and more within urban or heavily wooded places. A few bridges and access routes impassable.</p> <p>Travel by vehicle or on foot increasingly difficult. Danger of death or injury from falling objects such as trees or electric wires outside.</p> <p>Scattered power and communications outages, but more prevalent in areas with above ground lines, which could persist for hours or days.</p> <p>Some poorly secured small craft could break loose from their moorings.</p>
Potential for wind 74 to 110 mph (Cat 1-2)	<p>Considerable roof damage to sturdy buildings, with some window, door, and garage door failures leading to structural damage. Mobile homes severely damaged, with some destroyed. Damage accentuated by airborne projectiles. Some locations may be uninhabitable for weeks.</p> <p>Danger of death or injury from falling objects and airborne projectiles outside.</p> <p>Large trees snapped or uprooted.</p> <p>Some roads impassable from large debris, and more within urban or heavily wooded locations. Several bridges and access routes impassable.</p> <p>Large areas with power and communications outages, which could persist for days.</p> <p>Several secured small craft may break free from moorings.</p>
Potential for wind > 110 mph (Cat 3+)	<p>Structural damage to sturdy buildings, some with complete roof and wall failures. Complete destruction of mobile homes. Damage greatly accentuated by large airborne projectiles. Locations may be uninhabitable for weeks or months.</p> <p>Impossible to venture outside due to falling objects and airborne projectiles.</p> <p>Numerous large trees snapped or uprooted.</p> <p>Many roads impassable due to large debris, especially within urban or heavily wooded locations. Most or all bridges and access routes impassable.</p> <p>Widespread damage to power and communications infrastructure with resulting outages possibly lasting for weeks or longer. Gas leaks and fallen electric wires pose a threat to life.</p> <p>Many marine vessels will likely break free from moorings.</p>

Storm Surge

<i>None</i>	Little to no potential impacts from saltwater inundation.
Potential for surge flooding >1 ft above ground	<p>Localized inundation of saltwater mainly along immediate shorelines and in low-lying spots farther inland near rivers and creeks.</p> <p>Sections of near-shore roads and parking lots become overspread with surge water. Driving conditions hazardous in places where surge water covers the road.</p> <p>Minor to moderate beach erosion. Heavy surf possibly breaching dunes, mainly in normally vulnerable locations. Strong rip currents.</p> <p>Minor to locally moderate damage to marinas, docks, boardwalks, and piers. A few small craft broken away from moorings.</p>
Potential for surge flooding >3 ft above ground (Storm Surge Watch /Warning criteria)	<p>Areas of inundation of saltwater along immediate shorelines and in low-lying spots farther inland near rivers and creeks, with storm surge flooding accentuated by waves. Damage to several buildings, mainly near the coast.</p> <p>Sections of near-shore escape routes and secondary roads become weakened or washed out, especially in normally vulnerable low spots.</p> <p>Moderate to major beach erosion with heavy surf breaching dunes. Strong and numerous rip currents.</p> <p>Minor to moderate damage to marinas, docks, boardwalks, and piers. Several small craft broken away from moorings, especially in unprotected anchorages. Some navigation aids possibly displaced well off station, creating difficult navigation near inlets and waterways.</p>
Potential for surge flooding >6 ft above ground	<p>Large areas of deep inundation of saltwater along immediate shorelines and in low-lying spots farther inland near rivers and creeks, with storm surge flooding accentuated by battering waves. Structural damage to buildings, with several washing away. Damage compounded by floating debris. Locations may be uninhabitable for an extended period.</p> <p>Large sections of near-shore escape routes and secondary roads washed out or flooded and impassable. Flood control systems and barriers could become stressed.</p> <p>Severe beach erosion with significant dune loss.</p> <p>Major damage to marinas, docks, boardwalks, and piers. Many small craft broken away from moorings, especially in unprotected anchorages, with some lifted onshore and stranded.</p> <p>Drinking water and sewer services negatively impacted.</p> <p>Hazardous containers and materials possibly present in surge waters.</p>
Potential for surge flooding >9 ft above ground	<p>Widespread deep inundation of saltwater along immediate shorelines and in low-lying spots farther inland near rivers and creeks, with storm surge flooding greatly accentuated by powerful battering waves. Many buildings washed away or extensively damaged. Damage greatly compounded by considerable battering by floating debris. Locations may be uninhabitable for an extended period.</p> <p>Near-shore escape routes and secondary roads washed out or severely flooded. Flood control systems and barriers may become stressed or overwhelmed.</p> <p>Extreme beach erosion with significant loss of dunes. Potential for new inlets carved into or through some barrier islands. Large amounts of sand blocking roads on barrier islands.</p> <p>Massive damage to marinas, docks, boardwalks, and piers. Numerous small craft broken away from moorings with many lifted onshore and stranded. Many aids to navigation lost. Significant debris presents a hazard to navigation.</p> <p>Water and sewer services likely not available.</p> <p>Hazardous containers and materials likely present in surge waters.</p> <p>Gas leaks and fallen electric wires pose a threat to life.</p>

Flooding Rain

None	<p>Little to no potential impacts from heavy rainfall.</p>
<p>Potential for localized flooding rain</p>	<p>Localized rainfall flooding could prompt a few rescues.</p> <p>Rivers and tributaries could quickly rise with swifter currents. Small streams, creeks, canals, and ditches could become swollen and overflow in spots.</p> <p>Flood waters can enter a few structures, especially in normally vulnerable spots. Rapid ponding of water could occur at underpasses, low-lying spots, and poor drainage areas. Several storm drains and retention ponds become near-full and begin to overflow. Some brief road and bridge closures.</p>
<p>Potential for moderate flooding rain</p>	<p>Moderate rainfall flooding may prompt some rescues.</p> <p>Rivers and tributaries could quickly become swollen with swifter currents and overflow their banks in a few places, especially in normally vulnerable spots. Small streams, creeks, canals, and ditches overflow.</p> <p>Flood waters can enter some structures or weaken foundations. Several places could experience expanded areas of rapid inundation at underpasses, low-lying spots, and poor drainage areas. Some streets and parking lots take on moving water as storm drains and retention ponds overflow. Driving conditions become hazardous. Some road and bridge closures.</p>
<p>Potential for major flooding rain</p>	<p>Major rainfall flooding could prompt many rescues.</p> <p>Rivers and tributaries could rapidly overflow their banks in multiple locations. Small streams, creeks, canals, ditches may become dangerous rivers. Flood control systems and barriers could become stressed.</p> <p>Flood waters could enter many structures within multiple communities; some structures become uninhabitable or are washed away. Flood waters could cover multiple escape routes. Streets and parking lots become rivers of moving water with underpasses submerged. Driving conditions become dangerous. Many road and bridge closures with some weakened or washed out.</p> <p>Drinking water and sewer services could be negatively impacted.</p> <p>Hazardous containers and materials could possibly be present in flood waters.</p>
<p>Potential for extreme flooding rain</p>	<p>Extreme rainfall flooding could prompt widespread evacuations and rescues. As event unfolds, rescues could become impossible.</p> <p>Rivers and tributaries may overwhelmingly overflow their banks in many places with deep moving water. Small streams, creeks, canals, and ditches may become raging rivers with strong currents. Flood control systems and barriers could become stressed or overwhelmed.</p> <p>Flood waters will enter many structures within multiple communities, some structures becoming uninhabitable or washed away. Flood waters could render escape routes impassable. Streets and parking lots become rivers of raging water with underpasses submerged. Driving conditions become impossible and life threatening. Widespread road and bridge closures with most weakened or washed out.</p> <p>Drinking water and sewer services could be negatively impacted.</p> <p>Hazardous containers and materials could possibly be present in flood waters.</p>

Tornadoes

<i>None</i>	Little to no potential impacts from tornadoes.
Potential for a few tornadoes	<p>Isolated tornadoes can hinder the execution of emergency plans.</p> <p>Isolated locations could experience tornado damage, along with power and communications disruptions.</p> <p>In isolated locations, tornadoes could damage trees, vehicles, boats and buildings, especially mobile homes and other poorly constructed structures.</p>
Potential for several tornadoes	<p>Isolated to scattered tornadoes can hinder the execution of emergency plans.</p> <p>Scattered locations could experience enhanced damage due to tornadoes with a few spots of considerable damage, power loss, and communications failures.</p> <p>Scattered locations could realize roofs torn off frame houses, mobile homes demolished, boxcars overturned, large trees snapped or uprooted, vehicles tumbled, and small boats tossed about.</p>
Potential for many tornadoes	<p>Numerous tornadoes can greatly hinder the execution of emergency plans.</p> <p>Tornadoes could produce pockets of extensive destruction, power loss, and communications failures. In some locations, tornado winds and deadly projectiles demolish sturdy buildings, sweep away structures upon weak foundations, obliterate mobile homes, snap off and uproot large trees, lift vehicles off the ground and throw with distance, and destroy small boats destroyed.</p>
Potential for an outbreak of tornadoes	<p>An outbreak of tornadoes could greatly hinder the execution of emergency plans.</p> <p>Many locations could experience tornado damage, with several spots of massive destruction, power loss, and communications failures.</p> <p>In some locations, tornado winds and deadly projectiles demolish sturdy buildings, sweep away structures upon weak foundations, obliterate mobile homes, snap off and uproot large trees, lift vehicles off the ground and throw with distance, and destroy small boats.</p>