

**Impact Matrix for:
Severe Convection (in addition to Rainfall and Wind Impacts)**

Minimal Impact	Minor Impacts	Significant Impacts	Severe Impacts
<u>Aviation</u> No impacts on aviation activities	Delay or reroute landings/take-off Slight reduction of visibility	Delays, temporary closure Significant reduction of visibility	Extended closure and delays Flight cancellations and diversions Visibility obscured
<u>Marine</u> Minimal impact on watercraft operations	Minor impacts on watercraft operations Small craft advisory to seek safe harbor	Significant disruption of watercraft operations Watercraft should seek safety Possible damage to small watercraft	Marine operations severely impacted Small watercraft damaged/capsized Possible safety issues of people in small watercraft
<u>Transportation</u> Minimal impact on traffic	Minor impacts of traffic congestion and delays	Significant impacts likely, significant traffic delays, congestion especially near traffic signals (outages likely) and near schools for student pickup	Major traffic jams, congestion near traffic signals, schools, government offices, etc. Accidents and other traffic incidents likely
<u>Port</u> No impacts on port operations	Minor impacts of securing containers and equipment Minor impacts to ship operations	Significant impacts in delay of ships in port, securing containers and equipment	Major delays in ship offload/loading Containers and equipment needs to be secured Possible damage if not secured

<p><u>Tourism</u></p> <p>Little or no impact to tourists and events</p>	<p>Minor impacts to tourism activities. Marine and beach activities could be delayed</p> <p>Sporting events could be delayed while event passes</p>	<p>Tourism activities will be delayed or canceled near convection event</p> <p>Sporting events delayed</p> <p>Safety of tourists could be impacted if shelter not available (in watercraft, on beach)</p>	<p>Tourist activities cancelled</p> <p>Safety of tourists at risk if caught in severe convection</p> <p>Sporting events cancelled or delayed</p>
<p><u>School</u></p> <p>No impacts on school activities</p>	<p>Localized impacts on school activities or school cancellation</p>	<p>Regional impacts on school activities. Schools closed early and after school activities cancelled</p>	<p>Most schools closed early, afterschool activities cancelled, impacts on student pickup (see transportation)</p> <p>Safety of students impacted, especially that are not in shelter of school</p>
<p>Lightning</p>			
<p><u>Power</u></p> <p>Day to day activities not disturbed</p>	<p>Minor or localized disruption of power</p>	<p>Localized fire incidents</p> <p>Disruption of services due to power surges</p> <p>Danger to life (lightning strikes)</p>	<p>Localized fire incidents</p> <p>Widespread, prolonged utility service disruption due to power surges</p> <p>Danger to life (lightning strikes) over a widespread area</p>

<p><u>Communication</u></p> <p>Minimal impacts on communications</p>	<p>Localized impacts on cell phone communications near lightning event</p>	<p>Regional cell phone communications outages likely especially near areas of lightning strikes and near schools (saturated network)</p>	<p>Widespread, long-term cell phone communications outages likely</p> <p>Cell phone towers possibly damaged and need repairs</p> <p>Long-term outages near lightning strikes</p>
<p><u>Aviation</u></p> <p>Aviation operations not impacted</p>	<p>Minor descriptions to aircraft operations if lightning is on the field</p>	<p>Significant delays to flights due to lightning on the airfield especially during peak lightning season (August – October)</p>	<p>Major impacts to aircraft operations with flights cancelled, delayed or diverted with lightning on the airfield</p>
<p><u>Marine</u></p> <p>Minimal impacts to watercraft operations</p>	<p>Minor impacts to watercraft operations, especially public or tourist operations</p>	<p>Sever impact to marine operations.</p> <p>Small watercraft seek shelter</p> <p>Tourist boating activities cancelled or delayed</p>	<p>Major impacts to watercraft operations</p> <p>Tourist activities cancelled</p> <p>Safety of public comprised if boating with no shelter</p>