A Climatological Look at the Timing of Hazardous Weather Conditions During Winter Storms in Duluth, MN

Rick Hluchan
National Weather Service
WFO Duluth, Minnesota

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Methodology

Looked at

- Visibility $\leq \frac{1}{2}$ SM
- Snow Amounts
- Wind
Visibilities

Tallied Occurrences of Visibility $\leq \frac{1}{2}$ SM During each Event
Visibilities

Break it Down by Time of Winter

Hours that reported Visibility ≤ ½ SM during an Event

Early Season: Before December 15th
Visibilities

Break it Down by Time of Winter

Hours that reported Visibility $\leq \frac{1}{2}$ SM during an Event

Mid Winter: Dec 16th and Feb 28th
Visibilities

Break it Down by Time of Winter

Hours that reported Visibility ≤ ½ SM during an Event

Late Winter: March 1st and After
Snow Amounts

Analyzed 6 hr Snow Totals

Is there a time of day that shows higher amounts?

Duluth
1 March 2007
Snow Amounts

Daytime

6 am - Noon
- 0-1 in
- 1-2 in
- 2-3 in
- 3-4 in
- 4-5 in
- 5-6 in

24% ≥3 in

Noon - 6 pm
- 0-1 in
- 1-2 in
- 2-3 in
- 3-4 in
- 4-5 in
- 5-6 in

27% ≥3 in

Duluth, 2007
Snow Amounts

Nighttime

6 pm - Midnight

- 24% ≥3 in

Midnight - 6 am

- 31% ≥3 in
Peak Wind

Daytime

6 am - Noon

- 44% ≥30 mph
- 30-39 mph
- 20-29 mph
- 10-19 mph
- 0-9 mph
- 50+ mph

Noon - 6 pm

- 47% ≥30 mph
- 30-39 mph
- 20-29 mph
- 10-19 mph
- 0-9 mph
- 50+ mph
Peak Wind

Nighttime

<table>
<thead>
<tr>
<th>6 pm - Midnight</th>
<th>Midnight - 6 am</th>
</tr>
</thead>
<tbody>
<tr>
<td>44% ≥30 mph</td>
<td>56% ≥30 mph</td>
</tr>
</tbody>
</table>

- 0-9 mph
- 10-19 mph
- 20-29 mph
- 30-39 mph
- 40-49 mph
- 50+ mph

Peak Wind

44% ≥30 mph

56% ≥30 mph