A New York Tornado

A small tornado formed near the town of Apalachin, New York at about 5:30 P.M. producing winds as strong as 70 miles per hour. It caused a path of destruction approximately 200 feet wide. By 5:45 P.M. the tornado had strengthened as it traveled thorough Vestal, New York with winds as high as 100 miles per hour. Considerable damage was reported along the path of the tornado.

By 6:10 in the evening the tornado moved to Binghamton with winds of about 130 miles per hour. It pushed over a 1,000 foot high television transmission tower near Binghamton. Then the tornado lifted off the ground on its way toward Windsor, New York where only a few tree were damaged. In Sanford, New York a mobile home was completely overturned, although no greater damage was found.

The tornado arrived at Deposit, New York at about 6:30 P.M. and surface winds reached their greatest speed of approximately 180 miles per hour, causing severe damage to homes. However, after passing through Deposit, the tornado soon ended its more than 1-hour rampage and died out.

The map above shows the region affected by the tornado.
<table>
<thead>
<tr>
<th>EF-S</th>
<th>EF-2</th>
<th>EF-3</th>
<th>EF-4</th>
<th>EF-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shorn home roofs</td>
<td>Trees uprooted</td>
<td>Roof fails</td>
<td>Homes destroyed</td>
<td>Damage to property, structures</td>
</tr>
<tr>
<td>Strong pressure</td>
<td>Moderate pressure</td>
<td>Slight pressure</td>
<td>Pressure</td>
<td>Pressure</td>
</tr>
<tr>
<td>EF-5</td>
<td>EF-4</td>
<td>EF-3</td>
<td>EF-2</td>
<td>EF-1</td>
</tr>
</tbody>
</table>

**Enhanced Fujita Scale**

Enhanced Fujita Scale that is used internationally to classify tornadoes.

Base your answers to questions 37 through 39 on the table below, which shows the

![Diagram](image)

37. What was the maximum Enhanced Fujita Scale number of this tornado and where did it occur? (1) EF-1 at Appalachia (2) EF-2 at Deposit (3) EF-3 at Appalachia (4) EF-5 at Deposit

38. What was the Enhanced Fujita Scale number for the tornado that occurred in Sandfort? (1) EF-1 (2) EF-2 (3) EF-3 (4) EF-5

39. What was the average rate of speed at which the tornado advanced during the 1/2 hour it was observed? (1) 0 mph (2) 25 miles per hour (3) 35 miles per hour (4) 57 miles per hour