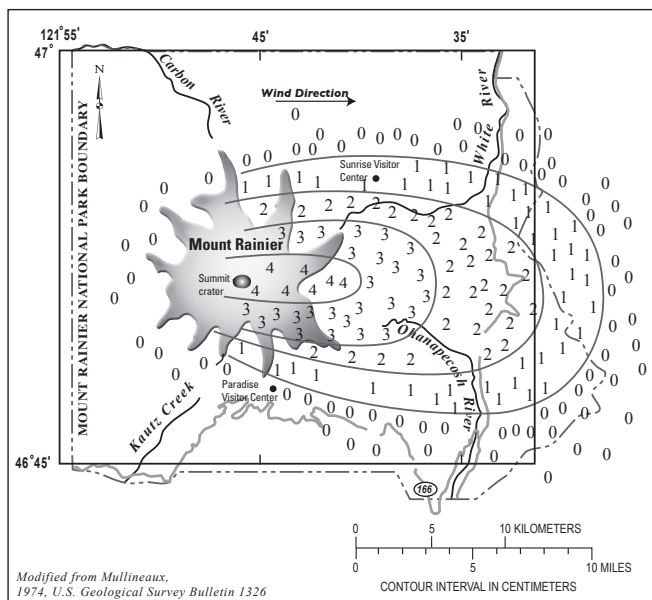




## Make Your Own Tephra Isopach Map

In the vicinity of the Cascade volcanoes, the prevailing direction of air flow (wind) is towards the east, northeast, or southeast approximately 85 percent of the time. Based on this information, make a prediction about the direction of tephra travel during an eruption of Mount Rainier. Draw a wind arrow on the map below.



1. Develop a hypothesis that explains how ash thickness will vary with increasing distance from the volcano.

**ANSWER:**

The deposit will be thickest close to the volcano and thinner farther from the volcano.

2. Draw circles (contours) to separate the zeros from the ones, the ones from the twos, the twos from the threes, and the threes from the fours. These contours indicate areas of equal tephra thickness and are known as isopachs.

**ANSWER:**

(see map above)

