

Analyzing Severe Weather Data

Introduction

Tornadoes are violent windstorms associated with severe thunderstorms. Meteorologists carefully monitor atmospheric data to predict where thunderstorms might develop. They also attempt to predict whether these storms might spawn powerful tornadoes. To aid them in this task, meteorologists use thermodynamic indices.

Thermodynamic indices are sets of numbers that indicate the state of the atmosphere at a given time and place. Three important thermodynamic indices are the dew-point index, the lifted index, and the storm relative helicity index.

The **dew-point index** indicates the amount of moisture in the atmosphere. The dew-point temperature of an area usually needs to be at least 50°F for a tornado to develop.

The **lifted index** indicates how fast or slow air is rising or sinking. Air must be rising for a thunderstorm—and therefore, a tornado—to develop.

The **storm relative helicity index** indicates whether or not the air is rotating. For a tornado to develop, air must be turned or spun as it rises.

In this investigation, you will use thermodynamic indices and weather maps to predict where a tornado might strike.

Problem

Where are tornadoes most likely to occur?

Pre-Lab Discussion

Read the entire investigation. Then work with a partner to answer the following questions.

1. **Focusing Questions.** Write a question that summarizes the purpose of this lab.

2. **Focusing Definitions.** What is the dew-point index? For the purpose of this investigation, how does it relate to tornadoes?

Analyzing Severe Weather Data Answer Key

Annelies Wilder-Smith

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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