



Name: _____

Group: _____



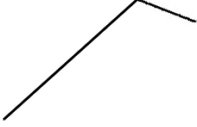
Transport

	Calm	_____
	5 knots	_____
	10 knots	_____
	15 knots	_____
	20 knots	_____
<p align="center">Example of Wind Barb</p> <p align="center"><i>Represents a wind that is blowing from the Southeast at 15 knots.</i></p>	50 knots	_____
	65 knots	_____

For the following images, answer the following questions:

- Which direction is the wind blowing?
- How hard is the wind blowing?

_____ at _____ knots	_____ at _____ knots	_____ at _____ knots
_____ mph _____ kmh	_____ mph _____ kmh	_____ mph _____ kmh

		
_____ at _____ knots _____ mph _____ kmh	_____ at _____ knots _____ mph _____ kmh	_____ at _____ knots _____ mph _____ kmh

What about the particles you cannot see? Winds can transport particles like particulates, NO_x, VOCs, and ground level ozone great distances from where they were produced. Pollutants such as ground level ozone are usually swept along by winds that blow around 3,000 ft above the surface (sea level).

Access the 3,000 ft wind data and answer the questions:

1. If there was an Ozone Alert Day issued in Chicago, IL and some of the ground level ozone was transported at the 3,000 ft level, in which direction would the zone move and at what speed?

2. Locate Atlanta, GA on the map. If a large amount of particulates were released, in which direction would the particulates move, and at what speed?

3. Locate St. Louis, MO on the map. If the winds continued to blow at the same speed and direction, which state would the winds blow over next?

4. Locate Los Angeles, CA on the map. If a forest fire was burning, which direction would the wind blow the fire, smoke and particulates?