

Weather Terms or What the Meteorologist Really Means...

When the weather report is given on the news, the reporter spouts out terms like humidity, dew point, wind chill, and barometric pressure. That's nice, but what in the world do they really mean?



Temperature:

- ✓ Measurement of how _____ molecules are _____.
- ✓ So the faster the molecules, the _____ the temperature.
- ✓ Temperature is measured using a _____, and measured in _____.

Winds:

- ✓ Measurement of how _____ the wind is blowing, and _____.
- ✓ Measured using an _____, and measured in _____.
- ✓ Air moving from an area of _____ pressure to an area of _____ pressure.
- ✓ Warm air is _____ dense. Cool air is _____ dense.
- ✓ Cool air _____ and forces _____, _____ air upward.
- ✓ Density differences are due to _____ and _____ of Earth's surface. This forms areas of high and low _____.

Wind Chill:

- ✓ How cold the air _____.
- ✓ Measured using _____, which estimates the _____ lost from human skin in the presence of _____.

Air Pressure / Barometer:

- ✓ Air Pressure - _____.
- As you move down towards Earth, pressure _____.
- ✓ Causes _____ as air moves from areas of _____ pressure to _____ pressure.
- ✓ Measured using a _____, and measured in _____.

Humidity:

- ✓ Humidity= _____
- ✓ Relative Humidity (R.H.)= the _____ of H₂O _____ in a volume of _____ relative to how much H₂O vapor that volume of air is _____.
- R.H. measured using a _____ and is expressed as a _____
 - If air is holding _____ H₂O vapor as it can, R.H. = _____
 - If air is holding _____ H₂O vapor as it can, R.H. = 50%
- _____ can hold more moisture.
- R.H. affects the development of _____ and ultimately _____.

Dew Point:

- ✓ Air temperature at which _____ occurs.
- ✓ What is saturation?
- ✓ If overnight temps are _____ enough, _____ will form on the grass and leaves.
- ✓ What is condensation?

CLOUD FORMATION:

1.

2.

Condensation Nuclei -

3.

Other methods:

1. Orographic lifting –

2. Collision of air masses _____.

PRECIPITATION:

- As more water droplets condense, they get _____.
- What happens when the droplets get too big?

- What determines if rain, snow or hail will fall?