

12-4 What is the dew point?

(Pages 284-285)

As the temperature of air drops, what does the water vapor change into?

Liquid

Condensation: changing of a gas to liquid

Dew Point: temperature of air at which condensation takes place

What temperature holds more water vapor?

Warm air

What temperature holds less water vapor (and will reach saturation sooner)?

Cool air

Steps to Dew/Frost

1. Air temperature drops, air is saturated, relative humidity is 100%
2. Saturated air continues to cool
3. Water vapor condenses when reaches dew point
4. Dew - drops of water
- \*\*5. If dew point below freezing point,  $0^{\circ}\text{C}$  or  $32^{\circ}\text{F}$ , water vapor to frost

Frost: ice formed from condensation below the freezing point of water