



From the air temperature line graph, circle when the cold front occurred. Approximately what time did the cold front pass through Norman? 1:30 PM

How did the air temperature change compare to the soil temperature throughout the time period? *Air temperature changed very rapidly, dropping from 55° to 39° in one hour. Soil temperature changed only gradually and slightly.*

What are some reasons why the air temperature and soil temperature changed differently with the passage of the cold front? *Air temperature changes in direct response to the colder air behind the cold front. Soils have a much higher heat capacity and take a longer time of exposure to cold air before cooling.*

[Easier: add axis labels and tick marks for the student. Harder: have the student download the data directly from mesonet.org and convert the raw data to LST and Fahrenheit units.]