

MET 2110: Fall 2005
 Homework 1
 Due: 9/12/05

Name: _____

- Go to this webpage <http://apollo.wxdata.surface/index.html> , scroll down to the bottom and click on METAR. Use this interface to look up the METAR reports for BTV and 1V4 and determine the high, low temperature and precipitation amount for every day. Consider each day to include four 6-hour observations 0600 UTC – 0600 UTC (the 12, 18, 00, 06 UTC observations). For SUTV1 and C2202, use the MesoWest interface: <http://www.met.utah.edu/mesowest> - select station ID and put in the station ID in the top left corner. For Lyndon State (LSC), go to <http://apollo.lsc.vsc.edu/> and under local weather click on “detailed conditions”.

Wednesday		High (degrees F)	Low (degrees F)	Precipitation (inches)	Significant Weather
Burlington	BTV				
Saint Jay	1V4				
Sutton	SUTV1				
Lyndonville	C2202				
LSC	LSC				
Thursday		High (degrees F)	Low (degrees F)	Precipitation (inches)	Significant Weather
Burlington	BTV				
Saint Jay	1V4				
Sutton	SUTV1				
Lyndonville	C2202				
LSC	LSC				
Friday		High (degrees F)	Low (degrees F)	Precipitation (inches)	Significant Weather
Burlington	BTV				
Saint Jay	1V4				
Sutton	SUTV1				
Lyndonville	C2202				
LSC	LSC				
Saturday		High (degrees F)	Low (degrees F)	Precipitation (inches)	Significant Weather
Burlington	BTV				
Saint Jay	1V4				
Sutton	SUTV1				
Lyndonville	C2202				
LSC	LSC				
Sunday		High (degrees F)	Low (degrees F)	Precipitation (inches)	Significant Weather
Burlington	BTV				
Saint Jay	1V4				

Sutton	SUTV1				
Lyndonville	C2202				
LSC	LSC				

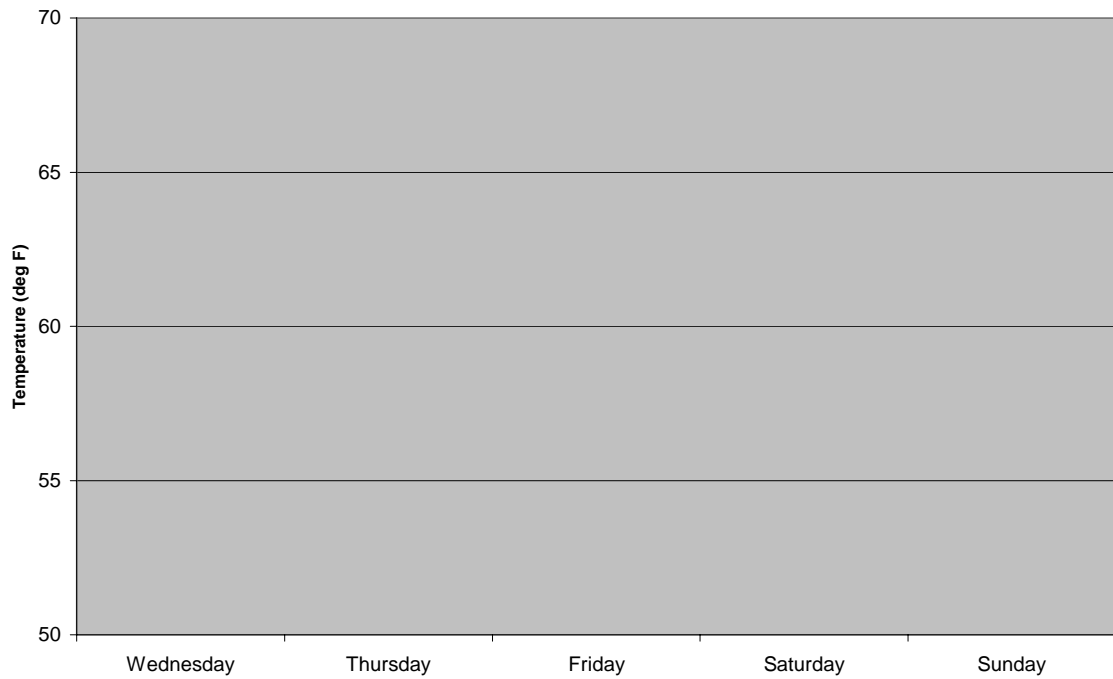
Compare Lyndon State's high and low temperature with that recorded near the river in Lyndonville (C2202) and Sutton (SUTV1) to answer the following questions.

2. Which location features the warmest high temperatures?
3. Which location features the lowest low temperatures?
4. Which location features the greatest temperature range?
5. Which location features the smallest temperature range?
6. Speculate why you think the location in 4 has the largest temperature range.

7. Speculate why you think the location in 5 has the smallest temperature range.

8. Graph the average daily temperature $(\text{max} + \text{min}) / 2$ at one location. What location did you use?

Average Daily Temperature



9. Based on your graph in 8, what was the trend in the average temperature? (e.g., it warmed until this day and then cooled).

Extra Credit: Explain what large-scale features contributed to the temperature trend. (e.g., cold air moved in behind a cold front on this day).