Station 3
Climate Parameters and West Nile Virus

Map #1 – West Nile Virus Incidence

1. In 2012, two large regions of the U.S. had a high incidence of West Nile virus. Explain how the map shows this incidence for the following geographic areas:
   - Texas, Louisiana and Mississippi
   - North Dakota, South Dakota and Nebraska

Map #2 – Precipitation Maps

2. What do you observe about precipitation during early spring in 2012 for these two regions of the U.S.?

Map #3 – Temperature Maps

3. What do you observe about temperature during summer in 2012 for these two regions of the U.S.?

Conclusion

4. Using precipitation and temperature data, create a hypothesis about West Nile virus incidence and climate parameters.
Climate Change and Vector-Borne Disease Unit

Station 3: Map #1
Climate Parameters and West Nile Virus

West Nile Virus Incidence
Reported to ArboNET, by county, United States, 2012

Centers for Disease Control and Prevention (CDC)
www.cdc.gov
Station 3: Map # 2
Climate Parameters and West Nile Virus

Precipitation Maps

Precipitation for March, 2012

Precipitation for April, 2012

National Climatic Data Center (NCDC)
National Oceanic and Atmospheric Administration (NOAA)
Station 3: Map #3
Climate Parameters and West Nile Virus Temperature Maps

Mean Maximum Temperature
June, 2012

Mean Maximum Temperature
July, 2012

National Climatic Data Center (NCDC)
National Oceanic and Atmospheric Administration (NOAA)