**Why are rivers in the Colorado River Basin salty?**

Future of Four Seasons in Maine and the Maine Data Literacy Project

**Background**: The Virgin River is a tributary to the Colorado River located in Utah and Arizona. Millions of years ago, the Colorado River Basin was a shallow sea, so the rocks and soils have some naturally occurring salt deposits. When rain and irrigation water filters through the earth, it dissolves some of the salt and carries it to the river. This means that rivers will have different amounts of salt in them depending on where the water is coming from. Snowmelt will have relatively little salt while runoff from rain and groundwater sources will be higher in salt.

The graph below shows the average monthly salt content (salinity) for the Virgin River in each month from 1937-2011. The concentration is in milligrams of salt per liter of river water.

Average Monthly Salinity of the Virgin River (1937-2011)



30000

2500

2000

1500

1000

500

0

January

February

March

April

May

June

July

August

September

October

November

December

Salt Concentration (mg/L)

Data Source: ***http://www.usbr.gov/uc/progact/salinity/***

1. Describe what the graph shows about how the salinity of the Virgin River changes throughout the year.

2. I interpret the graph to mean….