

## **Hypothesis**

In relation to the data collected and presented on the graph of the previous page, it can be observed that the plant, *Spirea Alba var. latifolia* has best adapted to the habitat of “Old Field”, as it was most frequent in this given location. This station is noted to have the least amount of moisture in comparison to the rest of the stations studied. Therefore, it is likely to state that this specific species of plants has adapted to drier and lower in elevation regions.

## **Prediction**

A. If the preferred habitat of the *Spirea Alba/Latifolia* were to experience partial water drainage of the Mer bleue marsh, the Old Field station would likely not be affected as it is considered to be of a higher elevation. Therefore, the region is not dependent on the source of water from the marshes of Mer Bleue, and rather receives water only/primarily from rainwater.

B. In regard to the drainage of the Mer bleue marshes, there will be no consequences held in relation to the abundance and growth of the *Spirea Alba/Latifolia*. The drainage would result in a lack of moisture in the lower stations (the bog, ecotone, lower forest) as these stations’ primary source of water has depleted. Therefore, it can be assumed that the new lack of moisture present in these environments will be an ideal setting for the species *Spirea Alba/Latifolia* to grow and increase in abundance. Thus, the overall abundance of this specific species of plant is predicted to increase.