**Instructions:**

Part I: ***How does the bald eagle population at a winter stopover change over three decades?***

1. Read the background materials and look over the terms in the glossary and the proposal worksheet. Are the data taken in this study (table on bottom of pg. 6) continuous or categorical?

2. Since the ban on DDT, how have the bald eagle population numbers changed at the study site?

1. Make a prediction. Do you think there are more, less or no change in the number of bald eagles at Lake Coeur d’Alene? Will the numbers fluctuate over time?
2. Why did you make this prediction?
3. Write your prediction in the form of a hypothesis.

3. Complete the research proposal worksheet, using your resources.

4. Graph the data from the provided Excel file, using your proposal to assist you.

1. What is the pattern that your data shows?
2. What does your graph *mean* or what is your interpretation of the data pattern?
3. Was your prediction accurate?
4. Do the data support your hypothesis?

5. Your instructor will show you some statistical analysis of the data. Re-evaluate the answers to question #4 based on the statistical analysis.

1. What is the pattern that your data shows?
2. What does your graph *mean* or what is your interpretation of the data pattern?
3. Was your prediction accurate?
4. Do the data support your hypothesis?

**Questions for Discussion:**

1. Some people may argue that the bald eagle population is definitely recovering based on these data.

1. Do you agree? Why/why not?
2. Also, do you expect these trends to be the same at all sites within Northern Idaho? At sites in adjacent states? During the current decade or in future decades?

2. Explain the relationship between bald eagles and salmon abundance. Is it possible that there are other factors at work? If so, what are they? What would you predict for the bald eagles in the future, based on your results?

3. Explain the relationship between bald eagles and December air temperatures at Lake Coeur d’Alene. What other weather factors might be at work, and what impact would these have on the migrating eagles?

4. How could this information influence wildlife management recommendations?

1. What wildlife management recommendations would you propose for this site (if any) for maintaining a healthy bald eagle population? Why?
2. What wildlife management recommendations would you propose for this site (if any) for maintaining a healthy salmon population? Why?