**Lab 3 Key**

**MS-Word doc with:**

**Name (5 points)**

**Table of layers you would use for Humboldt County (40 points)**

- Arcata South topo quad (o40124g1.tiff)

- DEM (Elevation\_30meter)

- BIA (indlanp020)

- Federal Land (fedlanp020)

- Wilderness areas (wildnp020)

- Land Use (Apnhum46sp)

- County layer (CNTOUTL)

- 3 points off for each incorrect conclusion

**Map of the layers (25 points)**

**Answers to: (10 each)**

Question 1: Why are all of these "Random" polygons transposed on top of Humboldt County? What would cause them to appear this way? How do we remedy this problem?

- Wrong spatial reference

- “Define” (not “Project”)

Question 2: Once you have projected your file to a new CRS/SRS, you may not notice a difference between the new layer and your original layer. Why do you think this is?

- Small datum shifts, project on the fly

Question 3: Are all of these data sets appropriate to use in analysis? Why or why not?

- Not if they are assuming Humboldt County only. Otherwise, they are all appropriate as the question leaves out “Humboldt County”.

- The topo quad is not really for spatial analysis, just checking the georeferencing