**Nora Goodrie – Final Presentation Talking Points**

**DASHBOARD SEGMENT**

**Entry Page**

* We created our visualization dashboard through tableau. Throughout the dashboard you will see Click Me to Move on buttons to advance you to the next page

**Trend Summary**

* Displaying Number of spawners
* Wild spawners
* Predicted wild spawners

**Fracwild by Brood Year**

* Displaying the fraction of the wild population. When it is a 1.0 it shows that the population is all wild, but you can see that in 1985 the fracwild drops below 1.0 which means there was an introduction of hatchery fish into the water stream

**Predicted Wild Spawners by Brood Year**

* This is displaying the predicted wild spawners in comparison to the brood year. The darker the blue the higher the number of predicted wild spawners there are.

**All Charts Predicted**

* Showing all the charts in one to let you analysis them in the same visual

**Predicted vs Wild for Wenatchee and Imnaha**

* We added in another river to compare our main river which is the Imnaha
* The top chart is showing the predicted wild spawners compared to the wild spawners in the Wenatchee River
* The below chart is displaying the same but with the Imnaha river
* The light blue bars are showing the predicted number of wild spawners

**Wild vs Hatchery**

* We included the Hatchery spawners in comparison to the Wild spawners in this display
* When wild spawners decrease the number of hatchery spawners increase

**What We Discovered Slide**

* We predicted 938 wild salmon would spawn in the Imnaha river in 2012
* We were able to determine how many hatchery salmon we would need to keep the salmon population up
* We found that wild salmon populations have been decreasing in the Pacific Northwest
* Also that hatchery fish are being effective in increasing the salmon population of those who can successfully spawn

**Recommendation For Future Analysis Slide**

* We started with such a wide range of streams within our dataset which is important to remember. We would need to perform the same analysis with the other streams in different areas to see what is going on not just in two watersheds but hundreds.
* May also look at the random dips or increases in the populations to identify what is the cause such as drought data

**Final Thoughts**

* Things to consider for the external factors
* Overfishing
* Dams
* Wildfires
* Weather Patterns
* And construction
* Can all impact these populations