

Northern Pikeminnow Sport-Reward Program 1990 – 2004

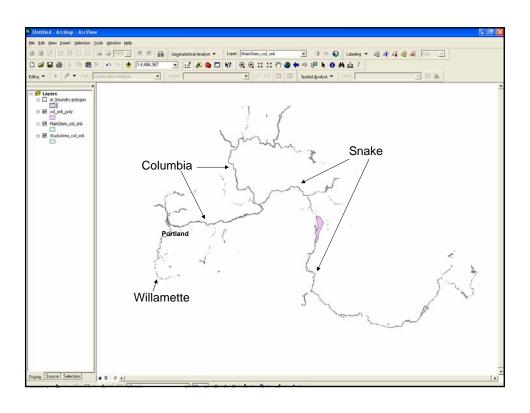
- •Control pikeminnow numbers
- •Reduce predation of salmonid species

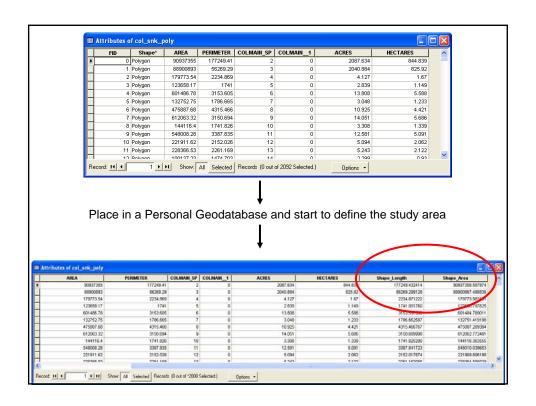


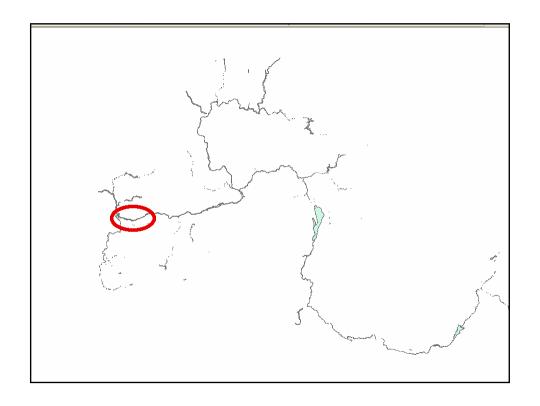


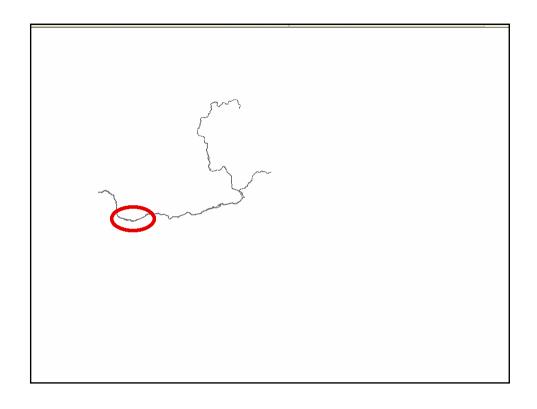
- Program Monitoring
 •Mark/Recapture (annual)
 •Indexing Surveys (5-year cycles)
- Determine predator dietary habits
- Number of predators per unit area

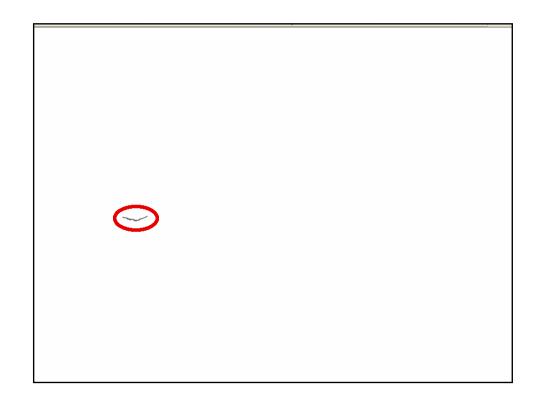
- 1. Define surface areas
- 2. Create surface estimating depth
 - 3. Select areas by depth and recalculate area

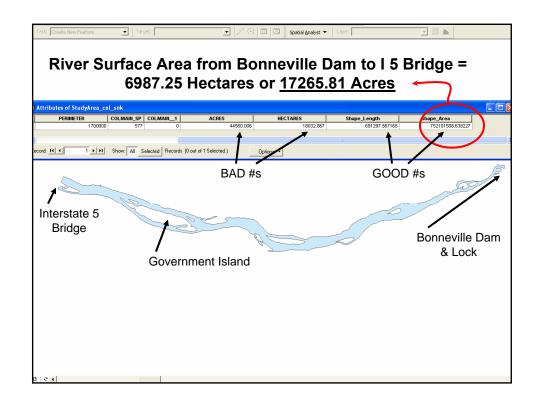






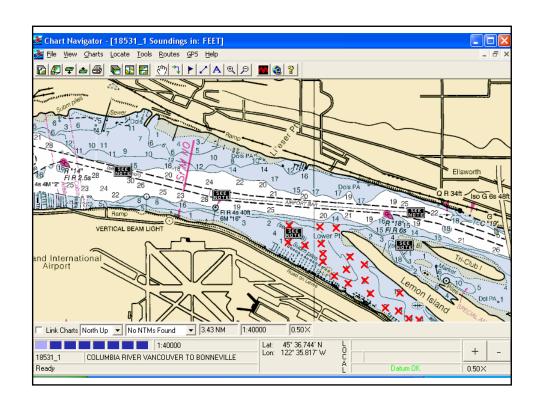


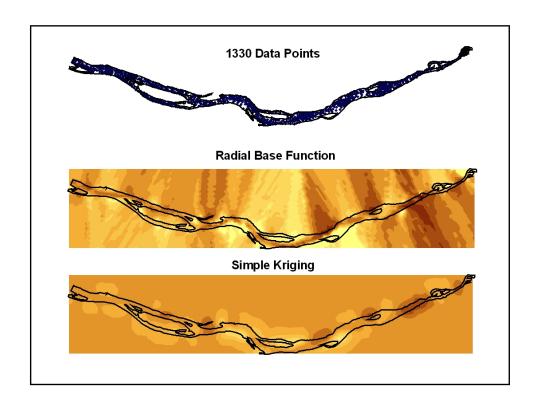


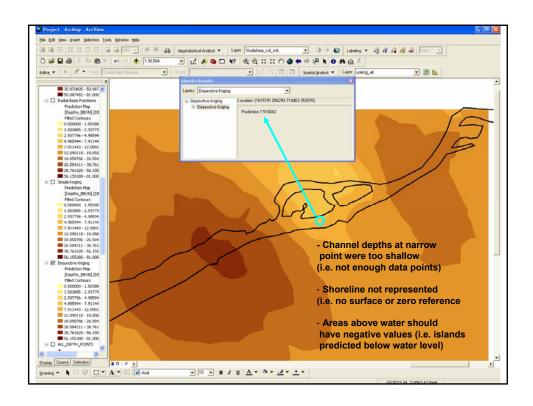


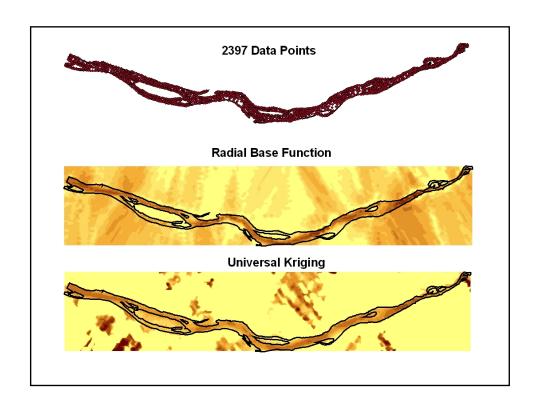
1.Define surface areas

<<<<u>DONE</u>>>>

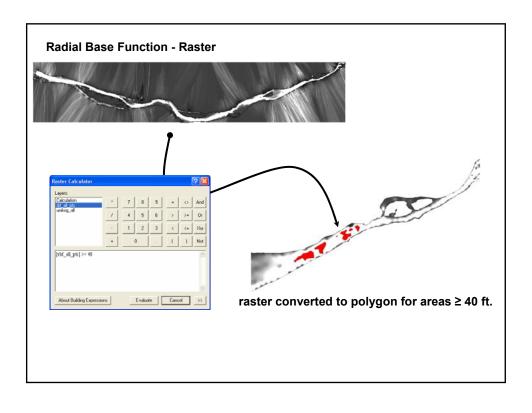


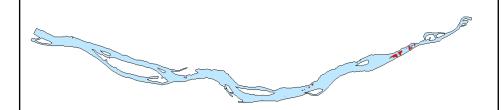






2. Create surface estimating depth <<<<u>DONE</u>>>>





Area determined in Step 1 – Area determined in Step 2 = Area Step 3

Or

 $752,101,588.638227 - 8,667,039.672320 = 743,434,548.965907 \text{ ft}^2$

Or

17,066.84057 acres

Conclusions

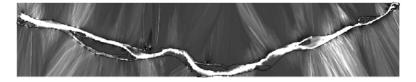
1. Define surface areas...relatively simple with geodatabase

Acreage of test area from below Bonneville to I5 Bridge = <u>17265.81 Acres</u>

<u>Limitations:</u> Polygons created at what water level...10 year mean? ...annual mean? Not certain on the evolution of the polygons. Metadata not available!!??!!

Conclusions...cont.

2. Create surface estimating depth...more complex and time consuming but feasible.



Limitations: Second generation data. Where is the point that the label represents?

Cell size/resolution

Explore kriging in greater detail for statistical validity

Conclusions...cont.

3. Select areas by depth and recalculate area...

Acreage of test area from below Bonneville to I5 Bridge minus areas with depths ≥ 40 ft. =

17,066.84057 acres.

