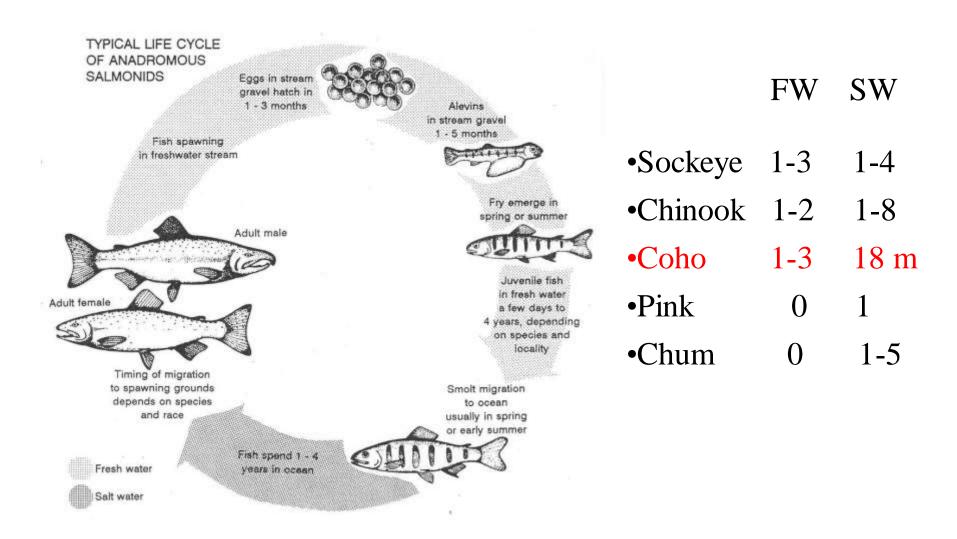


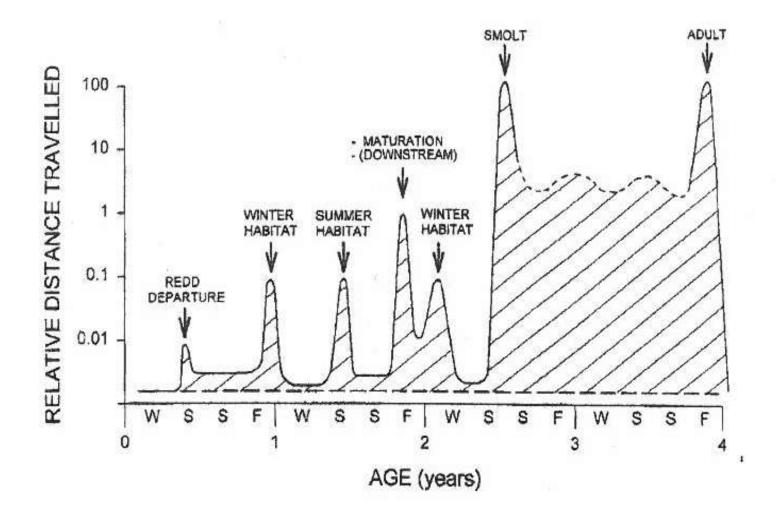
Juvenile Coho Salmon Overwintering Habitat in Blodgett Lake, Alaska



Jon Gerken
Anchorage Fish and Wildlife Field Office

Pacific Salmon Life History



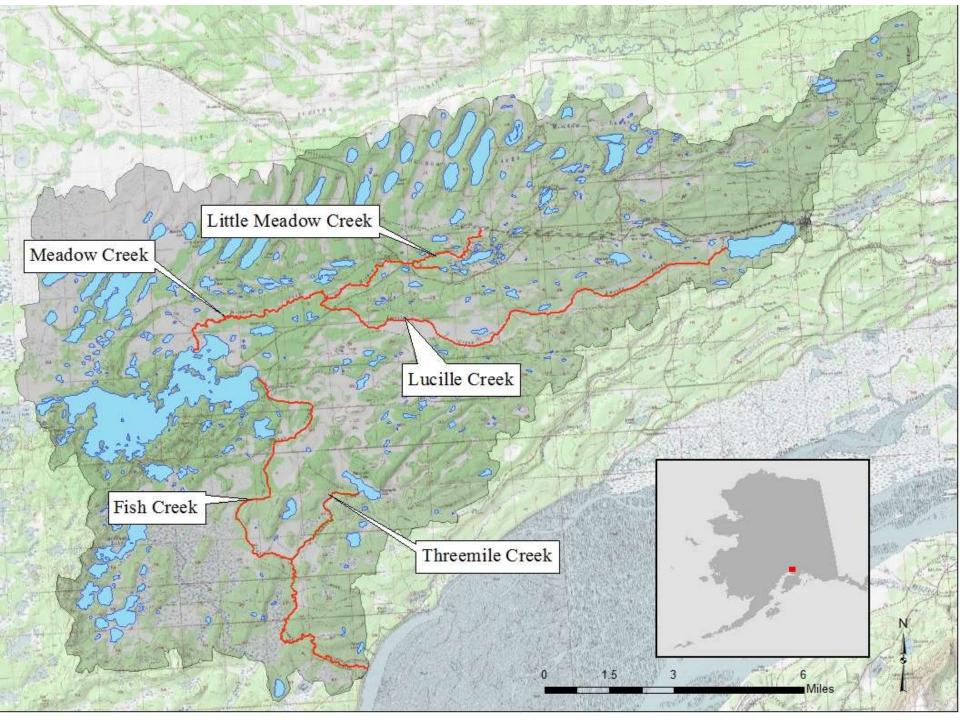


McCormick, S.D., L.P. Hansen, T.P. Quinn, and R.L. Saunders. 1998. Movement, migration, and smolting of Atlantic salmon (Salmo salar). Canadian Journal of Fisheries and Aquatic Science. 55(Suppl.1).



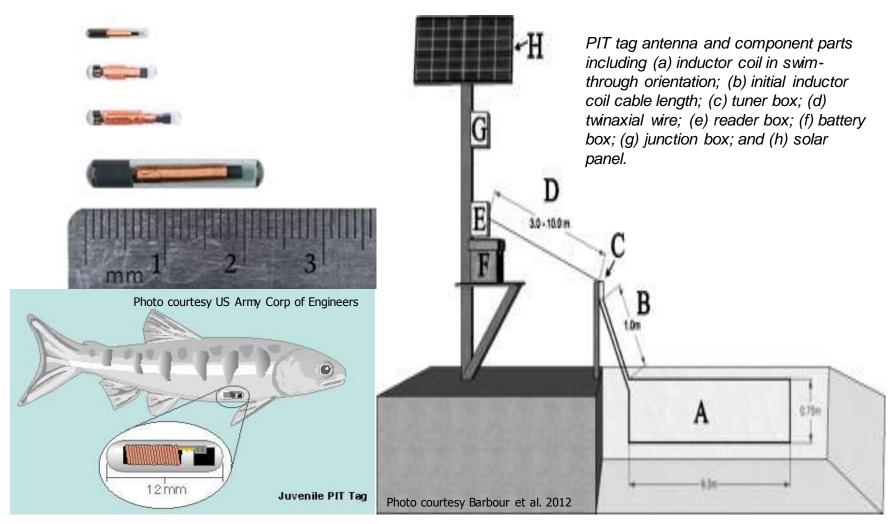
...where every day is an adventure



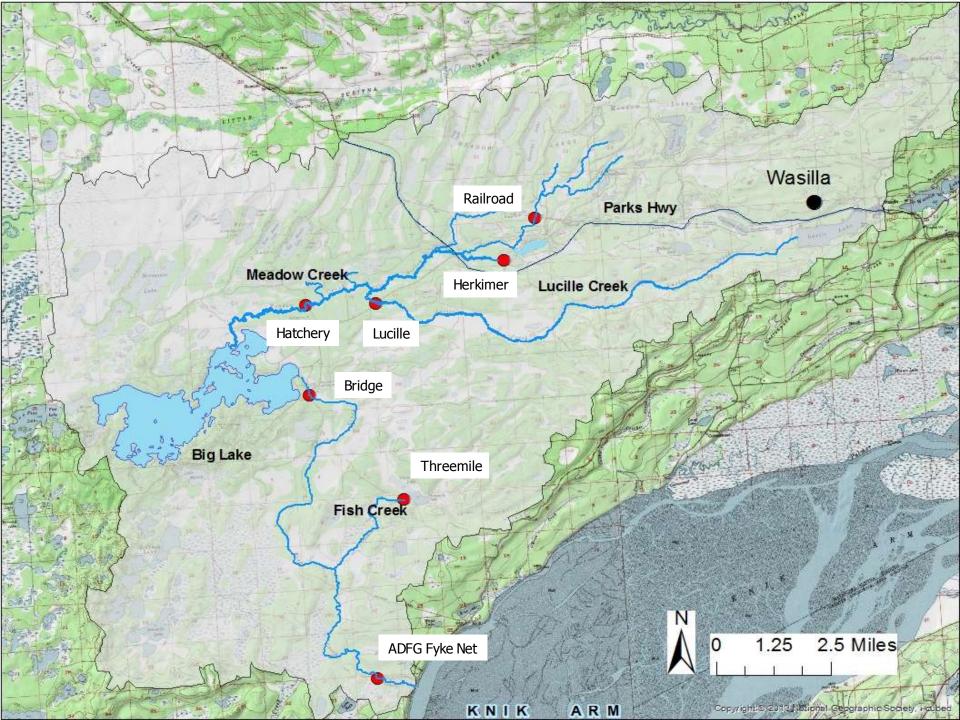


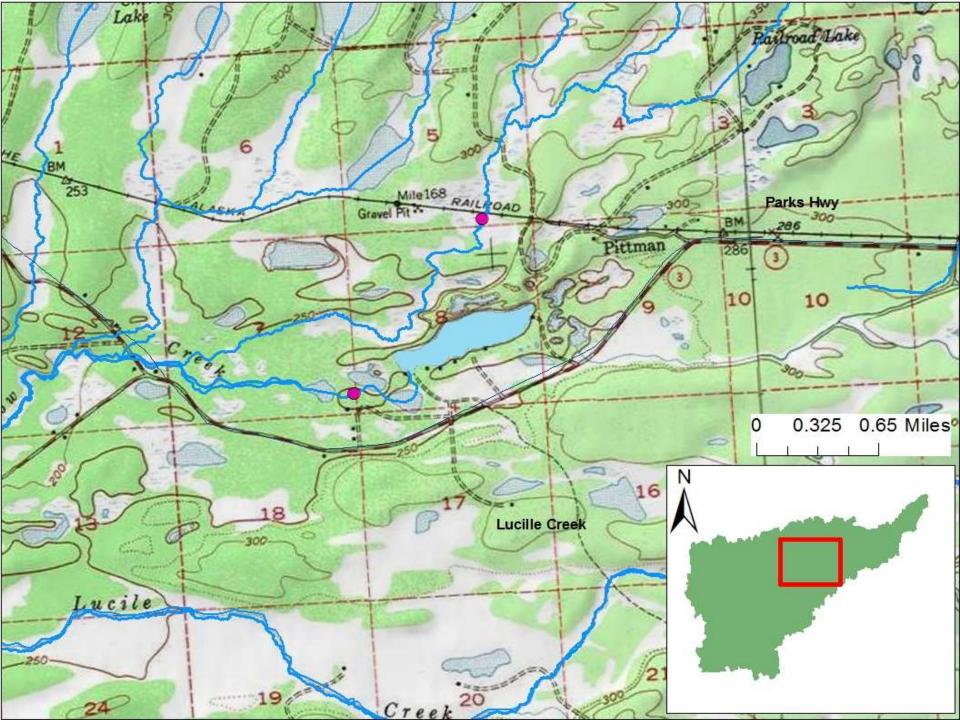


Methods



Barbour, A.B, A.J. Adams, T. Yess, D.C. Behringer, R. Kirby Wolfe. 2012. Comparison and cost-benefit analysis of PIT tag antennae resighting and seine-net recapture techniques for survival analysis of an estuarine-dependent fish. Fisheries Research, 120-121:153-160.





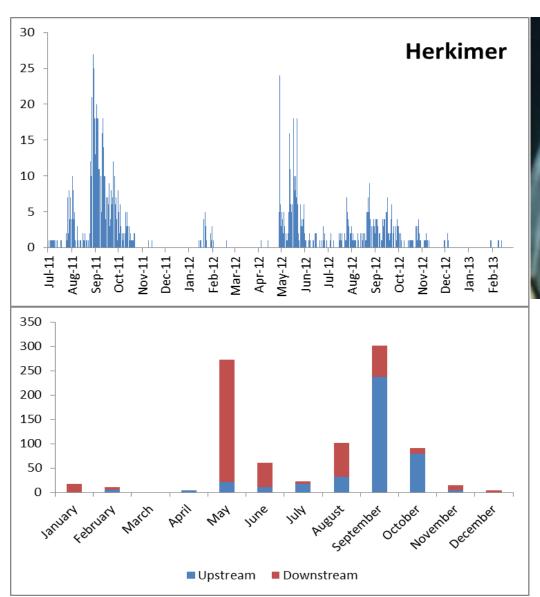
Results – Herkimer Population

- Meadow Creek
 - -2011 = 2,295 tags
 - -2012 = 1,362 tags
- Total tags 3,657
- Total tags in watershed = 6,295

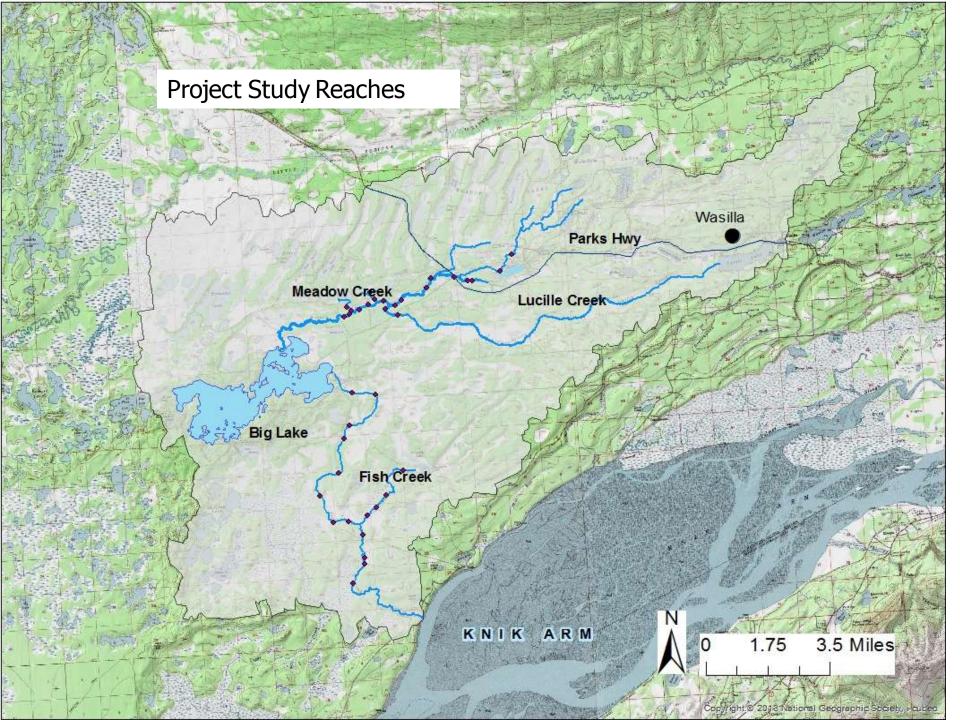
- Herkimer
 - -2011 = 356 tags
 - -2012 = 356 tags
 - -2013 = 138 tags
- Total tags from Meadow
 Creek = 850 (23%)
- Total tags from watershed = 850 (14%)
- Number of smolting fish= 170

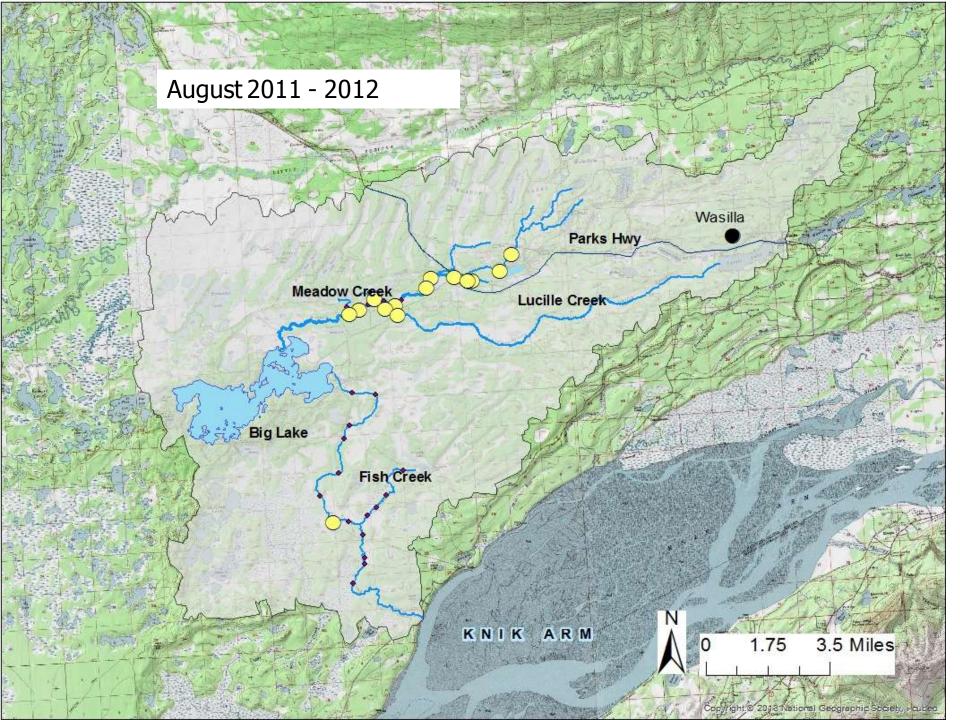


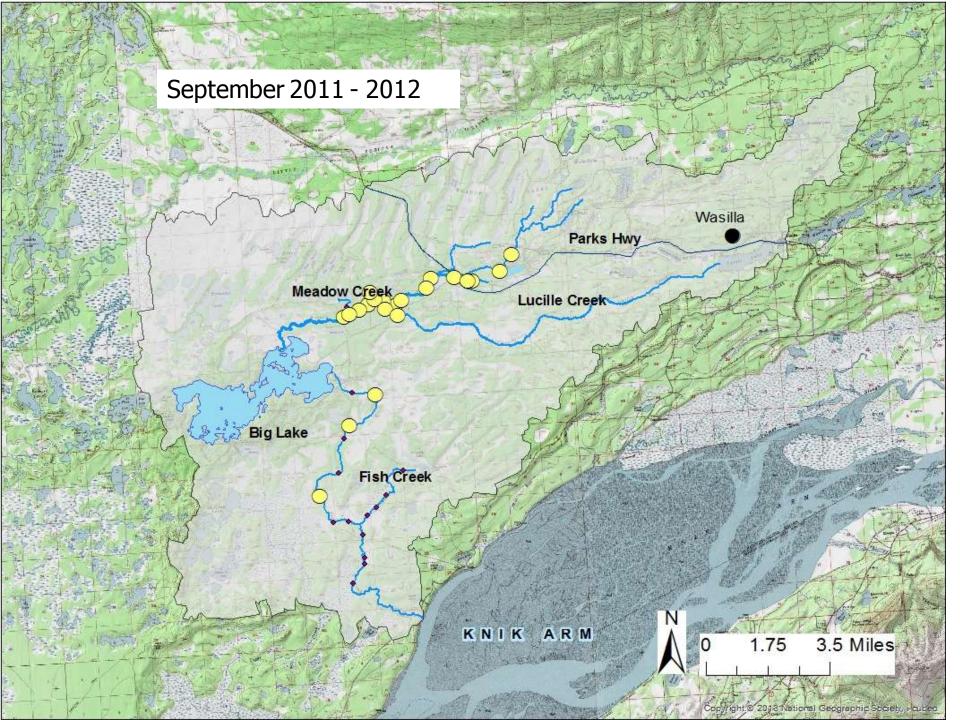
Results – Herkimer Array Detection

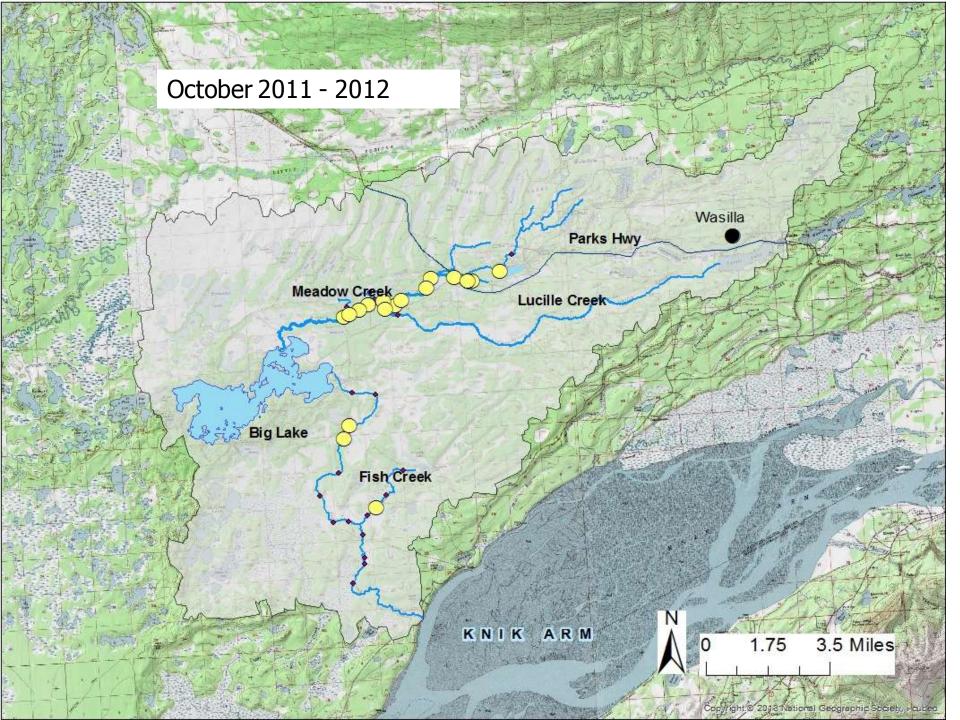


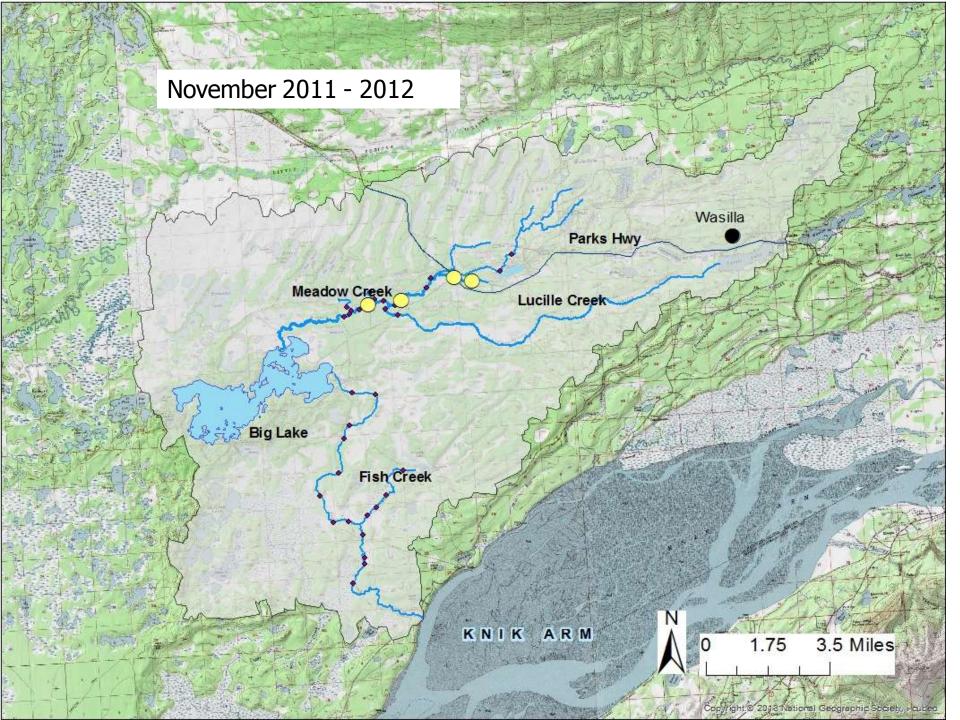










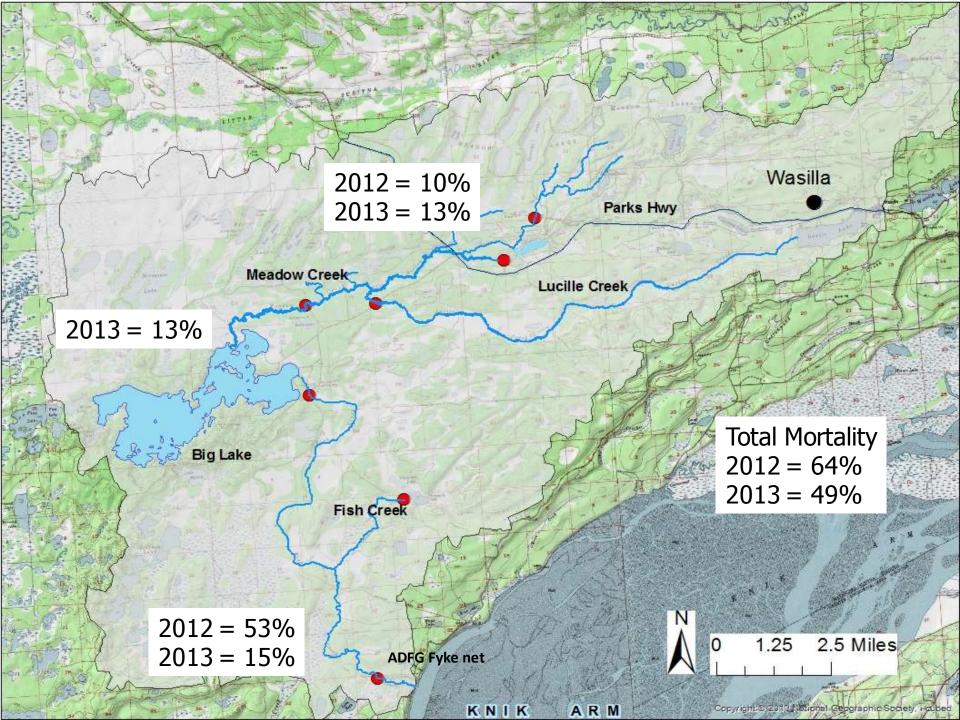




Results - Downstream movement

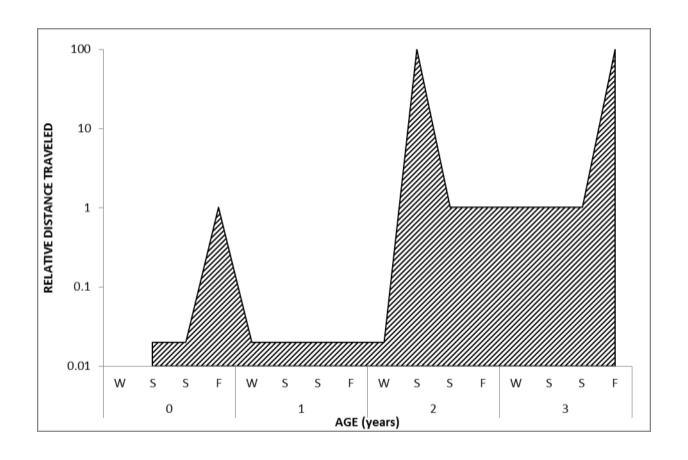
- Distance from Herkimer to ADFG fyke net = 40 rkm.
- Avg downstream migration rate = 2.8 rkm/day.







Herkimer Migration Life History





Results compared – Herkimer

		2012		
Location	Distance	Mortality Rate	Avg smolt length	Avg smolt wt
Herkimer	40 rkm	64%	127 mm	20 g
Railroad	42 rkm	59%	138 mm	26 g
Lucille	34 rkm	67%	135 mm	25 g





Conclusions

- Juvenile coho salmon can exhibit extensive movements.
- Mortality is variable between years
- Lakes have value for overwintering but don't have equal value





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