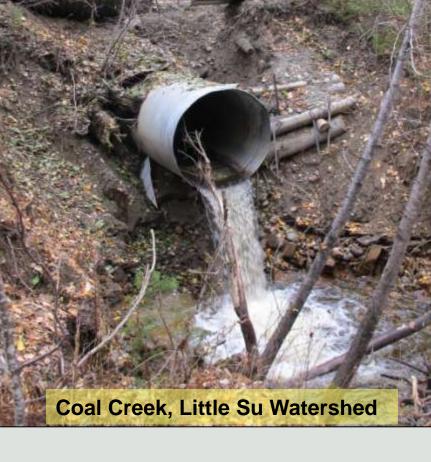
Mat-Su Fish Passage Program: Policy and Practice



Bill Rice, PE Hydrologist U.S. Fish and Wildlife Service

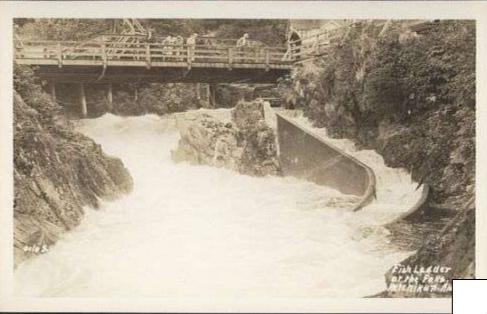


Connecting Habitats

Connecting Communities



Authorities



<u>State</u>

Fishway Act '841' Anadromous Fish Act '871'

Federal

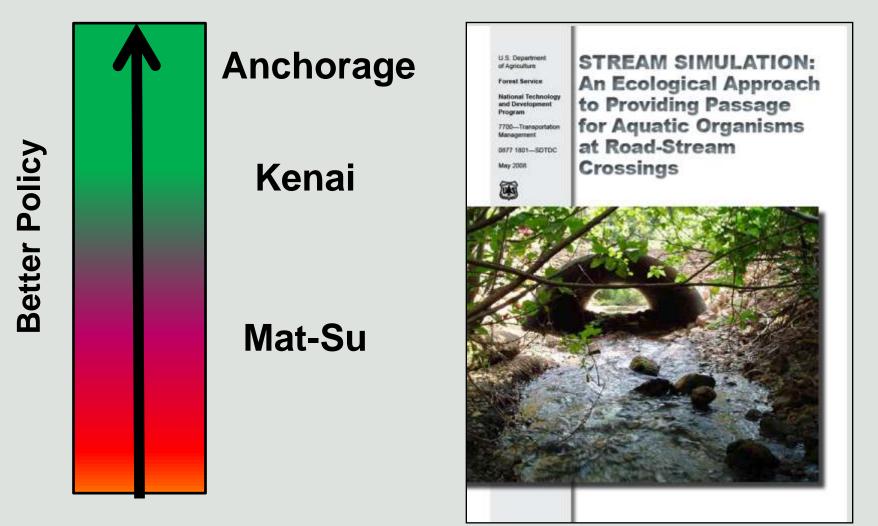
- Section 404 Clean Water Act ('Waters of the U.S').
- Section 10 of Rivers and Harbors Act ('Navigable waters').



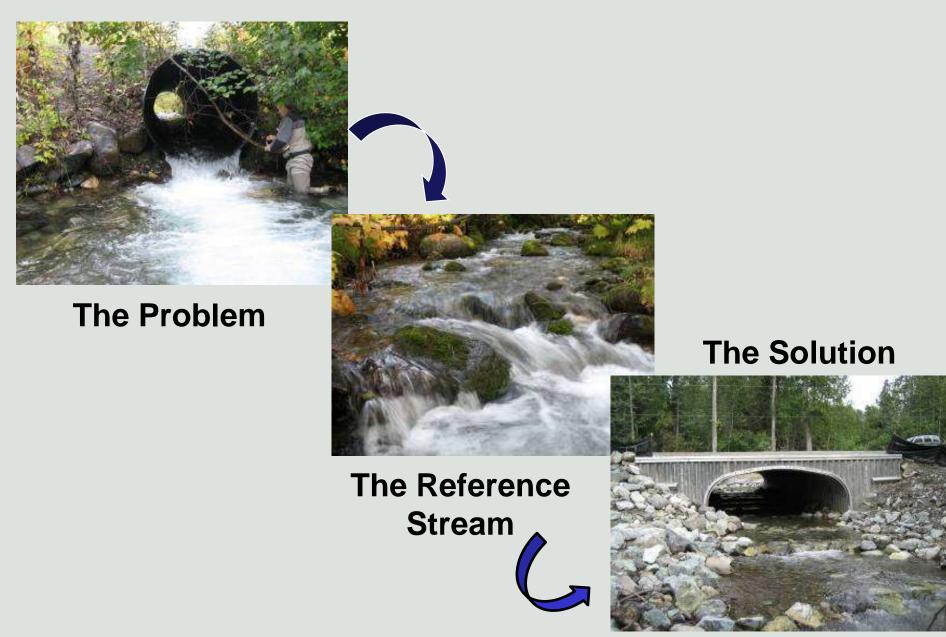
Property of MSCUA, University of Washington Libraries. Photo Coll 247

Policies

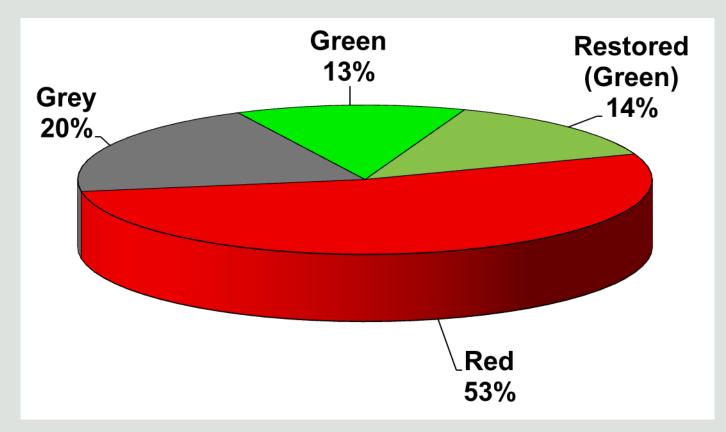
Statewide Fish Passage MOA Between ADFG and DOT



Stream Simulation Design

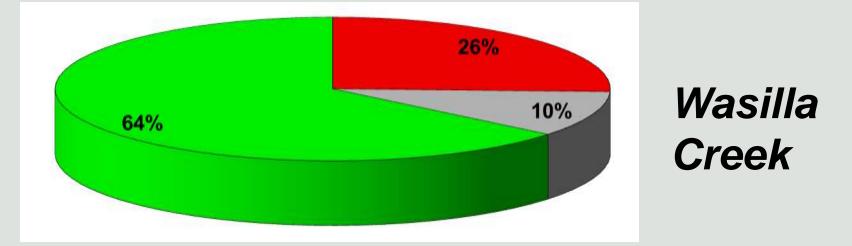


Mat-Su Assessment



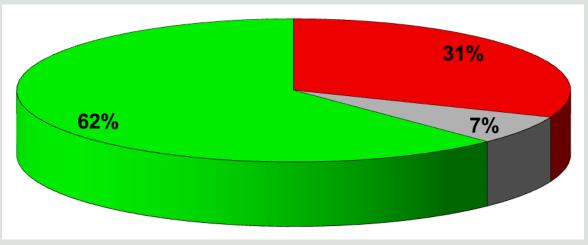
587 Culverts (81 Restored)

Some Restoration Efforts



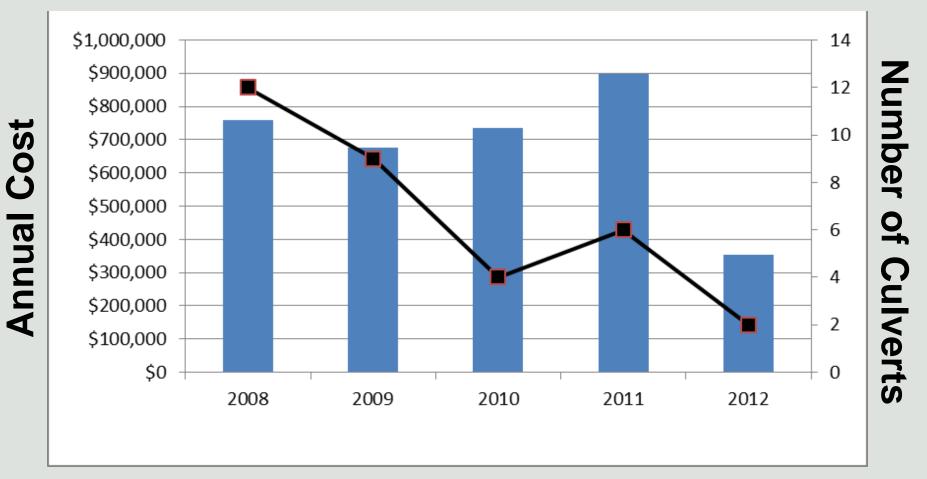
\$2.2 million (18 projects) N=39

Little Su



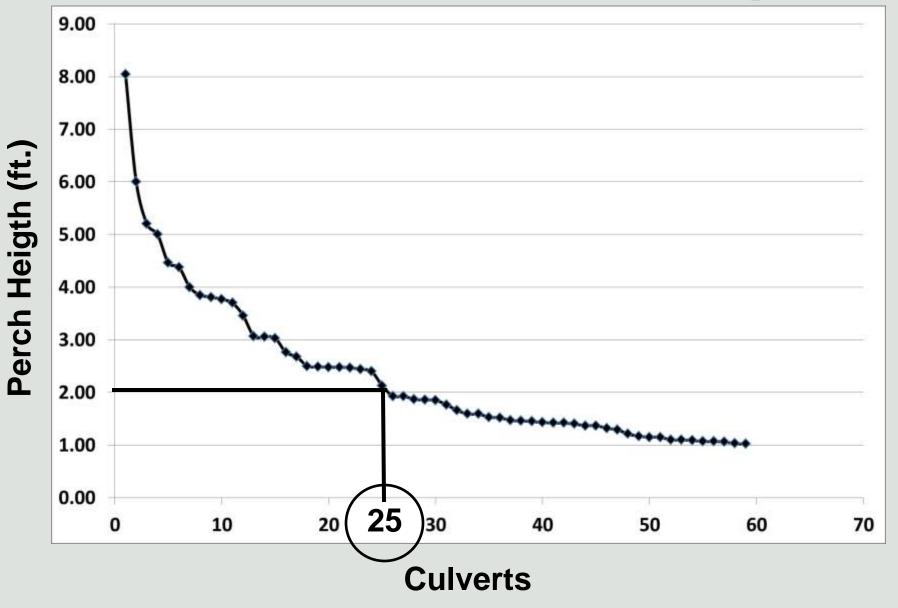
\$2 million (22 projects) N=61

Past Efforts MatSu

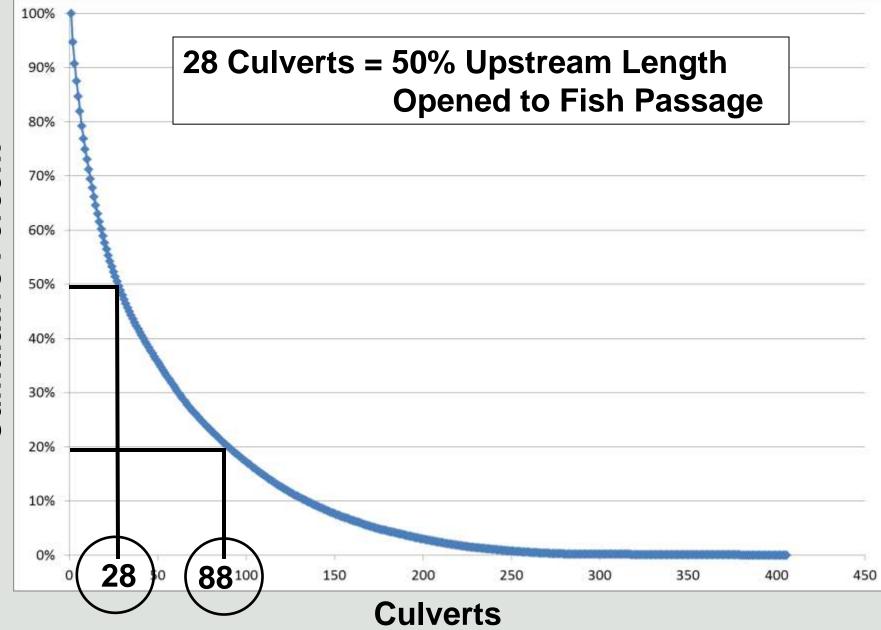


1995-2012 (> \$6 million)

Future Efforts Perched Pipes



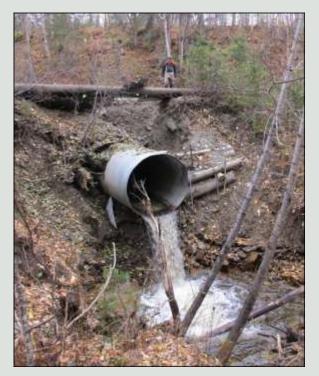
Future Efforts Upstream Miles



Cumulative Percent

Future Efforts

\$4.3 million in Total Requests for 2013
Estimated 30 Culverts over 3-4 Years





Proposed for Restoration

Finished Culvert



Shirley Town Bridge, Willow

2012 Floods (provisional)

- >100 year flood
 - Little Su
 - Matanuska and Knik
- <u>50-100 year flood</u>
 - Talkeetna
- 25-50 year flood
 - Montana Creek
 - Wasilla Creek



Mile 5.5 on Oilwell Road



Results of Flood

Of the 81 Restored Crossings

- Only two had water overtop the road
- No failures
- Some experienced > 100 year flood event
- Some bioengineering impacts

MSB Recovery Taskforce

- Damage Assessment
- Policies
- Funding

