

# **Hydropower System Smolt Survival, 1993-2004**

**TMT**

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**[bill.muir@noaa.gov](mailto:bill.muir@noaa.gov)**

**[steven.g.smith@noaa.gov](mailto:steven.g.smith@noaa.gov)**

**[doug.marsh@noaa.gov](mailto:doug.marsh@noaa.gov)**

**[john.g.williams@noaa.gov](mailto:john.g.williams@noaa.gov)**



# Results for

- Migration conditions during 2004



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- Yearling chinook salmon survival from Snake River Basin hatcheries to LGR



# Results for

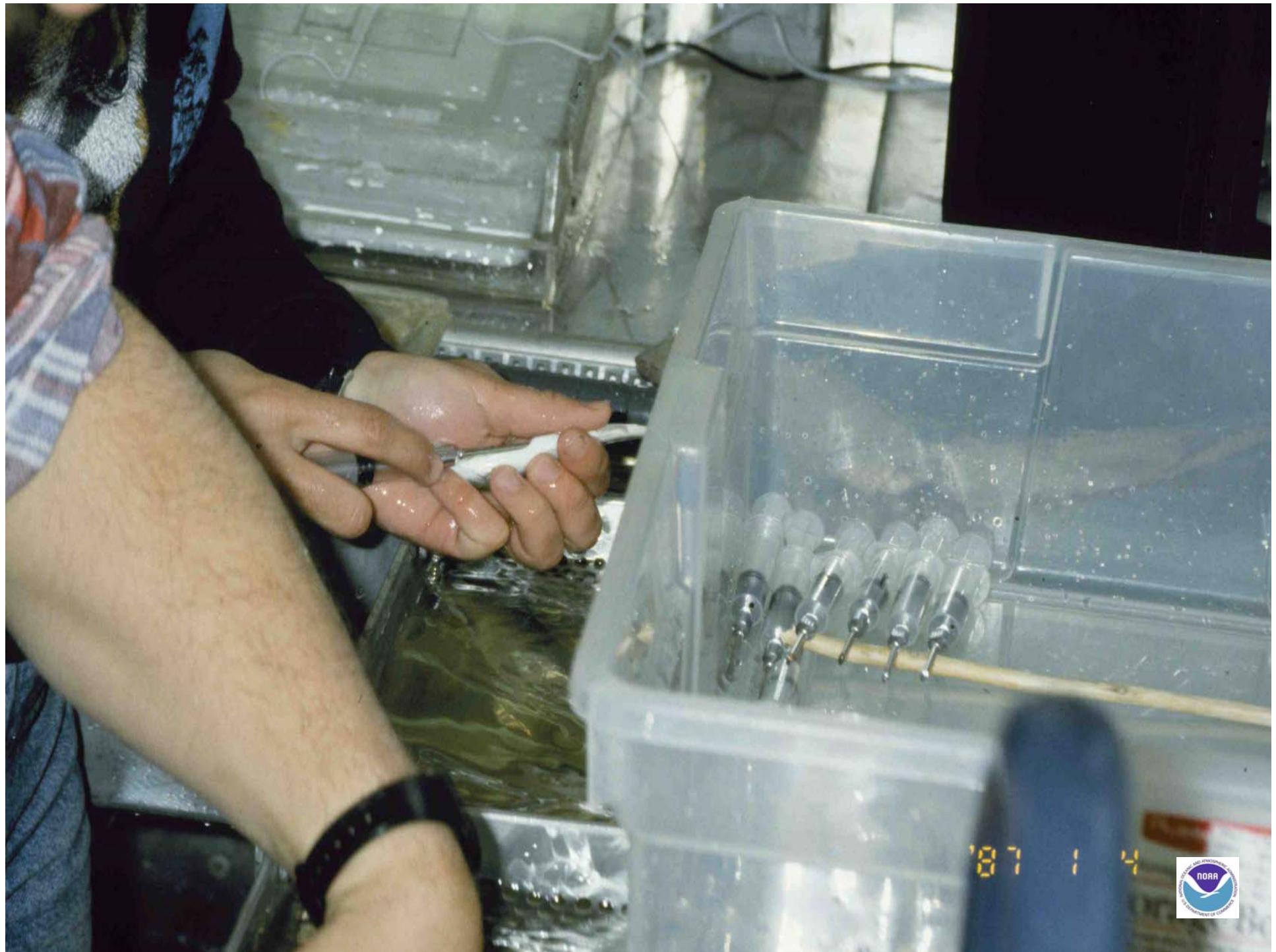
- Migration conditions during 2004
- Yearling chinook salmon survival from Snake River Basin hatcheries to LGR
- Yearling chinook salmon and steelhead survival through individual reaches

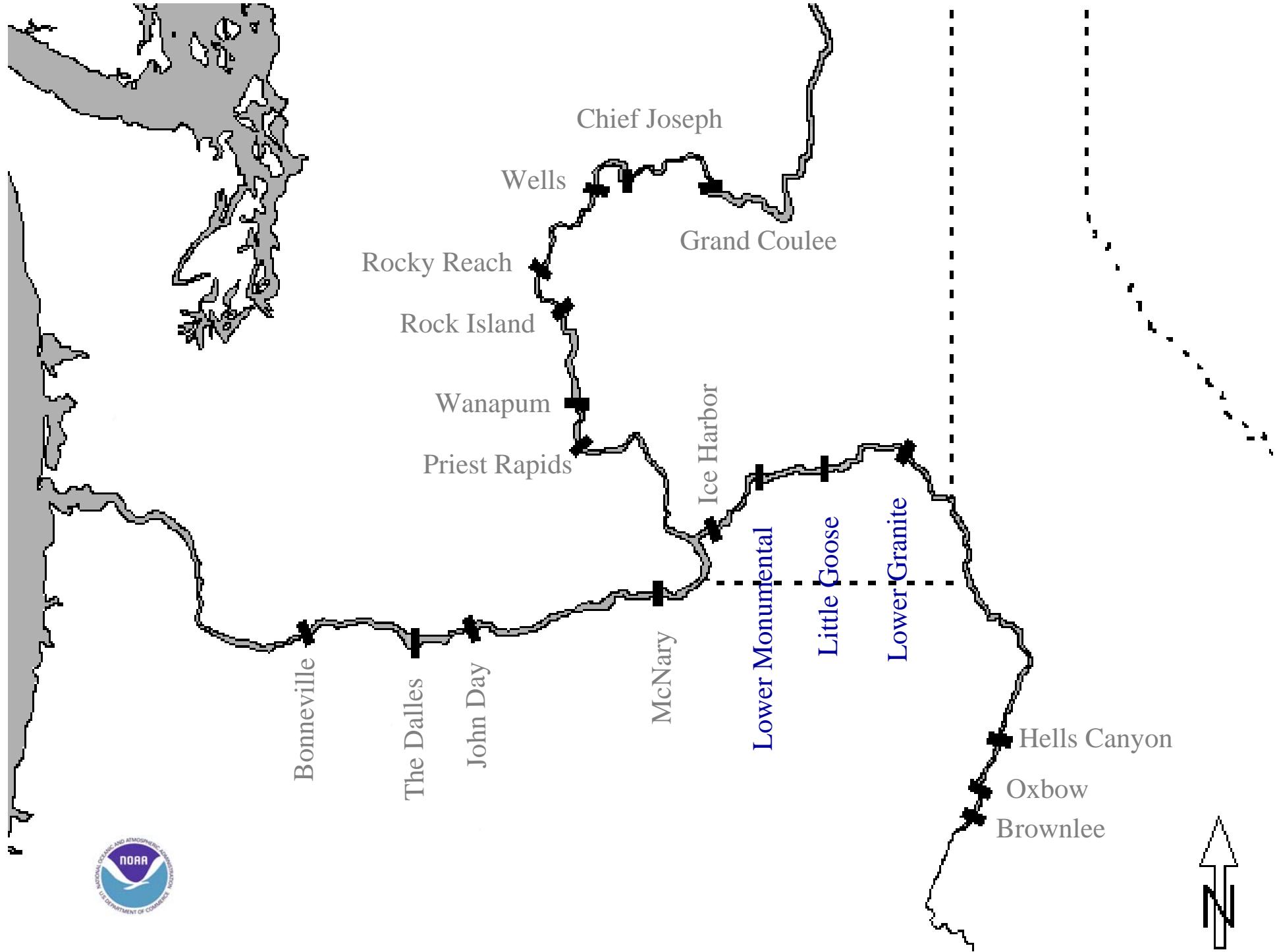


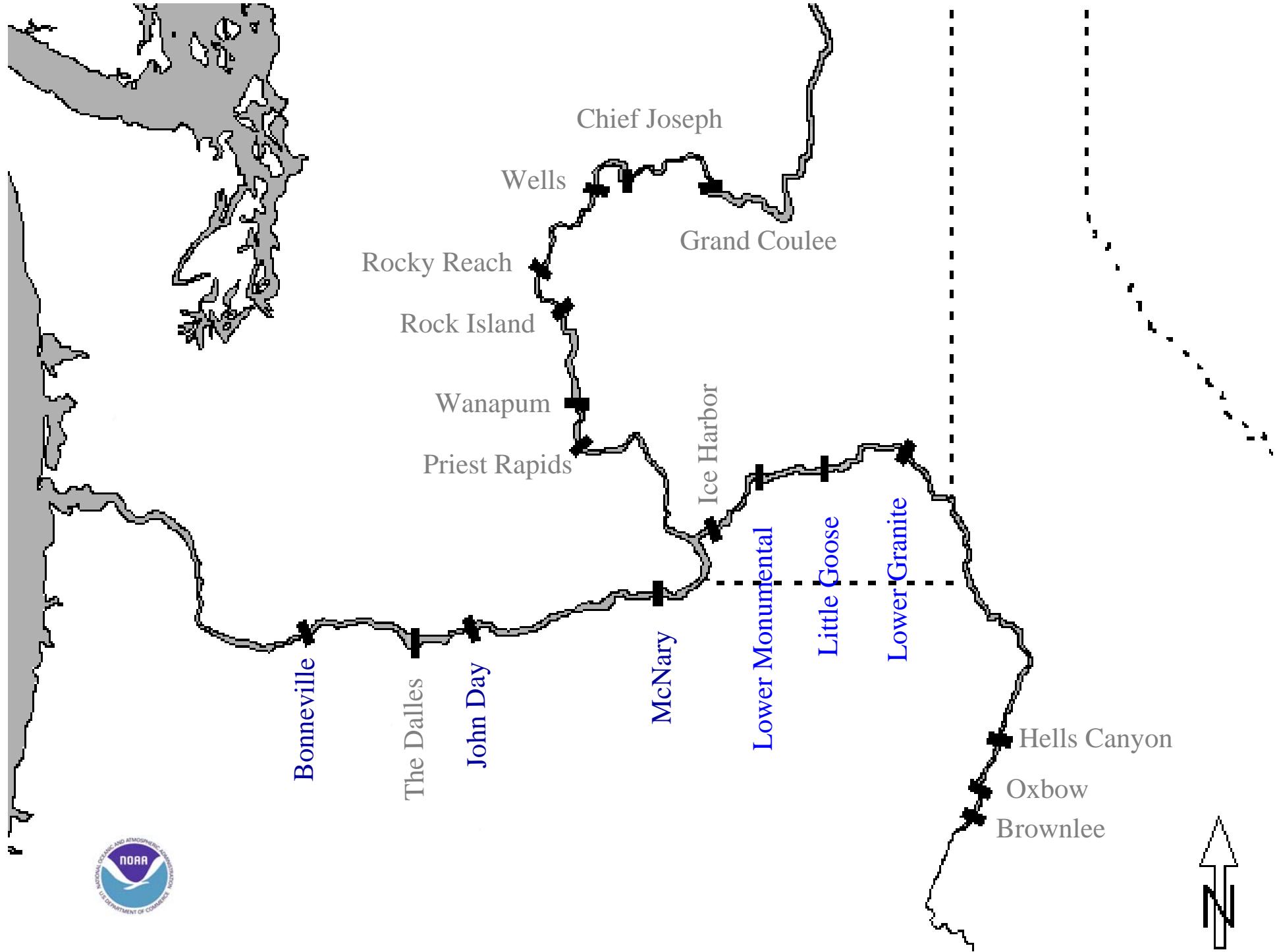
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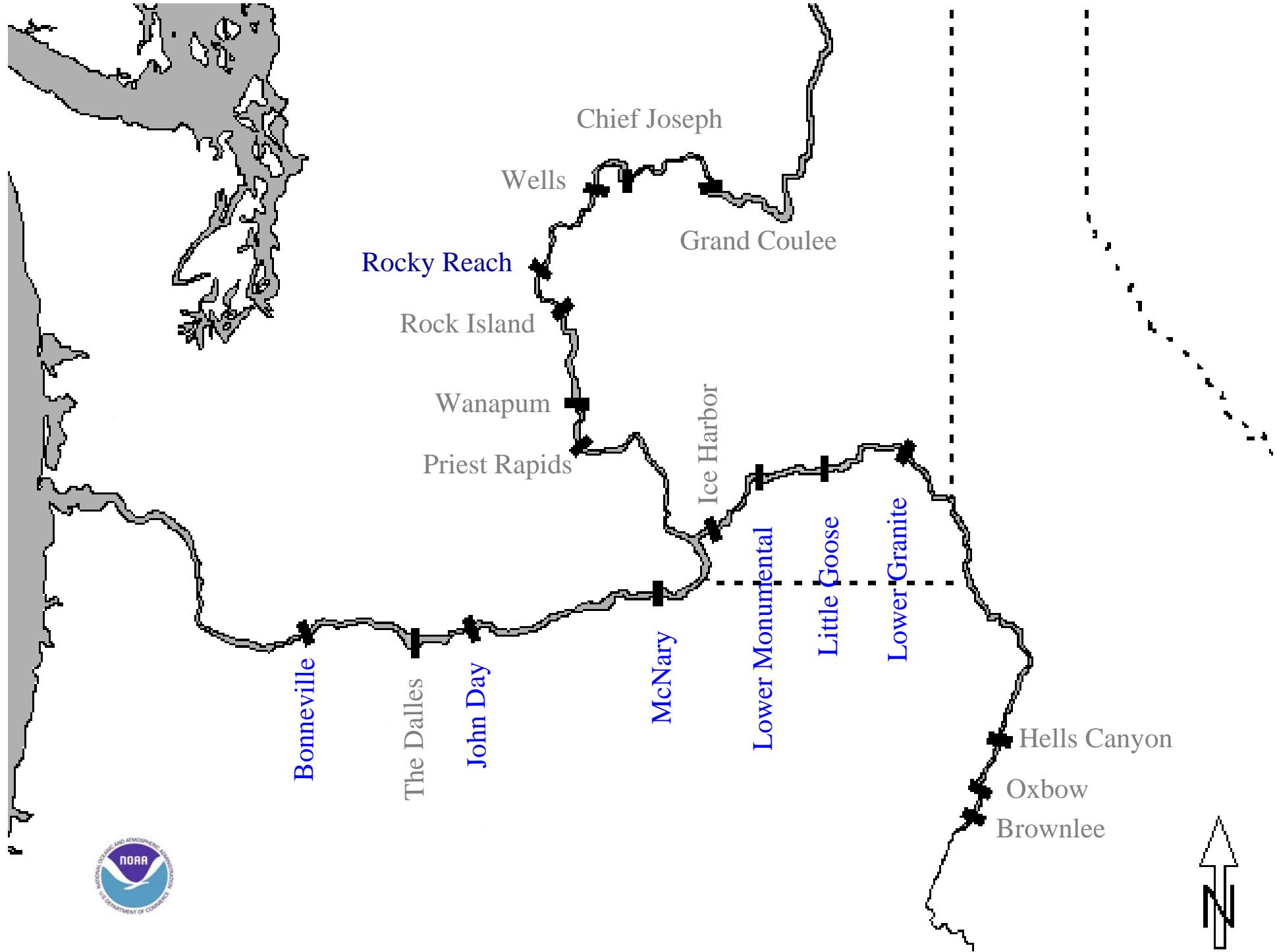
- Migration conditions during 2004
- Yearling chinook salmon survival from Snake River Basin hatcheries to LGR
- Yearling chinook salmon and steelhead survival through individual reaches
- Their survival through the entire hydropower system

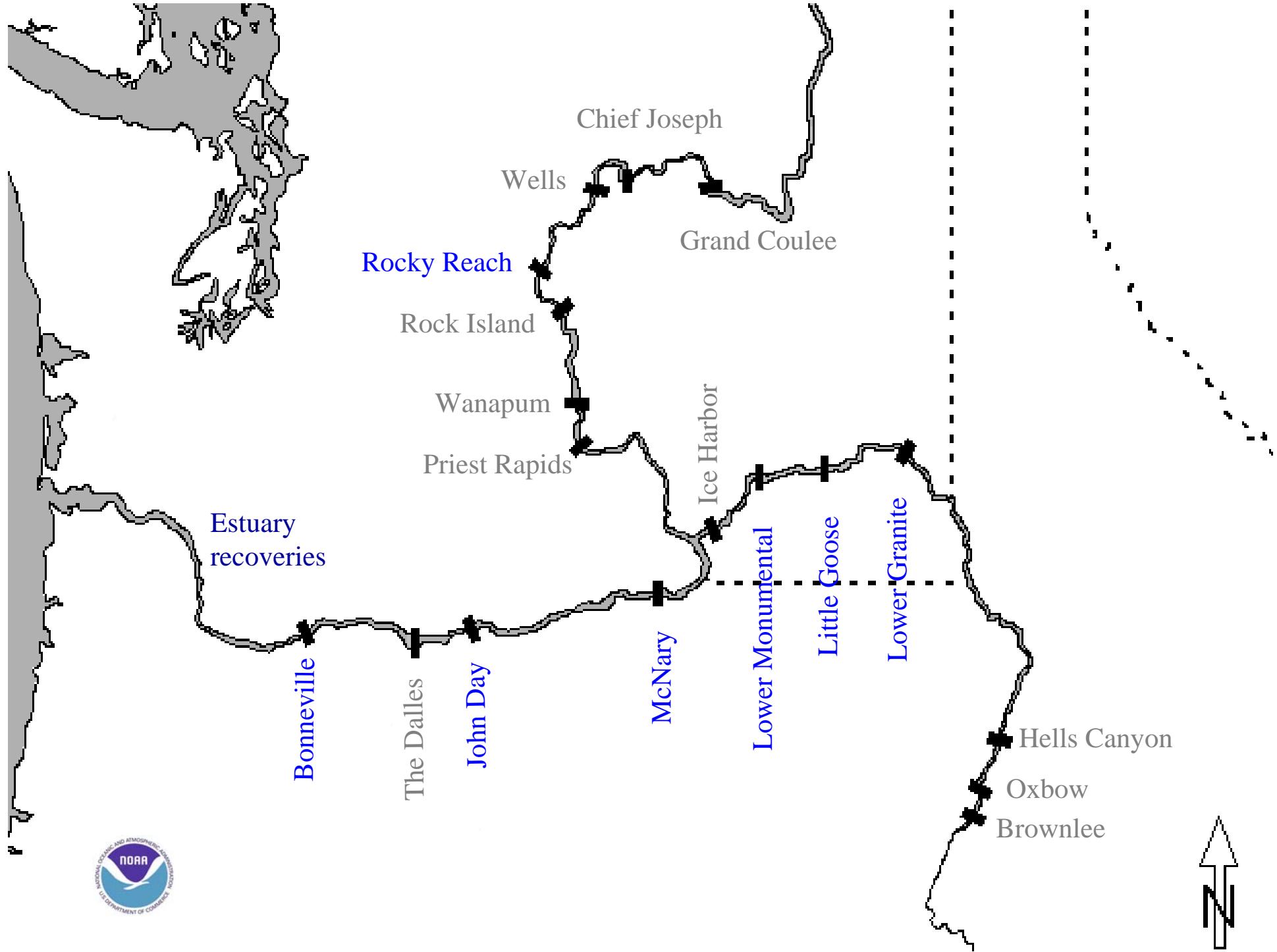






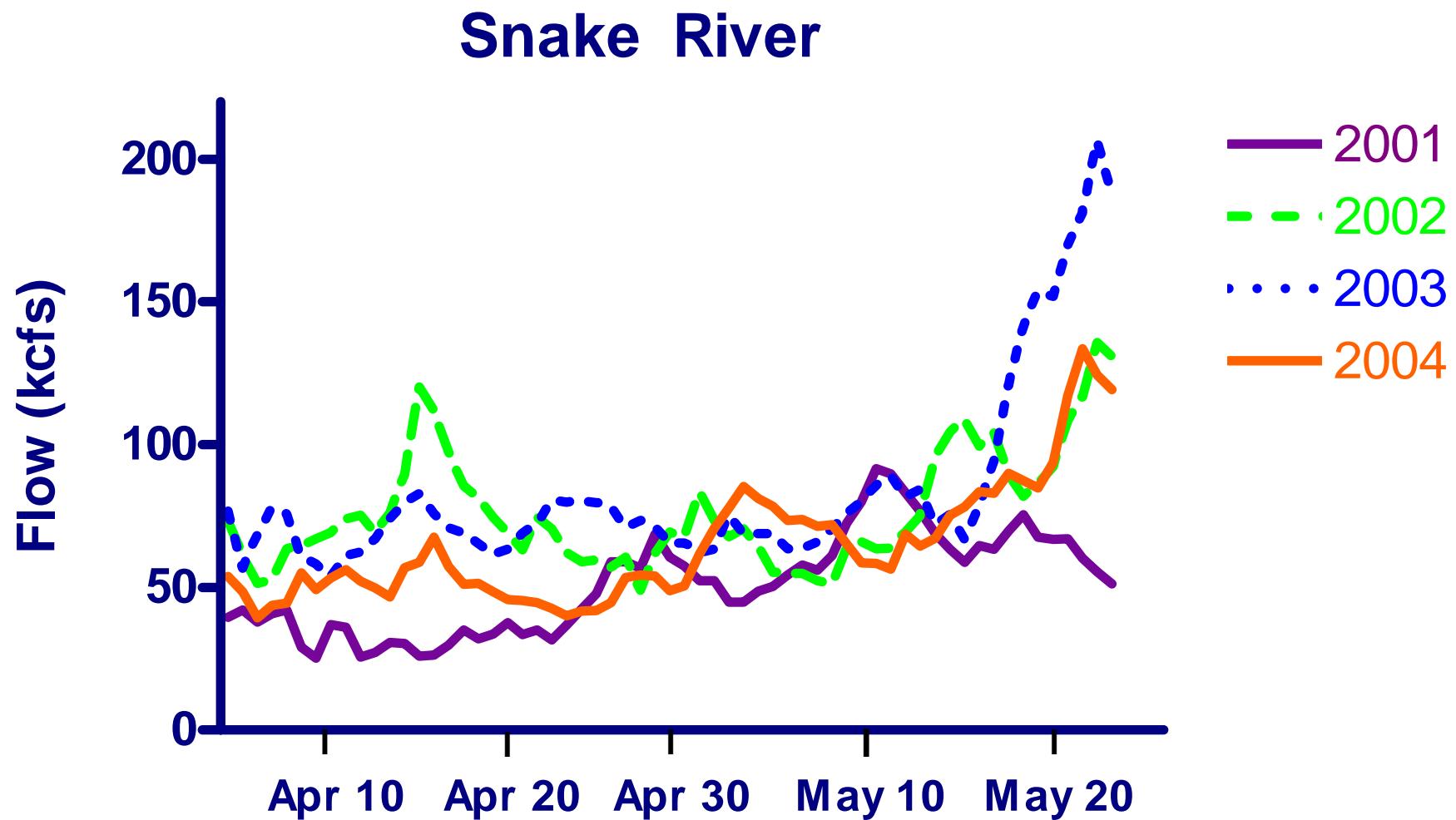








# River conditions



# No spill provided

- Lower Granite and Little Goose – 24 April - end of May
- Lower Monumental – 14 May - end of May

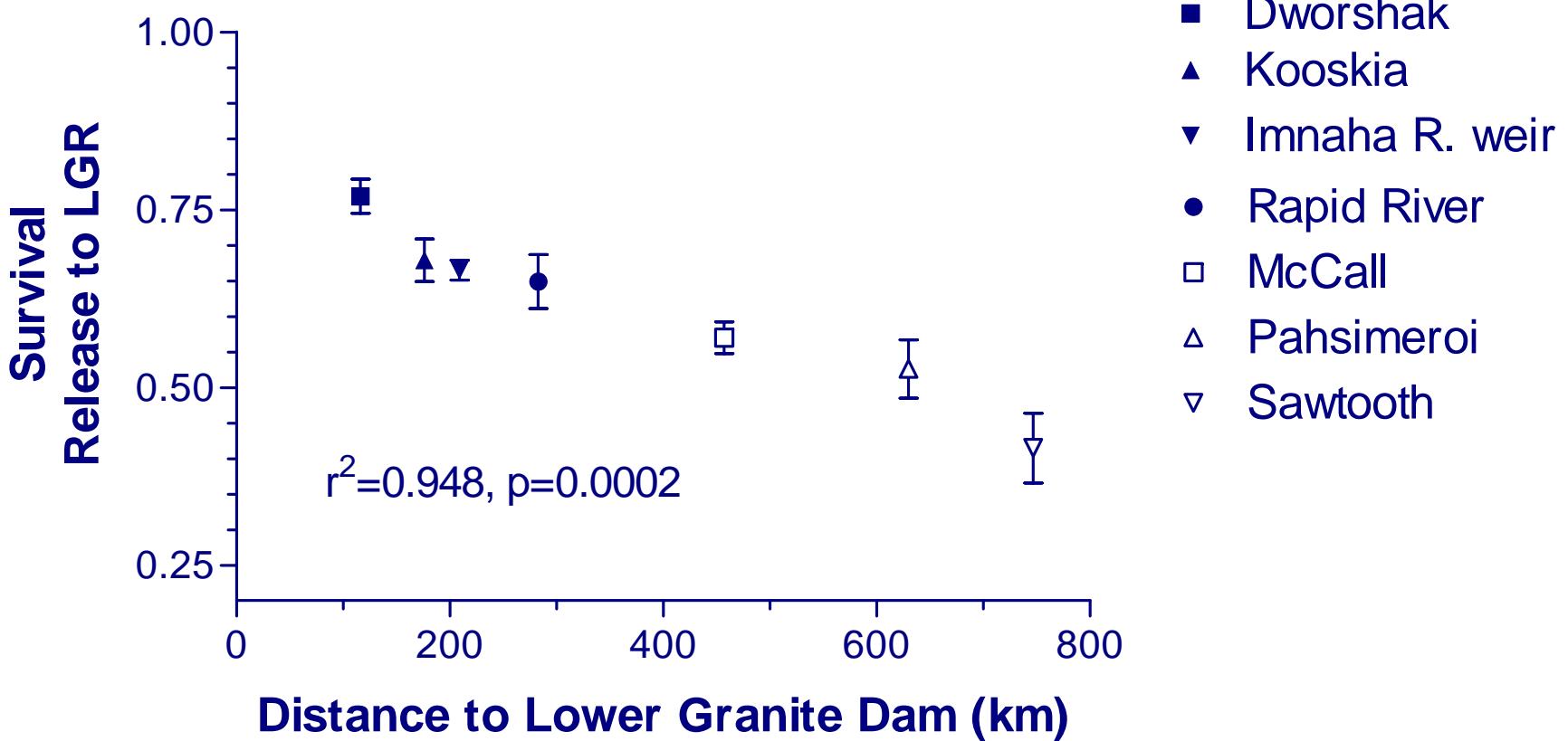
# Transportation maximized

- 91% of non-tagged spring chinook
- 97% of non-tagged steelhead

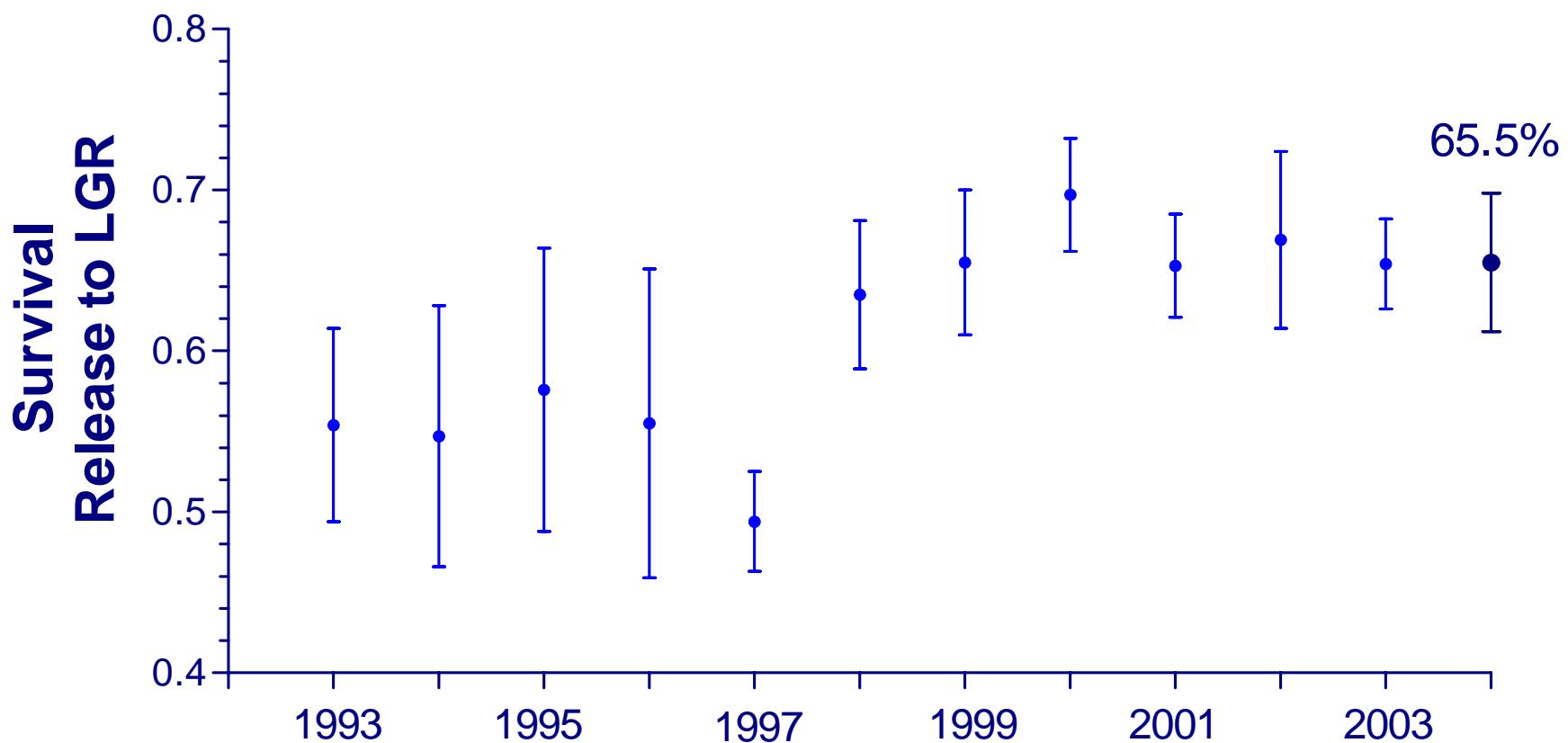


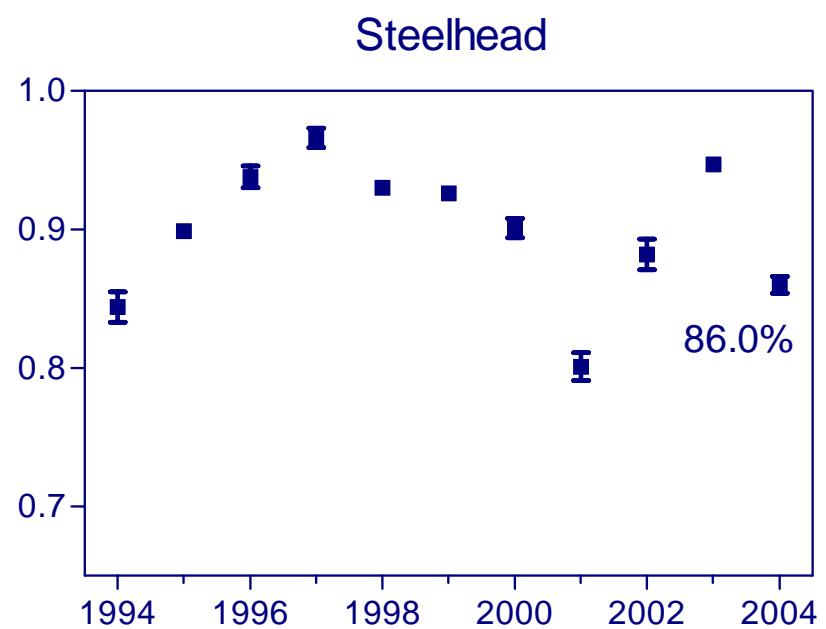
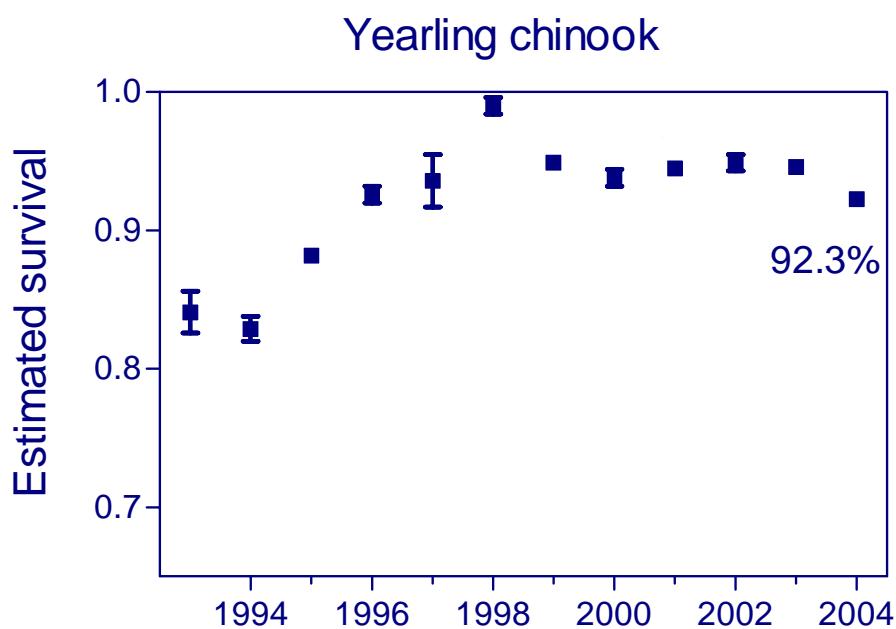
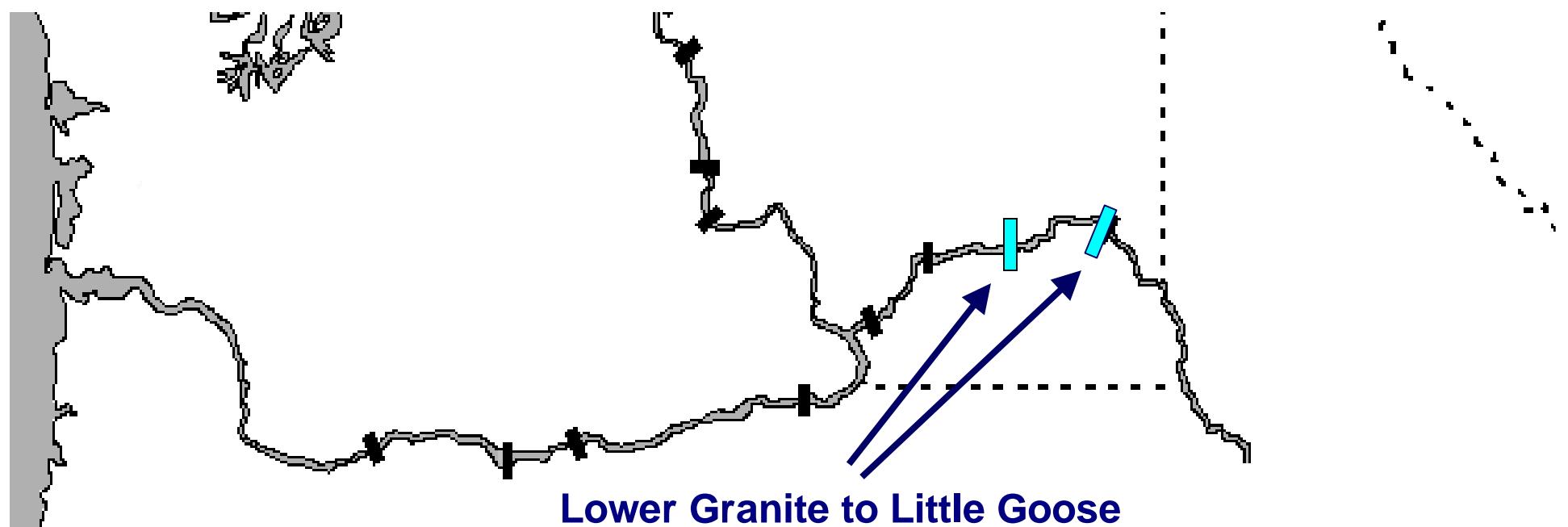


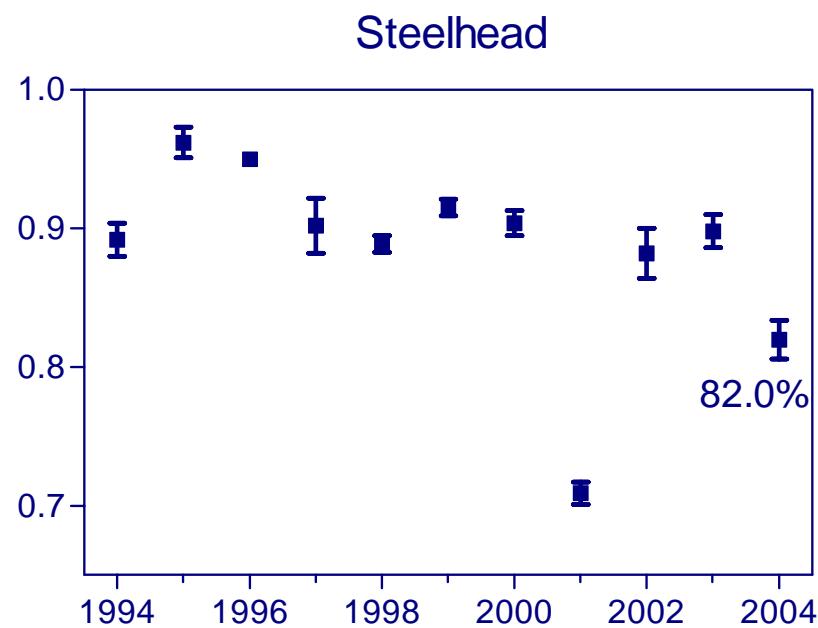
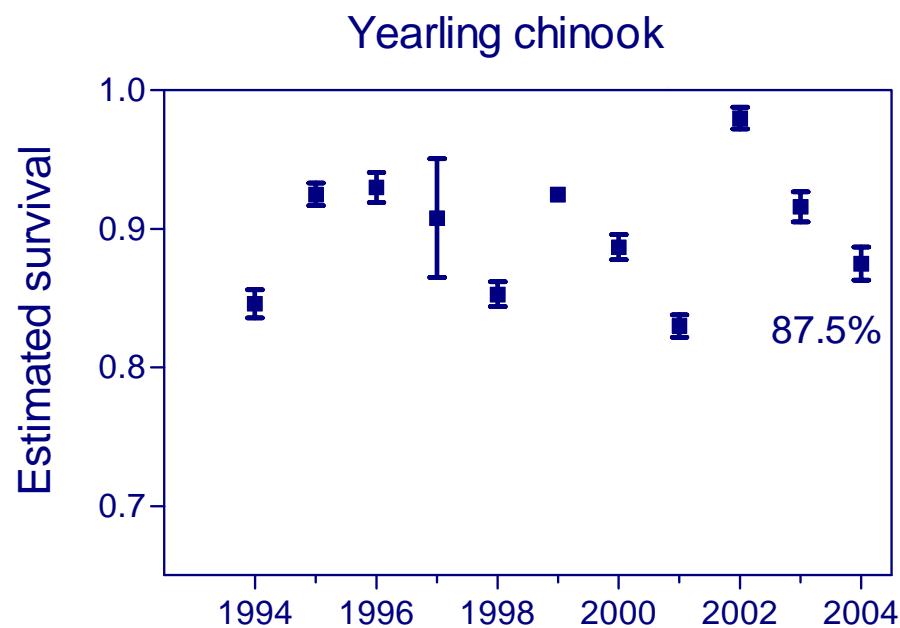
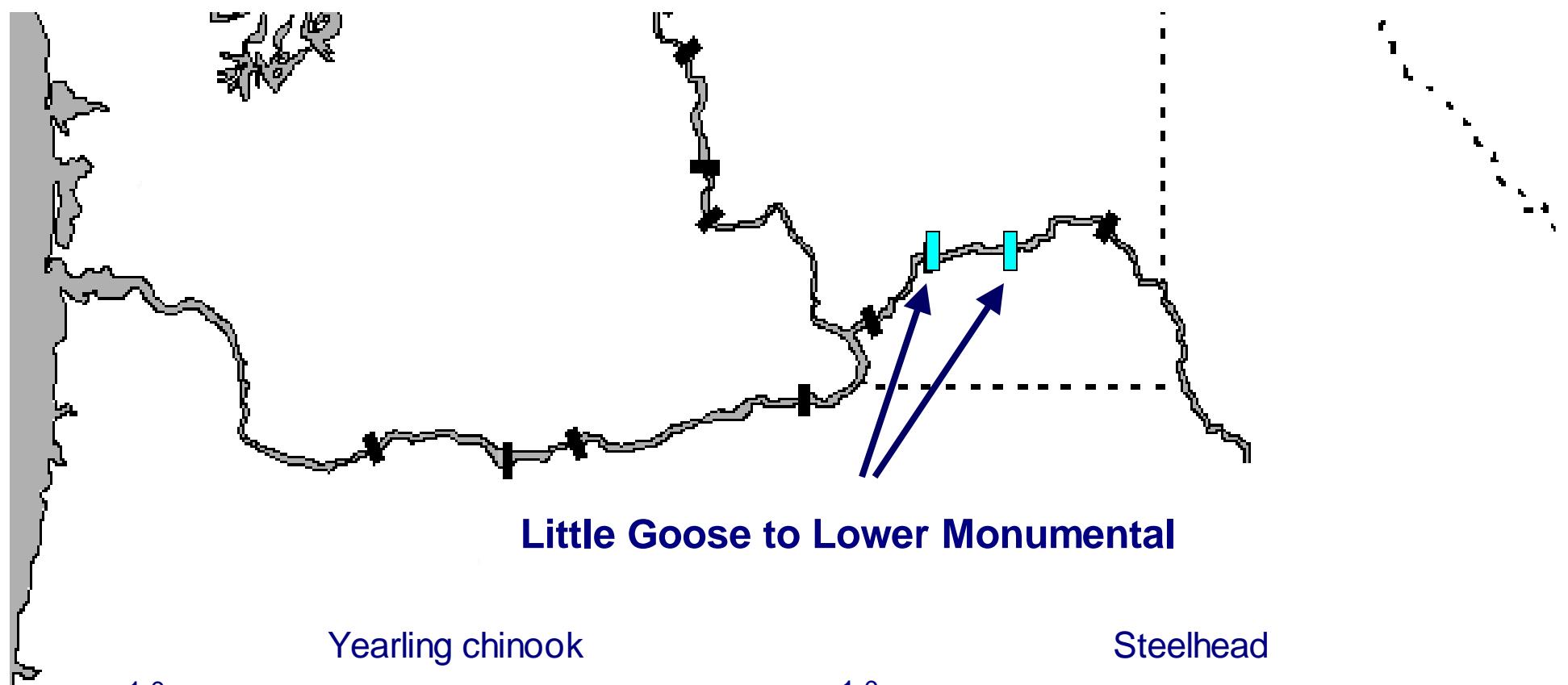
## Hatchery yearling chinook salmon (1993-2004)

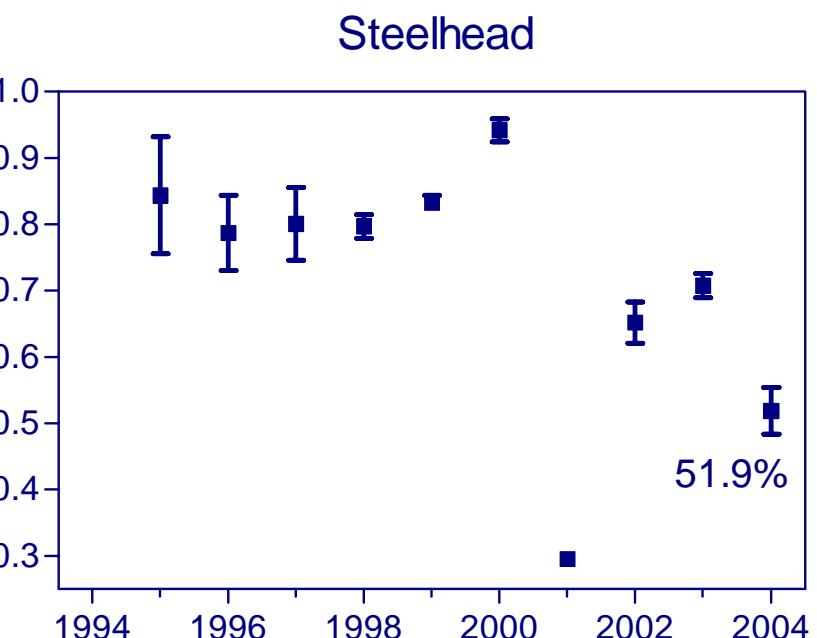
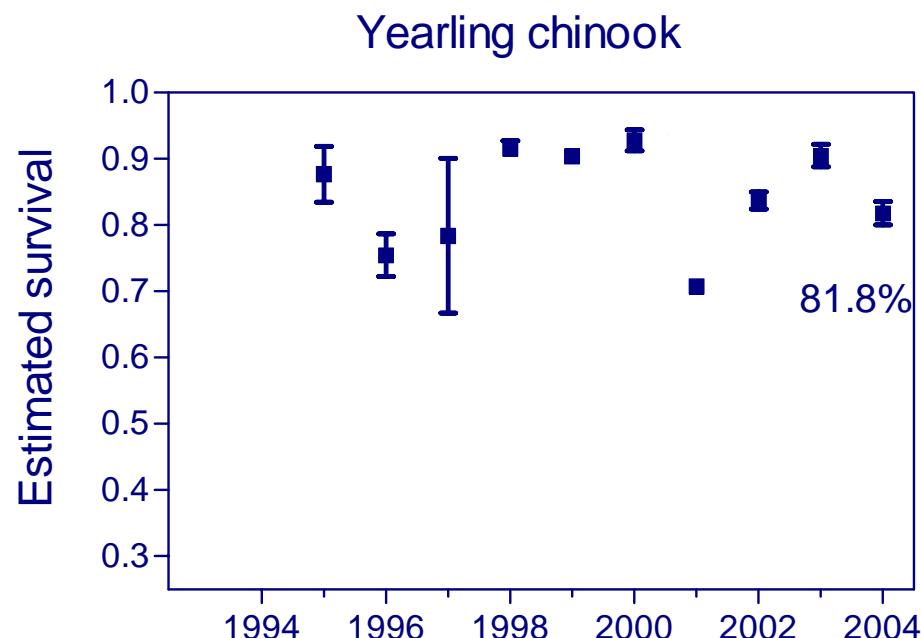
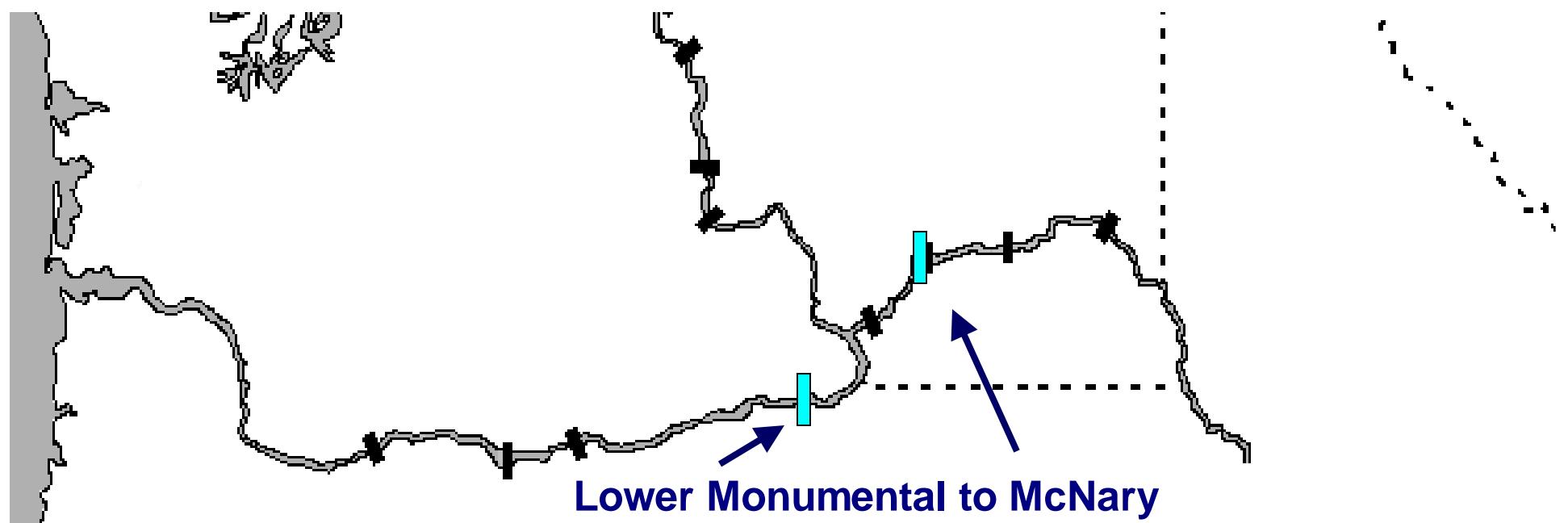


# Yearling chinook salmon All Snake River Basin hatcheries combined

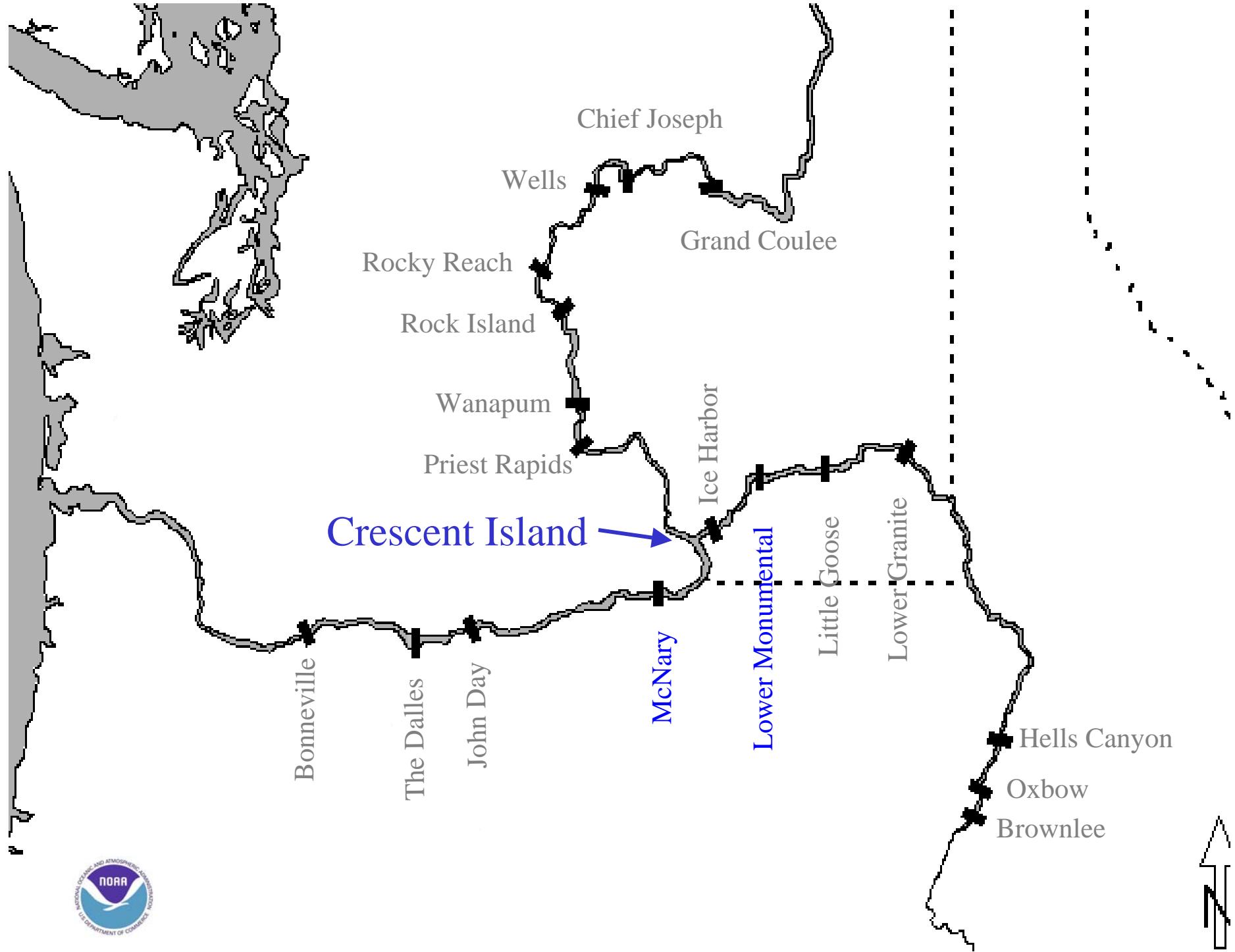










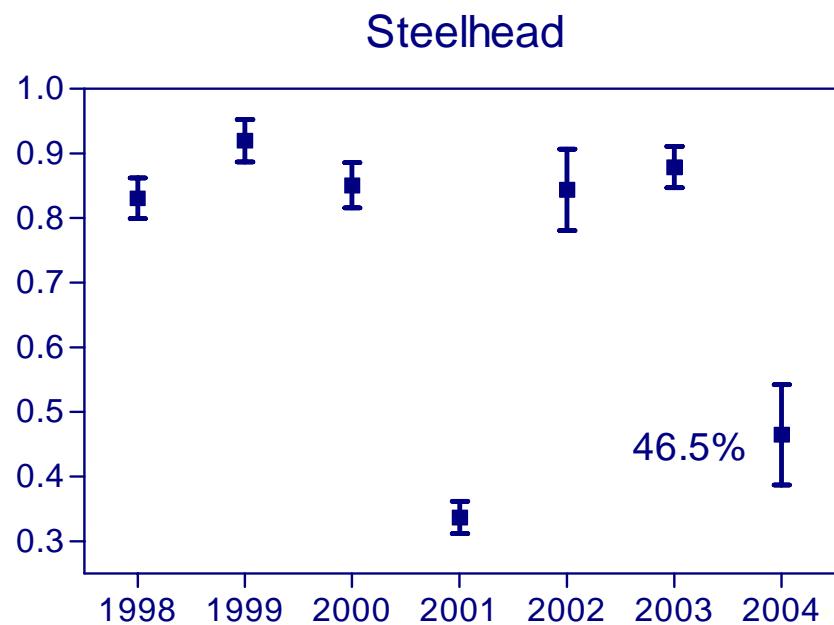
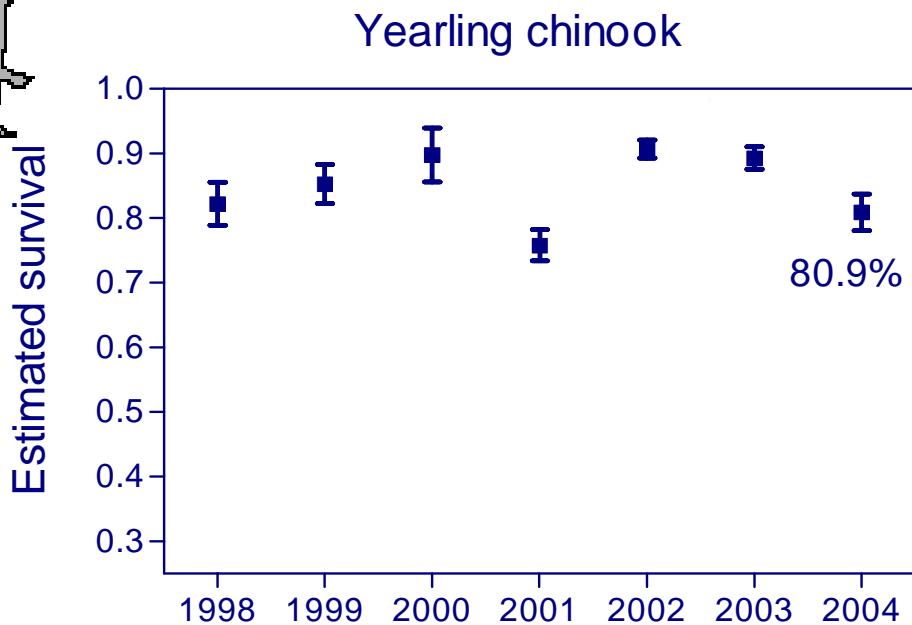
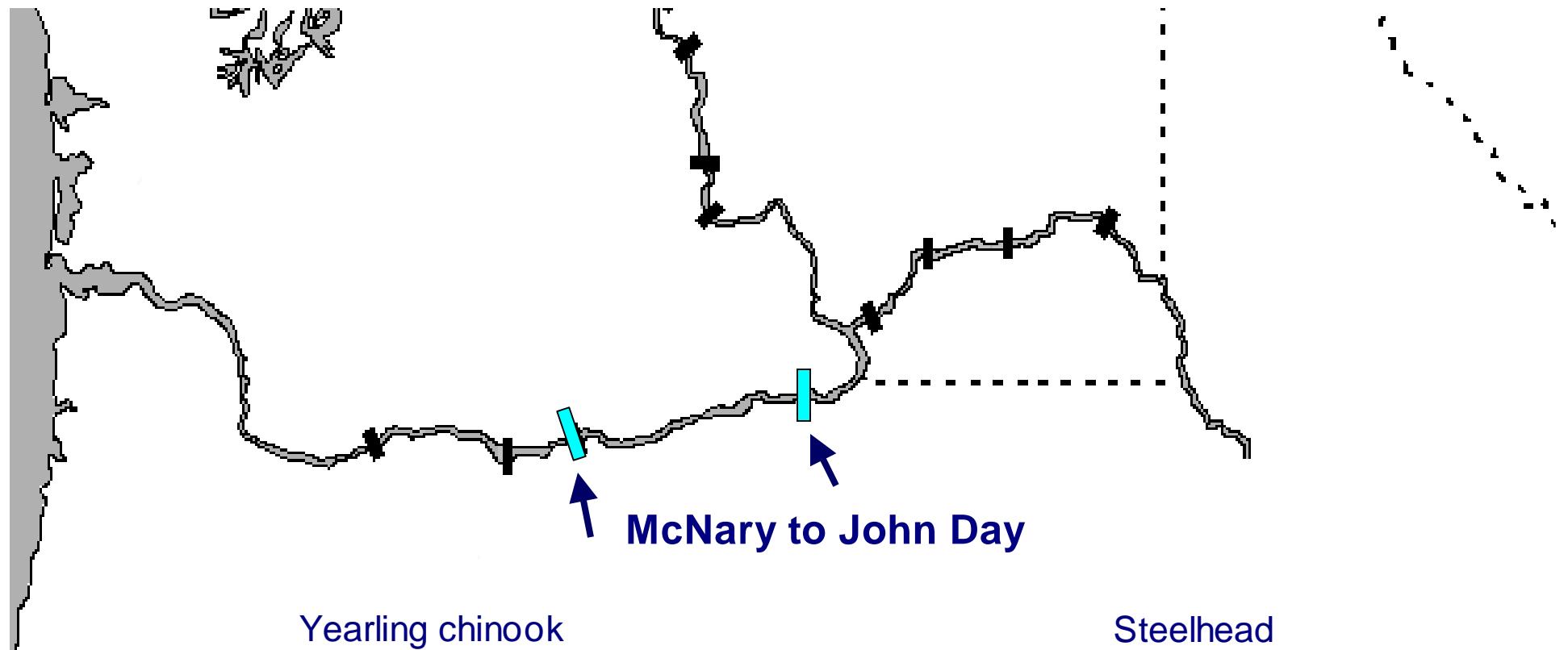


- 18.4% of all PIT tagged steelhead leaving Lower Monumental Dam found on Crescent Island in 2004

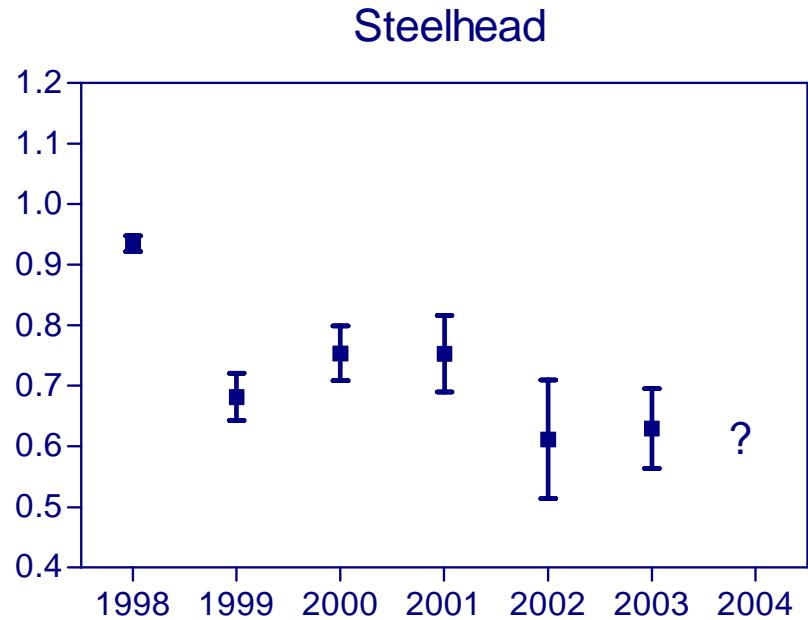
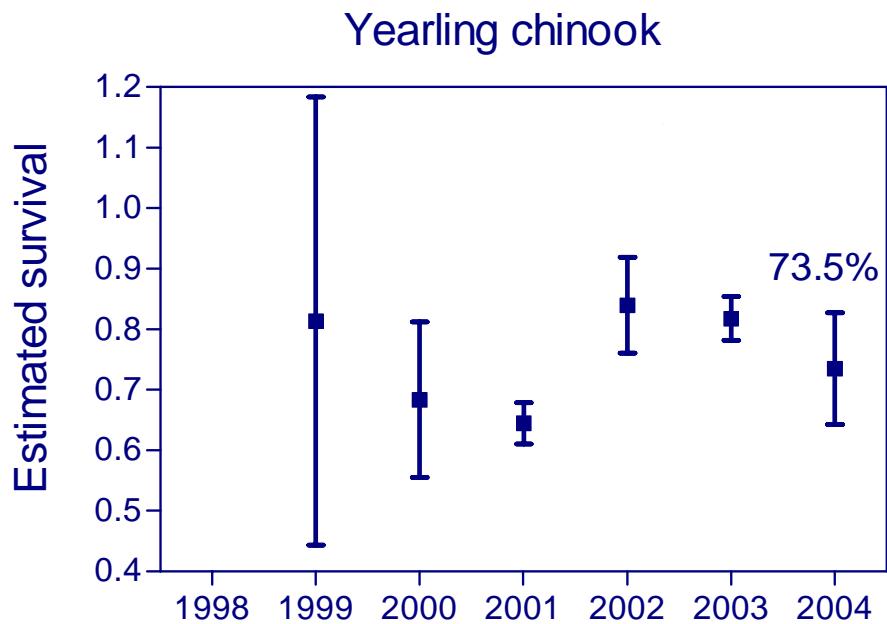
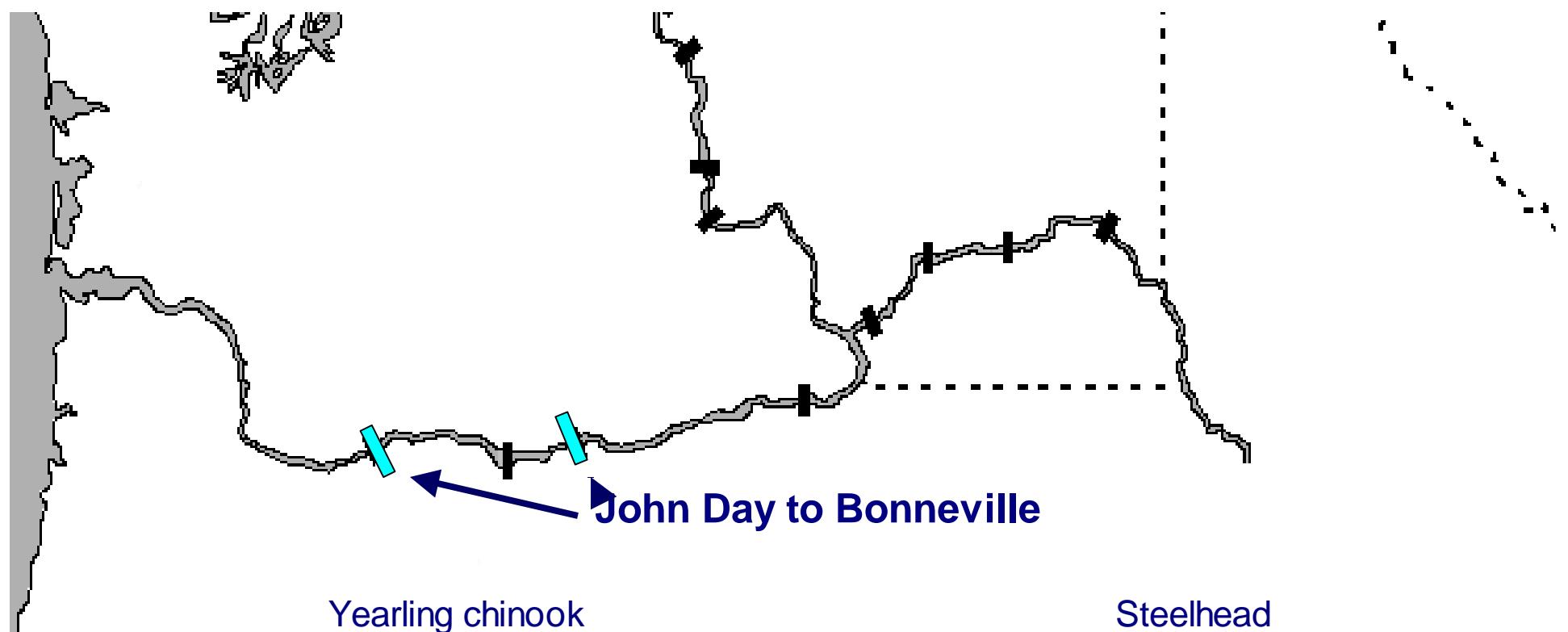


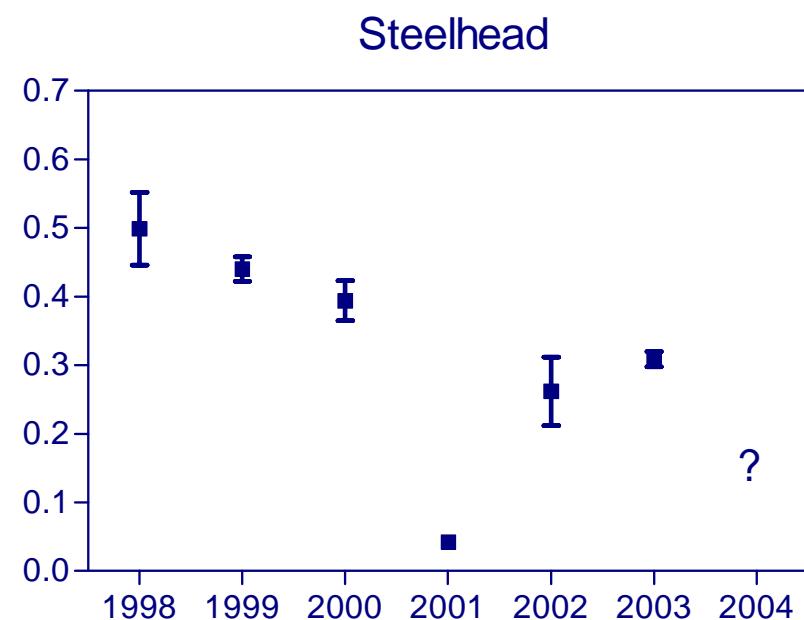
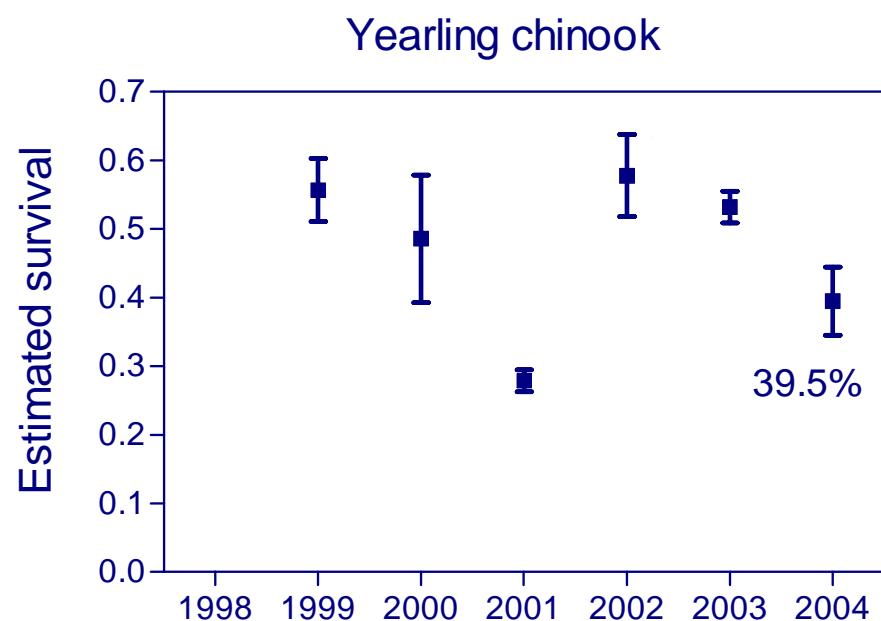
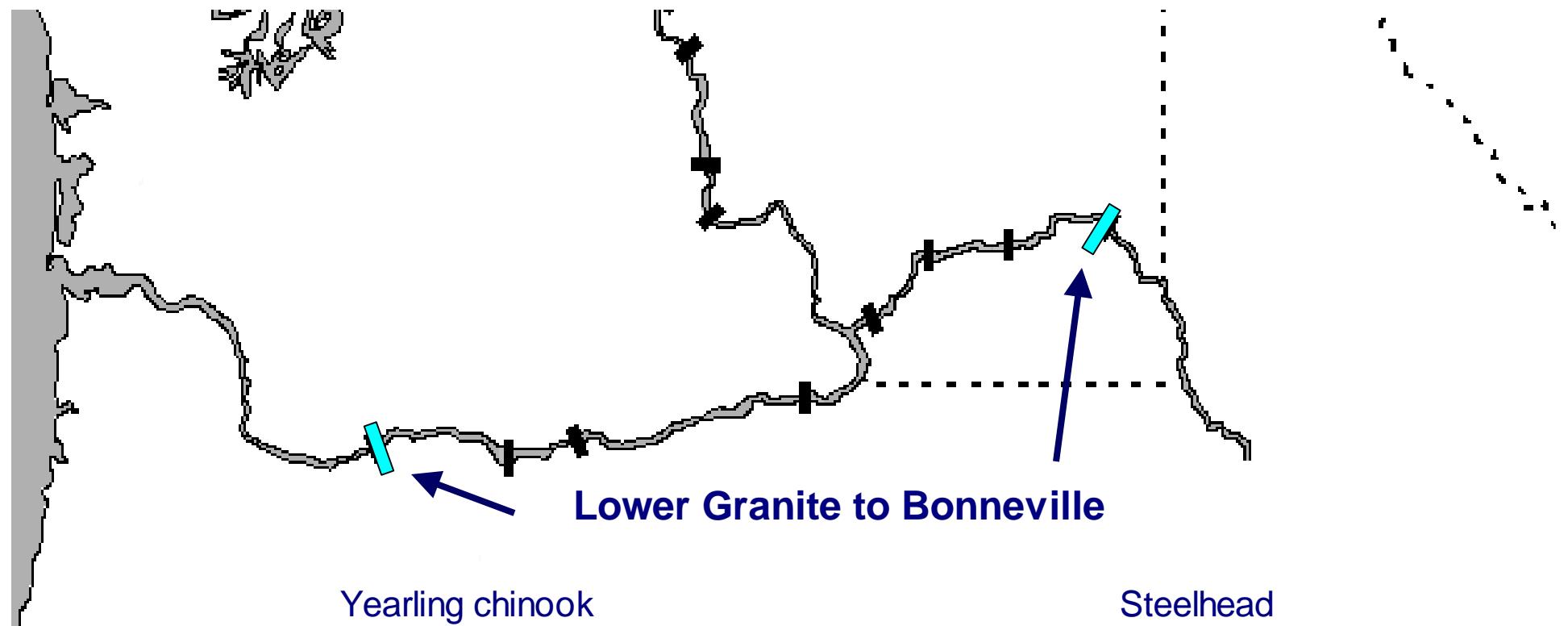
- 18.4% of all PIT tagged steelhead leaving Lower Monumental Dam found on Crescent Island in 2004
- Tag data from other McNary pool Islands not yet available



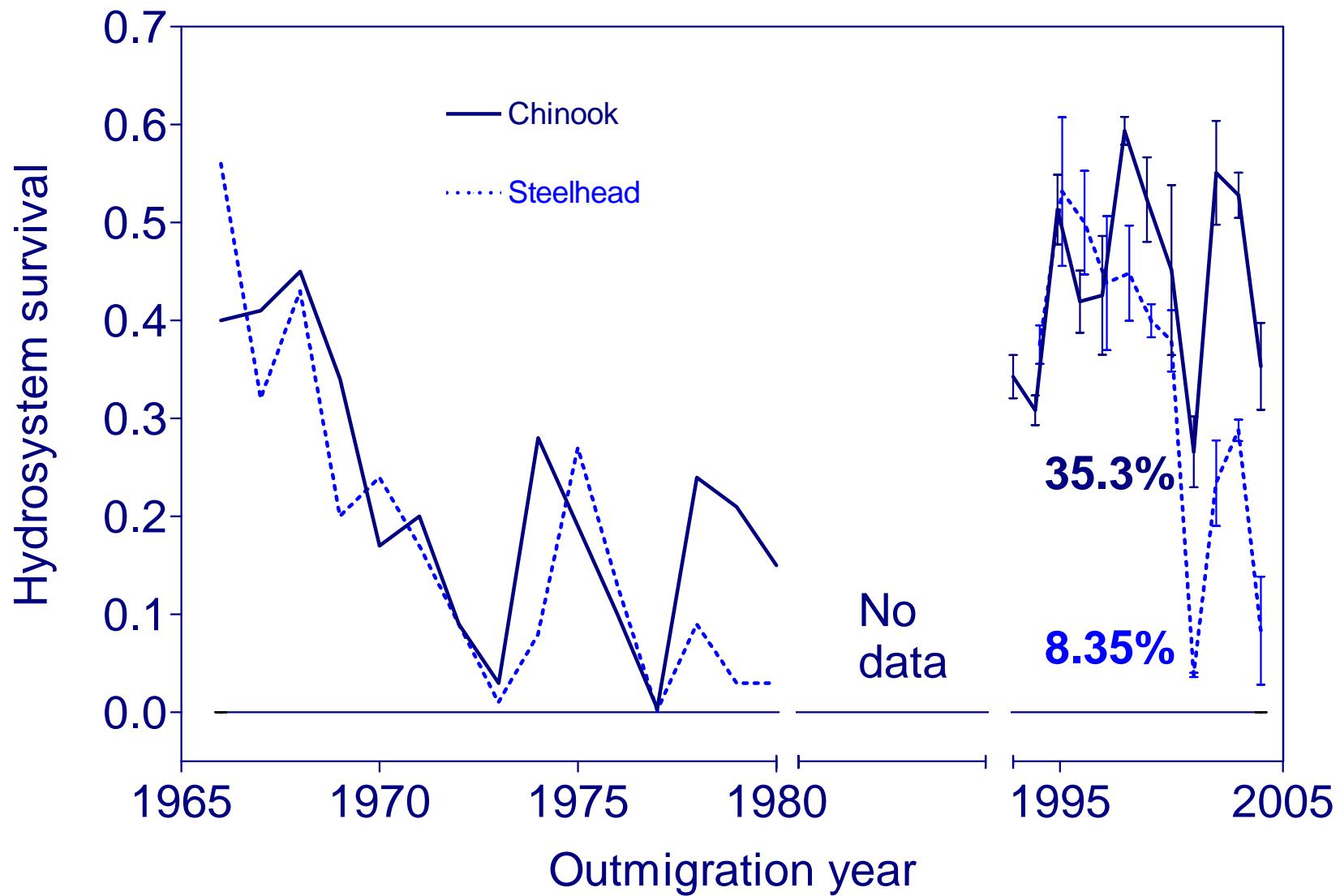








## Per-Project extrapolation



# Conclusions

- Flow during the spring migration season in the Snake River was similar to 2001



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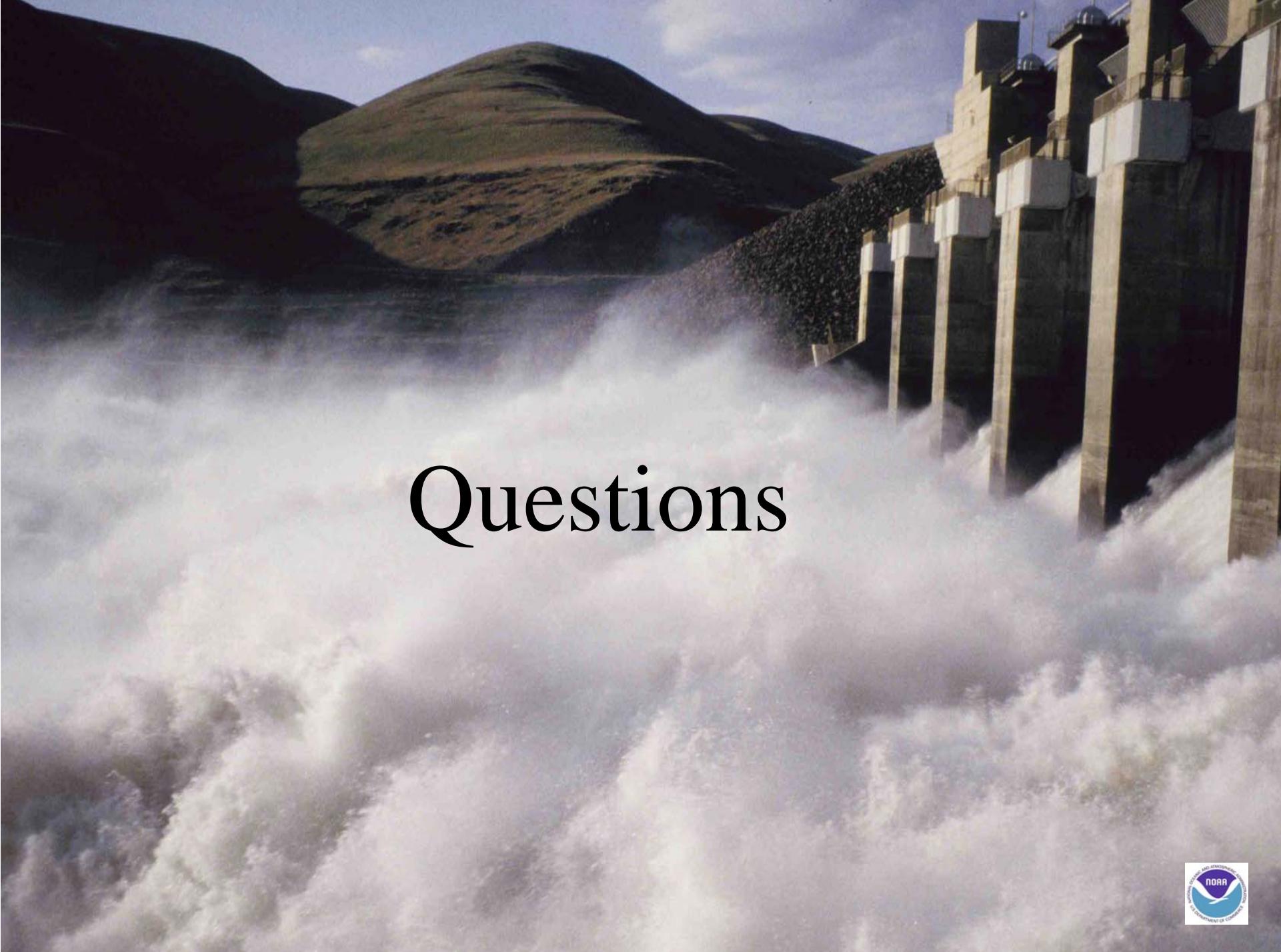
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- However, the vast majority of Snake River smolts were transported



# Conclusions

- Flow during the spring migration season in the Snake River was similar to 2001
- Inriver survival was the lowest measured since 2001
- However, the vast majority of Snake River smolts were transported
- Steelhead mortality was high between LMO and JD dams, due in part to bird predation





# Questions

