

# Spawning Distribution of Susitna River Chinook Salmon in 2014

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# Introduction

- Two different studies
  - “Mainstem” Susitna River
  - Yentna River
- In season tracking
  - Stationary sites
  - Aerial surveys
- Post season analysis/results



# Stationary Tracking Sites

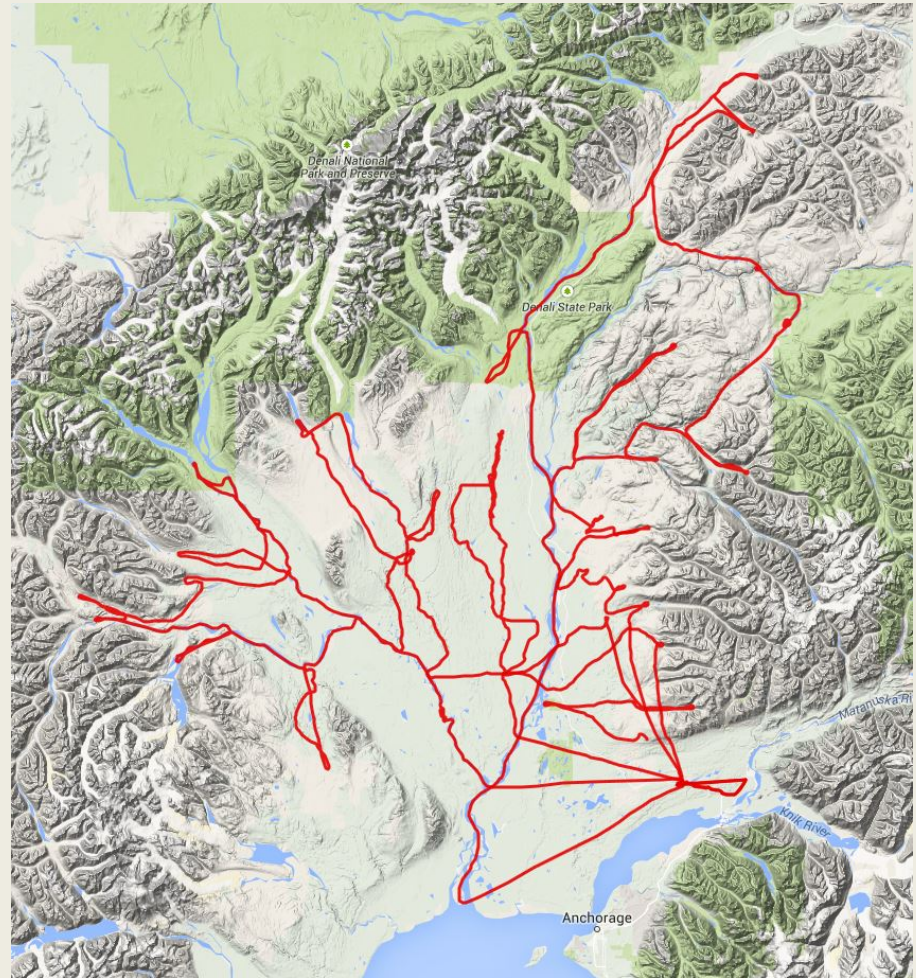
- Components
- Two antennas
- Run 24/7
- Bi-weekly site visits
- Reference tags
- LGL supplemental data





# Aerial Tracking Surveys

- Dual antennas
- Fixed-wing
- Bi-weekly

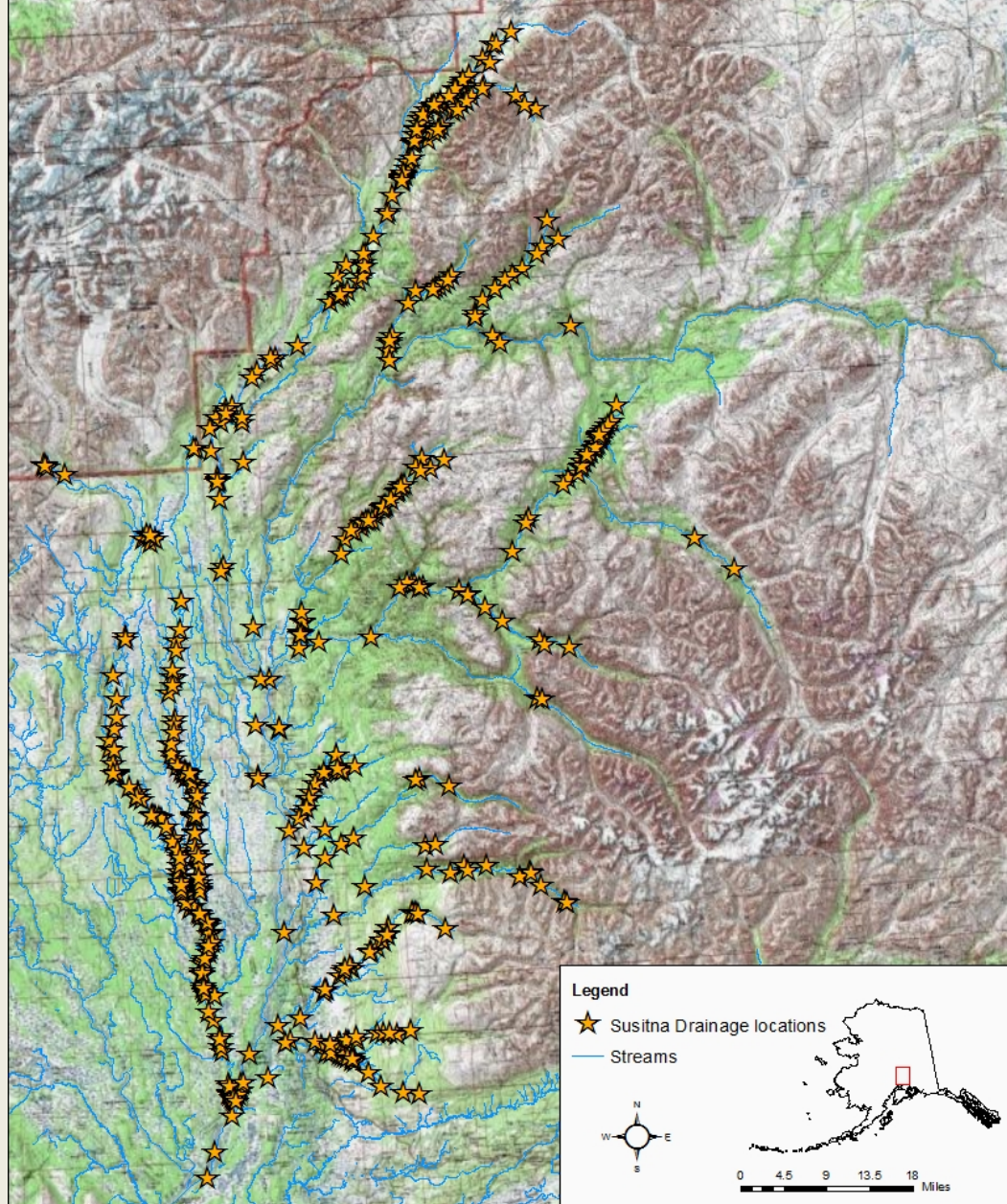




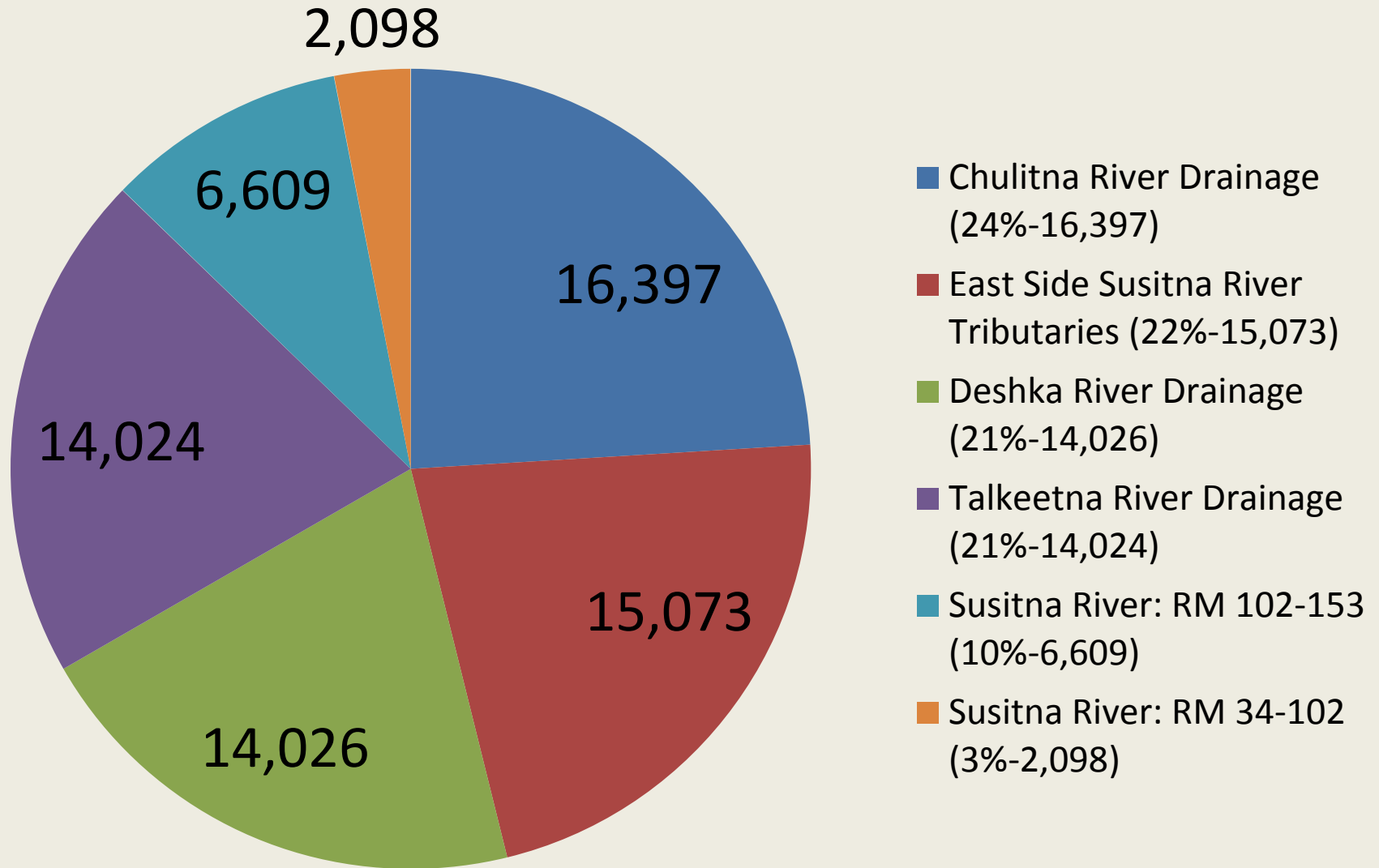
# Mainstem Susitna River

- Mainstem (RM 34) tagging site-659 Chinook salmon tagged
- Seven stationary sites
- Four bi-weekly aerial surveys
- Six major spawning locations
- Radio-tags used to determine recaptures at weir sites and distribution

# Final locations of spawning Chinook salmon in the Susitna River drainage in 2014

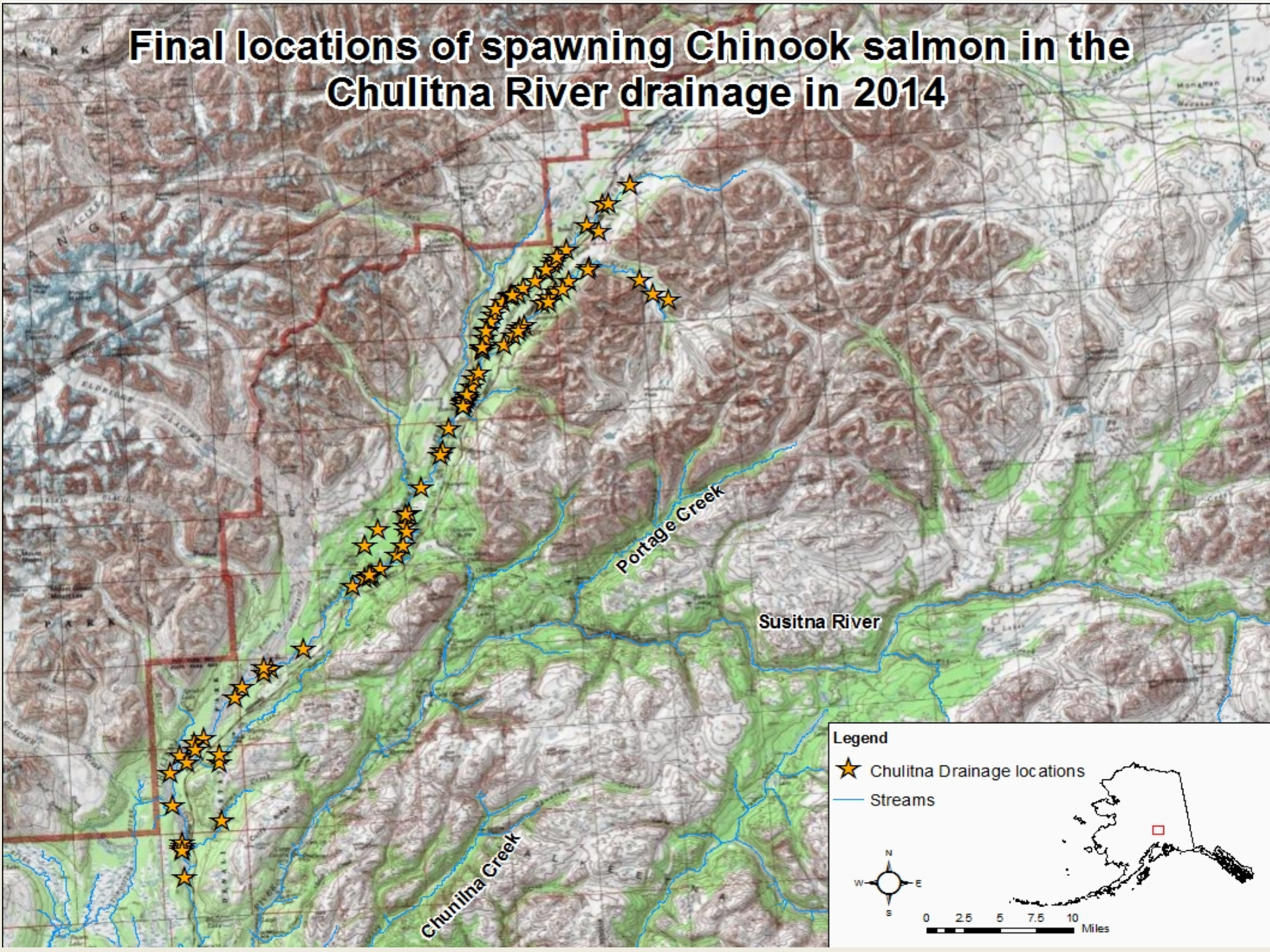


# Mainstem Susitna River Abundance



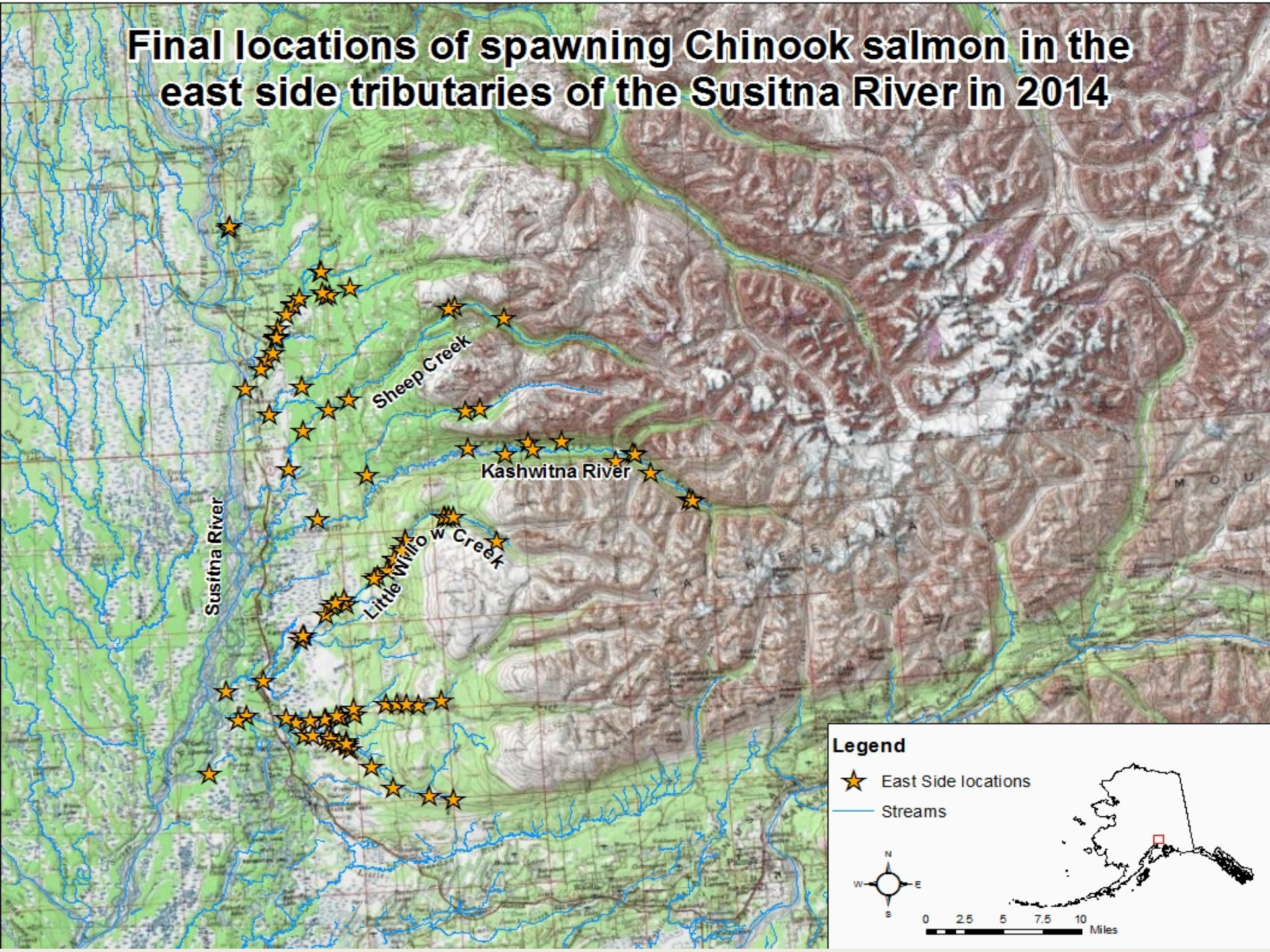


# Final locations of spawning Chinook salmon in the Chulitna River drainage in 2014



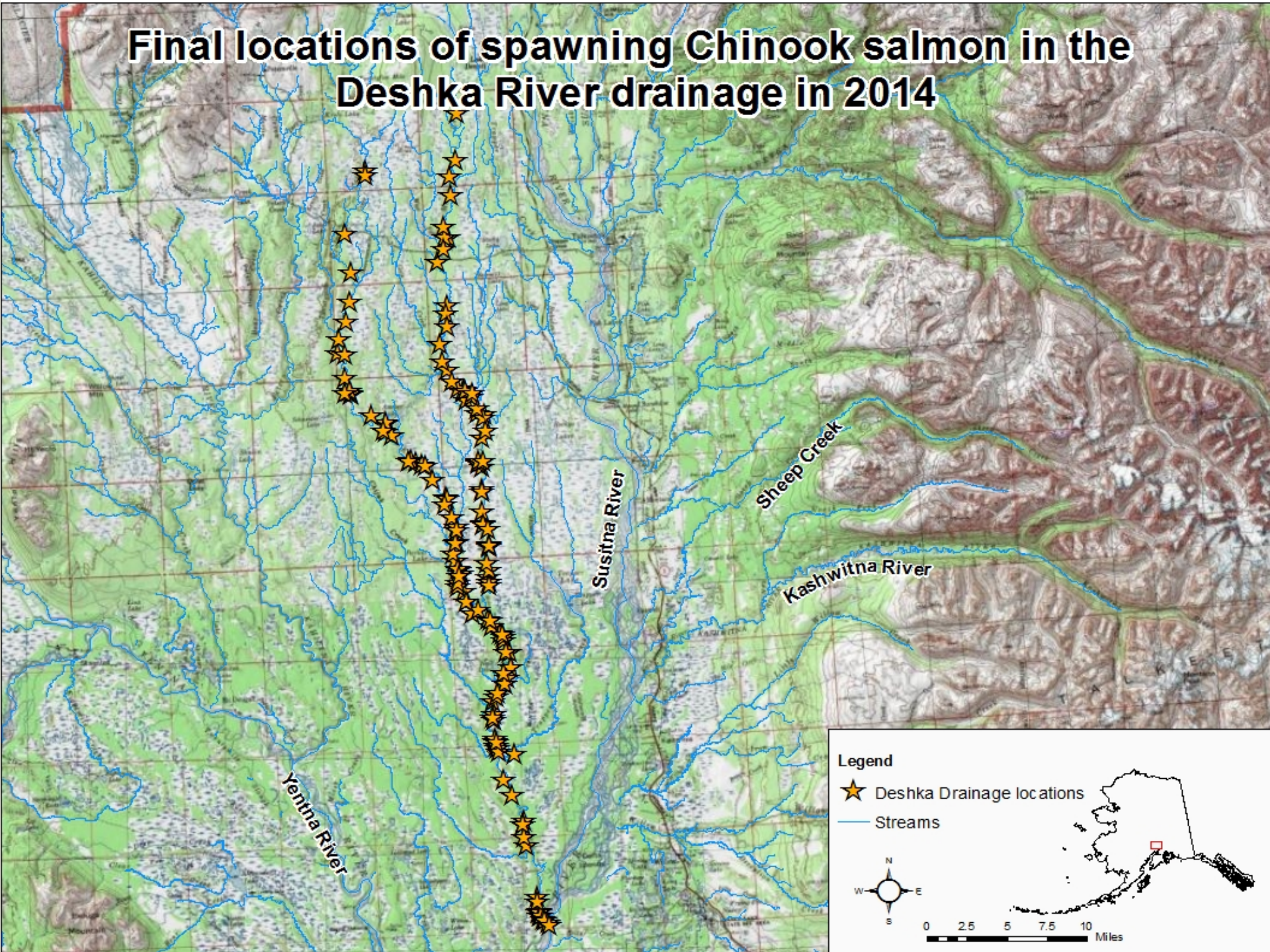


# Final locations of spawning Chinook salmon in the east side tributaries of the Susitna River in 2014





# Final locations of spawning Chinook salmon in the Deshka River drainage in 2014



### Legend

- ★ Deshka Drainage locations
- Streams

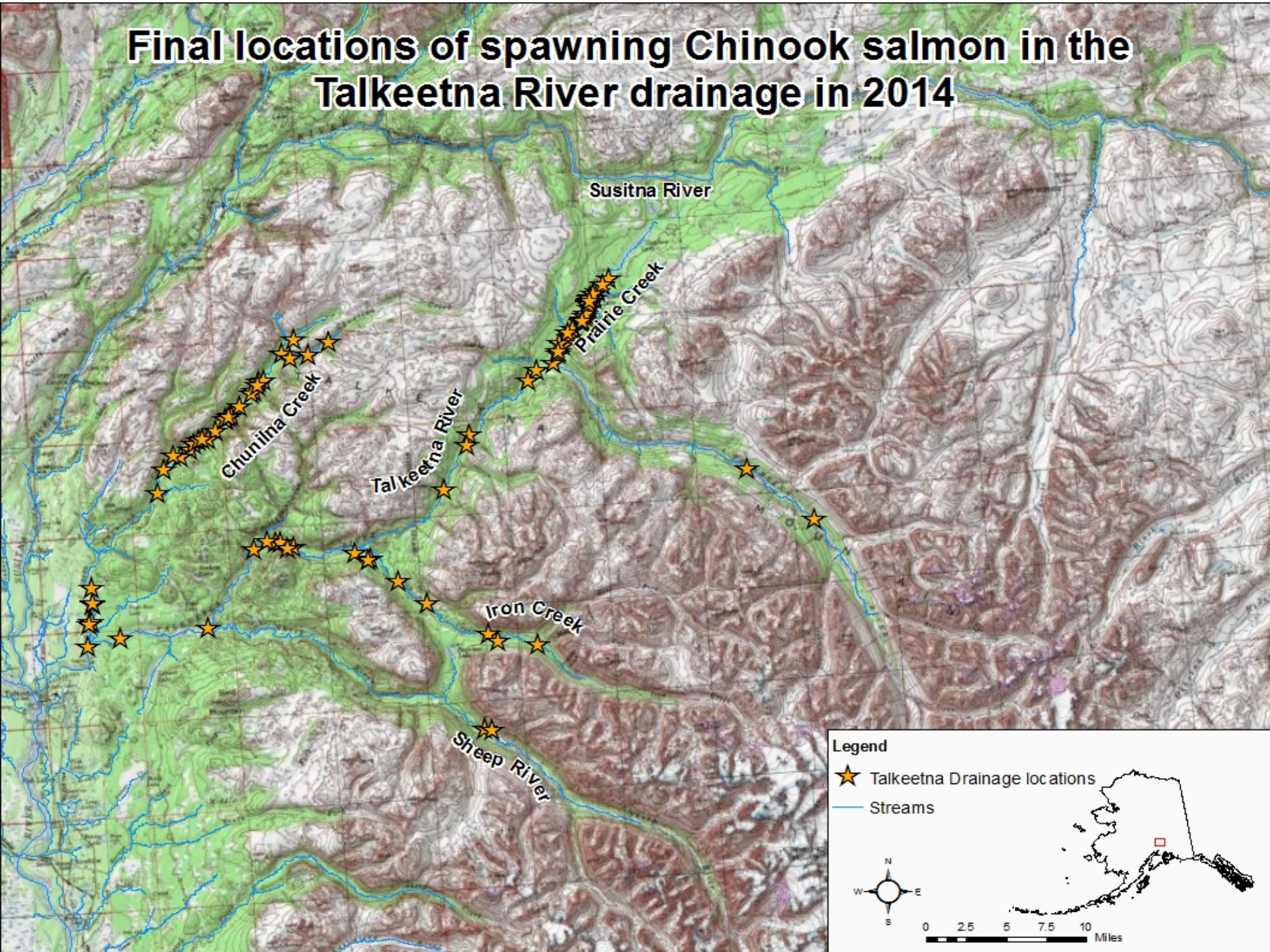


0 2.5 5 7.5 10 Miles



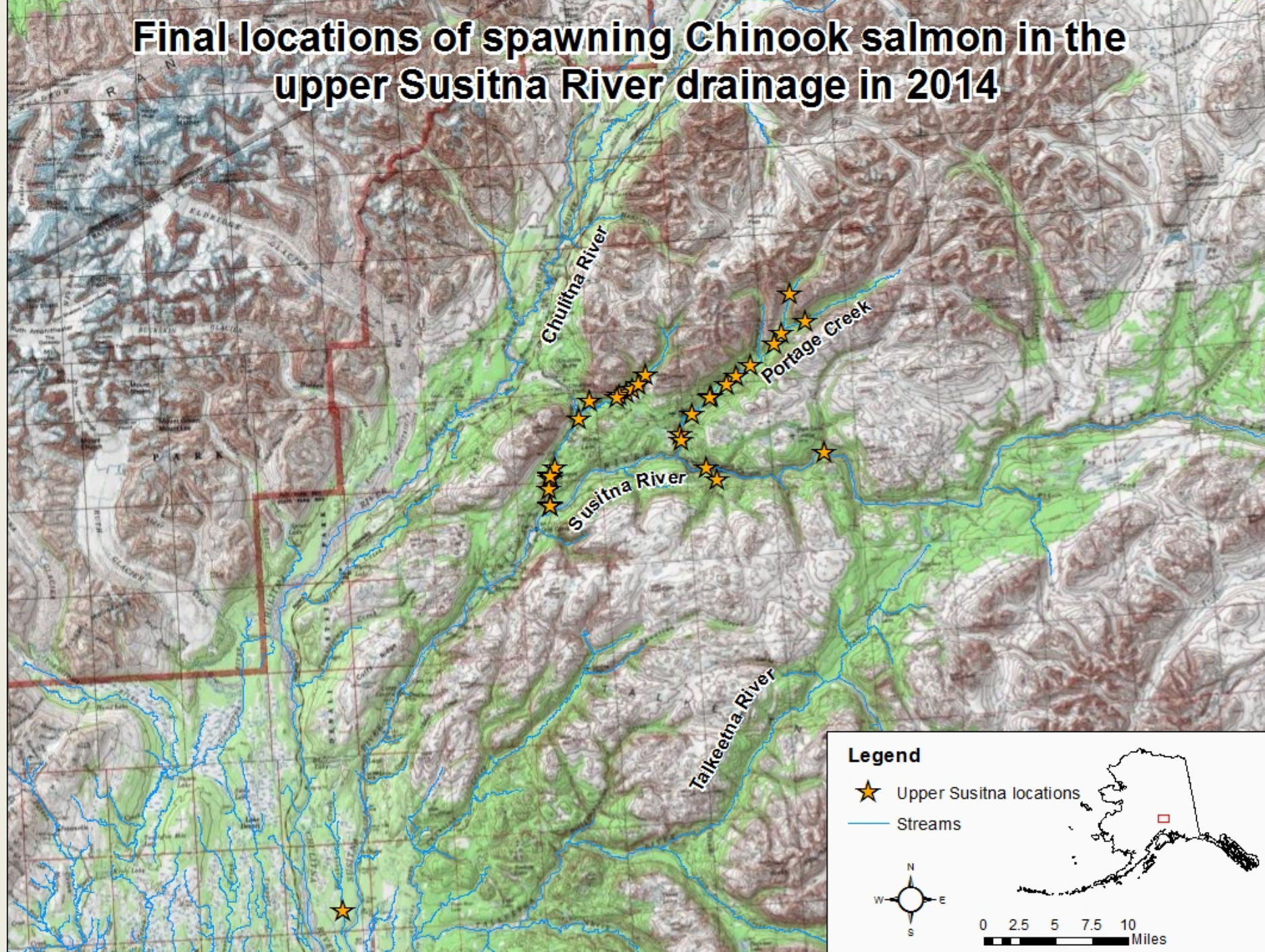


# Final locations of spawning Chinook salmon in the Talkeetna River drainage in 2014



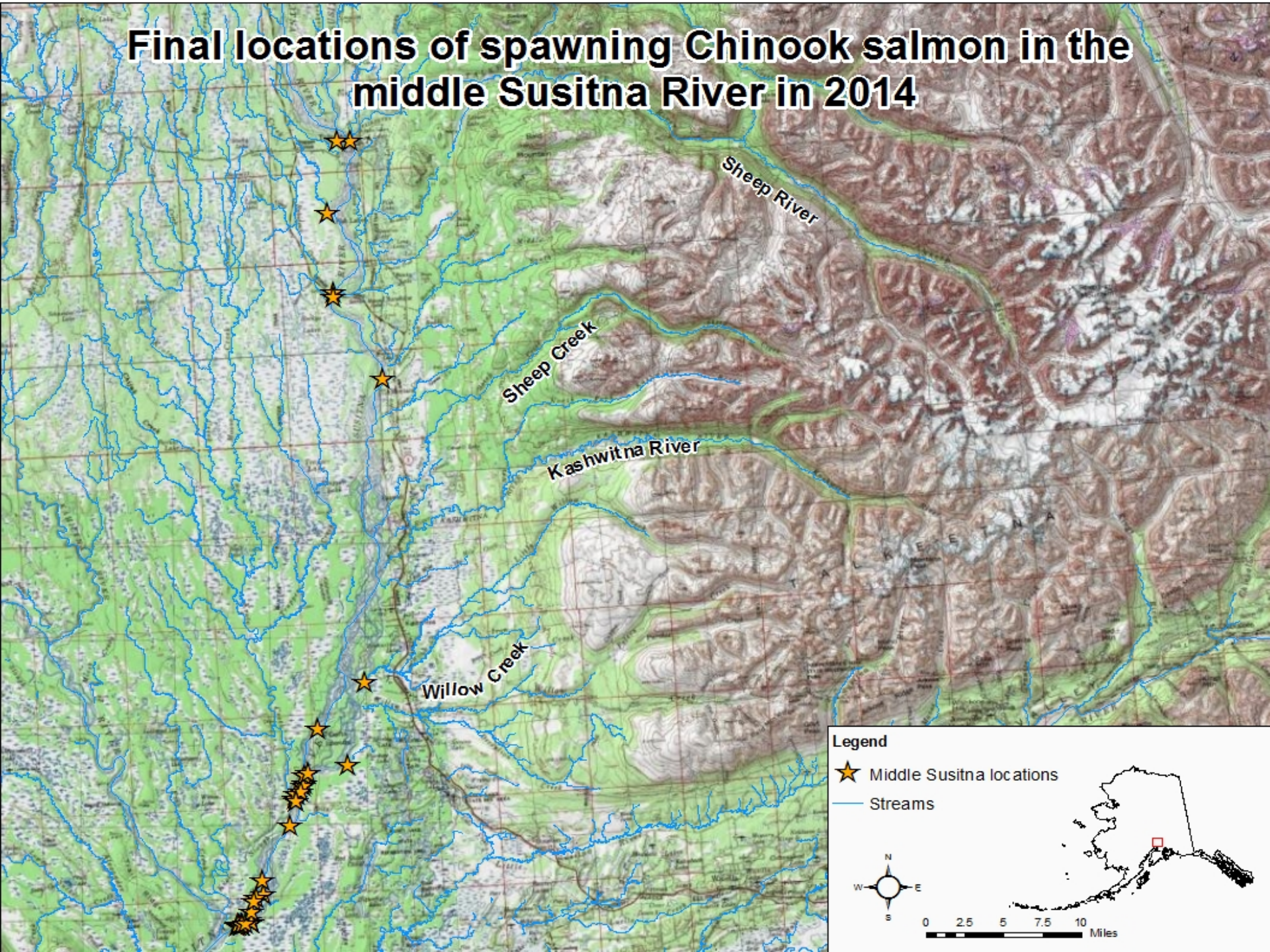


# Final locations of spawning Chinook salmon in the upper Susitna River drainage in 2014





# Final locations of spawning Chinook salmon in the middle Susitna River in 2014



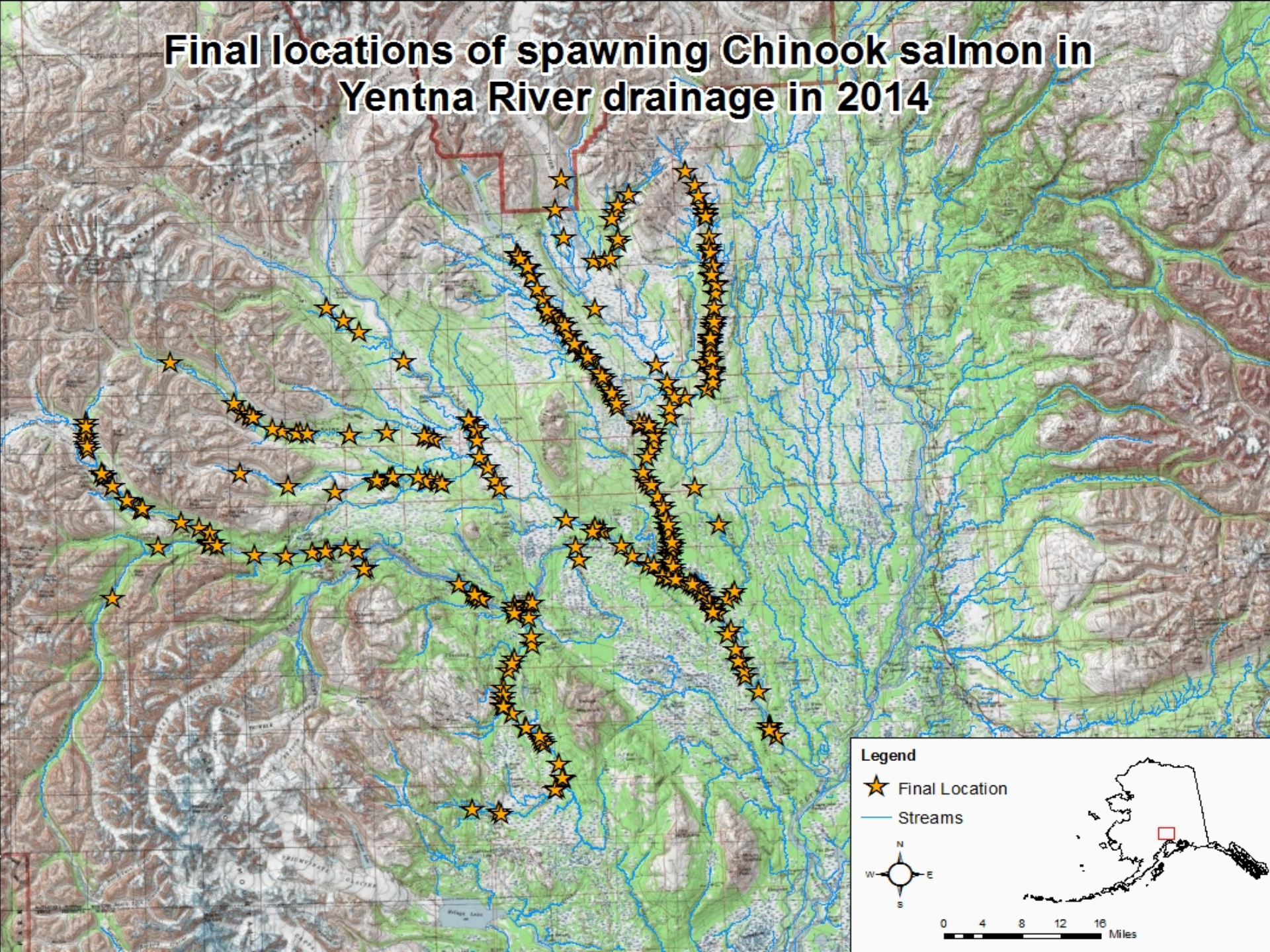


# Yentna River

- RM 6 Tagging Site-296 Chinook salmon tagged
- Three stationary sites
- Four bi-weekly aerial surveys
- Five major spawning locations
- Radio-tags only used for distribution

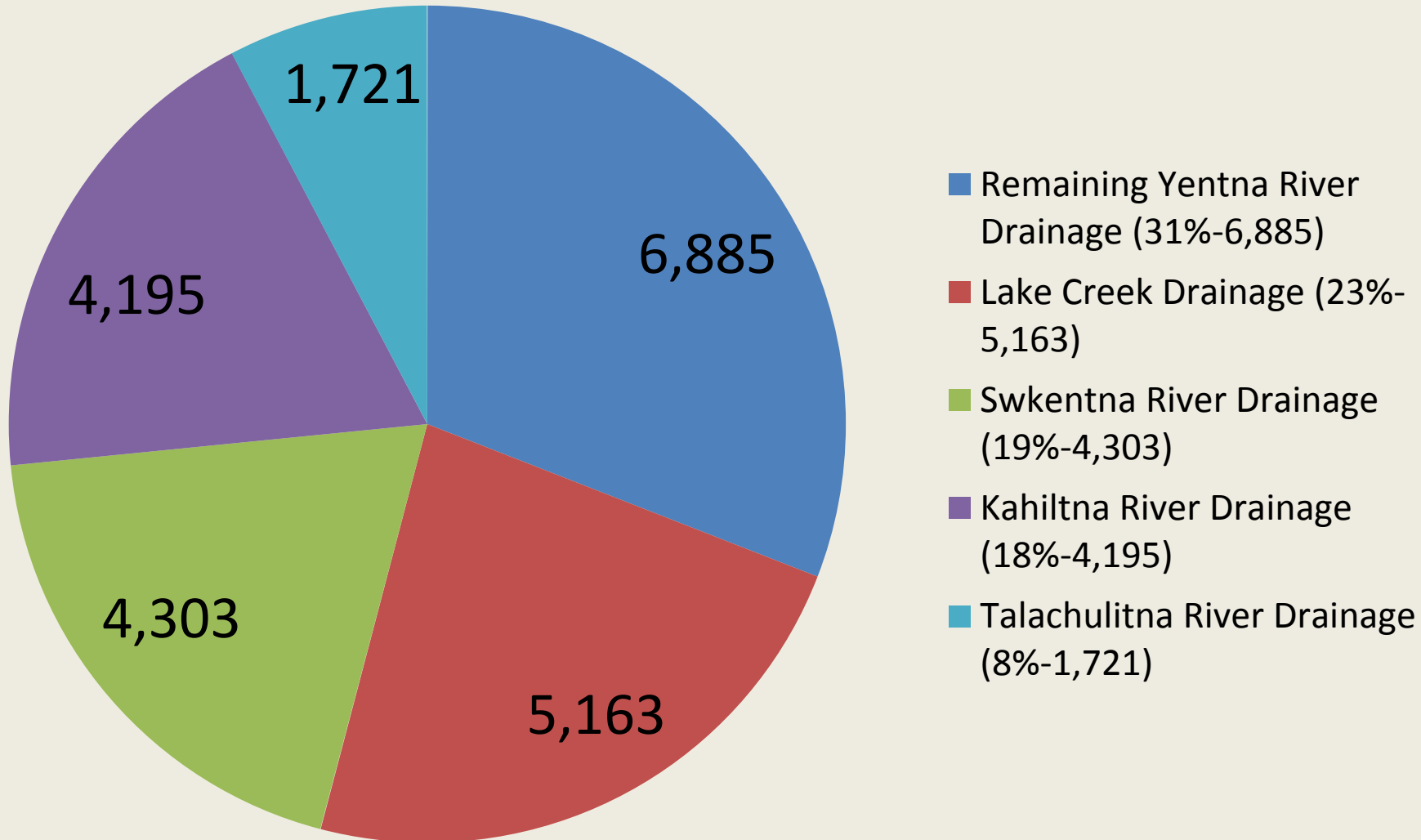


# Final locations of spawning Chinook salmon in Yentna River drainage in 2014



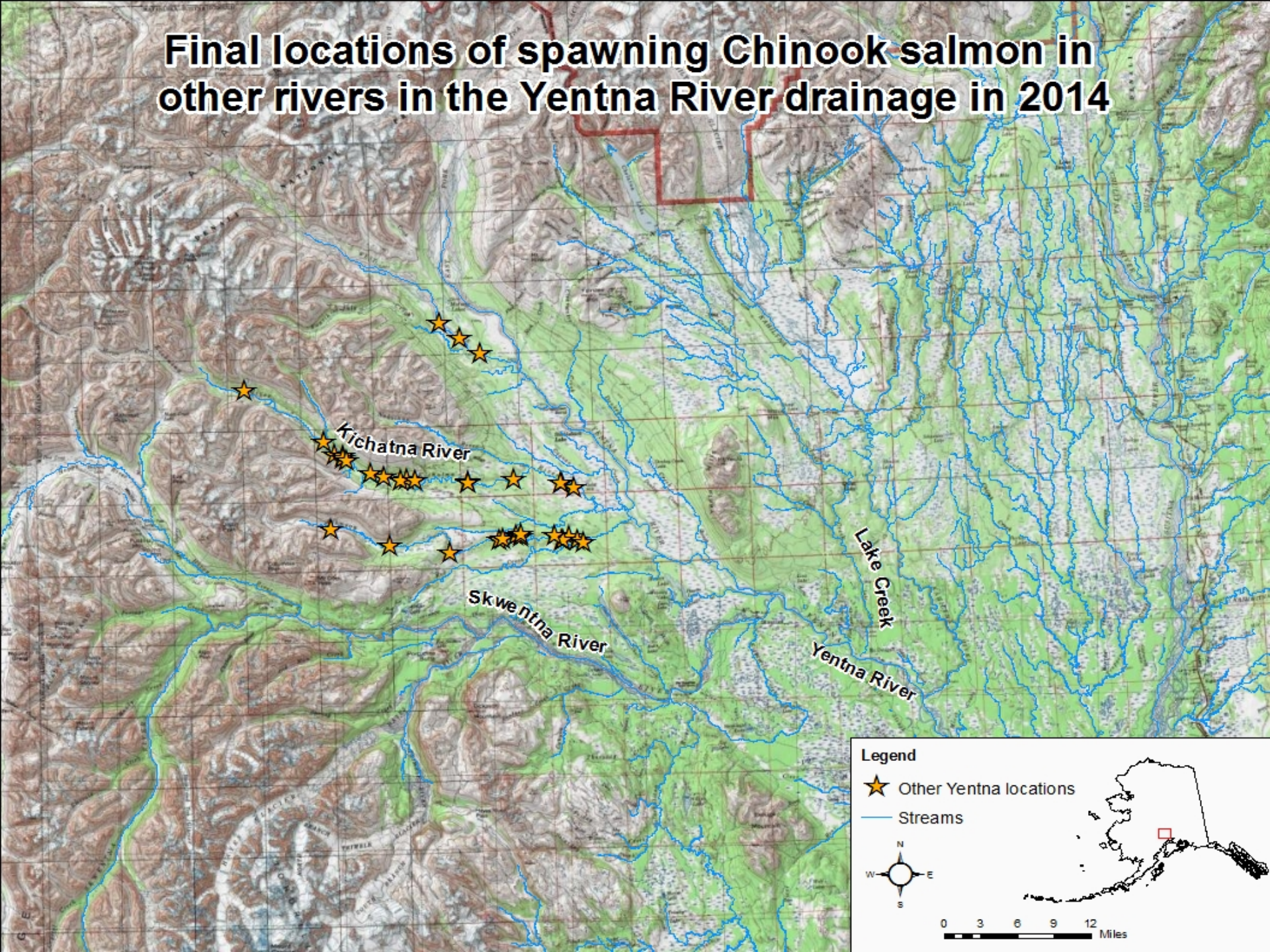


# Yentna River Abundance



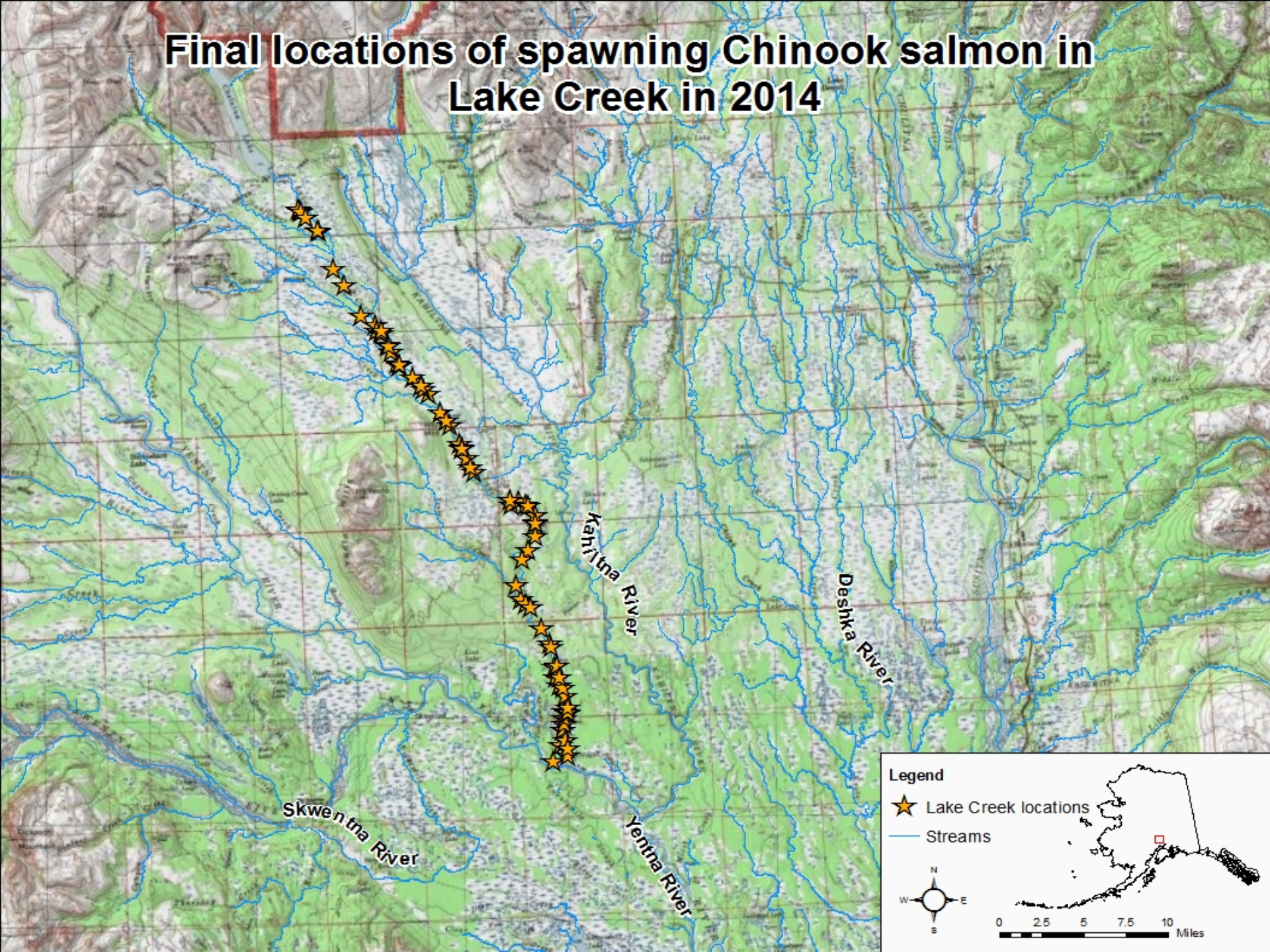


# Final locations of spawning Chinook salmon in other rivers in the Yentna River drainage in 2014



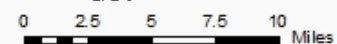


# Final locations of spawning Chinook salmon in Lake Creek in 2014



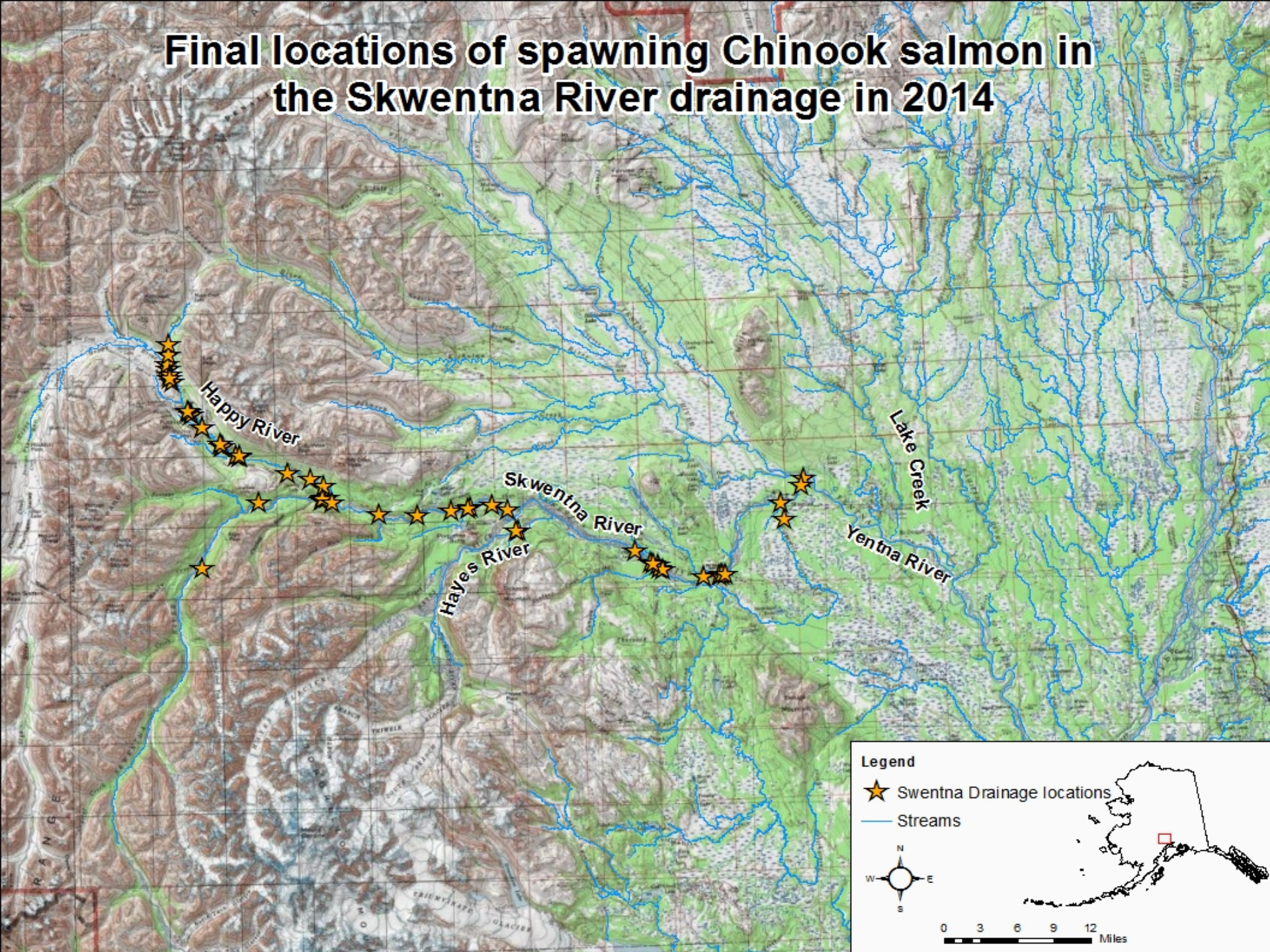
### Legend

- ★ Lake Creek locations
- Streams





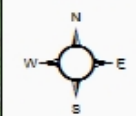
# Final locations of spawning Chinook salmon in the Skwentna River drainage in 2014



### Legend

★ Swentna Drainage locations

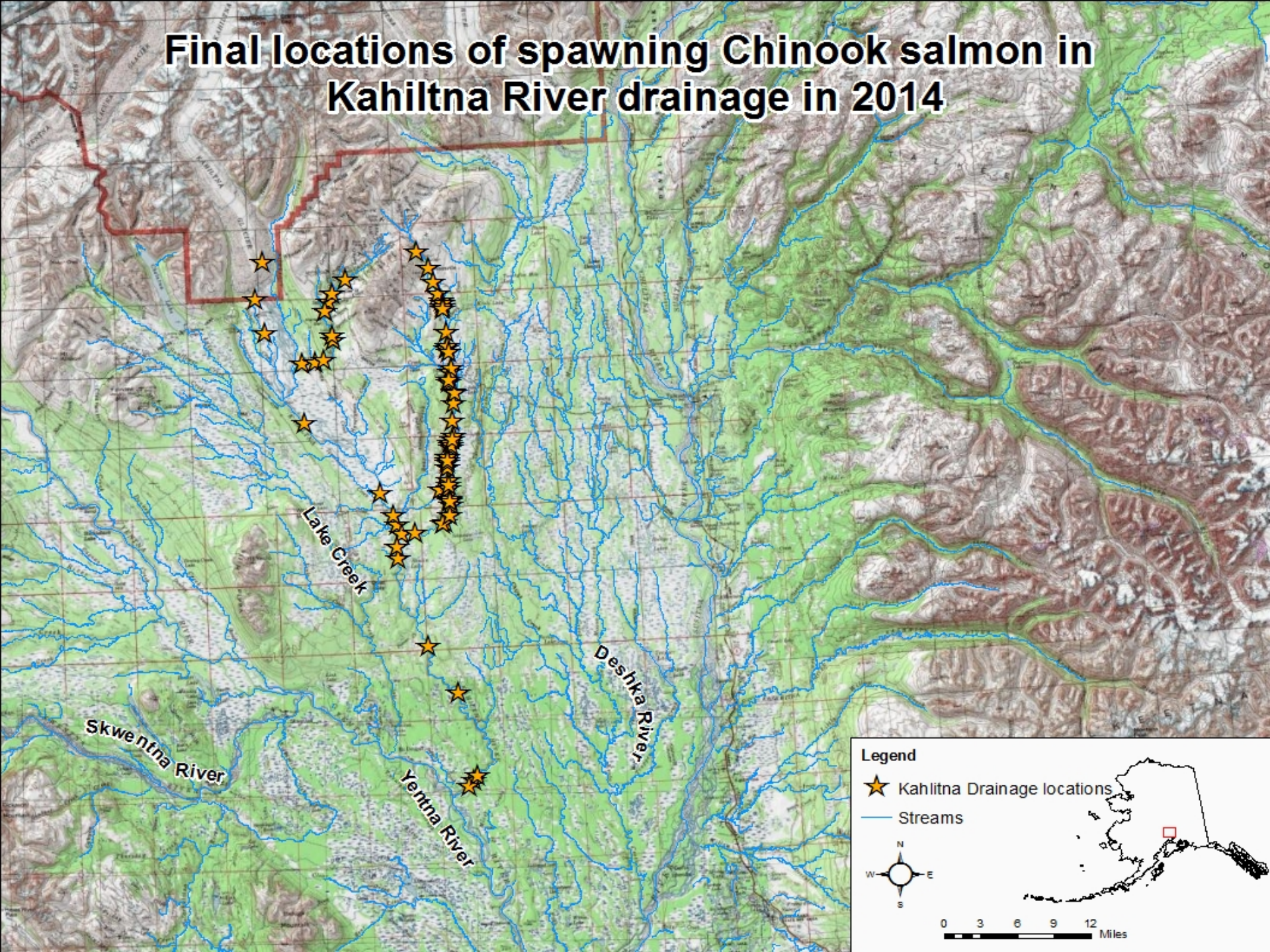
— Streams



0 3 6 9 12 Miles

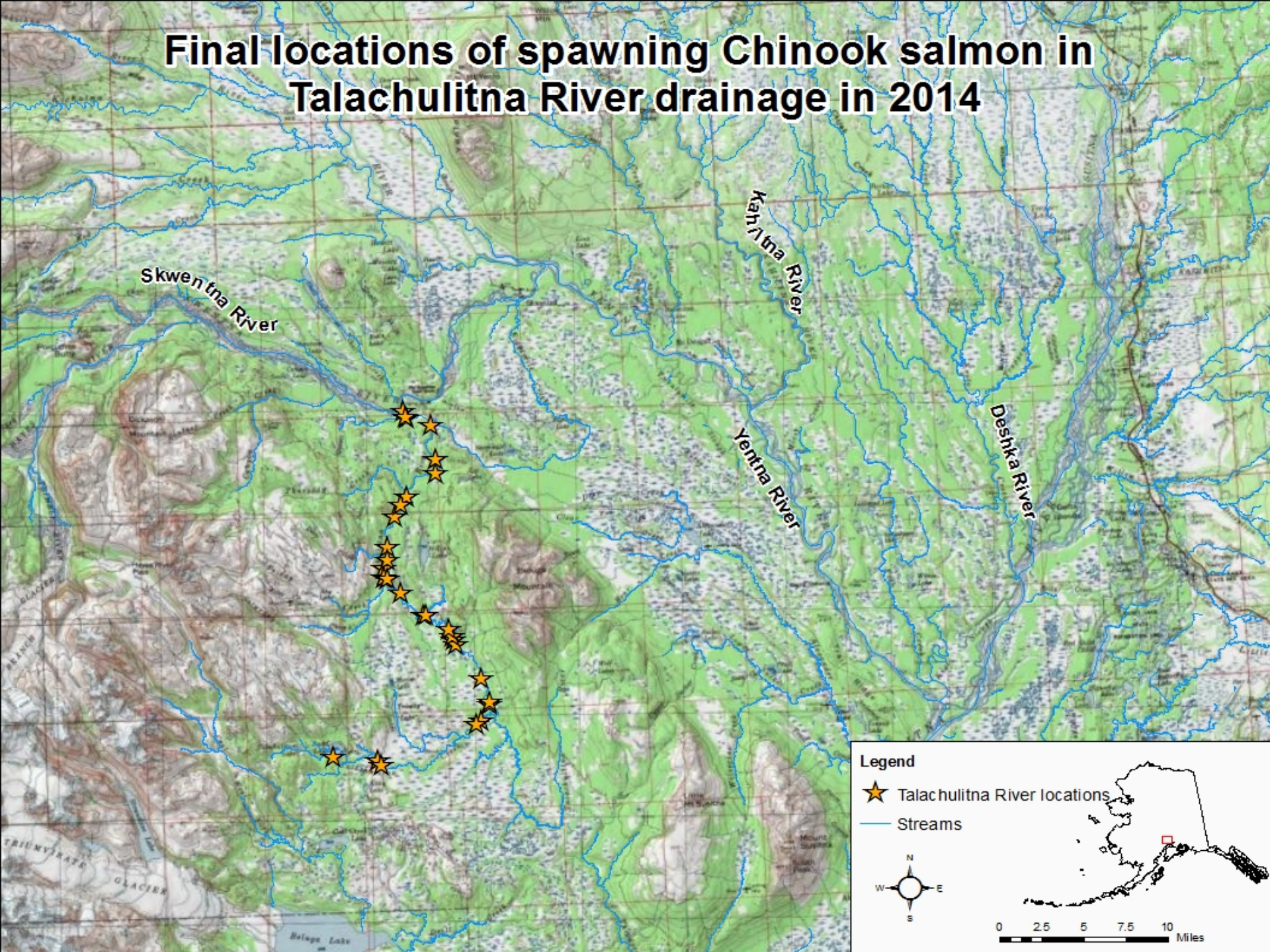


# Final locations of spawning Chinook salmon in Kahiltna River drainage in 2014





# Final locations of spawning Chinook salmon in Talachulitna River drainage in 2014





# Acknowledgements

- ADFG
  - Palmer Office Staff
  - Anchorage: Gayle Neufeld and Raye Ann Neustel
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Questions?