

## **In-season Kenai king salmon management:**

---

- **Summarize components of inseason management**
- **Summarize uncertainty of inseason projections**
- **Review sources of abundance to support management**
- **Department actions for future assessment and management**

# **In-season Kenai king salmon management: Sonar estimate minus harvest = escapement**

---

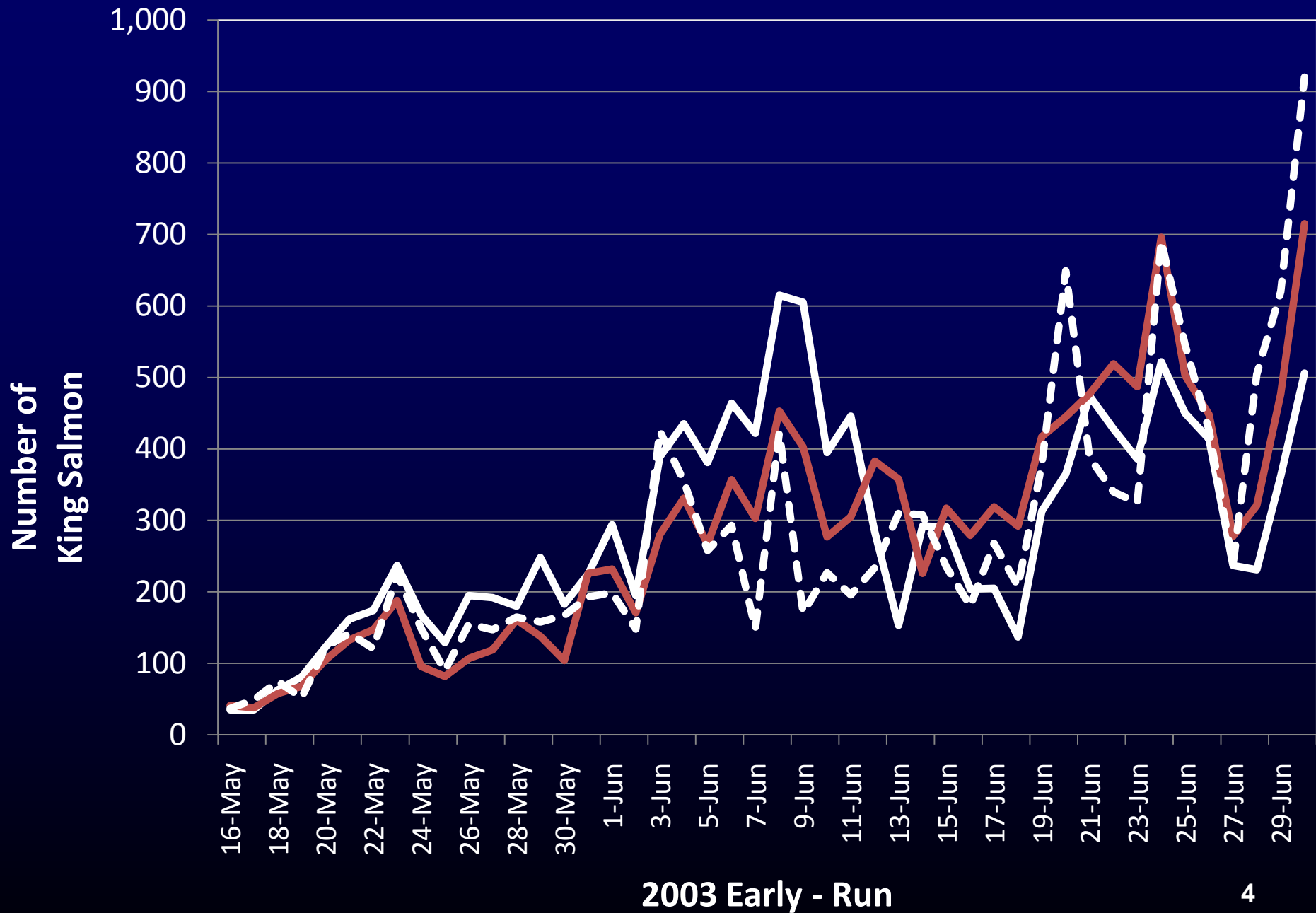
- ✓ **Inseason run projected from sonar estimate**
- ✓ **Inseason harvest estimate projected for run**
- ✓ **Escapement projected inseason: sonar minus harvest**
- ✓ **Escapement goals based on split-beam target strength (TS-Based)**

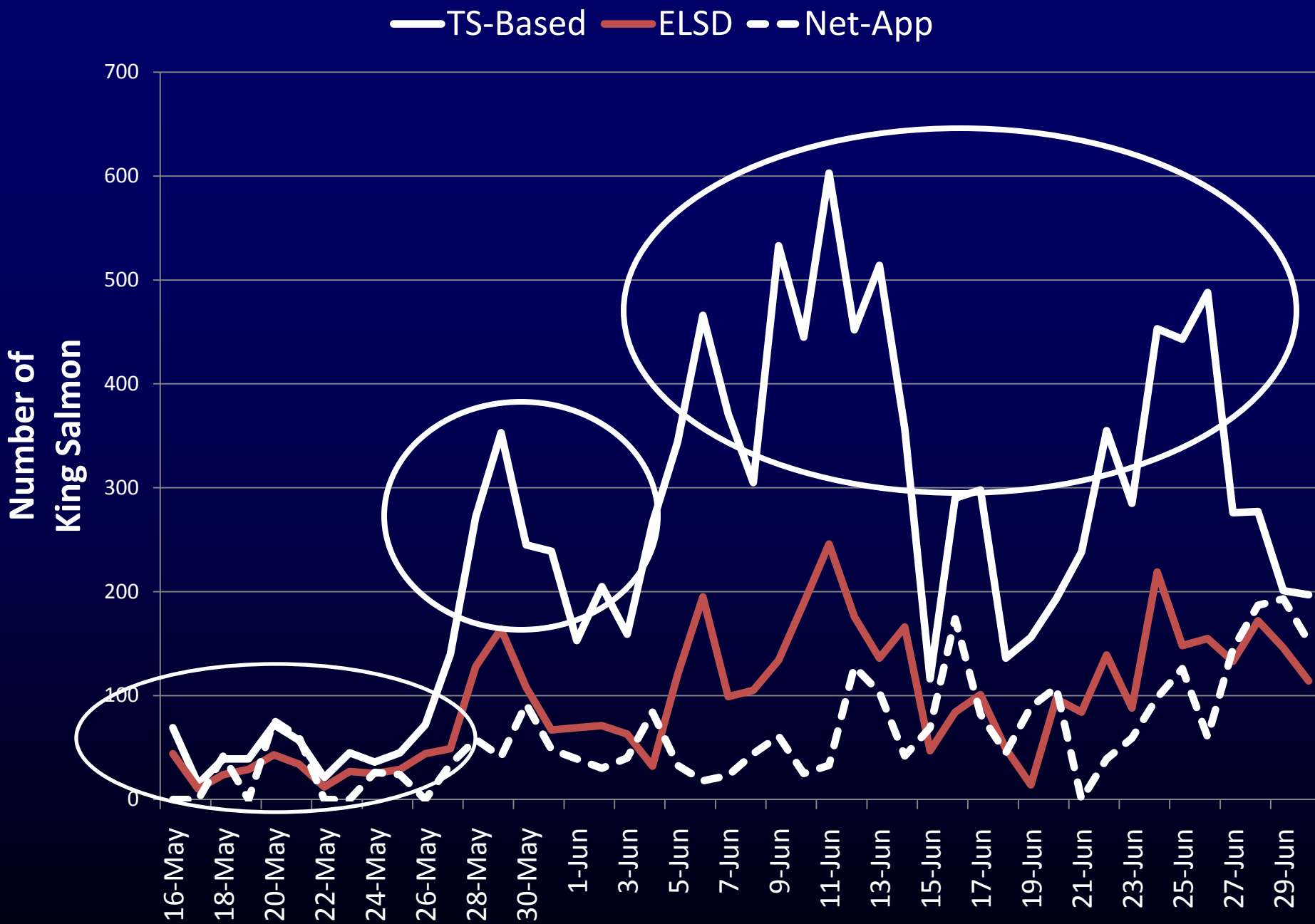
# Additional sonar estimates

---

- Echo Length Standard Deviation “ELSD”
- Net Apportioned “Net-App”

— TS-based    — ELSD    - - Net-App



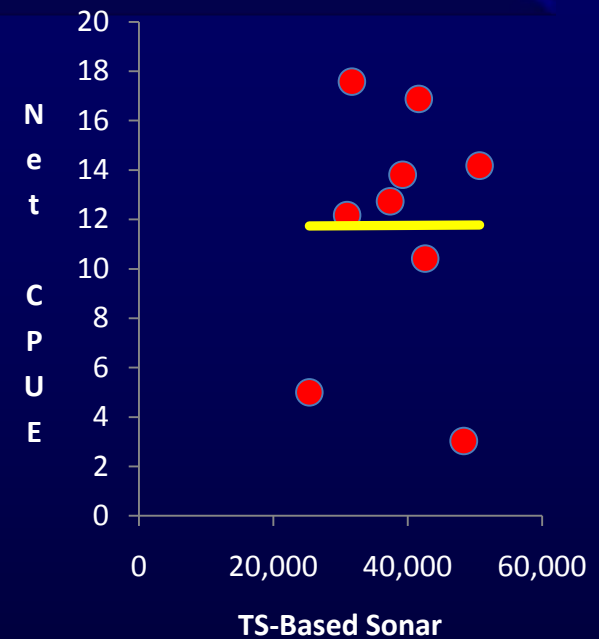
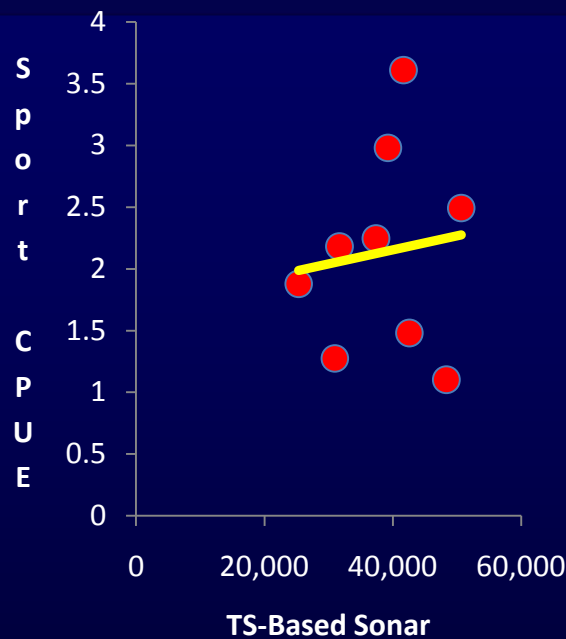
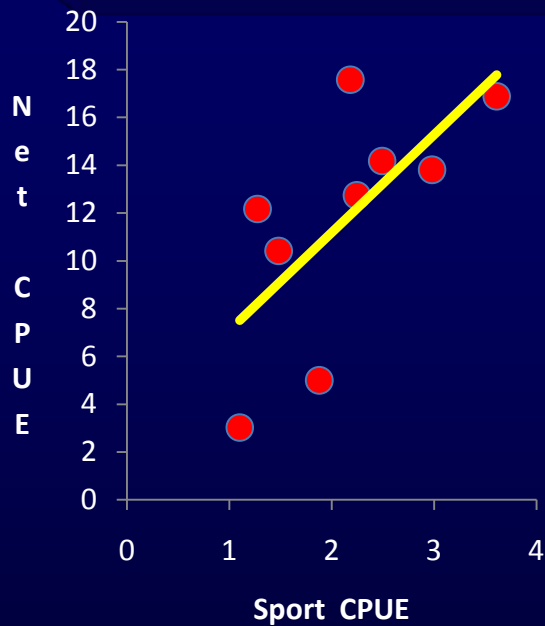


# Other King Salmon Abundance Information

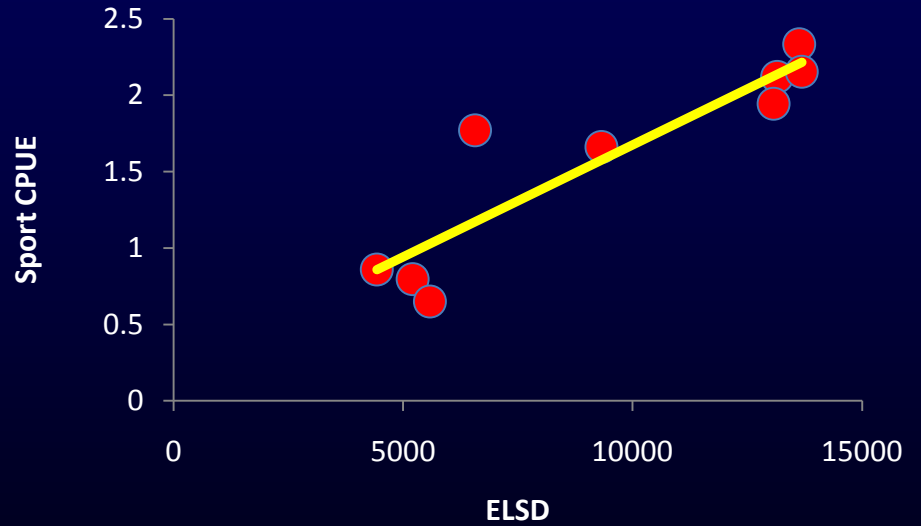
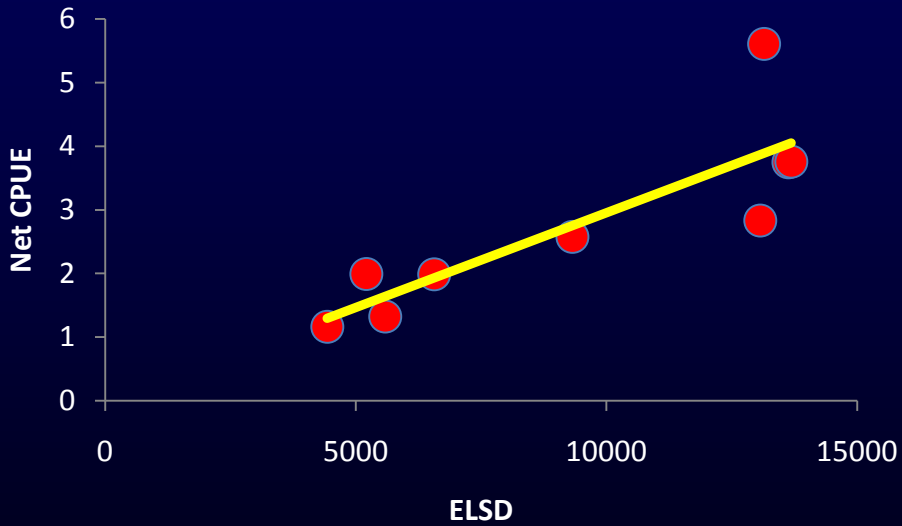
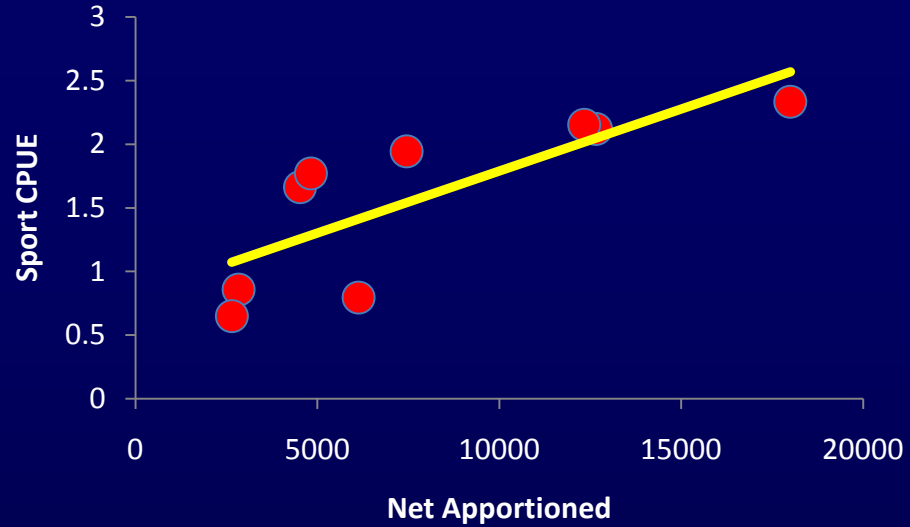
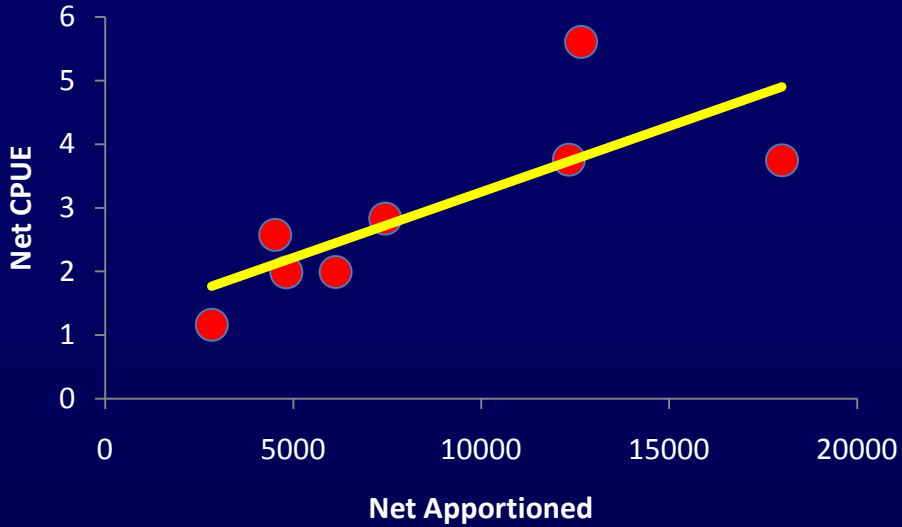
---

- **Test Netting Project CPUE**
- **Creel Survey CPUE**
- **Eastside Setnet (ESSN) Exploitation (Late Run Only)**
- **Genetic (GSI) Data, SSART Model, Weir Expansion (post-season)**

# TS-Based, Sport & Net CPUE



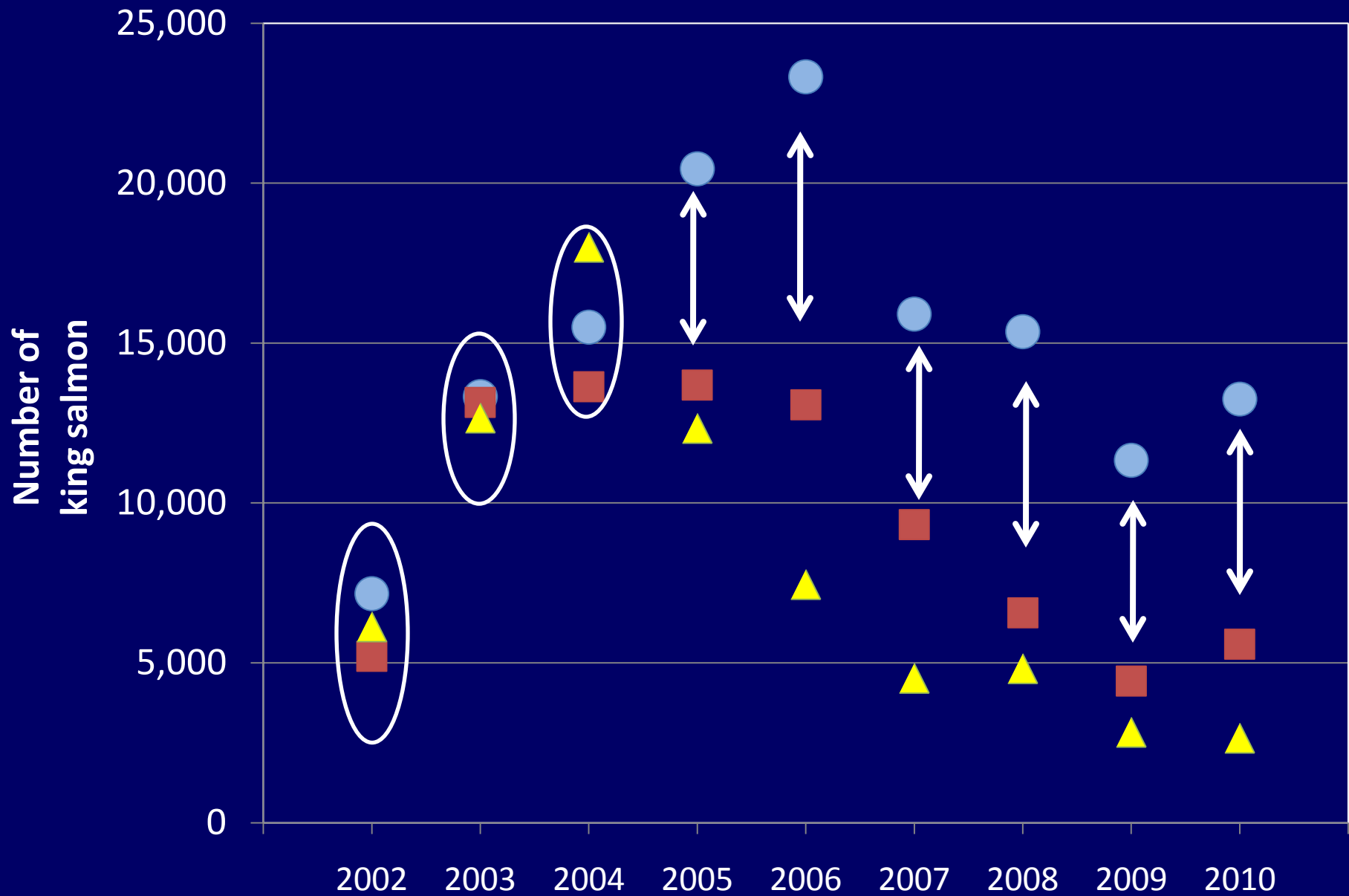
- **“Agreement” of Sport & Net CPUE**
- **“Disagreement” of Sport & Net CPUE with TS-Based**



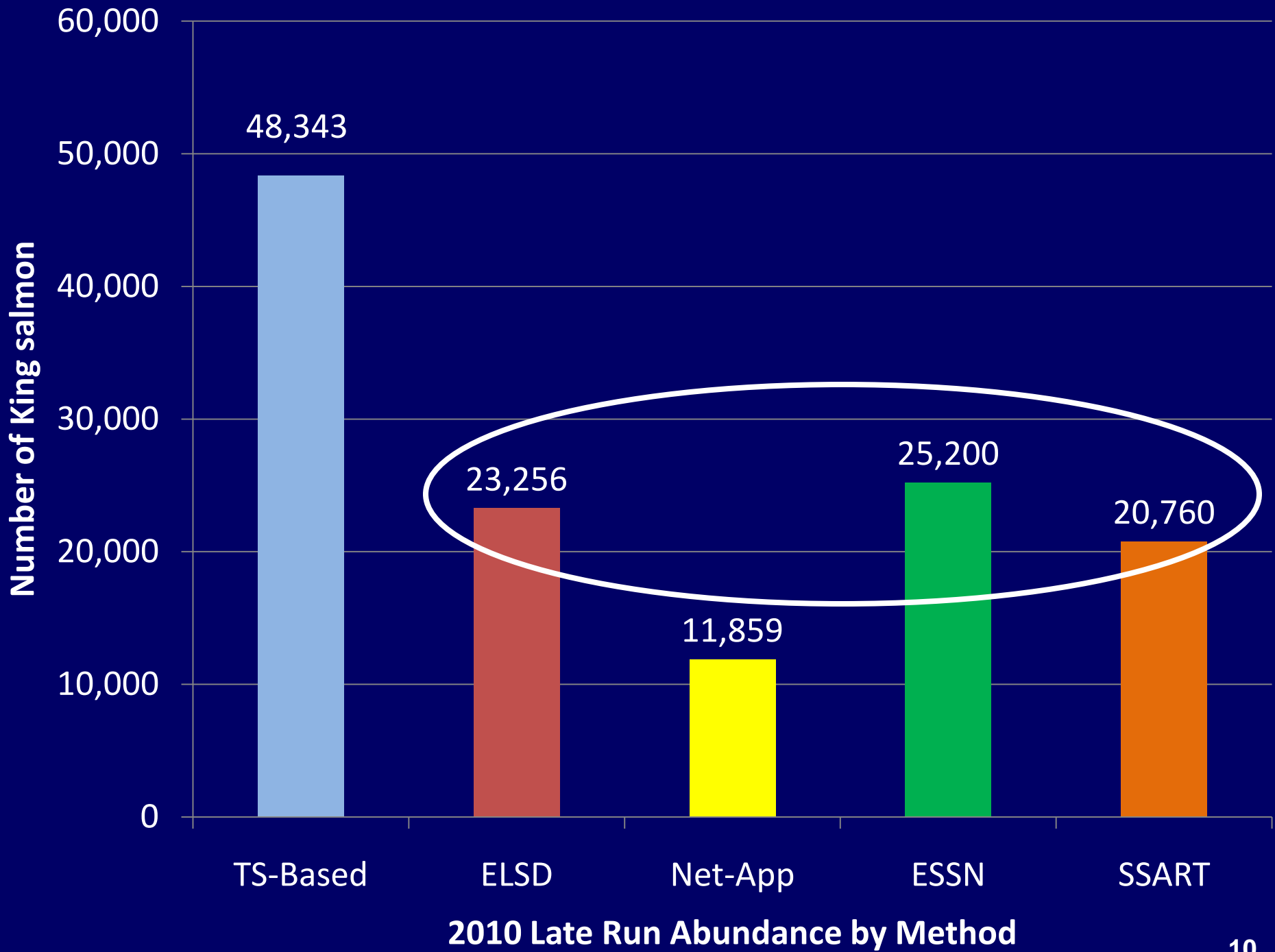
➤ **“Agreement” of Sport & Net CPUE with other estimates**



● TS-Based   ■ ELSD   ▲ Net-App



Early – Run 2002 - 2010



# Future Department Actions

---

- ❖ **Transition to DIDSON & develop new escapement goals**
  - **DIDSON with estimates of ELSD, Net Apportioned**
  - **Independent (non-sonar) estimates of king salmon abundance**
  - **Assess runs until sufficient information is available**

# Future Department Actions

---

- ❖ **Reduce management uncertainty and produce reliable estimates during transition**
  - **Discontinue TS-Based assessment, use ELSD sonar estimates to assess run strength and to project escapement**
  - **Use all indices: ELSD, Net apportioned, CPUEs, ESSN and SSART**

# Summary

---

- **TS-Based estimates often do not provide meaningful data to support management actions**
- **Other sources of information more reliable**
- **Manage conservatively during transition**
- **DIDSON-Based in-season assessment and goals**

**Questions?**

