### Lower Columbia River Sturgeon Annual Review

#### Washington Fish and Wildlife Commission Meeting





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### Purpose

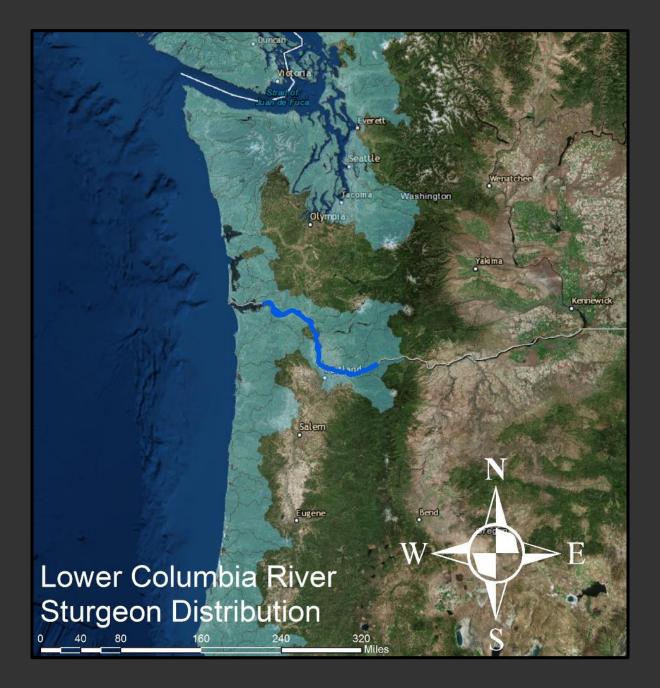
- Annual review of stock status and fisheries.
  - Commission Policy C-3001 "Lower Columbia Sturgeon Management"



### Outline

- Policy Guidance
- 2018 Fisheries
- Stock status
- Predation rates
- 2019 Fisheries





### Policy Guidance: C-3001

- New Policy adopted January 25, 2019.
- "...to provide consistent management guidelines that promote a healthy population and provide sustainable fisheries."
- Conservation Objectives:
  - Increase abundance of spawning population
  - Manage with a precautionary approach
  - Population monitoring (within available resources)
- Fishery Management Objectives:
  - Quantify impacts of fisheries on sturgeon abundance
  - Consider projected recruitment and mortality sources
  - Monitor and manage fisheries

### **Recent Guidance**

- Retention prohibited in 2014-2016.
- Work with ODFW staff to manage for a limited White Sturgeon harvest in 2017 and 2018.



### 2018 Retention Fishery Allocation

- Total Catch Guideline: 6,160 fish
- Commercial Fishery: 1,230 fish (20%)
- Sport Fishery: 4,930 fish (80%)
  - CR Estuary: 2,960 fish
  - CR Wauna-Bonneville: 1,230 fish
  - Willamette River: 740 fish (no retention fishery opened)

### 2018 Commercial Fishing Harvest

#### Mainstem

• Late August catch: 413 fish

#### Select Area

- Spring/Summer catch: 296 fish
- Fall catch: 117 fish

### Total Catch: 826 fish

67% of the 2018 commercial guideline

## 2018 Sport Fishing Opportunities

#### <u>Estuary</u>

- May 14–June 9 (11 d)
- 18,300 angler trips
- Catch: 2,412 fish

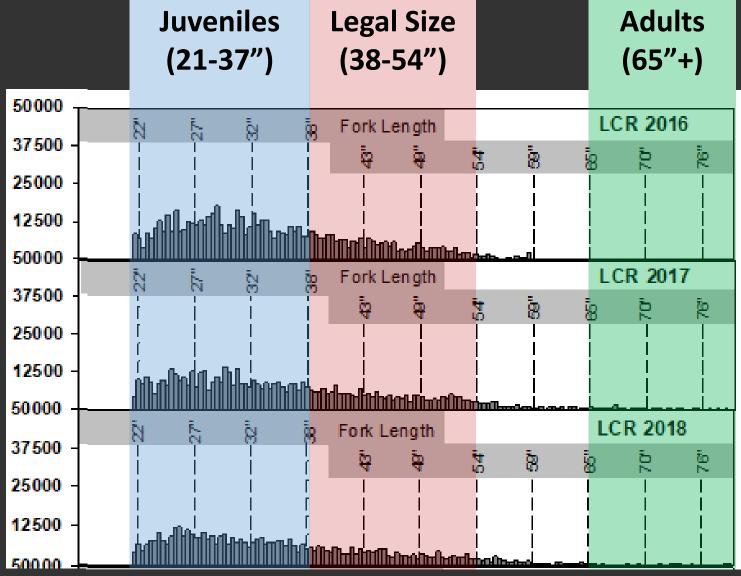
#### Wauna to Bonneville

- September 15 & 22 (2 d)
- 11,000 angler trips
- Catch: 1,049 fish

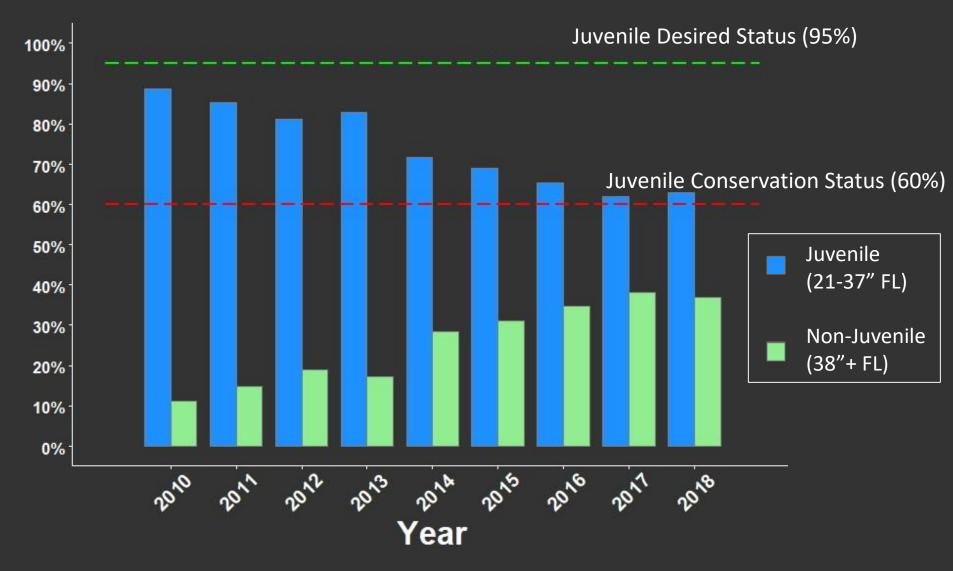
#### Total Catch: 3,461 fish

- 70% of the total sport harvest guideline
- 81% of Lower Columbia harvest guideline
- 31,900 angler trips for retention and catch-andrelease fisheries

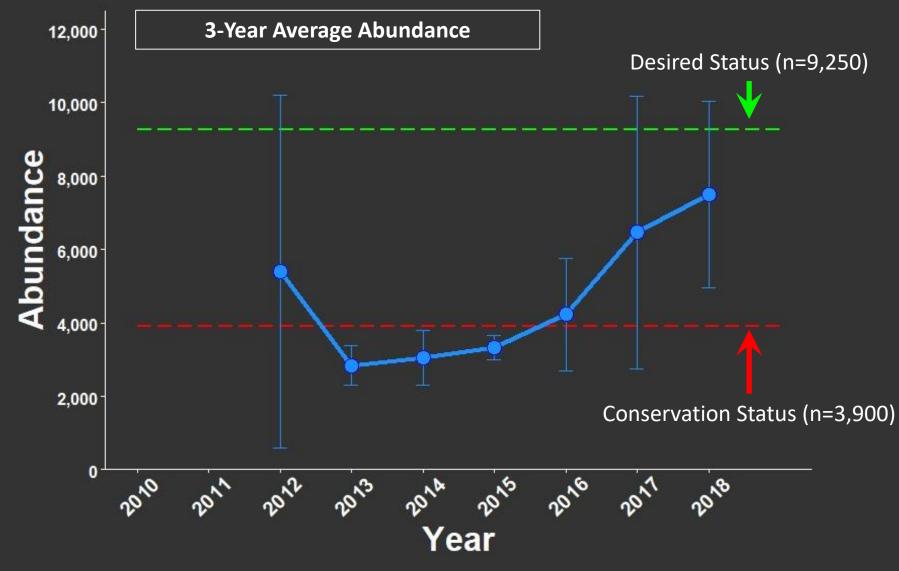
### Estimated Abundance



### Population Composition: 2010–2018



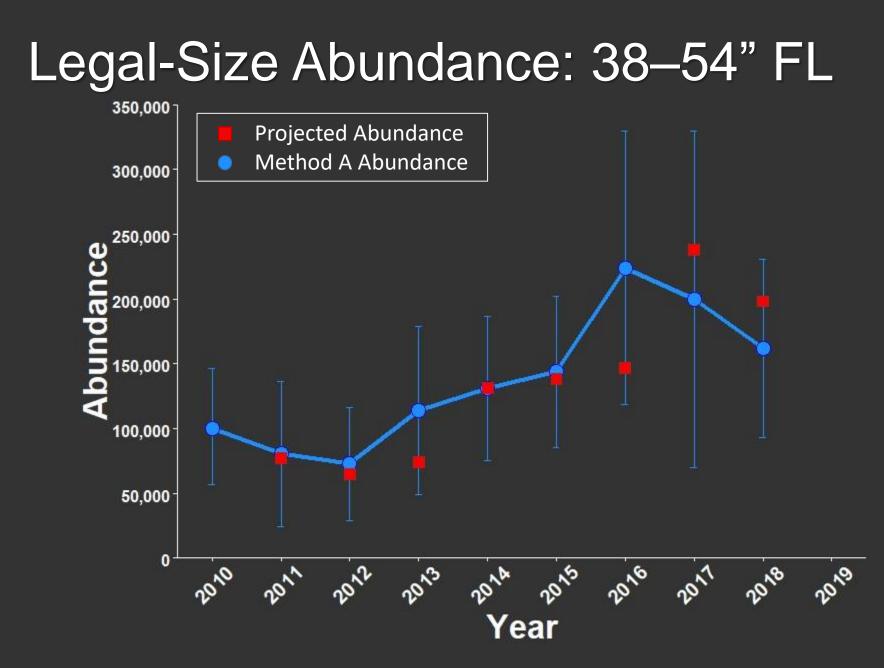
### Adult Abundance Estimates: >65" FL

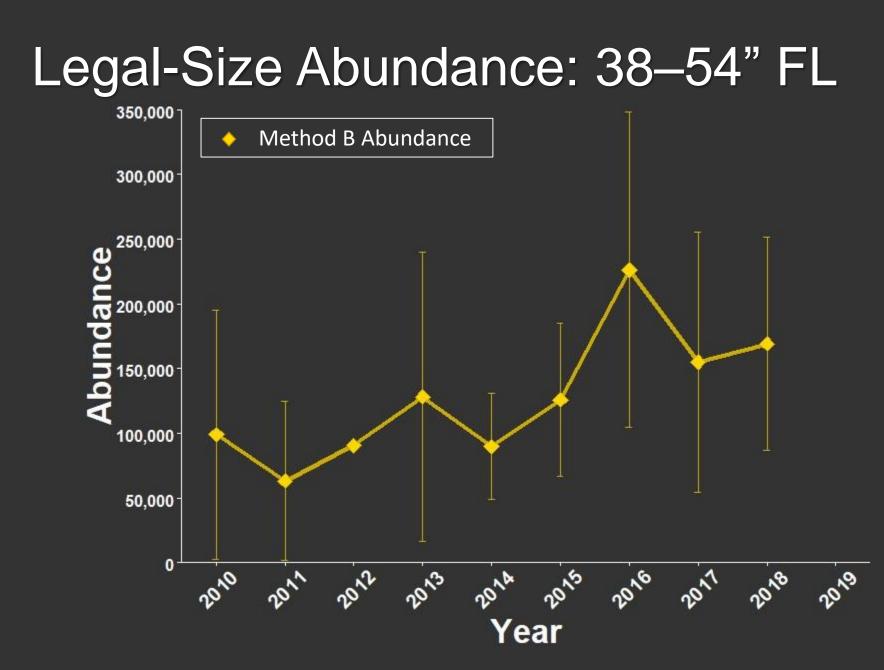


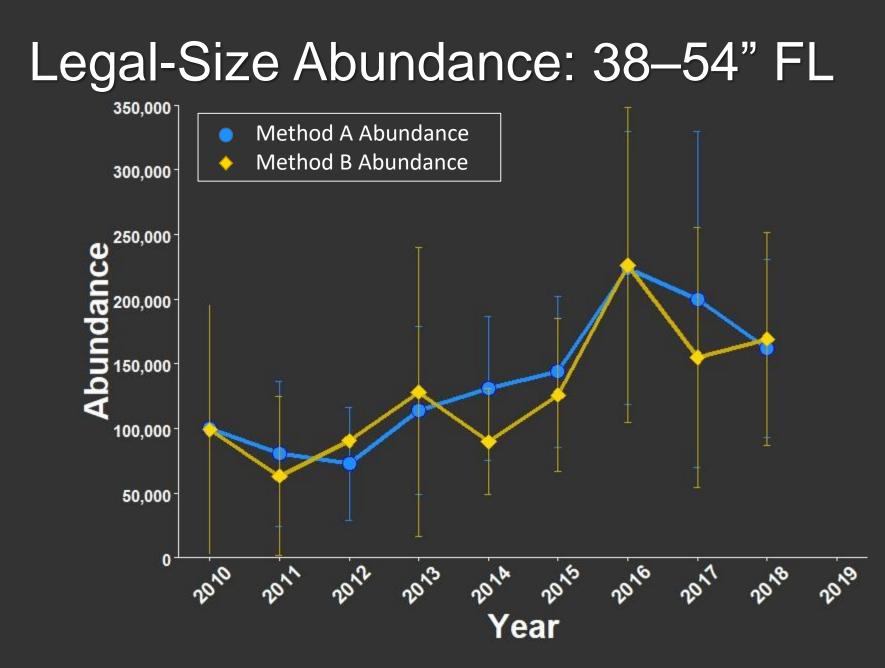
# Legal-Size Setline CPUE: 38–54" FL 3.5 3.0 Э<sup>2.5</sup> Ось Сы

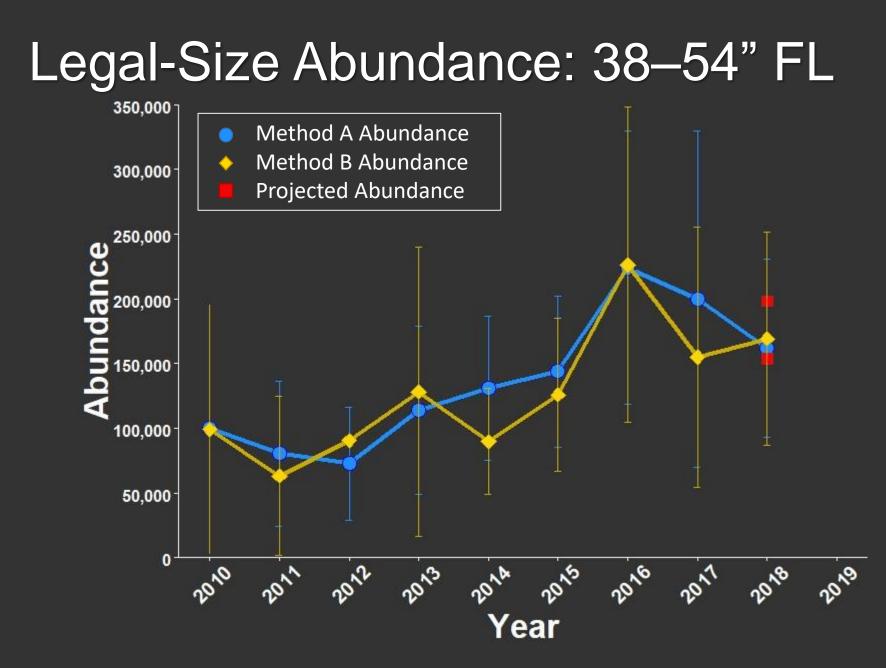
Increasing trend of setline CPUE for

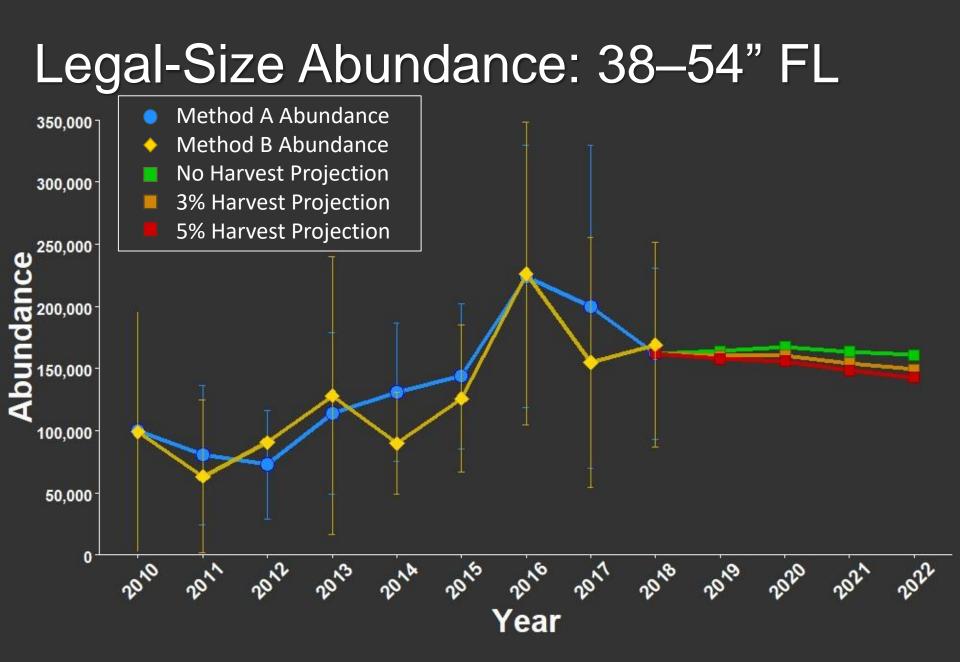


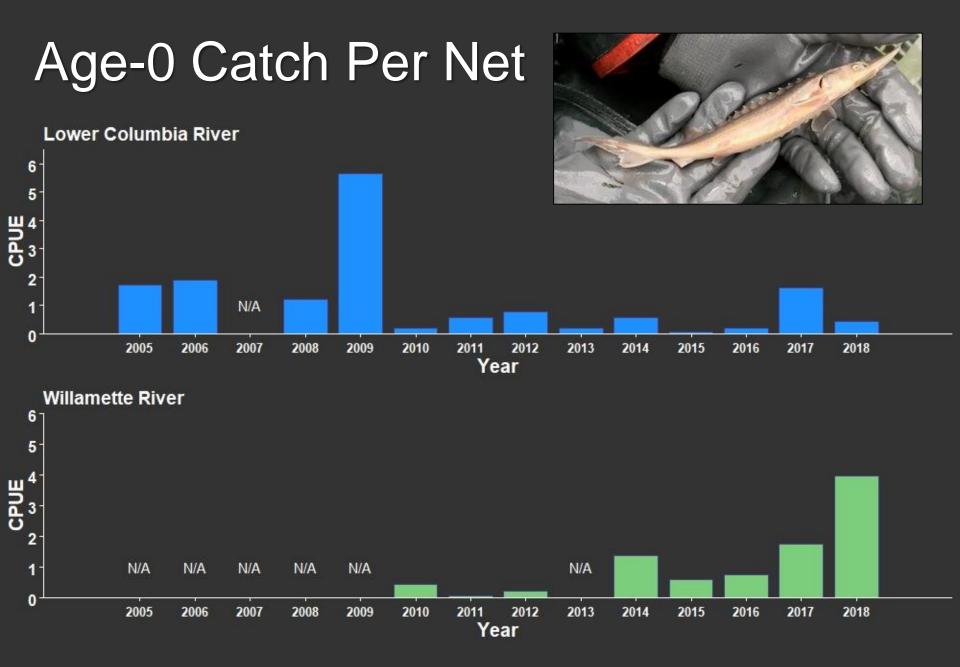




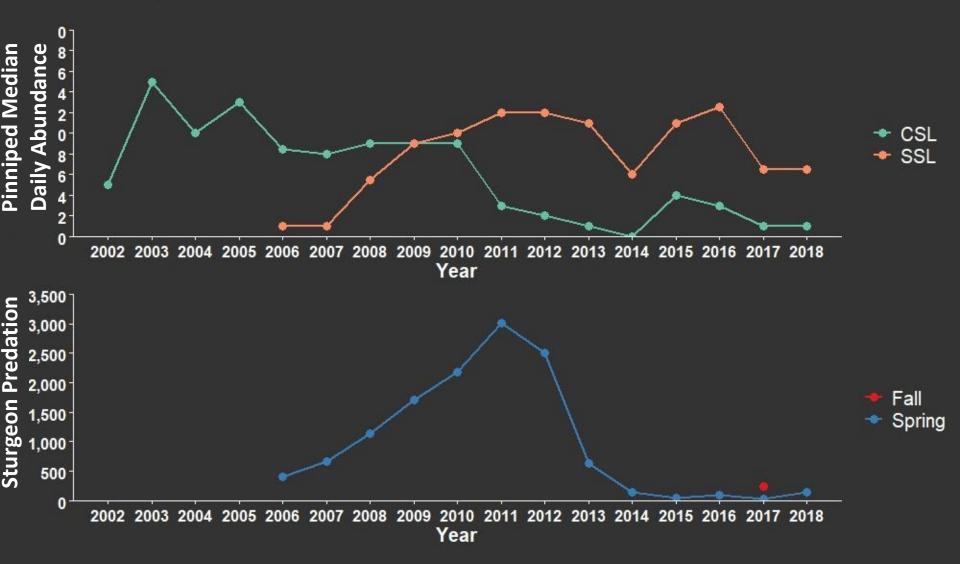








### **Pinniped Predation at Bonneville Dam**



### 2018 Summary

Metric	Ν	Interpretation	Brief Summary
Abundance Trends 38" – 54" FL	162,182	162,182	<ul> <li>19% less than 2017.</li> <li>28% less than 2016.</li> <li>Increasing trend in CPUE setline tagging fisheries.</li> </ul>
Adult (>65" FL)	2018: 6,108 3-yr avg.: 7,493		<ul> <li>Trend has leveled out.</li> <li>2018 adult abundance average estimate is above conservation status level, but below desired status.</li> </ul>
Population Structure	~63% juvenile		<ul> <li>Continued low relative abundance of juvenile and sub-legal sized fish indicates productivity issues.</li> </ul>

### 2018 Summary

Metric	Ν	Interpretation	Brief Summary
Recruitment Index (CPN)	LCR: 0.43 WR: 3.96		<ul> <li>Mixed Results</li> <li>&lt;1 CPN in LCR</li> <li>Highest ever for LWR</li> </ul>
Sea Lion Predation at Bonneville	Spring: 148		<ul> <li>Lower predation observed than 2011</li> <li>Unknown levels elsewhere in LCR</li> </ul>
LCR Fisheries (retention and catch-and-release)	Estuary: 18,735 angler trips Total: 31,923 angler trips		<ul> <li>Participation down from pre-closure.</li> <li>Higher participation than during catch- and-release only fisheries.</li> </ul>

### Public Input

- Shared stock status update with Columbia River advisory groups in January.
- Sport advisors generally supported another retention fishery similar to the structure of 2017 and 2018.
- No comments received from commercial advisors.

### Next Steps

- Work with ODFW to develop another shortduration retention fishery, similar to 2017 and 2018.
- Target low harvest rate 3.5-4.5% of actual legal slot.



# Thank you



# **Questions?**

