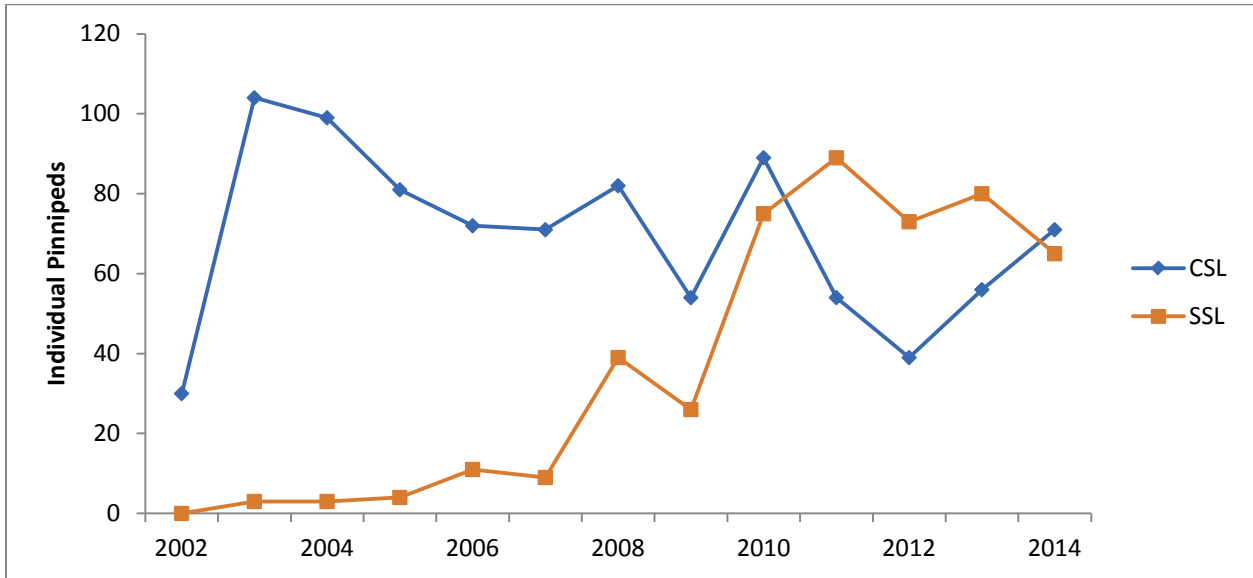


FPOM - 12 June 2014

Preliminary 2014 Pinniped Data (do not cite)

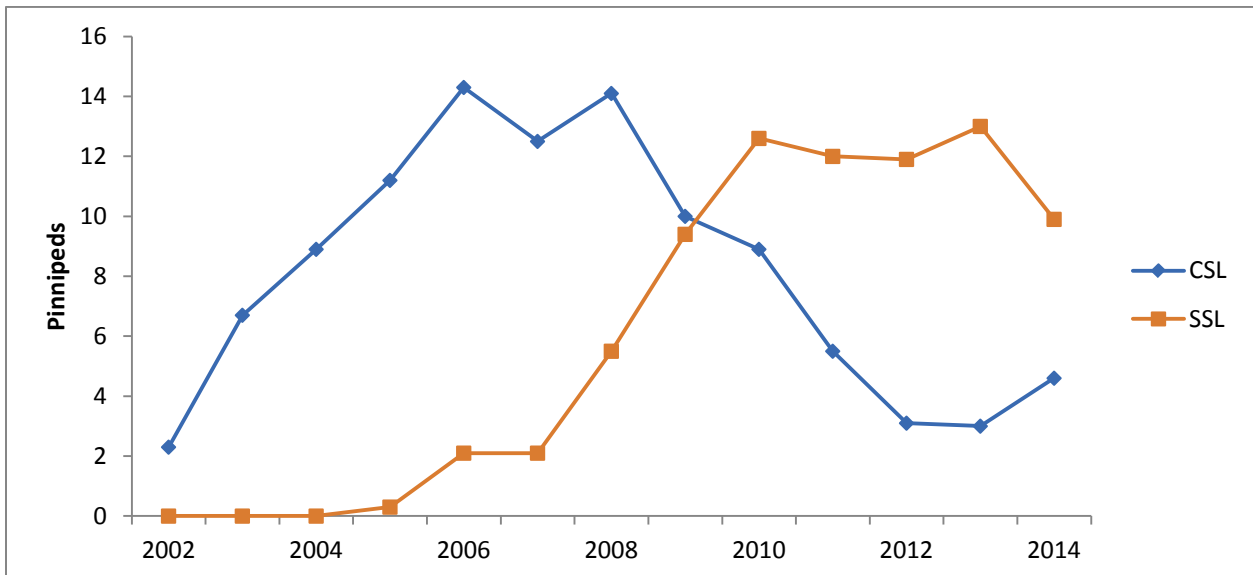
### 1. Annual Abundance (2002-2014)

- SSL = 65 individuals in 2014, decrease from 2013
- CSL = 71 individuals in 2014, increase from 2013
- Robert Stansell compared 2014 to 2010 when we had an influx of “new” CSLs at Bonneville.
- 2014 had approximately two-thirds “new” CSLs and one-third “repeat” individuals.



### 2. Daily Average Abundance (2002-2014)

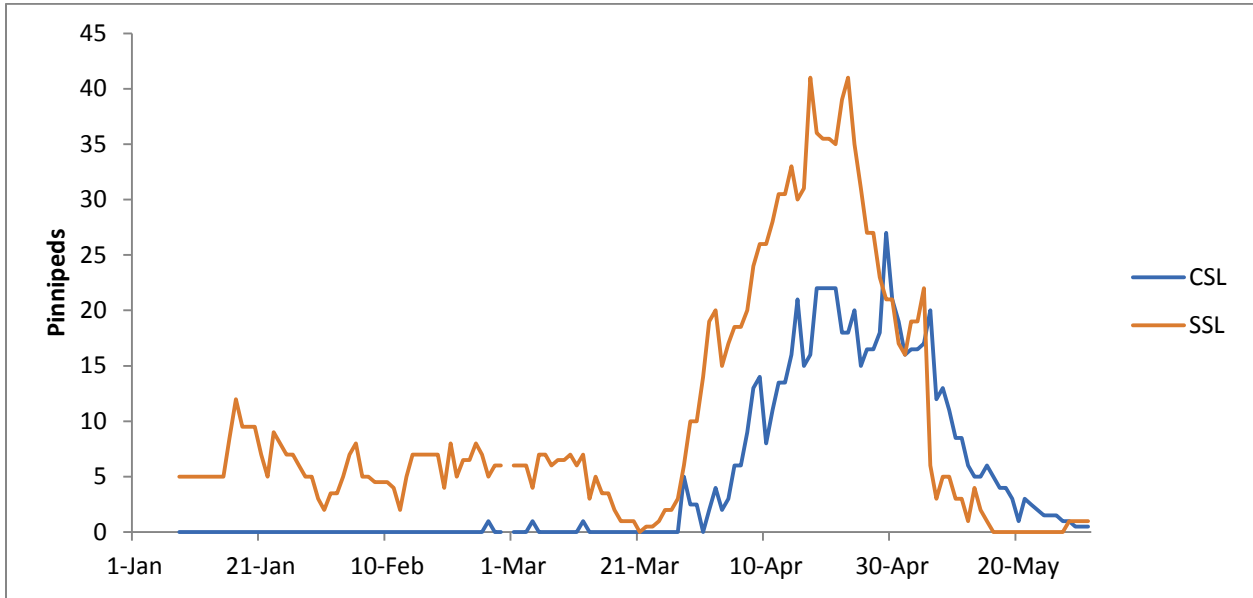
- SSL = 9.9 individuals, lower than 2010-2013
- CSL = 4.6 individuals, still low compared to 2004-2010
- 2014 was similar to recent years where we had more SSL present on average than CSL.



### 3. Daily Abundance 2014 (Jan-May)

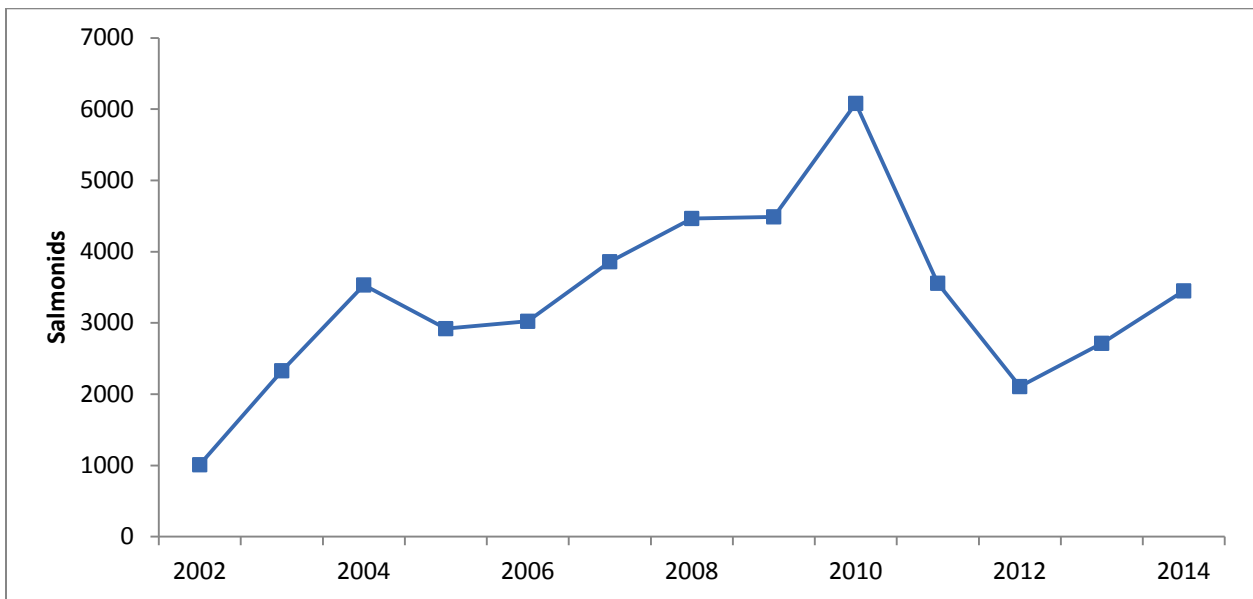
- SSL = 9.9 average, range = 0 - 41
- CSL = 4.6 average, range = 0 - 27

- When you look at pinniped numbers across the season, you see that CSLs are mainly present during April and May, while SSLs are more prevalent throughout the January through May time frame.

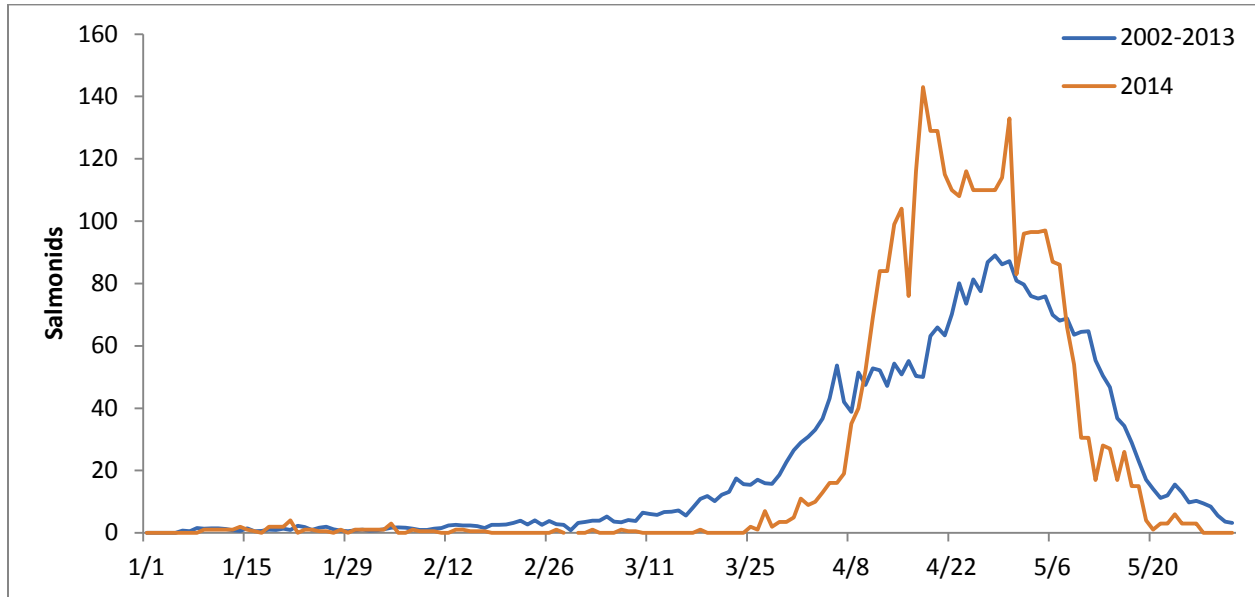


### 4. Salmonid Predation (2002-2014)

- 2014 expanded estimate = 3450 salmonids (~60% by CSL, ~40% by SSL)
- 2002-2013 range = 1010-6081, average = 3341
- 2014 % of the run consumed will be around 2%
- 2002-2013 range = 0.4-4.9%, average = 2.4%

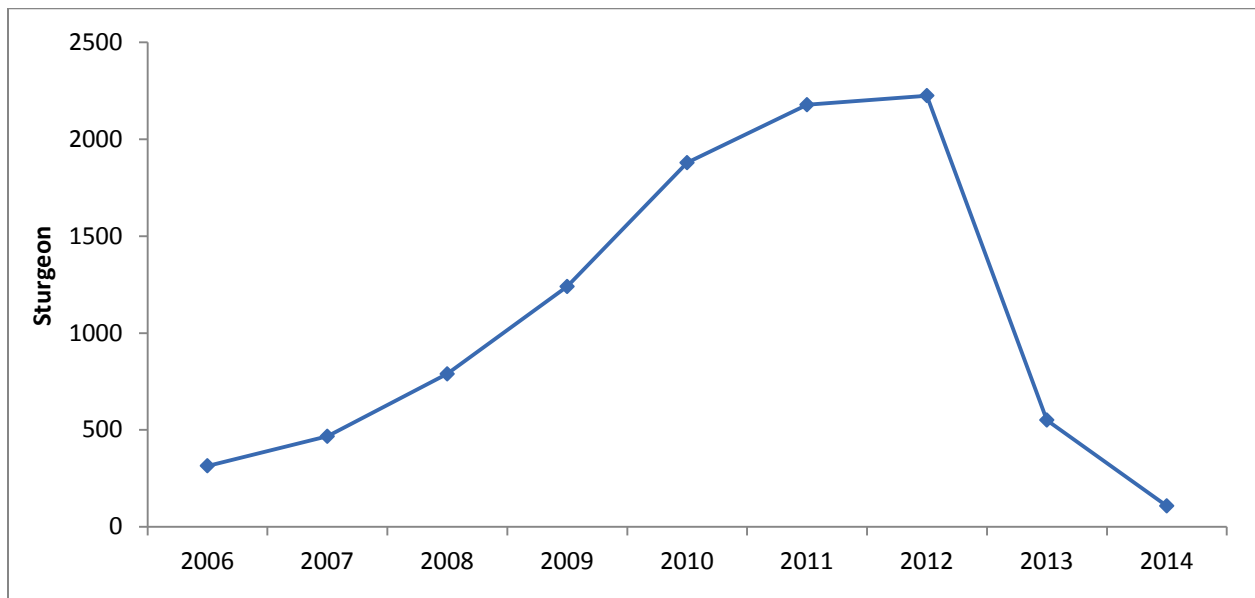


5. Salmonid predation for 2014 compared with the 2002-2013 average  
 - 2014 had a more concentrated predation period compared to the average.



6. Sturgeon Predation (2002-2014)

- Expanded estimate for 2014 = 108 sturgeon consumed
- Lowest level of predation since SSLs were noted consuming sturgeon at Bonneville.



7. Branding and Removals (ODFW & WDFW)

- 55 CSL removed 2008-2013; 15 CSL removed in 2014
- 21 CSL branded at BON in 2014; 0 SSL branded in 2014
- It would be beneficial if the process to get CSLs on the official list for removal were quicker. It is common for an animal to qualify for removal, but it can take weeks to get on the official list.
- No funding in 2014 to brand SSLs which will make our observations more difficult in the future.

<b>Year</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>Total</b>
<b># of CSL Removed</b>	N/A	8	15	14	1	13	4	15	70
<b># of CSL Branded</b>	8	4	3	9	9	6	11	21	71

8. Fall Data Collection (Oct-Dec 2011-2013)

- Trend of more pinnipeds present, less sturgeon predation, and more salmonid predation.
- SSLs are returning to Bonneville as early as August.
- Common to see a dozen SSLs hauled out at Bonneville in the fall months.