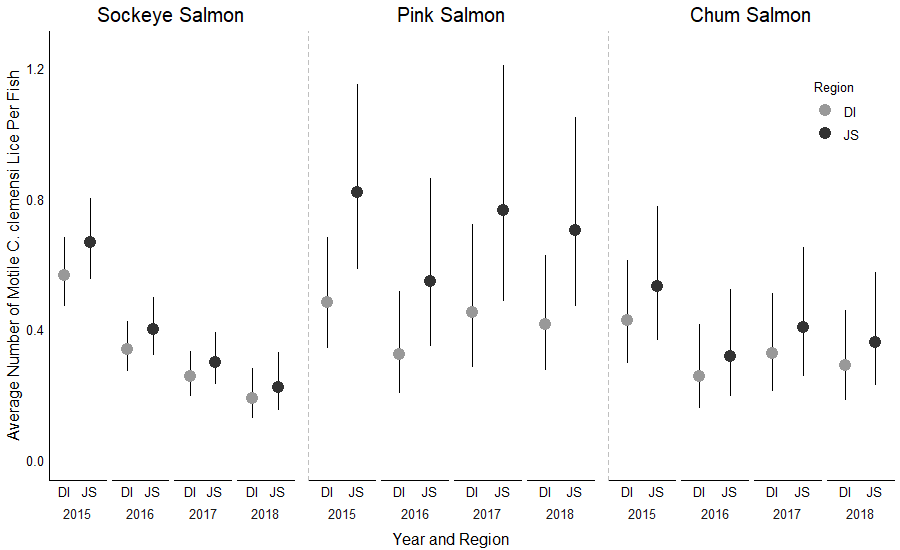
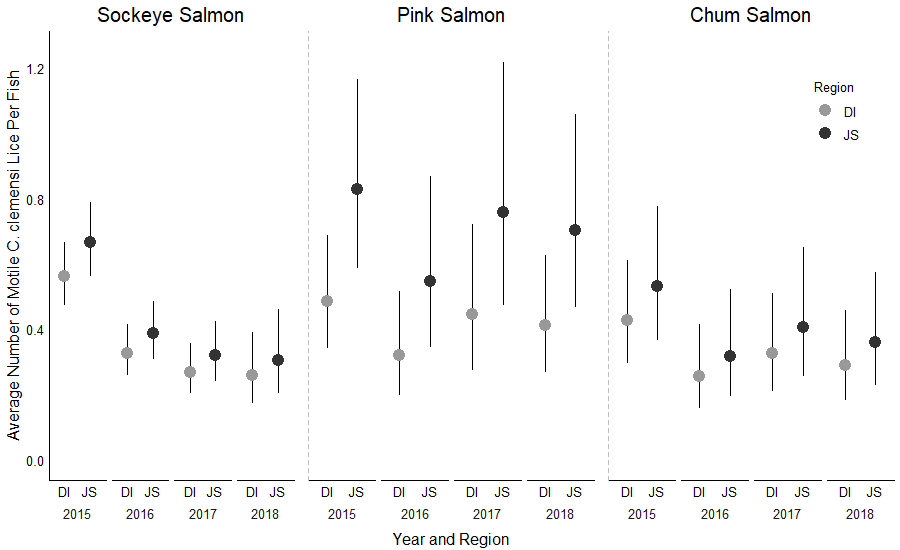
**Negative Binomial & Poisson Model Comparisons**

Below are the plots of the model results for the region-level models with sampling region and year as the fixed effects and week of the year as a random effect. Two versions of these plots were created, one using models with a Negative Binomial Distribution, and the other using a Poisson distribution.

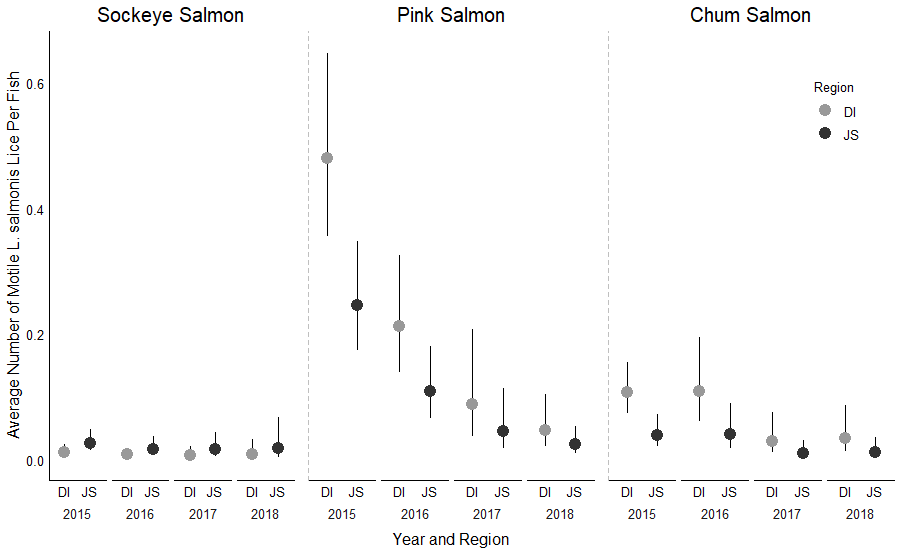
Generally, the results are very similar, particularly for the *C. Clemensi* estimates, with a small amount of variation in a few of the *L. salmonis* estimates.



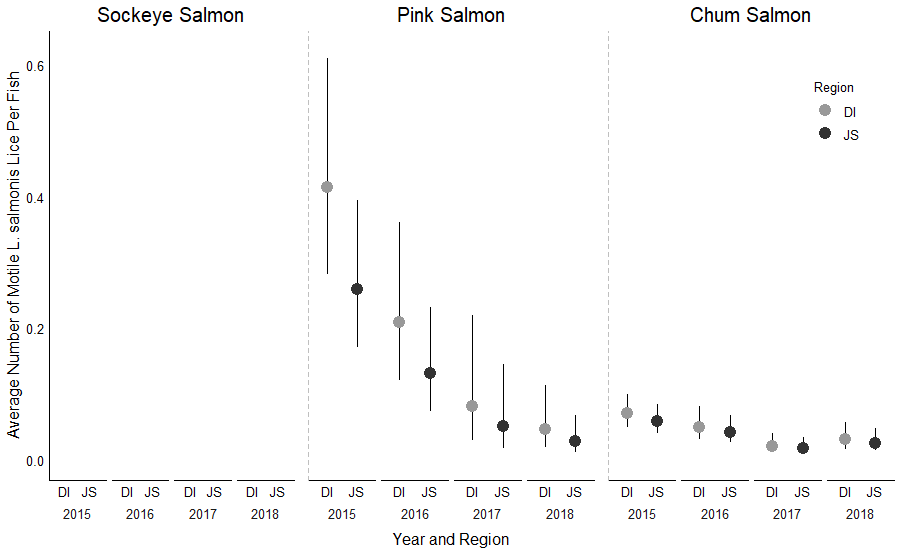
**Figure 1:** *C. clemensi* Lice with Poisson Model

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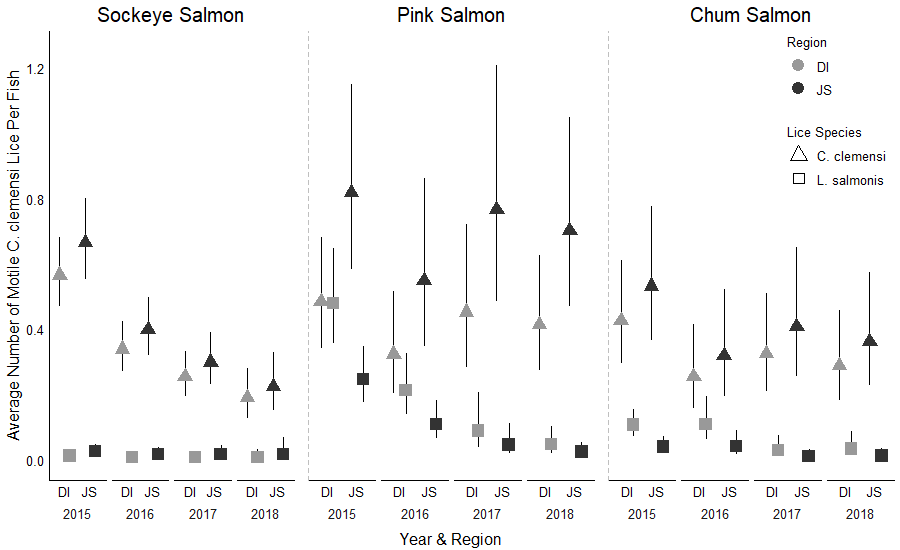
**Figure 2:** *C. clemensi* Lice with Negative Binomial Model

****

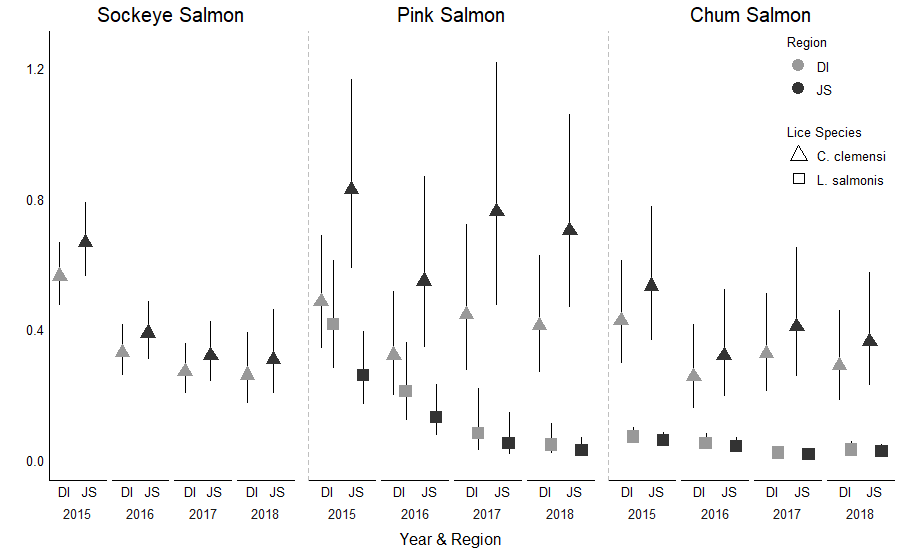
**Figure 3:** *L. salmonis* Lice with Poisson Model

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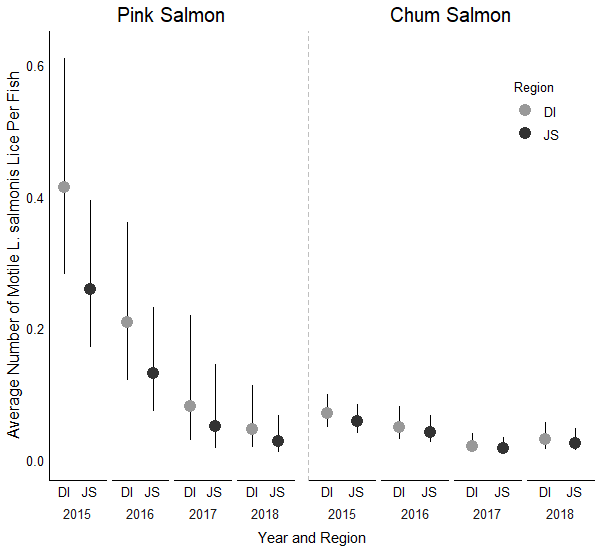
**Figure 4:** *L. salmonis* Lice with Negative Binomial Model – *Plot option 1 – see option 2 below*

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**Figure 5:** Both Lice with Poisson Model

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**Figure 6:** Both Lice with Negative Binomial Model

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**Figure 7:** *L. salmonis* Lice with Negative Binomial Model – *Plot option 2*