Keogh river steelhead

To do:

Aggregate steelhead “recruits” by brood/hatch year across all cohorts represented for that hatch.

Need steelhead “adults” from resistivity data.

Find information on pink salmon returns (from Colin Bailey). Life cycle is relatively fixed at 2 years. So recruits ~ spawner is a N(t+2) ~ N(t)

Find information on coho returns (from provincial sources?). Life cycle is relatively fixed at 3 years. Recruits ~ spawner is N(t+3) ~ N(t).

Dolly varden and cutthroat will be adults to adults (unknown lag time).

Questions to look at:

1. Use Kalman filter to look at changes in productivity over time. Could fit a recruit model and look at changes in alpha. Then relate alpha between species to see whether alpha goes up or down with other species.
2. Integrated steelhead life-cycle model and how diverse Keogh steelhead are, and whether there have been changes in any life stage corresponding to the flow experiments
   1. May need to hindcast flow regimes based on nearby watersheds.