
MARY THIESS, Fisheries and Oceans Canada

Time Series Analysis: Assessing the “pink salmon” effect

Fraser River sockeye salmon have received a lot of press recently due to highly variable adult returns in recent years amid a general overall decline. One of many hypotheses to account for some of this variability suggests the potential for competition between sockeye salmon and pink salmon. Isolating the relationship between their respective time series requires the assessment (and quantification) of auto-correlation and non-monotonic trend over time. This poster will outline the challenges of assessing the “pink salmon” effect and highlight some approaches to analyzing these data.