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# Sources and Magnitude of Sampling Error in Redd Counts for Bull Trout

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## Abstract

Monitoring of salmonid populations often involves annual redd counts, but the validity of this method is limited by several factors. One of the most significant is the variability in redd counts, which can be caused by a number of factors, including spatial and temporal variability in redd counts, and redd counts themselves. This variability can be caused by a number of factors, including spatial and temporal variability in redd counts, and redd counts themselves. Counting errors are a common problem in redd counts, and can be caused by a number of factors, including limited spatial and

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temporal variability in spawning activity, which should be considered in establishing index areas for redd counts and the timing of counts. Our results suggest substantial improvements are needed to make redd counts and unbiased estimates of adult escapement more useful for population monitoring.

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