

LOCAL AND REGIONAL TRENDS IN BREEDING AND MIGRATORY BIRD POPULATIONS IN THE KLAMATH AND ROGUE RIVER VALLEYS 1993-2003

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Abstract: We monitored bird populations from 1993-2003 using mist nets at two riparian banding stations, one on the Klamath River in northern California and the other on the Rogue River in southern Oregon. We used these data to investigate population trends of 31 species of breeding and fall migrant birds and compared these population trends with those from the Breeding Bird Survey (BBS) Southern Pacific Rainforest Physiographic Strata for the same time period. Qualitatively, the BBS and mist-netting trends corresponded well; the direction of most trends was consistent across the different data sets. However, when compared quantitatively with Spearman rank correlations, we found that the relationship between mist-netting trends and BBS trends was generally weak. We also found little correspondence between trends at the Rogue River site and Klamath River site during the breeding season, suggesting that different population-level processes may be occurring at each site. Comparing local trends to larger-scale BBS results provides information about local and regional population trends and adds to the increasing evidence that regional population declines are occurring in songbirds.