FWCB Graduate/Faculty Seminar Presents

Burrowing owl population assessment in eastern Colorado





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Burrowing owl (Athene cunicularia) populations have been declining in regions across the Great Plains due to nesting habitat loss and degradation. This decline has been closely linked to declines in black-tailed prairie dogs (Cynomys ludovicianus), which provide important nesting habitat for burrowing owls and other grassland birds. I examined the effect of black-tailed prairie dog colony attributes on burrowing owl occupancy, density, and productivity. I investigated how prairie dog colony size, activity level, and vegetation characteristics influenced these population parameters on 175 survey plots throughout eastern Colorado during 2022 and 2023. Burrowing owl occupancy and adult density were higher in southern CO compared to northern CO. Prairie dog activity level had a strong positive effect on adult owl density and the probability that a plot was occupied with successful reproduction. Colony size and vegetation characteristics were generally not helpful predictors of burrowing owl populations across the black-tailed prairie dog range in Colorado and highlights the importance of active colonies, regardless of size.

Join us at 3pm

May 3, 2024 Wagar Building 133

Host Dr. Bill Kendall



Colorado State University