Evaluation of Population Indices and Estimators for Scaled Quail in the Rolling Plains of Texas

Bradley Kubečka
Rolling Plains Quail Research Foundation

John T. Edwards
Texas A&M University, Kingsville

Fidel Hernández
Texas A&M University, Kingsville

Dale Rollins
Rolling Plains Quail Research Foundation

Follow this and additional works at: https://trace.tennessee.edu/nqsp

Part of the Natural Resources and Conservation Commons

Recommended Citation
https://doi.org/10.7290/nqsp08irj
Available at: https://trace.tennessee.edu/nqsp/vol8/iss1/92

This article is brought to you freely and openly by Volunteer, Open-access, Library-hosted Journals (VOL Journals), published in partnership with The University of Tennessee (UT) University Libraries. This article has been accepted for inclusion in National Quail Symposium Proceedings by an authorized editor. For more information, please visit https://trace.tennessee.edu/nqsp.
EVALUATION OF POPULATION INDICES AND ESTIMATORS FOR SCALED QUAIL IN THE ROLLING PLAINS OF TEXAS

Bradley W. Kubečka
Rolling Plains Quail Research Foundation, Rotan, TX, 79546, USA

John Edwards
Caesar Kleberg Wildlife Research Institute, Texas A&M University- Kingsville, Kingsville, TX 78363, USA

Fidel Hernández
Caesar Kleberg Wildlife Research Institute, Texas A&M University- Kingsville, Kingsville, TX 78363, USA

Dale Rollins
Rolling Plains Quail Research Foundation, Rotan, Tx 79546, USA

ABSTRACT

Accurate and precise population indices and estimators are important to gain reliable knowledge and make appropriate management decisions. Indices and estimators for scaled quail (*Callipepla squamata*), however, have not been evaluated thoroughly. Our objectives are to compare relationships among 8 years of roadside counts, spring call counts, and mark-recapture data obtained from the Rolling Plains Quail Research Ranch in Fisher County, TX, USA. Furthermore, we assess the efficacy of distance-based helicopter surveys as a method for scaled quail density estimates as compared to mark-recapture estimates for 2016–2017.


Key words: scaled quail, *Callipepla squamata*, population indices, mark-recapture, density estimates

---

Email: bradley.kubecka@students.tamuk.edu

© 2017 [Kubečka, Edwards, Hernández and Rollins] and licensed under CC BY-NC 4.0.