# FURBEARER MANAGEMENT PROGRAM UPDATE







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MARCH 2023 PWC MEETING- AURORA



# LONG TERM COMMITMENT TO SWIFT FOX **MONITORING:** 1995-2021

## ESTIMATION OF SWIFT FOX POPULATION SIZE AND OCCUPANCY RATES IN EASTERN COLORADO



### **EXECUTIVE SUMMARY**



- A decline in populations of swift fox (Vulpes velox) lead to a 1992 petition of the U.S. Fish and Wildlife Service (USFVKS) to list the swift fox as under the Endangered Species Act of 1973 (ESA). The Colorado Division of Wildlife (DCMV) and other wildlife agencies within the peopraphic range of the swift fox formed the Swift Fox Conservation Team (SPCT) in 1973.
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Because populations of swift fox in the northern plains were greatly diminished or estimated, the CDOV's so operating with Baddonds National Park (BBP) to the CDOV's so operating with Baddonds National Park (BBP) to the CDOV of the CD

- Based on the methods of Finley (1999), the CDOW monitored swift fox in eastern Colorado from 31 August 2004–12 February 2005. Following objectives of the SFCT, the pasks of this project were to 1 10 Determine occupancy rates, 2, Estimate peographic distribution, 3) index population size, and 4) Test for seroprevalence of 3 infectious diseases in the swift for population.
- We set cage-traps on 51 randomly selected grids measuring  $3 \times 4 \text{ mi}^2$ . Each grid consisted of 20 traps, one set near each section corner, and run three consecutive nights. Our effective trapping effort totaled 3,008 TrapNights (TN).
- We captured 136 swift fox on 36 (71%) grids, including 12 recaptures (55 females, 61 males, and 8 in which sex was not determined). The estimated occupancy rate using the average amount of short grass prairs found on the 51 grids samples was 0.777 (SE = 0.078, 95% CI 0.589 -0.894). When the estimated occupancy assumed across the 51 grids using the observed amount of short grass prairie on

# STATUS OF SWIFT FOX EASTERN COLORADO



### MONITORING SWIFT FOX USING REMOTE CAMERAS IN EASTERN COLORADO



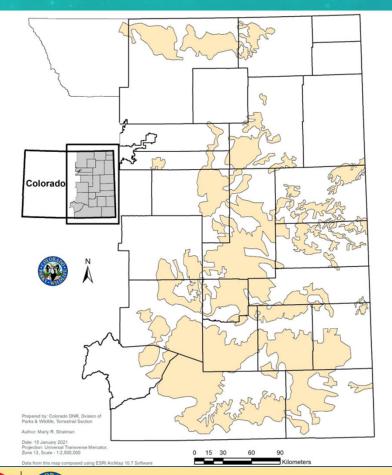
### STATUS OF SWIFT FOX IN EASTERN COLORADO



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# **2021 OCCUPANCY MONITORING RESULTS**



- SGP patch size matters
- ~34,000 km² occupied SGP
- Very low projected harvest rate







# PINE MARTEN

- Conservative statewide abundance = ~5,000
- Annual statewide harvest = ~320
- Annual harvest rate = ~6 %

