

THE UNIVERSITY OF MICHIGAN
ANN ARBOR, MICHIGAN, U. S. A. 48104

MUSEUM OF ZOOLOGY

July 25, 1974

Dr. Harold F. Mayfield
9235 River Road
Waterville, Ohio 43566

Dear Harold:

I am sorry to say I will be unable to get to the Kirtland's Warbler Committee meeting in September, as I plan to stay in Australia past the date set and spend some time in California on the way back.

If, as you suggest, the population is down, I think it imperative that something be done about analyzing the factors affecting nesting success, and I am embarrassed about my not having followed through on the earlier plan.

I would like to work on this after my return in late September, particularly if there were some money available to hire a graduate student part time to help with it. The general plan would be to use a computer to evaluate the various factors involved. This means obtaining nest-record data, planning an analysis, putting the data on I.B.M. cards, and running them.

At this point, I think it of special importance to compare nesting success on burned vs. bulldozed areas, as this has obvious importance in management.

If the group is in favor of my doing this, I would appreciate ideas, especially concerning other possible factors which might be involved.

Sincerely yours,

Bob

Robert W. Storer

RWS/nm

from Bob Storey - July 25, 1974

Soil

POSSIBLE FACTORS AFFECTING NESTING SUCCESS IN THE KILLDEER'S WARBLER

squares Quality of stand -

- ① 1. Origin of stand through burning or bulldozing
- ② 2. Age of stand in years
- ③ 3. Dominant tree - Jack Pine or Red Pine
- ④ 4. Size of stand in acres
- ⑤ 5. Age of colony in years
- ⑥ 6. Size of colony - number of singing males
- ⑦ 7. Timing of clutch, using date of hatching of majority of young in nest
- 8. Cowbird parasitism - number of eggs, when laid, and fate
- 9. Time of loss in relation to hatching date
- ⑧ 10. Predation and kind of predator if known
- ⑨ 11. Human interference - number of visits to nest
- ⑩ 12. Banding - were adults and/or young banded
- 13. PATTERN OF COVER (OPENING VS SOLID, DISTRIBUTION OF OPENINGS)
- 14. SOIL ANALYSIS
- 15. COWBIRD CONTROL
- 16. GROUND COVER
- 17. NESTING ASPECT (FACING WITH RESPECT TO COVER)
- 18. TEMP. & PRECIP.
- 19. DENSITY OF OVERSTORY (BIG TREES NEARBY)
- 20. NAT. REGEN. VS. PLANTING
- 21. TOPOGRAPHY
- 22. SUCCESS OF 2ND VS 1ST CLUTCHES
- 23. PARASITISM OF 1ST VS. 2ND CLUTCHES
- 24. HEIGHT OF HABITAT (PINES)

17+

BASIC DATA

- ③ 1. Nest number
- ① 2. Observer
- ③ 3. Year
- 4. Locality
- ① 5. Number of warbler eggs laid
- ① 6. Number of warbler eggs hatched
- ① 7. Number of warbler young fledged
- ① 8. Number of brood - first or second

10+

Soil type if different

