WEST AUSTRALIAN FIELD & GAME ASSOCIATION

RESEARCH SECTION



ANNUAL WETLAND SURVEY AND WATERFOWL POPULATION AND BREEDING CENSUS

1979

COMPILED BY THE RESEARCH SECTION, W.A.F.G.A.

FOR SUBMISSION TO THE

W.A.W.A. BIRD COMMITTEE

NOVEMBER 26th 1979.

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ANNUAL WETLAND SURVEY AND WATERFOWL

POPULATION AND BREEDING CENSUS. 1979

1. INTRODUCTION.

In accordance with the Association's practice of submitting details and interpretations of wetland and waterfowl surveys to the W.A.W.A. Bird Committee prior to considerations for an open duck season, the following report is presented. Surveys were collected during mid-October to late November.

It should be noted here that Association commitments to the National Simulated Field Shooting Titles held in late September in Perth drained its manpower resources (all voluntary) considerably, to the extent that the number of wetland surveys completed were substantially less than in previous years.

SURVEY METHOD.

As in 1978, surveys were directed to Wetland Complex Systems. In cases where Complexes comprised many lakes, the procedure was, as before, to survey a selected number being representative of the whole Complex.

Ground inspections of wetlands were made in all cases and details of water levels, waterfowl populations and breeding activity were recorded. Where a depth gauge was installed, readings were taken accordingly, otherwise depths are estimates, based on the member's local knowledge. It is practice for members to survey lakes thoroughly familiar to them.

Salinity readings were obtained where possible.

By kind invitation of the Fisheries and Wildlife Department waterfowl Research unit, a Field and Game member accompanied unit personnel on an aerial survey of the central Southern wetland group. Data obtained in that survey is not recorded in this report.

RAINFALL.

Rainfall for the year can only be described as abyssmally low.

Over the South West of the State, total rainfall January to April generally correlated well with the total normal amount for that period. But from May, rainfall in all areas of the South West depreciated sharply.

Rainfall figures for the South West see significant negative departures from normal to the end of October for all districts, the extremes being North Coastal (-41%) and South Coastal (-27%). The mean departure from normal for all districts is -34%.

In September, when total rainfall figures should normally be approxing a peak, approximately 40% of the South West was classified as seriously or severely deficient in rainfall.

The total effect on wetland & (other than the South coastal areas) relying on catchment runs off was disastrous.

4. WETLAND WATER LEVELS.

The accumulated effect of poor rainfall in 1976, 1977, 1978 (reasonable) and 1979 places the majority of wetlands Complexes in a debilitated State, the scale of which has not been seen for many years.

Isolated wetlands on the West coastal system such as Chittering, Wannamal, Benger, Joondalup and Jandabup hold reasonable quantities of water.

However, virtually the whole of the inland wetland Complexes are dry or will be dry by the beginning of January.

Although survey data is not available, reports nevertheless indicate that many of the South coastal lakes are high to full from Albany to Esperance. This would be due to more direct and efficient run off from catchments and the fact that pre-rainfall water levels in these lakes were not as depleted as those to the North.

5. WATERFOWL POPULATIONS AND BREEDING ACTIVITY.

Waterfowl in the recently completed surveys have been most conspicuous by their absence.

The most significant numbers recorded were in the order of 300 - 500 Black Duck and Grey Teal were observed on Forrestdale, Chittering and Mears, the latter probably being dry by January.

Most of the inland Complexes could not be expected to be holding large waterfowl populations in light of the lack of water but surveys have failed to locate large numbers of birds in the usual areas of large congregations.

The South coastal system, expecially the Bremer Bay to Esperance strip is reported to be holding large populations of birds, particularly Black Duck.

In the absence of accurate figures on the populations of Grey Teal and Black Duck, and indeed the most numerous of the other common species, it can only be speculated as to their whereabouts. Early migration is one explanation but the extent of this is virtually impossible to substantiate.

Waterfowl breeding has been very difficult to assess due to prevailing conditions. Some breeding has been observed on the Swan coastal areas North to Wannamal but the extent of breeding appears to be significantly less than in 1978.

Again, the South coastal area may have supported heavy breeding activity but lack of data prevents confirmation.

6. CONCLUSIONS.

Evaluation of the available data indicates an extremely poor situation for both wetlands and waterfowl for all but the South coast areas.

Some concern can be expressed for the apparent diminishment of breeding but it is quite conceivable that waterfowl stocks can be sufficiently compensated for by breeding activity in the South coastal areas.

6. CONCLUSIONS. cont.

In the light of all evidence, too dark a situation should not be drawn over apparent lack general distribution of birds and breeding. Waterfowl have demonstrated remarkable powers of recovery and survival in Australia generally, not the least aspect being their nomadic ability.

It is again conceivable that large numbers of waterfowl may have moved Interstate or North and similar numbers could be expected to return when conditions warrant.

It is the migratory aspect of waterfowl movements that requires a substantial monitoring programme to provide the necessary authoritative data in situations such as we now experience.

RECOMMENDATIONS.

In view of the available data, which indicates a serious lack of surface water in the majority of recognised wetland Complexes, this Association does NOT recommend an open season on ducks for 1979-80.

It anticipated that the benefit of a closed season will be reflected in waterfowl stocks being consolidated during 1980 and subsequent years.

It should be noted however, that sections of this Association pressed determinedly for a confined open season on the South coast only, where local evidence indicated to them that this area alone could apparently absorb a shooting season.

APPENDIX

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