SHEBA: COMPUTER PROGRAMS FOR SEXING BIRDS ON MEASUREMENTS USING UNIVARIATE DATA

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This paper presents a suite of user-friendly computer programs designed for univariate analysis of measurements of sexually size dimorphic birds which have not been sexed by other means. Two of the programs estimate the measurement parameters for each sex (number, mean, standard deviation) and two use these estimates to produce a sexing criterion or rule by which a sex can be assigned to individual birds. Utility programs for preparing bivariate histograms are also presented. Although designed for the problem of sexing birds on measurements, the programs can be used for other univariate problems involving the separation of mixed normal distributions. The programs are only available for IBM machines (or clones) operating under DOS and are available from the Australian Bird Study Association, PO Box A313, Sydney South, NSW 2000.