
computer corner

Management Data Manipulation Program

SPECIES and DATAMAN are useful resource management data manipulation programs. They were written by Noel Parlovic and Maria Rodriguez to allow rapid community monitoring data entry and easy data manipulation to formats useful for data analysis and study. Both programs are written in Microsoft Fortran.

SPECIES permits rapid species list creation into an ASCII file, so there is no longer a need to type out full species names with taxonomic authorities. The program requires an initial creation of a list of organisms you use frequently. Interactive entry of eight letter codes creates the desired list. The program comes with full documentation and an example.

DATAMAN converts condensed data matrices into various formats for easy analysis. The input data consist of species abundances at various samples or plots. Such data are sparse and so can be entered as a condensed format which takes less entry time than entering the full matrix with all the zero values. DATAMAN converts such a matrix to full format where each column of the matrix represents abundances of species across many samples. It can also output diversity indices with the full format matrix and convert an unordered condensed matrix into an ordered one. Lastly it will transpose repeated measurement monitoring data into a matrix where each row displays the repeated values of a species sampled at each plot. This allows easy examination of the data for trends over time.

These programs are available for IBM compatibles in versions that run with and/or without a math co-processor. Full documentation, source code and executable programs are free. Send a blank disk and specify type of computer system to: **Noel B. Pavlovic, Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304. (219) 926-7561, FTS 370-6420.**

Submitted by
Noel B. Pavlovic
and Maria Rodriguez