

Genoways, H. H. and F. J. Brenner, editors. SPECIES OF SPECIAL CONCERNS IN PENNSYLVANIA. Special Publication of Carnegie Museum of Natural History, Number 11. 430pp., illustrated, hardbound. Price \$30.00.

In 1979, the National Audubon Society, Pennsylvania Game Commission, and Department of Environmental Resources met to form the Pennsylvania Biological Survey. The first activity of the Survey was to determine which plant and animal species were "in trouble" in the Commonwealth. This book represents the product of Phase I of that activity and provides species accounts for those organisms that may be extirpated from the state with time.

Following introductory statements by representatives of the 4 cooperators in the Pennsylvania Biological Survey, background information is provided on aquatic and terrestrial habitats, physiographic regions, and drainage patterns of the state. Six chapters are devoted to species accounts for plants, invertebrates, and 5 vertebrate groups. The collective findings for the chapters include: 36 species endangered; 41 species threatened; 85 species vulnerable; 55 species of unknown status; 79 species extirpated; and 1 species extinct.

The strength of the book lies in the individualized species accounts. The brief text on each species includes information about identification, geographical range (with both North American and Pennsylvania maps), habitat, life history and ecology, basis for status classification, recommendations, and up to 10 selected references. Citations of literature are not presented in text, adding to the general readability of the accounts. The author (and her or his address) of each account is identified at the end of the account, except for the bird chapter which was written by committee.

As stated in the Foreward, the purpose of this book is to alert agency personnel to the tenuous status of many of these species. The book is written more for the naturalist, presumably to ensure public vigilance upon agencies with jurisdiction within Pennsylvania. As such, it offers little to the professional biologist. Rather, its intent was to present a charge to especially the Pennsylvania Game and Fish Commission through a pleasantly illustrated volume for the naturalist's library.

This listing of species deserving special attention is typical of similar efforts being conducted in other states, and in some federal agencies. Unfortunately, major river systems often separate political entities: drainages and habitats do not. Species in the forest don't recognize the jurisdictions of contiguous political megastructures, but the editors admit that many species included herein are historically marginal to Pennsylvania. This is an eloquently conceived and polished tome that will enrich the lives of all Pennsylvanians interested in the natural world, and will be visibly on the shelves of every administrator in the Commonwealth.--Fritz L. Knopf, Ecology Branch, Denver Wildlife Research Center, Fort Collins, CO 80524-2098.

Weick, Friedhelm. BIRDS OF PREY OF THE WORLD. Paul Parey, Hamburg. 159pp. illustrated. 1980. In German and English.

An unusual bilingual effort to describe all of the diurnal raptors (Order Falconiformes) mainly by 40 tables and 40 color plates illustrating 1,144 "forms" (species, subspecies and color phases). The author, an artist, was strongly influenced by Peter Scott's "Colored Key to the Waterfowl of the World", and uses a similar Peterson Field Guide Technique, minus indicated field marks. The tables are a real "eye test" with some type, giving in both German and English common names (as well as scientific names often to subspecies), distribution and selected measurements opposite each plate might contain 25-30 individual birds in full body side view. The book is too large for a field guide (20x28cm.) but too brief to contain much life-history information. An introductory section, also bilingual, includes keys for size, color, shape of bills and other selected morphometric features.--R.A. Ryder, Fisheries and Wildlife Biology, Colorado State University, Fort Collins 80523.