wetlands add to the difficulty of interpreting the process of decomposition. Because of their succulence, marsh species can decompose extremely rapidly—60 to 80 percent in three months. But on this process, too, data are limited primarily to aboveground parts. To help gain a holistic view J. L. Gallagher presents an invaluable conceptual model that relates the many processes with which we must be concerned.

Nutrient dynamics is considered in riverine and northern wetlands, lakeshore marshes, and freshwater tidal systems. C. J. Richardson and his associates highlight the nutrient dynamics of northern wetlands, which filter efficiently and at the same time have a high nutrient reserve. Thus total losses may be high depending upon the flushing action. Although nitrogen and phosphorus can be readily taken up, they may also be rapidly lost from freshwater tidal systems unless picked up by algal blooms. Although these three basic processes give us many new insights into wetland complexity, we must generalize with caution because there is so much variation among wetlands.

The section on management covers a variety of topics. M. W. Weller expounds the view that wildlife management should be holistic, with emphasis on working with natural processes. Management does not always mean the bulldozer; it may mean the erection of a fence to maintain present conditions. The adverse effects of canal construction in Louisiana are documented by J. H. Stone et al. E. W. Garbisch, Jr., and L. B. Coleman, who have successfully planted Spartina grasses, have now found that the freshwater arrow arum, Peltandra virginica, is another workable species. W. E. Sloev and his associates explore the potential of wetlands as pollution filters here and abroad. In conclusion, F. Stearns encapsulates the management potentials and cautions that, for example, natural wetlands should be used only experimentally for waste-water disposal until we know the long-range effects of such use.

The format of the volume is attractive. The text has been carefully edited, and the articles are well documented. If another topic could have been included it might have been vegetation dynamics, for traditional succession and climax concepts fail to provide a meaningful framework for working with wetland systems. The cyclic pattern of vegetation change as described by A. G. van der Valk and C. B. Davis in their account of prairie marshes provides a prime example.

There remain many exciting and challenging problems in dealing with basic wetland processes and ecological functions. This book will provide a great stepping-stone for many wetland researchers. Collectively such information will be invaluable in helping to preserve the remaining liquid assets.

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