

13. DIVERSITY AND ABUNDANCE

- 13.1 Patil, G. P. and Taillie, C. (1976). Ecological diversity: Concepts indices and applications. Invited paper. *Proceedings of the 9th International Biometric Conference*, Boston. pp. 383-427.
- 13.2 Patil, G. P. and Taillie, C. (1982). Diversity as a concept and its measurement. *Journal of the American Statistical Association*, 77, 548-567. (Invited discussion paper).
- 13.3 Patil, G. P. and Taillie, C. (1979). An overview of diversity. In *Ecological Diversity in Theory and Practice*. F. Grassle, G. P. Patil, W. Smith, and C. Taillie, eds. International Co-operative Publishing House, Fairland, Md. pp. 3-27.
- 13.4 Patil, G. P. and Taillie, C. (1977). Diversity as a concept and its implications for random communities. *Bulletin of the International Statistical Institute*, 47, 497-513. (Invited paper).
- 13.5 Dennis, B. and Patil, G. P. (1977). The use of community diversity indices for monitoring trends in water pollution impacts. *Tropical Ecology*, 18, 1-31,
- 13.6 Dennis, B. and Patil, G. P. (1976). The use of community diversity for monitoring trends in water pollution impacts. A technical report for EPA. 103 pp.
- 13.7 Ord, J. K., Patil, G. P., and Taillie, C. (1981). The choice of distribution to describe personal incomes. In *Statistical Distributions in Scientific Work*, Vol. 6, C. Taillie, G. P. Patil, and B. Baldessari, eds. Reidel Publishing Company, Dordrecht and Boston. pp. 193-201.
- 13.8 Dennis, B. and Patil, G. P. (1977). Species abundance, diversity, and environmental predictability. (1979). (With B. Dennis). In *Ecological Diversity in Theory and Practice*, F. Grassle, G. P. Patil, W. Smith, and C. Taillie, eds. International Co-operative Publishing House, Fairland, Md. pp. 93-114.
- 13.9 Dennis, B., Patil, G. P., and Rossi, O. (1979). The sensitivity of ecological diversity indices to the presence of pollutants in aquatic communities. In *Environmental Biomonitoring, Assessment, Prediction and Management*. J. Cairns, G. P. Patil, and W. E. Waters, eds. International Co-operative Publishing House, Fairland, Md. pp. 379-413.
- 13.10 Taillie, C. and Patil, G. P. (1979). Diversity, entropy, and Hardy-Weinberg equilibrium. In *Ecological Diversity in Theory and Practice*, F. Grassle, G. P. Patil, W. Smith and C. Taillie, eds. International Co-operative Publishing House, Fairland, Md. pp. 63-74.
- 13.11 Patil, G. P. and Taillie, C. (1979). A study of diversity profiles and orderings for a bird community in the vicinity of Colstrip, Montana. In *Contemporary Quantitative Ecology and Related Ecometrics*, G. P. Patil and M. Rosenzweig, eds. International Co-operative Publishing House, Fairland, Md. pp. 23-48.
- 13.12 Ord, J. K., Patil, G. P., and Taillie, C. (1981). Relationships between income distributions for individuals and for households. In *Statistical Distributions in Scientific Work*, Vol. 6. C. Taillie, G. P. Patil, and B. Baldessari, eds. Reidel Publishing Company, Dordrecht and Boston. pp. 203-210.
- 13.13 Patil, G. P. and Taillie, C. (1979). Species abundance models, ecological diversity, and the canonical hypothesis. *Bulletin of the International Statistical Institute*, 44, 1-23.

- 13.14 Ord, J. K., Patil, G. P., and Taillie, C. (1983). Truncated distributions and measures of income inequality. *Sankhya, Series B*, Part 3, 45, 413-430.
- 13.15 Swindel, B., Lloyd, R., Patil, G. P., Taillie, C., and Conde, L. (1987). U. S. National Forest and Management Act, forest ecosystems diversity, and diversity profiles. *COENOSES*, 2(1), 1-8.
- 13.16 Dennis, B. and Patil, G. P. (1986). Profiles of Diversity. In *Encyclopedia of Statistical Sciences*, Vol. 7, S. Kotz and N. L. Johnson, eds. John Wiley, New York. pp. 292-296.
- 13.17 Gove, J. H., Solomon, D. S., Fairweather, S. E., and Patil, G. P. (1991). Maximizing the diameter class diversity of uneven-aged northern hardwood stands. *Proceedings of the Symposium on Systems Analysis in Forest Resources*, Southeastern Forest Experiment Station, USDA, Charleston, SC. pp. 39-45.
- 13.18 Gove, J. H., Patil, G. P., Swindel, B. F., and Taillie, C. (1994). Ecological diversity and forest management. In *Handbook of Statistics Volume 12: Environmental Statistics*, G. P. Patil, and C. R. Rao (eds). North Holland/Elsevier Science Publishers, New York and Amsterdam. pp. 409-462.
- 13.19 Gove, J. H., Martin, C. W., Patil, G. P., Solomon, D. S., and Hornbeck, J. W. (1992). Plant species diversity on even-aged harvests at the Hubbard Brook Experimental Forest: 10 year results. *Canadian Journal of Forest Research*, 22(11), 1800-1806.
- 13.20 Gove, J. H., Patil, G. P., and Taillie, C. (1996). Diversity measurement and comparison with examples. In *Biodiversity in Managed Landscapes: Theory and Practice*, R. C. Szaro, and D. W. Johnson, eds. Oxford University Press, N.Y. pp. 157-175.
- 13.21 Bolgiano, N., Reid, R., and Patil, G. P. (1994). A study of the relationship between diversity indices of benthic communities and heavy metal concentrations of Northwest Atlantic sediments. In *Multivariate Environmental Statistics*, G. P. Patil, and C. R. Rao, eds. North Holland/Elsevier Science Publ., Amsterdam. pp. 33-74.
- 13.22 Gove, J. H., Patil, G. P., and Taillie, C. (1995). A mathematical programming model for maintaining structural diversity in uneven-aged forest stands with implications to other formulations. *Ecological Modelling*, 79, 11-19.
- 13.23 Myers, W. L., Patil, G. P., and Taillie, C. (1995). Comparative paradigms for biodiversity assessment. Invited paper at the IUFRO Symposium in Chiang-mai, Thailand. In *Measuring and Monitoring Biodiversity in Tropical and Temperate Forests*, T. J. Boyle and B. Boontawee, eds. CIFOR, Bogor, Indonesia. pp. 67-85.
- 13.24 Gove, J. H. and Patil, G. P. (1998). Modeling the basal area-size distribution of forest stands: A compatible approach. *Forest Science*, 44(2), 285-297.
- 13.25 Patil, G. P. (2002). Diversity profiles. In *Encyclopedia of Environmetrics, Volume 1*. A. El-Shaarawi and W. W. Piegorsch, eds. John Wiley & Sons, UK. Pp. 555—561.