Stony Ford Theses & Publications

This is a list of theses and publications, marked as follows:

- done (at least partially) at Stony Ford, OR
- * providing a perspective on work at Stony Ford, OR
- • on a topic that could profitably be pursued at Stony Ford.

Unless otherwise noted, the theses were done by undergraduates in the Department of Biology or the Department of Ecology and Evolutionary Biology at Princeton University. For PhD theses, publications are also cited. Not all faculty and post–doctoral publications have been compiled. Missing folks known to have worked at Stony Ford include: V. G. Dethier, J. Hoogland, H. J. Brockmann, D. Mitchell, S. Livdahl, and possibly C. Martinez del Rio.

Please send any additions or corrections to hshorn@princeton.edu.

For convenience the theses are listed alphabetically by author’s last name under these topical headings:

1. **Landscape** (including geology and spatial patterns of habitats.)
2. **Trees** (including shrubs. See also Landscape above.)
3. **Herbs**
4. **Left-over Low Life** (wet & slimy at some stage of life; including slime molds, fungi, lichens, fish, and salamanders.)
5. **Invertebrates** (other than insects.)
6. **Insects**
7. **Birds**
8. **Mammals**

1. **Landscape** (including geology and spatial patterns of habitats.)

    • Curtin, M. E., 1978, Tree succession redux. Prof. H. S. Horn.
    • * Floyd, T., 1990, The edge effect on forest breeding bird community structure: a New Jersey case study. Prof. H. S. Horn.
* West, N., (Geology), 1979, Layman’s guide to the geology of Princeton, New Jersey. Prof. S. S. Judson.

2. Trees (including shrubs. See also Landscape above.)

Arastu, R., 1998, Leonardo was wise: Trees conserve cross-sectional area despite vessel structure. Prof. H. S. Horn.
  Gall, R., 1994, Comparing seed dispersal dynamics in a forest “island” with those in a forest interior plot. Prof. H. S. Horn.
  Green, D. S., 1980 (PhD), The aerodynamics and dispersal of Ash, Tuliptree, and Maple samaras. Prof. H. S. Horn.
• Palmer, J., 1983, A height versus diameter study of Liriodendron tulipifera. Prof. H. S. Horn. N.B. This species is unaccountably absent at Stony Ford, but the approach could be used with other species.
3. Herbs


• Heston, K. P., 1979, Studies of the growth form and reproductive effort in *Asclepias*, *Solidago*, and *Aster*. Prof. J. W. Terborgh.


4. Left-over Low Life (wet or slimy at some stage of life; including slime molds, fungi, lichens, fish, and salamanders.)

• Horn, E. G., 1969 (PhD), Some aspects of food competition among the cellular slime molds. Prof. J. T. Bonner.
• Panek, J., 1984, A study of lichens as indicators of air pollution in the New Jersey Pine Barrens. Profs. R. Stallard (Geology) and J. W. Terborgh.
• * Smith, S., 1933, Observations on the life history and breeding habits of the salamanders found in the vicinity of Princeton. Prof. G. Fankhauser. N.B. A follow–up on this would be very interesting, since salamanders are notoriously sensitive to polluting conditions of air and water.

• * Walker, G., 1996, Introduction to the mushrooms of the Princeton University Campus. Prof. H. S. Horn.
5. Invertebrates (other than insects.)

- Janetos, A. C., 1980 (PhD), Foraging tactics of two guilds of web-spinning spiders. Prof. H. S. Horn.

6. Insects

- Evans, J., 1988, Ants: their colony dynamics and interactions with plants. Prof. N. Pierce.
• Schneider, J., 1979 (PhD), Phenological and kentromorphic aspects of the population ecology of the Fall Cankerworm *Alsophila pometaria* Harris (Lepidoptera: Geometridae). Profs. H. S. Horn and J. A. Endler.
7. Birds

Arnold, H. L., III, 1992, The effects of novel experimental stimuli and eye-like patterns on the Black-capped Chickadee (Parus atricapillus), the White-throated Sparrow (Zonotrichia albicollis), and the Slate Colored Junco (Junco hyemalis). Prof. H. S. Horn.
Kim, M. H., 1988, Risk sensitivity, foraging choice, feeder choice, and behavioral decisions in overwintering birds. Prof. H. S. Horn
Morgan, M., 1985, Foraging patterns and pecking rates of a mixed species wintering flock at a feeder. Prof. H. S. Horn.
Pope, G. T., 1980, Temperature and flock size in wintering sparrows. Prof. H. S. Horn.
Romano, P. S., 1979, Breeding bird communities in Central New Jersey suburbs. Prof. J. W. Terborgh.
Schneider, K. C. J., 1979 (PhD), Dominance hierarchies, foraging and predation in Winter flocks of White-throated Sparrows (Zonotrichia albicollis). Prof. H. S. Horn.
Smythe, T. B., 1981, Aggression and food distribution in mixed species flocks. Prof. H. S. Horn.
Stanley, T. G., Jr., 1987, The effects of flock size and time of day on the vigilance behavior of Mourning Doves. Prof. N. Pierce.
Tabby, D. S., 1980, The role of visual agonistic display in the foraging and social organization of Winter mixed Chickadee flocks. Prof. H. S. Horn.
8. Mammals


Mac Arthur, R. H., 1968, Selection for life tables in periodic environments. Amer. Nat. 102: 381–383. N.B. Although this paper is entirely theoretical, like many of MacArthur’s theoretical works, it derives from field observations, ... in this case in an ill–fated enclosure for voles (Microtus pennsylvanicus) established by Mac Arthur and H. S. Horn in 1967 in the big field next to the barn at Stony Ford.