

A Reference List to Field Botany in Kentucky (1985–2006)

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ABSTRACT

The reference list of 874 field botany entries principally from 1985 to 2006 updates two previous reference lists, the last of which appeared in 1989. Seventy-seven relevant entries through 1987 are included that were not indexed in the last reference list. One hundred fifty-two entries are from 1989 or earlier, 391 from the 1990s, and 331 since 2000. The references include 606 peer-reviewed journal articles, 67 scientific botanical books, 62 technical articles, 46 theses, 30 technical reports, 22 dissertations, 18 book chapters, and 23 popular books. The four largest botanical subjects within 11 subdivisions are floristics (247), synecology (205), autecology (134), and systematics (126).

KEY WORDS: Field botany, reference list, Kentucky

INTRODUCTION

A catalog and analysis of the literature pertaining to field botany in Kentucky is presented. Previous articles (Fuller 1979; Fuller et al. 1989) broadly addressed field botany relevant to algae, fungi, nonvascular plants, and vascular plants of Kentucky. Our compilation has the same organismal coverage, with emphasis on Kentucky peer-reviewed journal articles, relevant scientific books, theses and dissertations, book chapters, technical articles and reports from bound proceedings, conferences, and symposia that are available to the general public. We include the 12 published volumes of *The Flora of North America North of Mexico*, several taxonomic revisions and monographs with consideration of taxa in Kentucky, and significant floras, floristic lists, plant distribution works, and popular wildflower and tree books from Kentucky and contiguous states. Treatments of plant genera for southeastern United States (e.g., *Journal of the Arnold Arboreum* and *Harvard Papers in Botany*), and other continental and worldwide treatments, ab-

stracts, newspaper articles, newsletters, popular science articles, college textbooks, and on-line articles are excluded. Weakley (2006) provides another recently compiled taxonomic bibliography with emphasis on Georgia, North Carolina, South Carolina, and Virginia.

Our objectives for this catalog and analysis of field botany in Kentucky are to provide a ready resource for researchers and others interested in the state of botanical studies in the south-central United States, and to provide helpful evidence of trends in these studies over the last two decades. These references have been gathered from numerous sources, and we have endeavored to be as comprehensive as possible. On-line search engines (e.g., AltaVista, BioOne, Google, Index to American Botanical Literature, Kew Bibliographic Database, Yahoo), greatly facilitated the preparation of the list.

RESULTS AND DISCUSSION

Fuller (1979) and Fuller et al. (1989) included 806 entries dating from 1784 to 1987. We have endeavored to cover the years from 1985 to 2006. Seventy-seven references omitted by Fuller et al. (1989) are added. Our

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Table 1. Reference sources catalogued by years 1980–1989, 1990–1999, and 2000–2006. Numbers by years and total percentages in parentheses.

Literature types	Years			Total
	1980–1989	1990–1999	2000–2006	
Refereed Journal Articles	87 (57.24)	261 (66.75)	258 (77.94)	606 (69.34)
Botanical Books	11 (7.24)	32 (8.18)	24 (7.25)	67 (7.67)
Technical Articles	25 (16.45)	29 (7.42)	8 (2.42)	62 (7.09)
MS/MA Theses	10 (6.58)	23 (5.88)	13 (3.93)	46 (5.26)
Technical Reports	12 (7.89)	15 (3.84)	3 (0.91)	30 (3.43)
Popular Books	1 (0.65)	10 (2.56)	12 (3.63)	23 (2.63)
Dissertations	6 (3.95)	10 (2.56)	6 (1.81)	22 (2.52)
Book Chapters	0 (0.00)	11 (2.81)	7 (2.11)	18 (2.06)
Totals	152	391	331	874 (100.00)

total number of entries is 874 with 152 prior to 1989, 391 from the 1990s, and 331 since 2000 (Table 1). These 874 entries are composed of 606 peer-reviewed journal articles, 67 scientific books, 62 technical articles, 30 technical reports, 46 M.S./M.A. theses, 22 Ph.D. dissertations, 18 book chapters, and 23 state and regional wildflower/tree books and field guides (Table 1).

The 874 entries were placed into 11 botanical subdivision categories during the periods of 1980–1989, 1990–1999, and 2000–2006 (Table 2). The 11 field botany subdivisions are described in the broad sense because of overlap in disciplines. Floristics (*alpha* plant taxonomy) consists of vascular plant surveys, checklists, inventories, rare and noteworthy species, floras, atlases, and popular wildflower/tree books and field guides. Phytogeography entries are combined with floristics and include native and exotic distributions and flora range extensions. Systematics (*beta* plant taxonomy) includes all bio-systematic and phylogenetic studies, revisions

and monographs, and new species descriptions. Synecology (community ecology) contains terrestrial and wetland vegetation studies, community dynamics (fire, soils, succession, etc.), systems ecology, and plant sociology. Autecology (ecophysiology) includes vascular plant life histories, seed germination studies, population ecology, genecology, and demography studies. Exotic (naturalized) entries pertain to the spread and control of invasives, these entries separated from the autecology, synecology, and floristic categories (e.g., several recent *Lonicera maackii* references). Paleocology includes aspects of historical vegetation reconstruction from the geological ages. Bryology and lichenology are combined and comprised all Kentucky studies of mosses, liverworts, hornworts, and lichens; Phycology includes all studies of algae; and Mycology comprises all studies of fungi. The History category consists of the lives and works of botanists (emphasis on Kentucky individuals), historical events, and obituaries. Herbarium and natural history

Table 2. Botanical subdivisions catalogued by years 1980–1989, 1990–1999, and 2000–2006. Numbers by years and total percentages in parentheses.

Botanical subjects	Years			Total
	1980–1989	1990–1999	2000–2006	
Floristics (<i>a</i> -taxonomy)	46 (30.26)	110 (28.13)	102 (30.82)	258 (29.52)
Synecology	43 (28.29)	89 (22.76)	66 (19.94)	198 (22.65)
Autecology	17 (11.18)	80 (20.46)	48 (14.50)	145 (16.59)
Systematics (<i>b</i> -taxonomy)	23 (15.13)	50 (12.79)	56 (16.92)	129 (14.76)
Exotics	1 (0.67)	17 (4.35)	15 (4.53)	33 (3.78)
Herbaria/Natural History	4 (2.63)	7 (1.79)	16 (4.83)	27 (3.09)
History/Obituaries	2 (1.32)	4 (1.02)	19 (5.74)	25 (2.86)
Bryology	6 (3.95)	8 (2.05)	4 (1.21)	18 (2.06)
Phycology	3 (1.97)	11 (2.81)	4 (1.21)	18 (2.06)
Paleocology	3 (1.97)	8 (2.05)	1 (0.30)	12 (1.37)
Mycology	4 (2.63)	7 (1.79)	0 (0.00)	11 (1.26)
Totals	152	391	331	874 (100.00)

Table 3. Reference entries by literature sources and subjects listed by years 1980–1989, 1990–1999, 2000–2006. Numbers by year and total percentages in parentheses.

Literature types	Years			Total References
	1980–1989	1990–1999	2000–2006	
REFEREED JOURNALS				
Floristics	25 (28.73)	57 (21.84)	59 (22.87)	141 (23.27)
Autecology	15 (17.24)	73 (27.97)	44 (17.05)	132 (21.78)
Systematics	22 (25.29)	46 (17.62)	55 (21.32)	123 (20.30)
Synecology	11 (12.64)	39 (14.94)	46 (17.83)	96 (15.84)
Exotics	0 (0.00)	16 (6.13)	15 (5.81)	31 (5.12)
Herbarium	4 (4.60)	6 (2.30)	16 (6.20)	26 (4.29)
History	0 (0.00)	3 (1.15)	17 (6.59)	20 (3.30)
Bryology	5 (5.75)	6 (2.30)	4 (1.55)	15 (2.48)
Mycology	4 (4.60)	6 (2.30)	0 (0.00)	10 (1.65)
Phycology	1 (1.15)	4 (1.53)	2 (0.76)	7 (1.15)
Paleoecology	0 (0.00)	5 (1.92)	0 (0.00)	5 (0.82)
Subtotal	87	261	258	606 (100.00)
TECHNICAL ARTICLES				
Synecology	17 (68.00)	18 (62.07)	4 (50.00)	39 (62.90)
Floristics	6 (24.00)	9 (31.03)	4 (50.00)	19 (30.65)
Bryology	1 (4.00)	1 (3.45)	0 (0.00)	2 (3.23)
Mycology	0 (0.00)	1 (3.45)	0 (0.00)	1 (1.61)
Paleoecology	1 (4.00)	0 (0.00)	0 (0.00)	1 (1.61)
Subtotal	25	29	8	62 (100.00)
TECHNICAL REPORTS				
Floristics	5 (30.00)	12 (60.00)	3 (100.00)	20 (53.13)
Synecology	7 (70.00)	3 (35.00)	0 (0.00)	10 (43.75)
Subtotal	12	15	3	30 (100.00)
BOOK CHAPTERS				
Synecology	0 (0.00)	9 (81.82)	5 (50.00)	14 (70.58)
Floristics	0 (0.00)	0 (0.00)	2 (1.67)	2 (5.88)
Paleoecology	0 (0.00)	2 (18.18)	0 (0.00)	2 (11.77)
Subtotal	0	11	7	18 (100.00)
THESES				
Synecology	4 (33.33)	12 (50.00)	9 (69.23)	25 (52.27)
Floristics	3 (33.33)	3 (13.64)	3 (23.08)	9 (20.46)
Autecology	2 (22.22)	2 (13.64)	0 (0.00)	4 (11.36)
Systematics	0 (0.00)	4 (13.64)	0 (0.00)	4 (6.82)
Phycology	0 (0.00)	1 (4.54)	1 (7.69)	2 (4.55)
Bryology	0 (0.00)	1 (4.54)	0 (0.00)	1 (2.27)
Paleoecology	1 (11.11)	0 (0.00)	0 (0.00)	1 (2.27)
Subtotal	10	23	13	46 (100.00)
DISSERTATIONS				
Synecology	4 (66.67)	4 (40.00)	2 (25.00)	10 (45.00)
Autecology	0 (0.00)	4 (40.00)	4 (75.00)	8 (35.00)
Floristics	0 (0.00)	1 (10.00)	0 (0.00)	1 (5.00)
Systematics	1 (16.66)	0 (0.00)	0 (0.00)	1 (5.00)
Phycology	0 (0.00)	1 (10.00)	0 (0.00)	1 (5.00)
Exotics	1 (16.66)	0 (0.00)	0 (0.00)	1 (5.00)
Subtotal	6	10	6	22 (100.00)
BOTANICAL BOOKS				
Floristics	6 (44.44)	18 (54.28)	19 (82.61)	43 (62.69)
Phycology	2 (22.22)	5 (14.28)	1 (4.34)	8 (11.94)
History	2 (22.22)	1 (8.57)	2 (8.70)	5 (10.45)
Synecology	0 (0.00)	4 (11.43)	0 (0.00)	4 (5.97)
Paleoecology	1 (11.11)	1 (2.86)	1 (4.34)	3 (4.48)
Autecology	0 (0.00)	1 (2.86)	0 (0.00)	1 (1.49)
Exotics	0 (0.00)	1 (2.86)	0 (0.00)	1 (1.49)
Herbarium	0 (0.00)	1 (2.86)	0 (0.00)	1 (1.49)
Systematics	0	0	1	1 (1.49)
Subtotal	11	32	24	67 (100.00)
POPULAR BOOKS				
Floristics	1 (100.00)	10 (100.00)	12 (100.00)	23

Table 3. Continued.

Literature types	Years			Total References
	1980–1989	1990–1999	2000–2006	
Subtotal	1	10	12	23 (100.00)
TOTAL	152	391	331	874 (100.00)

embrace works on Kentucky herbaria, other museum collections, and literature on the increasing importance of natural history facilities.

Designating a botanical reference to a single subdivision entry was not an easy task because of frequent overlaps. As an example, Thompson and Fleming (2004a) conducted a study of the vascular flora and plant communities of a Kentucky State Nature Preserve area in Rockcastle County. Because the focus was more on a floristic survey than quantitative synecological data, this article is placed under floristics and phytogeography. For additional information purposes, the 11 subdivisions of botany are incorporated within the eight literature types for each of the 874 entries (Table 3).

The acceleration of botanical knowledge is evident as more research is being published each year and thus each decade (Table 1). The number of publications applicable to field botany in Kentucky in the last 20 years is comparable with the total number in the previous 200 years. Most publications (606) continue to be in refereed scientific journals (69.34%). Of these journals entries (Table 3), the top four categories are floristics with 141 (23.27%), autecology with 132 (21.78%), systematics with 123 (20.30%), and synecology with 96 (15.84%).

In refereed journal entries alone, 136 autecology, synecology, and floristic articles are authored/coauthored by Jerry and Carol Baskin, the University of Kentucky. In all literature entries, 63 are written or coauthored by Edward W. Chester, Austin Peay State University, 40 by Ralph L. Thompson, Berea College, 30 by James O. Luken, Coastal Carolina University, 24 by Julian J.N. Campbell, The Nature Conservancy, and 23 by Jeffery L. Walck, Middle Tennessee State University. The 258 peer-reviewed journal articles for the 2000–2006 period is comparable to the 261 of the 1990–1999 decade (Table 2).

A significant decline in technical articles and technical reports is noted during 2000–2006. Thirty-nine (62.90%) of 62 technical articles are in synecology and 19 (30.65%) are floristics (Table 3). The percentages of journal publications on floristics, synecology, autecology, and systematics per year have changed little since 1980 (Table 2). The 67 botanical books are comprised of 43 (64.18%) in floristics with the majority being floras, manuals, atlases, and checklists. These listings also shows an increase in studies on invasive species since 1990. Obituaries are also on the increase. The late John W. Thieret, Kentucky's foremost plant taxonomist of the 20th century, accounted for nine memorial tribute entries.

A noticeable decline in the number of theses and dissertations in the subdivisions of field botany is occurring (Table 2). The 46 theses are from the University of Kentucky (17), Eastern Kentucky University (13), Southern Illinois University (6), Murray State University (3), University of Louisville (2), University of Tennessee (2), Morehead State University (1), Western Kentucky University (1), and Austin Peay State University (1). Twenty-five (54.35%) theses are in synecology and 9 (19.56%) are in floristics (Table 3). Of 22 dissertations, ten (45.45%) are in synecology and 8 (36.36%) in autecology (Table 3). The 22 dissertations are from the University of Kentucky (11), University of Louisville (4), Southern Illinois University (4), North Carolina State University (1), University of Tennessee (1), and University of Joensuu, Finland (1).

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