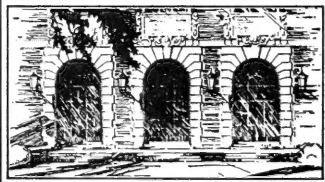


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ILLINOIS NATURAL
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BIBLIOGRAPHY OF ILLINOIS VEGETATION

Paul G. Risser

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Natural History Survey Division

Biological Notes No. 721

Bibliography of Illinois Vegetation

Paul G. Risser

The vegetation of Illinois has been studied for more than 100 years. These studies have produced a rich literature describing the plant communities, ranging from the bottomland swamps in the south, through the prairies of central Illinois, to the dissected topography of the largely unglaciated northwestern portion of the state. In earlier years, these studies reported observations about the plants that occur in specific environmental conditions. More recently, investigations have involved elaborate measurement of processes such as nutrient cycling, physiological rates, and the genetics of populations.

Collectively, this literature constitutes the basis for a number of thoughts and themes about plant ecology—ideas that originated from the work of ecologists who worked in plant communities in Illinois. The resulting information now permits thorough descriptions of some vegetation types but only more fragmentary descriptions of other types. A number of ecological processes are now documented in some Illinois ecosystems but not others. Understanding the vegetation patterns in some parts of the state is possible from a long history of studies, whereas other locations are described only by old or by recent observations. The literature on the vegetation of Illinois is impressive in its volume and quality and, as such, represents a sound base upon which to build further studies on the plant communities of the state. At the same time, this bibliography, and the individual indices, indicate that biologists still have enormous opportunities for rewarding investigations on the vegetation of Illinois.

All the references in this bibliography have been reviewed by the author. Items were selected for inclusion on the basis of several guidelines. Although the author exercised some discretion to produce the most useful document, these rules were used to guide judgements about which publications should be included.

1. Abstracts are not included.
2. Papers discussing algae are not included, but papers about natural occurrences of fungi, lichens, mosses, ferns, gymnosperms, and angiosperms are included.
3. Studies describing revegetations are generally included, but papers describing the management of forest plantations, agricultural crops, and introduced meadows are omitted.
4. Some zoological papers that present details on the vegetation of the study site are included.

This paper is published by authority of the State of Illinois. Dr. Paul G. Risser is Chief of the Illinois Natural History Survey and is a plant ecologist.

Two or more outside referees recommend each manuscript submitted for publication in the Biological Notes series before it is accepted.

5. Several papers about the distribution of soils are included, though these listings are not meant to be exhaustive and include only papers that relate directly to the associated vegetation.
6. Books and papers describing the flora of specific areas are included, as are general taxonomic manuals; however, additions to the statewide flora and strictly taxonomic or systematic papers usually are not included.
7. Unpublished reports are included if they can be obtained conveniently from libraries or the original sources.
8. Some generally important conceptual papers are included, especially if it was believed these papers have contributed significantly to the science of Illinois vegetation.
9. An attempt was made to include all citations through 1982, though some 1983 entries are included.
10. Popular articles without substantive descriptions of the vegetation usually are omitted.

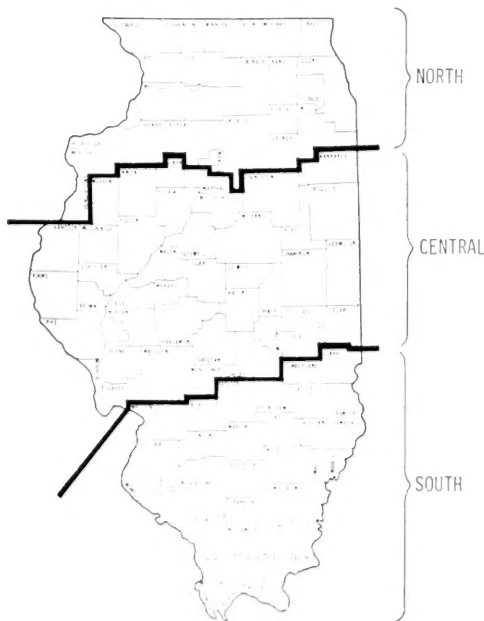


Fig. 1 — Map of Illinois, showing north, central, and south sections.

To make the literature more manageable, several indices are included with this bibliography:

1. Author

For each author, citation numbers indicate each publication on which his or her name appears.

2. Section of the State

The state was divided into three broad sections, north, central, and south, as shown in Fig. 1. If an entry deals with portions of more than two sections, it is listed under State.

- 1 Wisconsin Driftless Division
- 2 Rock River Hill Country Division
 - a Freeport Section
 - b Oregon Section
- 3 Northeastern Morainal Division
 - a Morainal Section
 - b Lake Michigan Dunes Section
 - c Chicago Lake Plain Section
 - d Winnebago Drift Section
- 4 Grand Prairie Division
 - a Grand Prairie Section
 - b Springfield Section
 - c Western Section
 - d Green River Lowland Section
 - e Kankakee Sand Area Section
- 5 Upper Mississippi River and Illinois River Bottomlands Division
 - a Illinois River Section
 - b Mississippi River Section
- 6 Illinois River and Mississippi River Sand Areas Division
 - a Illinois River Section
 - b Mississippi River Section
- 7 Western Forest-Prairie Division
 - a Galesburg Section
 - b Carlinville Section
- 8 Middle Mississippi Border Division
 - a Glaciated Section
 - b Driftless Section
- 9 Southern Till Plain Division
 - a Effingham Plain Section
 - b Mt Vernon Hill Country Section
- 10 Wabash Border Division
 - a Bottomlands Section
 - b Southern Uplands Section
 - c Vermilion River Section
- 11 Ozark Division
 - a Northern Section
 - b Central Section
 - c Southern Section
- 12 Lower Mississippi River Bottomlands Division
 - a Northern Section
 - b Southern Section
- 13 Shawnee Hills Division
 - a Greater Shawnee Hills Section
 - b Lesser Shawnee Hills Section
- 14 Coastal Plain Division
 - a Cretaceous Hills Section
 - b Bottomlands Section



Fig. 2 — Natural divisions of Illinois (Schwegman 1975).

3. County

Each entry was classified according to one or more counties (Fig. 1). If a citation involves more than six counties, or if the actual location could not be determined, the entry is listed under All Counties.

4. Natural Divisions

Each entry was classified according to one or more of the natural divisions described by Schwegman (1975 and Fig. 2). If a citation involves more than four such divisions, or if the actual location could not be determined, the entry is listed under All Divisions. If more than four divisions are involved, but the locations are exclusively in the north, central, or south section of the state (Fig. 1), the entry is indexed separately, for example, as four or more divisions in the north section of the state.

5. Subject

Entries were classified under one or more of 33 topics and are listed chronologically by decades.

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	1960	95, 147, 397, 418, 558, 696, 1131, 1243		1980	66, 286, 480, 552, 564, 627, 660, 712, 800, 802, 839, 1037, 1094, 1221	
	1970	16, 24, 31, 36, 53, 61, 67, 139, 193, 198, 216, 318, 355, 417, 503, 548, 560-562, 635, 638, 664, 673, 811, 851, 852, 957, 976, 994, 998, 1001, 1002, 1004, 1044, 1063, 1151, 1213, 1267, 1268	Presettlement:	1800	28, 93, 214, 298, 411, 684, 771, 886, 887, 1022, 1152, 1238, 1251-1254	
	1980	121, 286, 512, 564, 660, 724, 839, 841, 845, 909, 1208		1900-1909	202, 351, 430, 918	
Meteorology:	1910	372, 373, 375, 488		1910	78, 378, 432, 469, 482, 893, 985	
	1920	735		1920	217, 257, 380, 760, 763, 1109, 1248, 1249	
	1960	857		1930	70, 383, 452, 755, 846, 1026, 1128, 1138, 1167, 1169, 1170, 1183	
Method:	1930	539, 716, 717, 1266		1940	170, 398, 455, 510, 722, 834, 986	
	1940	127, 495, 1171, 1172, 1175		1950	633, 634, 639, 756, 757, 827	
	1950	448, 563, 595, 689, 1173, 1174		1960	29, 80, 132, 153, 154, 221, 406, 611, 612, 745, 914, 979, 1203, 1256, 1257, 1270	
	1960	636, 924		1970	15, 18, 41, 205, 222, 344, 348, 458, 459, 477, 481, 546, 640, 642-644, 649, 681, 693, 812, 958, 959, 994, 1083, 1116, 1202, 1232	
	1970	139, 442, 450, 570, 571, 613, 638, 640, 654, 674, 675, 719, 750, 954, 1063, 1095		1980	142, 347, 479, 572, 620, 646-648, 697, 713, 746, 814, 860, 953	
	1980	272, 276, 511, 512, 575, 909		Production:	1800	185, 945, 947, 949, 1253, 1254
Model:	1960	133		1900-1909	625, 1277	
	1970	8, 10, 105, 115, 215, 216, 252, 265, 268, 360, 361, 438, 487, 705, 773, 774, 954, 956, 1056, 1057		1910	469, 482, 734, 762	
	1980	188, 708		1920	219, 760, 761, 763, 1107, 1109, 1110	
Nutrient:	1920	740		1940	127, 170, 678, 698, 700, 1101	
	1940	748		1950	151, 152, 365, 448, 594, 595, 639, 699, 766, 768, 915, 1179	
	1950	192, 448, 1124		1960	256, 299, 300, 301, 366-368, 397, 416, 418, 460, 632, 820, 856, 857, 914, 1068, 1159	
	1960	47, 72, 194, 414, 857		1970	1, 2, 8, 24, 26, 27, 36, 49, 67-69, 88, 89, 105, 115, 126, 201, 265, 267, 275, 290, 302, 355, 359, 410, 414, 417, 419, 513, 578, 580, 583, 585, 622, 664, 769, 772, 774, 817, 881, 956, 957, 1046, 1151	
	1970	8, 9, 10, 50, 53, 60, 61, 116, 195, 249, 254, 259, 265, 266, 268, 290, 345, 359, 414, 419, 664, 674, 675, 705, 706, 750, 765, 772-776, 862, 881, 952, 962-965, 1063, 1095, 1206		1980	189, 276, 509, 581, 609, 818, 841, 904, 953, 1195	
	1980	188, 189, 191, 255, 274, 575, 609, 610, 836, 863, 875, 902-904, 1207		Recreation:	1920	1120
Phenology:	1800	547, 996, 1042		1940	523	
	1900-1909	421, 543		1950	576, 653	
	1920	130		1960	555	
	1930	131, 212, 273		1970	53, 201, 356, 492, 493, 1267	
	1960	36, 857, 916, 1270		Revegetation:	1910	733
	1970	67, 103, 114, 115, 477, 487, 668, 874, 928, 991, 1272		1920	246, 247, 738, 1064	
Physiology:	1960	462, 632, 820, 1126		1930	1264	
	1970	22, 65, 85, 86, 90, 99, 253, 711, 1047, 1227, 1228		1940	30, 688, 990	
	1980	711, 743		1950	122, 167, 182, 192, 448, 523, 653, 689, 941, 1124	
Pollen:	1920	739		1960	42, 47, 48, 95, 218, 413, 621	
	1930	38, 39, 383, 1183-1188		1970	50, 52, 53, 198, 218, 249, 450, 474, 475, 492-494, 520, 526, 536, 574, 635, 654, 655, 661, 674, 675, 719, 750, 852, 890, 965, 970, 998, 1001-1004, 1062, 1095, 1148, 1274-1276	
	1950	454, 616		1980	54, 56, 232, 473, 511, 512, 553, 575, 656, 690, 691, 835-837, 909, 984, 1178, 1208	
	1960	132, 462, 997, 1061, 1203, 1256, 1257		Seed:	1900-1909	581
	1970	251, 457, 458, 459, 645, 649, 650, 905, 952, 961, 1086		1920	739	
	1980	272, 646-648, 746		1930	203, 273	
Pollution:	1970	49, 138, 195, 470, 765, 960, 1217		1940	619, 701	
	1980	1207				
Preserve:	1800	354				
	1910	623, 896				
	1920	148, 241, 1025, 1120				
	1930	240, 1029				
	1950	311, 338, 342, 362, 842, 1077				

	1950	164, 472		765, 828, 872, 880, 881, 926, 928,
	1960	820, 1159		934, 935, 957-959, 965, 975, 989,
	1970	1, 3, 41, 84, 99, 104, 115, 437, 438, 444, 579, 582, 620, 912, 926, 991, 998, 1001, 1056, 1057, 1180		1000, 1002, 1003, 1008, 1056, 1062, 1066, 1095
	1980	443, 697	1980	473, 575, 609, 669, 690, 691, 814-816, 836, 840
Soils:	1800	146, 297, 411, 683, 771, 1022, 1237, 1255	Succession:	1800
	1900-1909	343, 427, 484		234, 235, 491, 1156, 1225, 1237
	1910	78, 378, 391, 401, 402, 428, 431, 488, 732, 897, 1078, 1161, 1165		1900-1909
	1920	239, 246, 247, 258, 380, 392, 456, 670-672, 763, 868, 989, 1045, 1064, 1080-1082, 1119, 1121, 1136, 1199, 1201, 1250		1910
	1930	62, 227, 273, 565, 809, 810, 846, 917, 1023, 1079, 1166		1920
	1940	567, 688, 702, 748, 990, 1058, 1240		1930
	1950	79, 122, 150, 161, 167, 182, 192, 309, 310, 327, 332, 336, 538, 689, 858, 859, 1059, 1124, 1244		1940
	1960	47, 48, 51, 71, 72, 81, 83, 145, 155, 194, 218, 271, 293, 328, 329, 405, 413, 415, 416, 521, 525, 534, 611, 612, 637, 729, 865, 1049, 1159, 1230		1950
	1970	11, 14, 31, 52, 57, 60, 68, 100, 116, 195, 249, 252, 259, 269, 284, 345, 358, 359, 407-409, 492-494, 574, 652, 654, 655, 681, 706, 750, 751, 753,		1960
				1970
				1980
				56, 690, 691, 839, 875-877, 1114, 1208

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