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ILLINOIS NATURAL
HISTORY SURVEY



BIBLIOGRAPHY OF ILLINOIS VEGETATION

Paul G. Risser

NATURAL HISTORY SURVEY

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Champaign, Illinois - August - 1984

Illinois
Department of Energy and Natural Resources
Natural History Survey Division

Biological Notes No. 121

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.

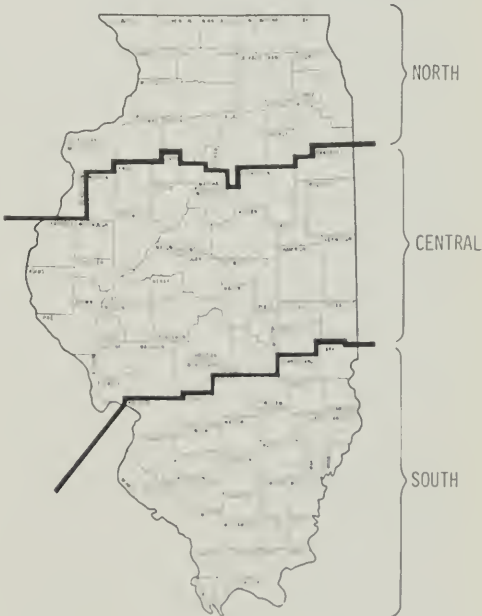


Fig. 1 — Map of Illinois, showing north, central, and south sections.

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 Moraine Division
 - a Moraine 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

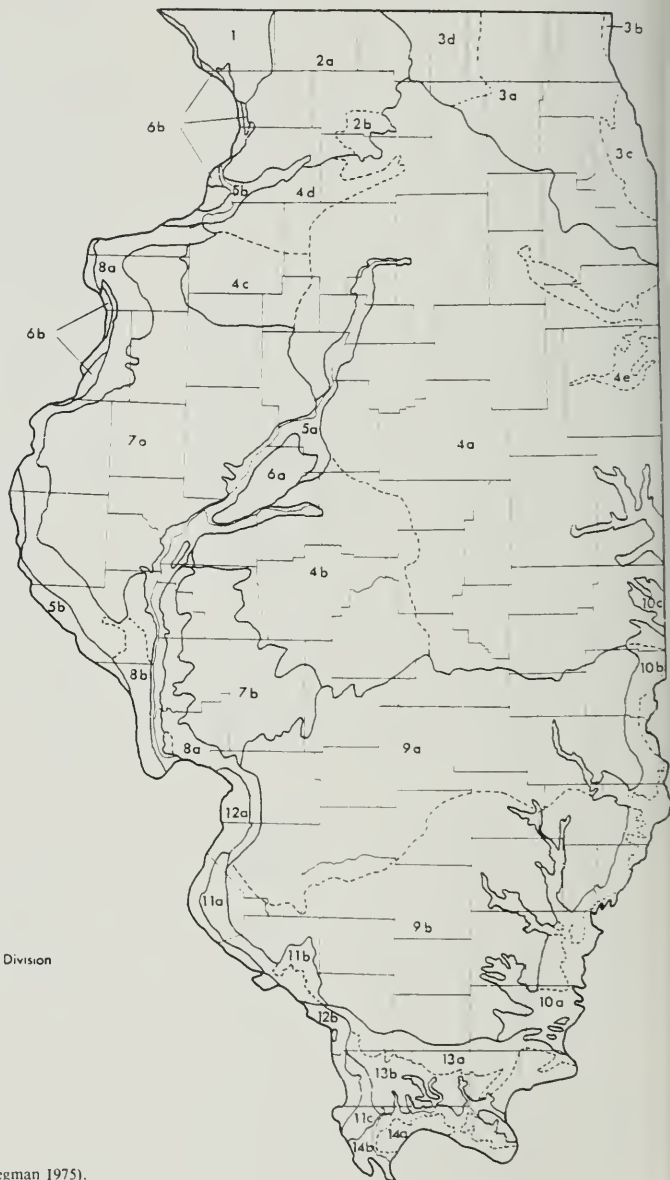


Fig. 2 — Natural divisions of Illinois (Schwegman 1975).

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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AUTHOR INDEX

- Abney, T.S. - 803
 Abul-Fatih, H.A. - 1, 2, 3
 Adams, C.C. - 4
 Adams, D.E. - 5, 6, 7, 17
 Ahles, H.E. - 608
 Akhtar, M.A. - 8, 9, 10, 962, 963, 964
 Alden, W.C. - 978
 Alexander, J.D. - 11, 327, 328, 409
 Allen, J.A. - 12
 Allen, W.H. - 649
 Allway, W.H. - 1059
 Alvord, C.W. - 13
 Anderson, B.J.K. - 14
 Anderson, H.G. - 124, 125
 Anderson, M.R. - 18, 26
 Anderson, R.C. - 6, 7, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 142, 840, 959, 1118
 Andrews, E. - 28
 Angle, P.M. - 29
 Anonymous - 30
 Anthony, S.J. - 31
 Apfelbaum, S.I. - 32
 Applegate, R.D. - 33, 34
 Arata, A.A. - 35
 Arenzi, C.B. - 40, 1076
 Armstrong, A.C. - 36
 Arnold, L.E. - 9, 10, 33, 34, 37, 191, 417, 419, 962, 963, 964
 Artist, R.C. - 38, 39
 Asch, B.N. - 41
 Asch, D.L. - 41
 Ashby, J. - 57
 Ashby, W.C. - 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 661, 909, 1205
 Atwell, C.B. - 58
 Atwood, W.W. - 59
 Aubertin, G.M. - 60, 61
 Auten, J.T. - 62, 63
 Babcock, H.H. - 64
 Bacone, J.A. - 65, 66
 Baginski, F.F. - 67
 Baier, J.D. - 68, 69
 Bailey, G.E. - 70
 Bailey, L.W. - 71, 72, 156
 Bailey, R.G. - 73
 Bailey, W.M. - 74, 75
 Baker, F.C. - 76
 Baker, G. - 1212
 Baker, M.B. - 47, 53
 Bankson, M.M. - 77
 Barrows, H.H. - 78
 Barton, J.D. - 79
 Baum, U.G. - 80
 Baumgartner, D.C. - 201
 Bazzaz, F.A. - 2, 3, 66, 69, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 361, 651, 743, 861, 872, 873, 874, 875, 876, 877, 901, 911, 912, 913, 928, 929, 936, 1228
 Beal, W.J. - 91
 Beavers, A.H. - 611, 612
 Bebb, M.S. - 92, 93
 Beck, L.C. - 94
 Behnke, A. - 776
 Belden, C.R. - 95
 Bell, D.T. - 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 583, 584, 585, 586, 587, 597, 598, 599, 1046, 1047, 1048
 Bell, H.E. - 121
 Bell, R. - 122
 Bellrose, F.C. - 123, 124, 125, 126, 701
 Benedict, A.H. - 127
 Benjamin, R.K. - 128, 129
 Benke, H.C. - 130, 131
 Benninghoff, W.S. - 132, 133
 Bergman, R.M. - 1060
 Bernard, J.R. - 1275
 Best, L.B. - 134, 991
 Betz, R.F. - 135, 663
 Bielema, B.J. - 136
 Bierer, R.W. - 137
 Big Muddy River Basin Coordinating Committee - 138
 Biggers, J.P. - 139
 Birkenholz, D.E. - 19, 140, 142, 187
 Bishop, D. - 143
 Black, R.F. - 370
 Blackmore, B.K. - 144
 Bland, M.K. - 145
 Bleiweiss, S. - 1111
 Bliss, J.S. - 146
 Bliss, L.C. - 69, 88, 147
 Board of Forest Preserve Commissioners of Cook County - 148
 Boewe, G.H. - 149
 Boggess, W.R. - 37, 66, 69, 72, 90, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 406, 407, 409, 410, 414, 415, 418, 861, 936, 965, 967, 1268
 Bogusch, E.R. - 160
 Bollwinkel, C.W. - 161
 Bonnell, C. - 162, 163
 Bookhout, T.A. - 164
 Borchert, J.R. - 165
 Borger, W. - 166
 Boyce, S.G. - 167, 532
 Bradley, S.R. - 168, 169
 Branom, M.E. - 170
 Braun, E.L. - 171, 172
 Brendel, F. - 173, 174, 175, 176, 177, 178, 179, 180
 Brenneman, W.S. - 181
 Brewer, R. - 182
 Briggs, M.I. - 183
 Britton, W.A. - 184
 Broadhead, G.C. - 185
 Brown, A. - 186
 Brown, L.E. - 20, 21, 187
 Brown, M.W. - 1071
 Brown, R.G. - 188, 1206
 Brown, S.L. - 189
 Brown, W.H. - 190
 Brozka, R.J. - 191
 Bruce, R.R. - 192
 Bruckhoff, J.M. - 193
 Brussell, D.E. - 697
 Budelsky, C.A. - 194, 195
 Buhl, C.A. - 196
 Bull, A.F. - 974
 Bullington, R.A. - 197, 198, 199, 200, 526
 Burde, J.H. - 201
 Burrill, T.J. - 202, 346
 Burunjik, M. - 203, 204
 Bushey, C.L. - 205, 206
 Calfe, R.T. - 207, 208
 Calkins, W.W. - 209, 210
 Cameron, R.E. - 765
 Campbell, C.G. - 143
 Carlson, J.A. - 470
 Carmen, J.E. - 211
 Carpenter, J.R. - 212, 213
 Carpenter, M.P. - 1062
 Case, P.J. - 61
 Casteel, J.B. - 53
 Caton, J.D. - 214
 Cavanaugh, J.A. - 215, 956
 Chambers, J.L. - 216

- Chandler, J.C. — 217
 Chapman, A.G. — 218
 Chapman, H.H. — 219
 Clark, H.R. — 220
 Clausen, A.T. — 221, 222
 Clute, W.N. — 223, 224, 225, 226, 227
 Coates, J.F. — 228
 Colby, A.S. — 229
 Cole, M.H. — 135, 230
 Collins, F.I. — 490
 Cortwright, D.F. — 231
 Coss, R.D. — 232
 Coulter, S.M. — 233
 Cowles, H.C. — 234, 235, 236, 237, 238, 239, 240, 241
 Cox, D.L. — 242
 Crandall-Stotler, B. — 243
 Cressey, G.B. — 244
 Crites, R.W. — 245
 Croxton, W.C. — 246, 247
 Damann, K.E. — 502
 Dansereau, P. — 248
 D'Antuono, J.R. — 249
 Darlington, H.T. — 250
 Davis, A.M. — 251
 Davis, L.E. — 252
 Dawson, J.O. — 253, 254, 255
 DeBald, P.S. — 256
 De Forest, H. — 257, 258
 Deitschman, G.H. — 689
 Del Moral, R. — 111
 DePuy, J.W. — 259
 Desmarais, Y. — 248
 Dichter, J.F. — 260
 Dickson, R.E. — 261
 Dillard, G.E. — 803
 Dobbs, R.J. — 262, 263
 Dolbeare, B. — 264
 Donohoe, R.W. — 983
 Dorge, C.L. — 265, 266, 267, 268, 513, 773, 774
 Downing, D.M. — 835
 Downs, J.M. — 269
 Doyle, W.T. — 939
 Drapalik, D.J. — 270
 Drees, L.R. — 1230
 Drexler, R.V. — 466
 Duerr, J.J. — 271
 Duffield, R. — 272
 Duggins, O.H. — 273
 Dunbar, R. — 274
 Dvorak, A.J. — 520, 575, 1275
 Dzidyk, B. — 275, 276
 Eastburn, R.P. — 345
 Eaton, S.H. — 277
 Ebinger, J.E. — 144, 245, 264, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 498, 542, 658, 711, 725, 849, 850, 870, 871, 906, 907, 908, 935, 1177
 Edgington, J.M. — 758
 Edwards, W.R. — 290
 Eickhoff, P. — 291
 Eifert, V.S. — 1189
 Eikenberry, W.L. — 292
 Eisenhauer, L.D. — 293
 Ekblaw, G.E. — 680
 Ellis, J.E. — 294
 Emerson, F.W. — 295
 Engelmann, G. — 296
 Engelmann, H.A. — 297, 298
 Engh, J.H. — 804
 Escobar, L.K. — 693
 Essex, B.L. — 299, 300
 Estes, E.T. — 301, 302
 Evans, D.K. — 303, 304, 305, 1111
 Evans, M. — 306, 307
 Evers, R.A. — 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 1242
 Ewer, S.J. — 320, 321
 Eyre, F.H. — 322
 Fassett, N.C. — 323
 Faulkner, J. — 324
 Fawver, B.J. — 325
 Federal Committee on Ecological Reserves — 326
 Fehrenbacher, J.B. — 11, 327, 328, 329, 957
 Feldman, A.W. — 330
 Fell, E.W. — 331, 332, 333, 334, 335, 336, 337, 338, 339, 391
 Fell, G.B. — 335, 336, 337, 339, 340, 391, 1016
 Fell, O.E. — 338
 Fernald, E.I. — 341, 342
 Fink, B. — 343
 Finney, J.W. — 344
 Fisher, R.R. — 345
 Flagg, W.C. — 346
 Fleckenstein, M. — 347, 348
 Folkerts, G.W. — 349, 350
 Folsom, P. — 351
 Forbes, S.A. — 352
 Ford, C.D. — 636
 Ford, R.I. — 41
 Fore, P.L. — 353, 1087
 Foster, J.W. — 354
 Fox, H.W. — 355, 356, 357
 Fralish, J.S. — 358, 359, 614, 615
 Franz, E.H. — 360, 361
 Freeman, F.J. — 362
 Freeman, G.W. — 363, 854
 French, G.H. — 364
 Frye, J.C. — 370, 1234
 Fritts, H.C. — 48, 365, 366, 367, 368, 369
 Fuchs, C.K. — 371
 Fuller, G.D. — 339, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 607, 608, 747, 762, 763
 Fuller, H.J. — 393
 Funk, D.J. — 255
 Fuson, M.L. — 835
 Galligar, G.C. — 394
 Gambill, W.G. — 395, 396
 Gansner, D.A. — 256, 299, 300, 397
 Garay, R. — 1246
 Garland, J.H. — 398
 Gates, F.C. — 399, 400, 401, 402, 403, 404, 436
 Geis, J.W. — 157, 158, 405, 406, 407, 408, 409, 410, 967
 Gerhard, F. — 411
 Gilman, J.C. — 77
 Gilmore, A.R. — 120, 412, 413, 414, 415, 416, 417, 418, 419, 957, 1268
 Gingrich, S.F. — 769
 Glassman, S.F. — 420
 Gleason, H.A. — 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 484
 Goldthwait, J.W. — 59
 Goloff, A.A. — 437, 438
 Goodnight, C.J. — 439
 Goodwin, R.H. — 440
 Gore, J.A. — 441
 Graber, J.W. — 442, 443, 444
 Graber, R.R. — 442, 444
 Graham, V.O. — 445, 446, 447
 Grandt, A.F. — 448, 750
 Grant, F.R. — 449
 Green, B.B. — 450
 Greenberg, R.E. — 451, 452, 844
 Greene, E.L. — 451, 452, 453
 Gregory, R.P. — 416
 Griffin, C.D. — 454

- Griffin, J.W. - 455
 Grosklags, J. - 728
 Gross, D.L. - 650
 Grove, P.F. - 456
 Gruger, E.L. - 457, 458, 459
 Guerke, M.L. - 54, 57
 Hadley, E.B. - 460, 461, 462
 Hague, S.M. - 149, 449, 463, 464, 465, 466, 467
 Hall, E. - 468, 1245
 Hall, R.C. - 469
 Haney, A. - 470, 1038
 Hankinson, T.L. - 471
 Hankla, D.J. - 472
 Hannigan, K.P. - 473
 Hansen, L.P. - 474, 475, 845, 983
 Hanson, H.C. - 1029
 Hanson, P.C. - 476, 477, 478, 479, 480
 Harn, A.D. - 481
 Harper, R.M. - 482
 Harris, S.E. - 616
 Hart, C.A. - 483, 484
 Hartley, T.G. - 486
 Hartline, O.C. - 485
 Harty, F.M. - 65, 487
 Harvey, E.M. - 488
 Hatcher, R.C. - 489
 Hausfater, G. - 1270
 Havera, S.P. - 490, 844, 845
 Hay, O.P. - 491
 Haynes, R.J. - 492, 493, 494
 Heermans, M.F. - 495, 1175
 Heineke, T.E. - 496, 497, 1115
 Hellinga, G.A. - 496
 Helms, R.L. - 499
 Henderson, J. - 500
 Henderson, L.B. - 501
 Henderson, S. - 502
 Hendricks, C.J. - 503
 Henry, R.D. - 504, 505, 506, 507, 508, 832, 833
 Herendeen, R.A. - 509
 Herre, A.W. - 510
 Herricks, E.E. - 511, 512
 Hickey, M.J. - 513
 Hicks, E.W. - 1065
 Higley, W.K. - 514
 Hill, E.J. - 515, 516, 517, 518, 519
 Hinchman, R. - 520
 Hinchley, J.L. - 522
 Hinkle, R.L. - 521
 Hoff, C.C. - 316
 Hofman, J.L. - 642
 Holmes, L.A. - 523
 Holmes, S.A. - 149, 467
 Homoya, M.A. - 524
 Hood, W.C. - 54
 Hooks, W.S. - 525
 Hooper, J. - 526
 Hopkins, C.E.O. - 527
 Hopkins, W.E. - 528, 529
 Horberg, C.L. - 680
 Hoskins, J.H. - 530
 Hosley, N.W. - 261
 Hosner, J.F. - 261, 531, 532, 533, 534
 Hostettler, J.A. - 242
 Houchens, T.L. - 1071
 Houdek, P.K. - 535
 Howe, J.S. - 536
 Hruska, L.L. - 537
 Hudnut, R. - 538
 Huesing, M.M. - 539
 Huett, J.W. - 540
 Hughes, D.A. - 541
 Hughes, J.T. - 542
 Hunt, J. - 1111
 Hus, H. - 543
 Husa, J.C. - 544
 Huston, J.S. - 545
 Hutchinson, M.D. - 340, 546, 775, 1016
 Hyatt, J. - 547
 Illinois Department of Conservation - 548, 549, 550, 551, 552, 553
 Illinois Department of Registration and Education - 554, 555
 Illinois Natural History Survey - 556
 Illinois Nature Preserves Commission - 557, 558, 559, 560, 561, 562, 563, 564
 Ingall, O.D. - 469
 Isenbarger, J. - 565, 567
 Isfort, L.G. - 568
 Ives, J.D. - 855, 1041
 Izaak Walton League of America - 569
 Jackson, M.T. - 344, 499, 570, 571, 618, 682
 Jackson, S.T. - 572
 Jansen, D.B.F. - 573
 Jastrow, J.D. - 520, 574, 575
 Jenkins, Merchant, and Nankivil - 576
 Jensen, J. - 241, 577
 Jewell, S.R. - 492, 655
 Johnson, F.L. - 112, 113, 114, 115, 120, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587
 Johnson, G.R. - 588
 Johnson, J. - 589
 Johnson, J.B. - 643
 Johnson, M.M. - 590
 Johnson, R.T. - 591
 Johnson, W.R. - 592
 Johnson, W.W. - 593
 Jokela, J.J. - 594, 595
 Jones, A.G. - 116, 596, 597, 598, 599
 Jones, G.N. - 600, 601, 602, 603, 604, 605, 606, 607, 608
 Jones, J.D. - 609, 610, 1207
 Jones, M. - 742
 Jones, R.L. - 408, 611, 612
 Jones, S.M. - 613, 614, 615
 Kaeiser, M. - 616
 Kalvin, R.L. - 1003
 Kaminski, D.A. - 617, 618
 Kammerer, E.L. - 619
 Kaplan, L. - 620
 Kapp, R.O. - 1061
 Karr, J.R. - 512, 621
 Katerene, Y.M.S. - 622
 Katz, A.J. - 26, 142
 Kauffman, R.H. - 623
 Keim, L.L. - 624
 Kellogg, R.S. - 625
 Kelting, R.W. - 49
 Kennedy, D. - 626
 Kerr, K. - 627
 Keser, J.J. - 628
 Kibbe, A.L. - 629, 630
 Kieckheffer, B.J. - 460, 631, 632
 Kilburn, P.O. - 145, 633, 634, 635, 636, 637, 924
 Kilkus, P.A. - 638
 King, D.B. - 639
 King, F.B. - 640, 641, 642, 643, 644
 King, J.E. - 272, 645, 646, 647, 648, 649, 650
 Kirkland, B.J. - 369
 Kirkpatrick, B.L. - 651
 Klimas, C.V. - 652
 Klimstra, W.D. - 493, 494, 653, 654, 655, 656, 836, 837, 968, 1131
 Klippel, W.E. - 746
 Klokner, L.M. - 657, 658
 Knight, M.J. - 574
 Knutson, R.G. - 397
 Kobringer, N. - 1083

- Koelling, A.C. — 481, 659
 Koehring, W.A. — 660
 Koestner, E.J. — 439
 Kolar, C.A. — 50, 55, 56, 57, 661, 909
 Korling, T. — 662, 663
 Kraege, D. — 664
 Krzysik, A.J. — 511
 Kuchler, A.W. — 665
 Kumler, M.L. — 666
 Kunshek, R.J. — 667
 Kurz, D.R. — 668, 669
 Kurz, H. — 670, 671, 672
 Ladd, D.M. — 805
 Ladner, E. — 673
 Lai, L. — 776
 Land Reclamation Program — 674, 675
 Lang, A.L. — 448
 Langenheim, V.A. — 1235
 Lapham, J.A. — 676, 677
 Laughlin, K. — 678
 Leary, M.E. — 512
 Ledgerwood, M. — 679
 Lehnen, L. — 286
 Leighton, M.M. — 680
 Leitner, L.A. — 681, 682
 Lesquereux, L. — 683, 684
 Levin, D.A. — 461, 462, 685
 Lewis, E. — 610
 Liang, C. — 686
 Liberta, A.E. — 27
 Liebtog, C.E. — 687, 740
 Limstrom, G.A. — 688, 689
 Lindsay, R.E. — 690, 691
 Lindsey, A.A. — 692, 693, 694, 993
 Lindsley, D. — 1084
 Lineback, J.A. — 650
 Link, R.P. — 318
 Locke, J.R. — 392
 Lopinot, A.C. — 695, 696, 697, 1243
 Lorenz, R.W. — 594, 595, 698, 699, 700
 Low, J.B. — 701
 Lowrie, D.C. — 702, 703
 Luse, T.A. — 704
 Luvall, J.C. — 705, 706
 Lynch, B.M. — 1235
 Macior, L.W. — 707
 Mackenzie, J.D. — 708
 Mackenzie, K. — 709
 MacMahon, R.R. — 710
 Macuszek, J.M. — 711
 Madany, M.H. — 712, 1222, 1223
 Madson, J. — 713
 Maier, C.T. — 714
 Maina, S.K. — 620
 Malmquist, A.J. — 715
 Manke, A.O. — 1077
 Marberry, W.M. — 716, 717
 Marshal, R. — 186
 Martin, W.E. — 718
 Master, W.A. — 719, 1275
 Matekaitis, P.A. — 1070
 Matsunga, W.O. — 720
 Mattoon, W.R. — 721
 McAvoy, B. — 722
 McClain, W.E. — 723, 724, 725
 McCleary, J.A. — 726, 727, 728
 McCleary, J.M. — 727, 728
 McComb, A.L. — 729
 McDonald, F.E. — 730, 731
 McDougall, W.B. — 687, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741
 McFall, D. — 742
 McGee, A.B. — 743
 McLaughlin, K.M. — 744
 McManis, D.R. — 745
 McMillan, F.W. — 159
 McMillan, R.B. — 746
 McNutt, W. — 392, 747
 McVickar, J.E. — 748
 Mead, S.B. — 749
 Medvick, C. — 750
 Meentemeyer, V. — 751
 Mees, J.D. — 717
 Melampy, A.R. — 752
 Melampy, M.N. — 991
 Merz, R.W. — 753
 Messenger, A.S. — 184, 754
 Messinger, J. — 887
 Metcalf, G.E. — 418
 Meyer, A.R. — 755, 756, 757
 Mezga, D.M. — 89
 Miceli, J.C. — 758
 Miller, L.J. — 991
 Miller, N.G. — 572, 759
 Miller, R.B. — 219, 241, 721, 760, 761, 762, 763, 764
 Miller, R.M. — 242, 765
 Minckler, L.S. — 533, 534, 766, 767, 768, 769, 770
 Mitchell, S.A. — 771
 Mitsch, W.J. — 267, 268, 772, 773, 774, 775, 776
 Mohlenbrock, R.H. — 350, 626, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 1015, 1017, 1087, 1181, 1182
 Molby, E.E. — 160
 Montgomery, C.E. — 809, 810
 Moore, J.A. — 811
 Moran, R.C. — 206, 812, 813, 814, 815, 816
 Moran, R.L. — 817, 818
 Moreth, L.H. — 819
 Morgan, M.D. — 820, 821
 Morrow, J.S. — 822
 Mosher, E.H. — 823, 824
 Mueller, B.K. — 575
 Mullen, C.C. — 825
 Muller, A.L. — 826
 Muller, R.M. — 1275
 Murphy, P.C. — 827
 Myatt, M.M. — 828
 Myers, R.M. — 829, 830, 831, 832, 833, 834
 Nawrot, J.R. — 691, 835, 836, 837, 1062
 Neal, E.E. — 838
 Neebe, D.J. — 167
 Nelson, D.C. — 839, 840
 Nelson, T.A. — 841
 Neville, M.E. — 27
 Nice, C. — 842
 Nielsen, D.G. — 843
 Niering, W.A. — 440
 Nixon, C.M. — 490, 844, 845, 983
 Norton, E.A. — 846
 Nyboer, R.W. — 847, 848, 849, 850
 Nyhoff, J.J. — 851
 Odell, R.T. — 72
 Odell, R.K. — 852
 O'Flaherty, L.M. — 853, 854, 855
 Old, S.M. — 821, 856, 857
 Olsen, R.D. — 1275
 Olson, J.S. — 858, 859
 Open Lands Project — 860
 Ormsbee, P. — 861
 Ostman, N.L. — 862, 863
 Ott, C.E. — 864
 Owens, G.H. — 865
 Ozimek, A.R. — 855
 Ozment, J.E. — 51, 866
 Paape, V. — 90

- Packheiser, J. - 27
 Page, J.L. - 867
 Page, L.M. - 317
 Paintin, R.D. - 868
 Palmer, E.J. - 869
 Parker, H.M. - 287, 870, 871
 Parrish, J.A.D. - 872, 873, 874, 875, 876, 877
 Parsons, J.D. - 353
 Patterson, H.N. - 878, 879
 Paulson, G.A. - 340, 775, 880, 1016
 Paveglio, F.L. - 126
 Pearson, J.A. - 881
 Pearson, J.W.P. - 882
 Peattie, D.C. - 883, 884, 885
 Peck, J.M. - 886, 887
 Pelz, D.R. - 588, 758, 888
 Penfound, W.T. - 741, 889
 Pentecost, E.D. - 890, 1275
 Pepoon, H.S. - 891, 892, 893, 894, 895, 896, 897, 898, 899
 Perkins, G.H. - 900
 Perozzi, R.E. - 901
 Peterson, D.L. - 902, 903, 904
 Peterson, G.M. - 905
 Petty, R.O. - 571, 694
 Phillippe, L.R. - 289
 Phillippe, P.E. - 289, 907
 Phillippe, R. - 906, 908
 Philo, G.R. - 909
 Phipps, R. - 910
 Pickett, S.T.A. - 911, 912, 913
 Pierre, D.J. - 914
 Phippen, R.W. - 348
 Plass, W.T. - 915
 Poellot, S. - 916
 Poggi, E.M. - 917
 Pooley, W.V. - 918
 Popelka, F.T. - 919
 Powell, R.L. - 922
 Powers, P.M. - 444
 Pursell, C. - 57
 Pursell, P.L. - 920
 Pussateri, W.P. - 921, 955
 Quarterman, E. - 922
 Raddin, C.S. - 514, 923
 Ranft, C.R. - 924
 Raveill, J. - 925
 Ray, B.W. - 11, 328
 Rayhill, S.M. - 871
 Raynal, D.J. - 926, 927, 928, 929
 Redfearn, P.L. - 726, 930, 931
 Reeder, J. - 932
 Reese, M.C. - 933
 Reeves, J.T. - 934, 935
 Regehr, D.L. - 936
 Reichle, D.E. - 937, 938, 939
 Reicken, F.F. - 729, 1059
 Reihmer, V.A. - 940
 Rensing, M. - 941
 Reuter, D. - 942
 Richards, D. - 943
 Richardson, M.W. - 944
 Ridgway, R. - 945, 946, 947, 948, 949, 950
 Ries, D.T. - 951
 Riis, P.B. - 186
 Risatti, J.B. - 952
 Roberts, P.J. - 953
 Robertson, P.A. - 954, 955, 956, 1208
 Robles, C. - 957
 Rodgers, C.S. - 958, 959
 Rogers, N.F. - 55, 56
 Rolfe, G.L. - 9, 10, 33, 34, 191, 470, 509, 588, 758, 888, 903, 904, 960, 961, 962, 963, 964, 965, 1217
 Roper, D.C. - 644
 Root, T.M. - 966, 967
 Roseberry, J.L. - 968
 Ross, H.H. - 969
 Rosso, W.A. - 970
 Rosson, J.F. - 971
 Rouffa, A.S. - 32
 Routien, J.B. - 972
 Rowe, E. - 973
 Runkel, S.T. - 974
 Russell, R.L. - 975
 Rust, W. - 776
 Rutherford, W.L. - 976
 Sadowski, T. - 977
 Salisbury, R.D. - 978
 Sampson, G.N. - 979
 Sampson, H.C. - 980, 981
 Sanders, D. - 982
 Sanderson, H.R. - 983
 Sandusky, J. - 984
 Sather, K. - 836
 Sauer, C.O. - 985
 Sawyer, A. - 986
 Schaal, B.A. - 987, 988, 989
 Schavilje, J.P. - 990
 Schemske, D.W. - 991
 Schemske, K.M. - 991
 Schlesinger, R.C. - 359, 770, 992
 Schmelz, D.V. - 993
 Schmid, J.A. - 994
 Schmierbach, M.R. - 743
 Schmoll, H.M. - 995
 Schneek, J. - 996
 Schoenwetter, J. - 997
 Schramm, P. - 819, 998, 999, 1000, 1001, 1002, 1003
 Schubert, J.P. - 1275
 Schulenberg, R. - 1004
 Schwegman, J.E. - 22, 340, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017
 Scott, A.R. - 507, 508
 Seymour, R.F. - 241
 Shackelford, M.W. - 1018
 Shaffstall, K.E. - 1019
 Shake, R.E. - 1020
 Shantz, H.L. - 1021
 Shaw, J. - 1022
 Shear, G.M. - 1023
 Shelford, V.E. - 1024, 1025, 1026, 1027, 1028, 1029, 1030
 Shephard, W.M. - 340, 1016
 Sherff, E.E. - 1031, 1032, 1033, 1034
 Sheviak, C.J. - 1035, 1036, 1037, 1038
 Shim, J. - 1039
 Sholl, R.D. - 1040, 1041
 Short, C.W. - 1042
 Shreve, F. - 1043
 Siemert, H.F. - 1044
 Simmons, L.M. - 1045
 Simon, J.A. - 1235
 Sipp, S.K. - 117, 118, 119, 587, 1046, 1047, 1048
 Skorepa, A.C. - 1049, 1050, 1051, 1052
 Slifer, C. - 1053, 1054
 Smith, A.J. - 1055, 1056, 1057
 Smith, G.D. - 1058, 1059
 Smith, G.V. - 1060
 Smith, I.S. - 1060
 Smith, J.G. - 1061
 Smith, J.L. - 241
 Smith, J.R. - 1062
 Smith, R.D. - 1063
 Smith, R.S. - 846
 Smith, V.G. - 1064
 Snare, W. - 1065
 Snearly, K.E. - 1066
 Snider, J.A. - 319, 1052, 1067
 Sobek, A.A. - 1275

- Soerianegara, I. — 1068
 Solomon, J.C. — 1069
 Sorensen, P.D. — 1070
 Southern, L.K. — 1071
 Southern, W.E. — 1071
 Spaeth, J.N. — 700, 1072
 Sparwasser, R.C. — 1073
 Speer, J. — 910
 Sperry, T.M. — 1074, 1075
 Spessard, L.L. — 1076
 Spletstaszer, M.A. — 1077
 Springer, L.L. — 1078, 1079
 Stains, H. — 1142
 Steagall, M.M. — 1080, 1081, 1082
 Stearns, F. — 1083, 1084
 Steffek, D.W. — 126
 Stenger, D.M. — 357
 Sterling, D.K. — 694
 Stewart, J.T. — 1085
 Stewart, W.D. — 1023
 Stiernberg, E.J. — 1086
 Stookey, D.G. — 353, 1087
 Stolter, R.E. — 243, 1088, 1089, 1214, 1273
 Stover, E.L. — 1090, 1091, 1092
 Strausbaugh, P.D. — 389
 Street, L.M. — 1093
 Stritch, L.R. — 1094
 Stupka, R.C. — 890
 Sukthumrong, A. — 1095
 Sutter, W.A. — 754
 Swayne, J.R. — 75, 1096
 Swift, M.M. — 1097
 Swink, F. — 1098, 1099, 1100
 Switzer, H.D. — 1101
 Szafoni, R.E. — 511
 Taylor, A.M. — 1102, 1103, 1104
 Taylor, J.D. — 719
 Tazik, D.J. — 511, 512
 Tehon, L.R. — 764, 1105, 1106
 Telford, C.J. — 390, 1107, 1108, 1109, 1110
 Terpening, V. — 656, 1111
 Thompson, D.M. — 1112
 Thompson, J.N. — 1113, 1114
 Thompson, R.L. — 1115
 Thomson, P.M. — 1116, 1117, 1118
 Thone, F.E.A. — 1119, 1120, 1121, 1122, 1123
 Thurn, E.A. — 192, 1124
 Thut, H.F. — 288
 Tjitosome, S. — 1125
 Tortorelli, R.L. — 410, 1126
 Trabert, A.L. — 673
 Tracy, N. — 1127
 Transeau, E.N. — 1128
 Trelease, W. — 1129, 1130
 Triner, E.D. — 182
 Triner, E.J. — 1131
 Troll, R. — 1132
 Tucker, L.T. — 1133
 Turner, H. — 1134
 Turner, J.D. — 719
 Turner, L.M. — 1135, 1136, 1137, 1138, 1139, 1140, 1141
 Turner, R.W. — 1142
 Twomey, A.C. — 1143
 Ugent, D. — 23, 944
 Ulrich, F.T. — 1146
 Urban, D.L. — 1147
 Urbanek, R.P. — 1148
 U.S. Department of Agriculture — 1144
 U.S. Department of the Army Corps of Engineers — 1145
 Van Asdall, W. — 694
 Van Deventer, W.C. — 1149
 Van Oosten, J. — 1150
 Van Valkenberg, L.C. — 24, 1151
 Van Zandt, N.B. — 1152
 Vanikour, W.S. — 1275
 Vasey, G. — 1153, 1154, 1155, 1156
 Vaughn, R.H. — 1157, 1158
 Verner, L. — 991
 Verts, B.J. — 1159
 Vestal, A.G. — 717, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167,
 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1244
 Vierling, P.E. — 1176
 Vogel, R.L. — 1177
 Vogel, W.G. — 1178
 Voigt, J.W. — 806, 807, 1179, 1180, 1181, 1182
 Voss, J. — 1183, 1184, 1185, 1186, 1187, 1188, 1189
 Wade, D.E. — 1190, 1191
 Wade, D.R. — 1190, 1191
 Waldhaus, E.G. — 968
 Walker, G.O. — 329
 Wallace, D.C. — 1192
 Waggoner, G.S. — 1193
 Wagner, J.A. — 754
 Warne, H.S. — 1194
 Warner, D.A. — 1195
 Warnock, J.E. — 475
 Warren, D.K. — 637
 Wascher, H. — 1196
 Wascher, H.L. — 329
 Waterman, W.G. — 1197, 1198, 1199, 1200, 1201
 Watts, M.T. — 1202
 Wayne, W.J. — 1203
 Weaver, G.T. — 52, 195, 359, 610, 706, 863, 956, 1204, 1205, 1206,
 1207, 1208
 Weber, N.M. — 1209
 Weber, W.R. — 1210
 Weese, A.O. — 1211
 Weik, K.L. — 1212
 Wells, F.R. — 1213
 West, V. — 1214
 Westemeier, R.L. — 1215
 Westmoreland, G.R. — 1216
 Wheeler, G.L. — 1217
 White, J. — 25, 340, 627, 1016, 1218, 1219, 1220, 1221, 1222, 1223
 Whiteside, W. — 1226
 Whitford, P.B. — 1224
 Whitney, J.D. — 1225
 Wiedman, J.E. — 1226
 Wieland, N.K. — 1227, 1228
 Wiemhoff, J.R. — 773, 1229
 Wilding, L.P. — 1230
 Wilhelm, G.S. — 1100, 1231, 1232
 Wilkey, M. — 1275, 1276
 Williams, R. — 1233
 Willman, H.B. — 370, 1234, 1235
 Wilson, A.H. — 1236
 Willson, M.F. — 991
 Winchell, A. — 1237
 Winchell, L.L.D. — 1238
 Windler, D.R. — 1239
 Winterringer, G.S. — 607, 1030, 1240, 1241, 1242, 1243, 1244
 Winters, R.K. — 639
 Woehde, J.D. — 770
 Wolf, J. — 1245
 Wombacher, J. — 1246
 Wood, W.O. — 1247
 Woodard, J. — 1248, 1249, 1250
 Woodham, S. — 307
 Woolf, A. — 837
 Worthen, A.H. — 1251, 1252, 1253, 1254, 1255
 Wray, D.E. — 455
 Wright, H.E. — 1256, 1257
 Wright, P.G. — 834
 Wunderle, S.L. — 1258, 1259

Wunderlin, R.P. — 1260, 1261, 1262, 1263
 Yeager, L.E. — 1264, 1265
 Young, C.M. — 1266
 Young, R.A. — 417, 419, 1267, 1268
 Zales, W.M. — 1269
 Zawacki, A.A. — 1270

Zehr, D.R. — 1271, 1272, 1273
 Zellmer, S.D. — 450, 1274, 1275, 1276
 Ziegler, E. — 1277
 Zimmerman, U.P. — 711, 935
 Zoanetti, R. — 1111
 Zon, R. — 1021

SECTION-OF-THE-STATE INDEX

North: 31, 32, 36, 38, 39, 45, 49, 58, 64, 76, 79, 91-93, 100, 106-109, 111, 135, 140, 142, 143, 148, 149, 181, 186, 190, 193, 197-200, 205, 206, 209-211, 223-225, 227, 230, 233-236, 238, 244, 251, 257, 258, 260, 263, 270, 273, 282, 291, 292, 295, 331-339, 341-344, 355-357, 362, 371-376, 378-383, 387, 389-392, 399, 402, 420, 427, 428, 440, 441, 446, 447, 450-452, 461, 462, 476-480, 486, 488, 501, 514, 516-521, 525, 526, 530, 540, 541, 544, 565, 567, 568, 574, 577, 589, 592, 594, 595, 623, 624, 633, 634, 648, 650, 660, 664, 670-672, 678, 685, 692, 699, 702, 703, 719, 727, 728, 742, 747, 754, 756, 757, 762, 809, 812-815, 826, 836, 839, 840, 842, 851, 853, 858, 859, 865, 868, 878, 880, 882-885, 891-899, 914, 919, 923, 932, 937-939, 943, 951, 952, 957, 969, 972, 976, 978, 979, 987-990, 994, 995, 1004, 1009, 1022, 1024, 1030-1033, 1036, 1038, 1045, 1053-1057, 1066, 1070, 1071, 1083, 1084, 1086, 1093, 1097-1104, 1112, 1119-1123, 1130, 1132, 1134, 1146, 1150, 1161, 1176, 1180, 1183-1187, 1190, 1191, 1194, 1196-1201, 1231-1233, 1236, 1256, 1260-1263, 1269

South: 8-10, 16, 18, 22, 24, 26, 27, 28, 33-36, 40, 42-44, 46, 47, 51-55, 60, 61, 63, 65, 67, 74, 75, 77, 80-83, 85-87, 89, 90, 112, 122, 137-139, 150-152, 159, 161-164, 166, 168-170, 182, 185, 188, 191, 195, 215, 218, 233, 243, 252, 255, 259, 261, 265-270, 274, 275-277, 283, 284, 287, 290, 293, 296-298, 301-307, 312, 319, 324, 349, 350, 352, 353, 358, 412-417, 419, 422-424, 440, 443, 444, 457-459, 464, 467, 472, 473, 485, 487, 489, 497, 498, 499, 500, 503, 513, 522, 524, 527-529, 531, 532-534, 542, 543, 545-547, 570, 572, 591, 609, 610, 613-618, 622, 626, 628, 638, 642, 649, 652, 653, 659, 668, 674, 675, 679, 681, 682, 690-692, 694, 697, 705-708, 710, 711, 730, 751, 760, 763, 766-769, 770, 772-774, 777-782, 784, 785, 798, 800, 802-804, 806-808, 811, 817, 825, 828, 830, 841, 843, 845, 849, 852, 861-864, 866, 869, 881, 886, 889, 903, 905, 906, 909, 915, 916, 920, 921, 930, 931, 941, 945-949, 950, 954-956, 961-965, 968, 970, 971, 975, 982, 992, 993, 996, 997, 1005-1007, 1011, 1016, 1017, 1019, 1020, 1049-1052, 1077, 1080, 1082, 1087, 1088, 1090, 1091, 1094, 1096, 1097, 1109, 1111, 1115, 1116, 1118, 1127, 1131, 1140, 1142, 1147, 1148, 1151, 1158, 1159, 1169, 1179-1181, 1195, 1205, 1207, 1208, 1210, 1214, 1215, 1216, 1218, 1229, 1239, 1240, 1244, 1247, 1252, 1255, 1258, 1259, 1268, 1271-1273

Central: 1-7, 11, 14, 17, 20, 21, 31, 40, 41, 68, 69, 71-73, 78, 88, 96-99, 101-105, 110, 112-120, 123-129, 134, 136, 144-147, 153-158, 160, 178-180, 183, 185, 187, 190, 192, 194, 207, 208, 212, 220-222, 226, 228, 231, 242, 245-248, 272, 278-281, 283, 285, 286, 288, 289, 293, 296, 308, 314, 316, 325, 330, 345, 347, 348, 351, 360, 361, 363, 365-369, 385, 388, 390, 393, 400, 401, 404, 405, 407, 408, 410, 425, 428, 430, 436-439, 453-456, 459, 460, 467, 468, 470, 471, 474, 475, 481, 484, 490, 495, 496, 499, 502, 504-507, 510, 519, 520, 535-539, 547, 550, 569, 571, 573, 574, 578-588, 590, 593, 596-600, 603, 617, 618, 620, 621, 628, 629, 631, 632, 635-637, 641, 643-645, 648, 657, 658, 666, 667, 669, 674, 675, 686, 687, 700, 701, 714, 716-718, 722, 723, 725, 731-735, 737-741, 743, 749, 752, 755, 758, 759, 765, 775, 776, 806, 818-822, 827, 829, 831-836, 838, 842, 847, 850, 854-857, 870, 871, 873, 874, 888, 890, 894, 901, 902, 904, 905, 907, 908, 910, 911, 924, 926-929, 933, 934, 936, 958, 959, 961, 966, 967, 973, 983, 990, 991, 998, 999, 1001, 1003, 1009, 1010, 1012, 1013, 1018, 1022, 1023, 1034, 1039, 1040, 1041, 1046-1048, 1060, 1061, 1063-1065, 1068, 1069, 1072, 1074-1076, 1078, 1079, 1085, 1091, 1092, 1098-1101, 1108, 1113, 1114, 1124-1126, 1133, 1135, 1137-1139, 1141, 1143, 1145, 1149, 1152, 1157, 1160, 1163-1165, 1169, 1171, 1173-1177, 1184, 1187, 1188, 1192, 1196, 1211-1213, 1217, 1227, 1228, 1238, 1239, 1246, 1250, 1251-1254, 1264-1266, 1270, 1274-1277

State: 12, 13, 15, 23, 25, 29, 30, 53, 54, 56, 59, 62, 66, 70, 84, 94, 95, 121, 130-133, 165, 167, 171-177, 184, 189, 201-204, 213, 214, 217, 219, 229, 232, 237, 239-241, 249, 250, 253, 254, 256, 264, 294, 299, 300, 309-311, 313, 315, 317, 318, 320-323, 411, 418, 421, 426, 429, 431-435, 442, 445, 448, 455, 463, 465, 466, 469, 482, 483, 491-494, 508, 509, 511, 512, 515, 523, 538, 549, 551-564, 576, 601, 602, 604-608, 611, 612, 619, 625, 627, 639, 640, 646, 647, 651, 654-656, 661-663, 665, 666, 669, 673, 676, 677, 680, 683, 684, 688, 689, 695, 696, 698, 709-712, 713, 721, 724, 726, 729, 736, 745, 746, 748, 750, 753, 761, 764, 771, 783, 786-797, 799, 801, 805, 816, 823, 824, 837, 844, 846, 848, 860, 867, 872, 875-879, 887, 900, 912, 913, 917, 918, 922, 936, 940, 944, 953, 960, 974, 980, 981, 984-986, 1000, 1002, 1008, 1014, 1015, 1021, 1025-1029, 1035, 1037, 1042-1044, 1058, 1059, 1062, 1067, 1077, 1081, 1089, 1095, 1105, 1106, 1110, 1117, 1128, 1129, 1136, 1153-1156, 1162, 1166-1168, 1170, 1172, 1177, 1182, 1189, 1193, 1202, 1203, 1204, 1206, 1209, 1219-1226, 1230, 1234, 1235, 1237, 1241-1243, 1245, 1248, 1249, 1257, 1267

COUNTY INDEX

Adams 146, 308, 316, 506, 686, 1188
 Alexander 67, 75, 177, 188, 195, 215, 255, 304, 424, 545, 609, 649, 659, 681, 682, 705, 763, 800, 862, 869, 881, 903, 921, 954, 955, 956, 968, 971, 1005, 1016, 1049, 1111, 1195, 1207, 1229, 1239, 1240, 1244
 Bond 293, 920, 968
 Boone 333, 335, 339, 826, 1022, 1176
 Brown 316
 Bureau 142, 428, 448, 689, 836, 1112, 1184, 1196
 Calhoun 669, 1139, 1141, 1265, 1270
 Carroll 211, 326, 427, 428, 693, 893, 980, 1022, 1103, 1180, 1260-1263, 1267

Cass 123-125, 403, 484, 597, 644, 731, 1009, 1133, 1145, 1160
 Champaign 1-3, 71, 72, 88, 110, 113-115, 117, 118, 127-129, 153-156, 160, 183, 192, 194, 212, 228, 231, 248, 314, 330, 345, 393, 405, 407, 408, 410, 425, 430, 437-439, 456, 460, 470, 490, 495, 539, 569, 578, 584, 586-588, 597, 600, 603, 621, 631, 632, 666, 687, 700, 716-718, 732, 737, 739-741, 743, 752, 758, 820, 821, 856, 857, 874, 888, 901, 926-929, 961, 966, 967, 991, 1018, 1023, 1068, 1072, 1074, 1075, 1078, 1079, 1103, 1113, 1114, 1125, 1126, 1143, 1171, 1173-1175, 1177, 1211, 1217, 1227, 1228, 1250, 1266
 Christian 597, 643, 818, 1145
 Clark 40, 284, 287, 496, 499, 542, 617, 618, 666, 847, 849, 906, 1090, 1091, 1158, 1177, 1226, 1255, 1267

Clay	293	Johnson	27, 33, 61, 75, 81, 159, 265-268, 301, 302, 307, 312, 319, 440, 464, 487, 500, 513, 669, 681, 682, 708, 772-774, 782, 866, 869, 941, 968, 1016, 1049, 1080, 1082, 1218, 1229, 1240, 1244, 1273
Clinton	920	Kane	193, 271, 343, 516, 568, 633, 634, 728, 814, 815, 1055, 1071, 1176, 1187, 1231, 1232
Coles	4, 40, 144, 209, 245, 278-281, 283, 285, 286, 365-368, 467, 471, 502, 850, 870, 871, 907, 910, 934, 935, 1091, 1092, 1163, 1164, 1177	Kankakee	226, 448, 462, 516, 519, 568, 668, 702, 755, 775, 776, 836, 842, 1034, 1149, 1176, 1239
Cook	32, 36, 45, 49, 64, 76, 91, 108, 135, 148, 196, 210, 223-225, 234, 236, 244, 273, 371-376, 381, 382, 390, 420, 440, 446, 447, 451, 452, 462, 476-480, 488, 514, 517, 518, 530, 547, 567, 568, 589, 650, 670, 671, 678, 693, 703, 728, 747, 756, 757, 813, 815, 842, 858, 859, 868, 880, 882-885, 894, 898, 919, 923, 932, 972, 978, 994, 995, 1024, 1030-1033, 1045, 1057, 1071, 1083, 1084, 1093, 1097, 1104, 1134, 1146, 1150, 1161, 1176, 1194, 1197, 1198	Kendall	177, 568, 1176
Crawford	168, 169, 467, 617, 618, 711, 906, 1177, 1255	Knox	11, 30, 448, 535, 689, 819, 998, 999, 1001, 1003, 1069, 1124, 1212, 1246
Cumberland	293, 369, 825, 1165, 1169, 1258, 1259	Lake	38, 39, 50, 64, 196, 205, 206, 230, 233, 234, 236, 282, 295, 383, 391, 402, 420, 440, 441, 461, 462, 541, 565, 568, 577, 648, 650, 672, 685, 693, 702, 812, 813, 815, 852, 853, 880, 898, 937-939, 969, 972, 987-989, 1031-1033, 1038, 1053, 1054, 1066, 1071, 1083, 1084, 1086, 1103, 1150, 1176, 1183, 1185, 1186, 1196, 1199, 1200, 1201, 1236
De Kalb	260, 333, 544, 592, 660, 727, 728, 814, 865, 979, 1176	La Salle	5, 17, 30, 181, 238, 378-380, 390-392, 523, 540, 670, 671, 689, 762, 836, 943, 951, 1119-1123, 1176, 1283
De Witt	192, 597, 1145	Lawrence	195, 277, 301, 302, 968, 1255, 1267
Douglas	283, 289, 908, 1177	Lee	335, 428, 441, 1022
Du Page	49, 64, 76, 196, 291, 420, 441, 478, 518, 754, 814, 880, 898, 914, 1004, 1056, 1071, 1161, 1176	Livingston	454, 648, 836, 1187
Edgar	538, 570, 571, 617, 618, 657, 658, 725, 1075, 1177	Logan	347, 348, 597, 1145
Edwards	996	Macon	5, 96, 115, 117, 459, 578, 584, 587, 597, 643, 681, 718, 1075, 1145
Effingham	293, 968	Macoupin	520, 575, 674, 675, 723, 765, 835, 890, 1095, 1188, 1274-1276
Fayette	283, 293, 457-459, 748, 920, 1267	Madison	170, 233, 304, 513, 679, 997, 1019, 1111, 1252
Ford	597, 874, 1177	Marion	177, 290, 444, 920, 1169, 1267
Franklin	112, 115, 117, 138, 274, 534, 961, 1159	Marshall	326, 836, 980
Fulton	30, 123, 232, 448, 474, 475, 481, 523, 573, 689, 750, 894, 1061, 1095, 1124	Mason	5, 17, 20, 21, 68, 69, 123-125, 326, 394, 400, 401, 428, 436, 484, 593, 597, 701, 714, 731, 958, 959, 1009, 1012, 1013, 1049, 1075, 1137, 1145, 1160, 1196, 1238
Gallatin	75, 195, 358, 487, 527, 681, 682, 694, 864, 869, 996, 1049, 1107, 1240, 1244, 1267	Massac	75, 159, 298, 626, 682, 802, 869, 941, 1007, 1011, 1016, 1229, 1244
Greene	41, 507, 1138, 1141, 1253, 1270	McDonough	590, 689, 822, 827, 829-834, 838, 855, 933, 1009, 1040, 1041, 1254, 1267
Grundy	30, 140, 440, 441, 448, 450, 520, 523, 568, 574, 674, 675, 689, 719, 836, 839, 840, 851, 976, 1176, 1269	McHenry	31, 568, 815, 880, 1066, 1071, 1176, 1196, 1201
Hamilton	1127	McLean	5, 6, 7, 17, 157, 187, 207, 208, 220, 242, 351, 597, 718, 722, 958, 959, 1145, 1267
Hancock	14, 363, 404, 504, 505, 536, 629, 630, 667, 689, 749, 832, 833, 854, 973, 1039, 1063, 1213, 1252	Menard	110, 114, 115, 117, 468, 586, 597, 641, 643, 645, 759, 1145
Hardin	33, 63, 75, 81, 159, 161, 195, 415, 464, 485, 487, 527, 546, 669, 681, 682, 864, 866, 869, 915, 1049, 1240, 1244	Mercer	427, 624
Henderson	427, 878	Monroe	161, 276, 304, 669, 866, 997, 1049, 1111, 1254
Henry	30, 211, 262, 263, 441, 523, 689, 750, 990, 1095, 1196	Montgomery	293, 750, 1095
Jackson	16, 22, 26, 63, 74, 75, 77, 122, 137-139, 164, 177, 216, 252, 270, 275, 276, 297, 303-305, 326, 352, 358, 424, 448, 487, 489, 497, 498, 522, 531, 534, 572, 591, 622, 642, 682, 689-691, 777-779, 781, 784, 798, 811, 843, 866, 930, 941, 968, 1073, 1080, 1088, 1111, 1115, 1116, 1118, 1142, 1151, 1159, 1179, 1180, 1207, 1240, 1244, 1247, 1271, 1272	Morgan	428, 484, 873, 874, 1060
Jasper	293, 1177, 1215, 1255	Moultrie	112, 115, 117, 1157, 1177
Jefferson	138, 301, 302, 968	Ogle	79, 93, 197-200, 257, 258, 292, 333, 335, 355, 356, 501, 521, 525, 526, 594, 595, 623, 660, 664, 699, 809, 810, 826, 957, 979, 1022, 1070, 1190, 1191
Jersey	145, 635-637, 669, 924, 1141, 1253, 1270	Peoria	177-180, 221, 222, 547, 1085, 1188, 1254
Jo Daviess	149, 251, 344, 387, 427, 428, 441, 486, 670, 671, 681, 693, 891-897, 899, 980, 1109, 1036	Perry	42, 47, 48, 52, 122, 138, 182, 232, 297, 448, 473, 653, 689, 690, 691, 1131, 1159

Piatt	5, 17, 31, 71, 72, 97-99, 101-105, 110, 113-117, 119, 120, 134, 147, 158, 325, 360, 361, 578-587, 596-599, 643, 718, 752, 902, 904, 983, 1046-1048, 1068, 1114, 1125, 1126, 1145, 1177	Wabash	55, 195, 692, 694, 748, 949, 993, 996, 1255
Pike	620, 669, 1138, 1139, 1141, 1270	Warren	136
Pope	8-10, 24, 33, 34, 44, 46, 65, 75, 81-83, 85-90, 126, 150-152, 159, 164, 191, 195, 216, 243, 252, 259, 269, 298, 312, 358, 414, 416, 417, 419, 440, 443, 464, 487, 522, 524, 527-529, 614, 615, 666, 669, 681, 682, 785, 802, 845, 861, 864, 869, 930, 941, 962-965, 975, 1006, 1007, 1016, 1017, 1049, 1052, 1094, 1229, 1240, 1244, 1267	Washington	138, 622, 1159, 1239
Pulaski	75, 161, 164, 195, 298, 500, 681, 682, 715, 802, 869, 1049, 1129, 1229, 1240, 1244	Wayne	
Putnam	441, 689, 836	White	195, 694, 968, 996, 1255
Randolph	304, 324, 448, 524, 631, 689, 770, 866, 941, 1049, 1107, 1111, 1207, 1210, 1252	Whiteside	211, 326, 428, 1022, 1196
Richland	730, 748, 950, 1177	Will	30, 49, 64, 100, 106-109, 111, 227, 236, 362, 420, 478, 518, 523, 568, 689, 756, 836, 842, 880, 898, 1083, 1084, 1102, 1103, 1176
Rock Island	211, 428, 484, 1132, 1196	Williamson	18, 28, 35, 74, 75, 122, 138, 159, 164, 166, 216, 252, 326, 358, 448, 464, 472, 487, 523, 681, 682, 689-691, 750, 808, 841, 970, 1082, 1087, 1095, 1147, 1148, 1159, 1240, 1244, 1255, 1271, 1272
St. Clair	80, 170, 304, 448, 531, 534, 543, 666, 669, 679, 689, 886, 968, 997, 1111, 1252	Winnebago	93, 143, 181, 331-338, 341, 342, 389, 742, 826, 1022
Saline	33, 50, 74, 75, 162, 216, 218, 252, 259, 269, 358, 413, 448, 464, 487, 523, 628, 652, 669, 681, 682, 689-691, 697, 909, 930, 970, 1049, 1148, 1240, 1244	Woodford	836, 1184
Sangamon	385, 388, 597, 643, 818, 1145, 1254	All Counties:	12, 13, 15, 23, 25, 29, 36, 50, 53, 54, 56, 59, 60, 62, 66, 70, 73, 78, 84, 92, 94, 95, 121, 130-133, 161, 163, 165, 167, 171-176, 180, 184, 185, 189, 190, 201-204, 214, 216, 219, 229, 235, 237, 239-241, 249, 250, 251, 253, 254, 256, 261, 264, 272, 288, 294, 296, 299, 309-311, 313, 315, 317, 318, 320-323, 327-329, 340, 346, 349, 350, 353, 354, 359, 364, 370, 377, 384, 386, 395-398, 406, 409, 411, 418, 421, 424, 426, 429, 431-435, 441, 445, 453, 455, 463, 465, 466, 469, 482, 483, 491-494, 508, 509, 511, 512, 515, 532, 533, 537, 548-550, 552-564, 576, 601, 602, 604-608, 611-613, 617-619, 625, 627, 639, 640, 646, 647, 651, 654-656, 661-663, 665, 673, 676, 677, 680, 683, 684, 688, 695, 696, 698, 709, 712, 713, 721, 724, 726, 729, 736, 745, 746, 753, 760, 761, 764, 766-769, 771, 783, 786-797, 799, 801, 803, 805, 806, 816, 823, 824, 837, 844, 846, 848, 852, 860, 861, 867, 872, 875-877, 879, 889, 900, 905, 911-913, 917, 918, 922, 931, 936, 940, 944-948, 953, 960, 968, 974, 981, 984-986, 992, 1000, 1002, 1008, 1014, 1015, 1021, 1025-1029, 1035, 1037, 1042-1044, 1050, 1051, 1058, 1059, 1062, 1067, 1077, 1081, 1089, 1096, 1098, 1099, 1100, 1101, 1105, 1106, 1109, 1110, 1117, 1128, 1130, 1135, 1136, 1140, 1152-1156, 1162, 1166-1168, 1170, 1172, 1178, 1181, 1182, 1189, 1193, 1202-1204, 1206, 1209, 1217, 1219-1225, 1230, 1234, 1235, 1237, 1241-1243, 1245, 1248, 1249, 1251, 1256, 1257, 1268, 1277
Schuyler	448, 689		
Scott	620, 1253, 1270		
Shelby	112, 115, 117, 293, 1076, 1177		
Stark	1065		
Stephenson	333, 335, 441, 893, 1022		
Tazewell	67, 428, 484, 510, 645, 1010, 1160, 1184		
Union	28, 43, 51, 57, 63, 75, 77, 81, 161, 177, 188, 216, 252, 301, 302, 304, 306, 307, 352, 412, 422-424, 440, 464, 487, 489, 503, 527, 531, 610, 616, 638, 652, 669, 681, 682, 705-707, 710, 715, 751, 777, 779, 780, 804, 807, 808, 817, 828, 862-864, 866, 869, 916, 930, 941, 971, 982, 1020, 1049, 1080, 1082, 1107, 1111, 1195, 1205, 1208, 1214, 1216, 1229, 1240, 1244, 1271, 1272		
Vermilion	246-248, 283, 448, 449, 523, 550, 617, 618, 621, 689, 733-735, 738, 743, 752, 845, 990, 1064, 1192, 1264		

NATURAL-DIVISION INDEX

1. Wisconsin Driftless Division

149, 251, 344, 387, 441, 486,
670, 671, 692, 891-899, 979,
980, 1009, 1130, 1260-1263

2. Rock River Hill Country Division

a. Freeport Section:

93, 143, 186, 251, 326, 331,
333, 335-337, 341, 342, 389,
441, 692, 809, 810, 826, 979,
1022, 1103, 1130, 1190, 1191,
1196, 1263, 1267

b. Oregon Section:

79, 93, 197-200, 251, 257,
258-292, 333-335, 338, 355-357,
441, 501, 521, 525, 526, 594,
595, 623, 660, 664, 699, 809,
810, 826, 957, 979, 1070, 1130,
1190, 1191, 1196

3. Northeastern Morainal Division

a. Morainal Section:

31, 32, 38, 39, 49, 64, 67, 100,
106-109, 135, 148, 193, 196,
205, 206, 209, 210, 227, 230,
236, 251, 271, 273, 282, 291,
295, 333, 343, 371, 374, 375,
381-383, 390, 420, 440, 441,
446, 447, 452, 462, 478, 514,
516-518, 530, 541, 565, 568,
577, 592, 633, 634, 648, 650,
670-672, 678, 692, 703, 728,
747, 754, 756, 757, 812-815,
826, 842, 853, 865, 868, 880,
882, 885, 894, 898, 914, 919,
937-939, 952, 972, 978-980,
994, 995, 1004, 1031-1033,
1038, 1045, 1053-1057, 1066,
1071, 1083, 1084, 1086, 1102,
1103, 1130, 1134, 1150, 1161,
1176, 1183, 1185-1187, 1194,
1196-1201, 1231, 1232, 1236

b. Lake Michigan Dune Section: 58, 91, 196, 381, 382, 399, 402, 420, 461, 514, 568, 650, 685, 703, 757, 812, 813, 858, 859, 882, 969, 987-989, 994, 1150

c. Chicago Lake Plain Section: 36, 45, 64, 76, 91, 93, 148, 196, 209, 210, 223-225, 233, 234, 236, 244, 251, 273, 371-376, 382, 420, 447, 451, 452, 462, 476-480, 488, 514, 517-519, 547, 567, 568, 577, 589, 650, 670, 671, 702, 756, 757, 813, 842, 882-884, 894, 898, 923, 932, 972, 978, 994, 1024, 1030, 1033, 1045, 1083, 1084, 1093, 1097, 1103, 1104, 1146, 1150, 1194

d. Winnebago Drift Section: 143, 251, 331-337, 339, 341, 389, 568, 742, 826, 1022

4. Grand Prairie Division

a. Grand Prairie Section: 1-7, 17, 31, 40, 71, 72, 88, 96-99, 101-107, 109-120, 127-129, 134, 140, 142, 144, 147, 153-158, 160, 177-181, 183, 187, 192, 194, 207, 208, 212, 214, 220-222, 227, 228, 231, 236, 238, 242, 245-248, 251, 260, 278-281, 283, 285, 286, 289, 314, 325, 330, 345, 351, 360-362, 365-367, 378-380, 390, 391-394, 405, 407, 408, 410, 425, 430, 437-439, 450, 454, 456, 459, 460, 467, 470, 471, 478, 490, 495, 502, 510, 519, 520, 523, 537-540, 544, 547, 568, 569, 574, 578-588, 596-600, 603, 617, 618, 621, 631-634, 643, 645, 648, 657, 658, 660, 666, 670, 671, 674, 675, 687, 700, 716-719, 722, 725, 727, 728, 732-735, 737-741, 743, 752, 755, 758, 762, 810, 814, 820, 821, 826, 836, 839, 840, 842, 845, 850, 851, 856, 857, 870, 871, 874, 880, 888, 901, 902, 904, 907, 908, 910, 926-929, 934, 935, 943, 951, 958, 959, 961, 966, 967, 976, 978, 980, 983, 991, 1018, 1022, 1023, 1046-1048, 1056, 1064, 1068, 1072, 1074, 1075, 1076, 1078, 1079, 1085, 1090-1092, 1108, 1112-1114, 1119-1123, 1125, 1126, 1143, 1145, 1149, 1157, 1158, 1163-1165, 1171, 1173-1177, 1184, 1187, 1190, 1191, 1211, 1217, 1227, 1228, 1231, 1232, 1233, 1250, 1266, 1267, 1269

b. Springfield Section: 17, 110, 293, 347, 348, 385, 388, 403, 459, 468, 597, 641, 643, 645, 759, 818, 958, 1012, 1133, 1145, 1238, 1254

c. Western Section: 11, 262, 263, 1065, 1069, 1095, 1112, 1196

d. Green River Lowland Section: 257, 258, 262, 263, 441, 980, 1014, 1022, 1112, 1190

e. Kankakee Sand Area Section: 106, 226, 362, 428, 462, 516, 668, 702, 755, 775, 776, 1034

5. Upper Mississippi River and Illinois River Bottomlands Division

a. Illinois River Section: 41, 68, 69, 123-126, 177, 179, 222, 326, 400, 401, 441, 468, 481, 484, 507, 547, 573, 576, 620, 644, 645, 832, 958, 1010, 1060, 1085, 1112, 1133, 1135, 1137-1139, 1141, 1238, 1253, 1254, 1265, 1270

b. Mississippi River Section: 211, 308, 363, 404, 504, 505, 536, 667, 1138, 1212

6. Illinois River and Mississippi River Sand Areas Division

a. Illinois River Section: 20, 21, 400, 403, 428, 436, 484, 576, 593, 701, 714, 731, 958, 959, 1009, 1013, 1014, 1060, 1074, 1075, 1112, 1133, 1160, 1238

b. Mississippi River Section: 211, 427, 428, 624, 878, 1014, 1036, 1180

7. Western Forest - Prairie Division

a. Galesburg Section: 17, 136, 146, 180, 308, 316, 363, 474, 475, 481, 504, 523, 535, 547, 573, 590, 624, 628, 629, 723, 749, 750, 819, 822, 827, 829, 830-834, 838, 854, 855, 894, 933, 998, 999, 1001, 1003, 1009, 1040, 1041, 1060, 1061, 1065, 1095, 1124, 1188, 1212, 1246, 1252, 1254, 1267

b. Carlinville Section: 507, 575, 835, 873, 874, 1065, 1095, 1133, 1188, 1274-1276

8. Middle Mississippi Border Division

a. Glaciated Section: 14, 41, 80, 145, 146, 308, 363, 404, 504-507, 543, 624, 628, 629, 635-637, 686, 749, 832, 833, 878, 924, 1019, 1063, 1132, 1188, 1252, 1253, 1270

b. Driftless Section: 211, 428, 669, 854, 1039, 1270

9. Southern Till Plain Division

a. Effingham Plain Section: 40, 80, 138, 139, 168, 177, 277, 283, 284, 293, 413, 457-459, 464, 467, 520, 617, 618, 666, 674, 675, 730, 750, 765, 781, 825, 847, 849, 886, 890, 920, 950, 1019, 1076, 1090, 1091, 1095, 1169, 1177, 1215, 1252, 1254, 1255, 1258, 1259, 1267

b. Mt. Vernon Hill Country Section: 16, 18, 22, 28, 35, 36, 42, 47, 48, 52, 74, 75, 83, 112, 122, 138, 161, 162, 164, 166, 177, 182, 218, 270, 274-276, 290, 293, 297, 301, 302, 326, 352, 413, 472, 473, 523, 534, 617, 618, 622, 653, 690, 691, 697, 730, 750, 770, 778, 784, 841, 843, 886, 909, 950, 961, 996,

1087, 1095, 1115, 1127, 1131,
1142, 1147, 1148, 1151, 1159,
1179, 1180, 1252, 1255, 1267

10. Wabash Border Division

- a. Bottomlands Section: 55, 168, 169, 277, 617, 618, 692, 694, 780, 906, 945-949, 950, 996, 1107, 1127, 1255
- b. Southern Uplands Section: 168, 169, 284, 287, 467, 496, 499, 542, 570, 617, 618, 666, 692, 730, 780, 948, 949, 993, 996, 1090, 1091, 1226, 1255, 1267
- c. Vermilion River Section: 246-248, 285, 449, 550, 571, 617, 618, 621, 711, 738, 743, 990, 1064, 1192, 1264

11. Ozark Division

- a. Northern Section: 74, 75, 866, 1207, 1252, 1254
- b. Central Section: 74, 75, 324, 524, 866, 869, 1205, 1207, 1210
- c. Southern Section: 51, 60, 63, 67, 74, 75, 177, 188, 216, 252, 255, 301, 303, 306, 352, 412, 422, 423, 489, 503, 527, 609, 610, 638, 652, 681, 705-707, 751, 763, 800, 804, 807, 828, 862-864, 879, 881, 916, 921, 941, 955, 971, 982, 1005, 1020, 1195, 1207, 1208, 1210, 1216, 1272

12. Lower Mississippi River Bottomlands Division

- a. Northern Section: 80, 170, 233, 304, 543, 669, 679, 781, 869, 973, 997, 1107, 1116, 1252, 1254
- b. Southern Section: 51, 74, 75, 137, 216, 252, 303, 304, 305, 503, 527, 531, 534, 616, 642, 649, 715, 751, 763, 807, 817, 1016, 1073, 1107, 1111, 1118

13. Shawnee Hills Division

- a. Greater Shawnee Hills Section: 18, 26, 28, 33, 36, 60, 61, 63, 65, 74, 75, 77, 81, 82, 85-87, 89, 90, 159, 161, 164, 177, 195, 216, 243, 252, 259, 269, 297, 298, 301, 302, 307, 312, 319, 326, 352, 358, 414-417, 419, 424, 464, 487, 489, 497, 498, 522, 527, 546, 572, 591, 613-615, 628, 652, 666, 681, 708, 710, 777-779, 781, 782, 785, 798, 808, 811, 843, 852, 861, 864, 866, 930, 941, 962-965, 970, 975, 992, 1016, 1052, 1080, 1082, 1088, 1094, 1214, 1240, 1244, 1247, 1267, 1268, 1271-1273
- b. Lesser Shawnee Hills Section: 8-10, 24, 28, 33, 34, 36, 43, 44, 46, 57, 60, 61, 63, 74, 75, 77, 81, 82, 87, 150-152, 159, 161, 177, 191, 195, 216, 252, 297, 298, 326, 352, 358, 414-417, 419, 424, 464, 485, 527-529, 546, 613-615, 669, 681, 808,

845, 852, 864, 866, 869, 915,
930, 941, 962-965, 992, 1006,
1016, 1080, 1240, 1244, 1267,
1268, 1271-1273

14. Coastal Plain Division

- a. Cretaceous Hills Section: 74, 75, 159, 164, 195, 298, 443, 524, 545, 681, 802, 869, 1006, 1007, 1016, 1017, 1240, 1244
- b. Bottomlands Section: 27, 74, 75, 159, 195, 215, 265-268, 298, 304, 440, 500, 513, 531, 626, 659, 681, 715, 763, 772-774, 869, 889, 903, 954, 956, 1011, 1016, 1111, 1129, 1218, 1229, 1240, 1244

15. All Divisions

12, 13, 15, 23, 25, 29, 30, 53,
54, 56, 59, 62, 66, 70, 73, 84,
94, 95, 121, 130-133, 165, 167,
171-176, 184, 189, 201-204,
213, 217, 219, 229, 232, 237,
239-241, 249, 250, 253, 254,
256, 264, 294, 299, 300,
309-311, 315, 317, 318,
320-323, 327-329, 340, 346,
354, 359, 364, 370, 377, 384,
386, 395, 396-398, 406, 409,
411, 418, 421, 426, 429,
431-435, 442, 445, 448, 455,
463, 465, 466, 469, 482, 483,
491-494, 508, 509, 511, 512,
515, 548, 549, 551-564, 601,
602, 604-608, 611, 612, 619,
625, 627, 639, 640, 646, 647,
651, 654-656, 661-663, 665,
673, 676, 677, 680, 683, 684,
688, 689, 695, 696, 698, 709,
712, 713, 721, 724, 726, 729,
736, 745, 753, 761, 764, 771,
783, 786-797, 799, 801, 805,
816, 823, 824, 837, 844, 846,
848, 860, 867, 872, 875-877,
879, 887, 900, 912, 913, 917,
918, 922, 936, 940, 944, 953,
960, 974, 981, 984-986, 1000,
1002, 1008, 1015, 1021,
1025-1029, 1035, 1037,
1042-1044, 1058, 1059, 1062,
1067, 1077, 1081, 1089, 1105,
1106, 1110, 1117, 1128, 1136,
1153-1156, 1162, 1166-1168,
1170, 1172, 1178, 1182, 1189,
1193, 1202-1204, 1206, 1209,
1219-1225, 1230, 1234, 1235,
1237, 1241-1243, 1245, 1248,
1249, 1251, 1257

16. Four or more Divisions in the North Section of the State

92, 190, 235, 383, 1098-1101,
1256

17. Four or more Divisions in the Central Section of the State

78, 185, 190, 272, 288, 296,
453, 806, 905, 911, 1098-1101,
1152, 1239, 1277

18. Four or more Divisions in the South Section of the State

50, 163, 185, 261, 296, 349,

350, 353, 532, 533, 682, 760,
766-769, 803, 806, 905, 931,
968, 1049-1051, 1096, 1109,
1140, 1181, 1239

SUBJECT INDEX

- Agriculture:** 1920 763
1970 492, 493, 751, 1062
- Autecology:** 1800 146, 297, 947, 949
1900-1909 519
1910 373, 375, 732, 895, 1031, 1032, 1129, 1130
1920 229, 295, 456, 577, 610, 687, 736, 740, 741, 761, 764, 1080, 1081, 1110, 1134, 1198
1930 203, 204, 273, 277, 320, 809, 810, 1023, 1074, 1075, 1140
1940 248, 323, 698, 748, 1034
1950 35, 152, 181, 365, 531, 1020, 1155
1960 43, 48, 82, 95, 154, 261, 293, 301, 312, 366, 367-369, 412, 413, 415, 416, 418, 461, 462, 522, 525, 532, 624, 631, 632, 685, 820, 1068, 1126, 1159
1970 22, 23, 25, 27, 34, 45, 52, 65, 84-86, 90, 99, 104, 120, 137, 187, 215, 302, 356, 410, 417, 419, 450, 524, 579, 582, 614, 651, 652, 664, 666, 707, 715, 769, 770, 811, 828, 850, 852, 861, 862, 873, 874, 913, 920, 927-929, 944, 955, 987-989, 1019, 1041, 1073, 1096, 1113, 1114, 1117, 1247, 1271, 1272
1980 21, 56, 255, 552, 752, 800, 863, 875-877, 1037, 1204
- Classification:** 1800 491, 887
1910 78, 469, 482, 1043, 1162
1920 381, 760, 981, 1021
1930 321, 917, 1026, 1029
1940 568, 680, 1028
1950 327, 331, 639, 756, 825, 889, 1077
1960 299, 328, 555, 665, 808, 1270
1970 15, 41, 73, 304, 561, 638, 753, 790, 826, 1008, 1015, 1116, 1192, 1219, 1220, 1222
1980 66, 322, 479, 712, 814, 953, 971, 1071, 1181, 1221, 1223
- Climate:** 1800 180, 214, 354, 683, 1225
1900-1909 543
1910 376, 390, 436, 747, 1033, 1146
1920 433, 456, 687, 1119, 1121, 1122, 1211, 1249
1930 62, 917, 1128
1940 170, 393, 867
1950 150, 151, 159, 165, 365, 554
1960 43, 184, 194, 261, 303, 328, 366-368, 406, 856, 857, 824, 975, 1068, 1126, 1203, 1257
1970 8, 10, 49, 269, 302, 587, 642, 652, 770, 821, 862, 934, 935, 963, 964, 991, 994, 1035, 1041, 1145, 1229
1980 276, 648, 746, 1207
- Composition:** 1800 297, 411, 491, 771, 945, 946, 948, 1152
1900-1909 233, 235, 236, 424, 430, 483, 484, 731, 891, 892
- 1910 4, 78, 238, 292, 372, 373, 375-378, 391, 399-402, 427, 428, 469, 471, 482, 543, 734, 893-895, 897, 980, 995, 1031, 1032, 1146, 1160, 1163-1165, 1197
1920 241, 257, 258, 371, 374, 379, 380, 530, 535, 670, 735, 737, 738, 760, 763, 868, 898, 899, 981, 1045, 1060, 1078, 1082, 1103, 1104, 1108, 1119-1121, 1198-1200, 1236
1930 160, 168, 227, 277, 321, 382, 451, 717, 809, 810, 940, 1079, 1138, 1141, 1149, 1166, 1167, 1266
1940 123-125, 213, 220, 325, 439, 495, 734, 1143, 1175, 1224, 1240, 1265
1950 79, 171, 182, 207, 208, 231, 309, 310, 327, 332, 336, 472, 531, 538, 592, 594, 639, 766, 827, 858, 889, 915, 941, 982, 1020, 1077, 1173, 1174, 1179, 1244
1960 44, 51, 71, 80, 81, 83, 135, 144, 145, 155-158, 166, 221, 245, 271, 279, 287, 291, 293, 314, 405, 502, 521, 527-529, 533, 534, 621, 626, 636, 637, 657, 692, 694, 725, 754, 782, 784, 785, 808, 838, 864, 865, 916, 938, 966, 969, 979, 993, 1007, 1055, 1072, 1087, 1142, 1181
1970 1, 5, 8, 10, 14, 16, 17, 24, 26, 27, 31, 33, 46, 57, 68, 87, 96, 98, 100-103, 105, 107-109, 111, 115, 118, 126, 134, 136, 138, 141, 187, 195, 199, 200, 206, 216, 222, 242, 252, 267, 269, 275, 281, 283, 284, 289, 303-307, 317, 344, 348, 358, 359, 440, 442, 477, 487, 499, 503, 506, 524, 526, 536, 537, 541, 542, 546, 550, 570, 571, 583, 588, 593, 613, 622, 628, 638, 652, 661, 667, 668, 681, 686, 706, 758, 770, 812, 828, 844, 847, 849, 852, 870, 880, 881, 888, 901, 905, 906, 908, 920, 921, 926, 934, 935, 937, 955, 956, 958, 967, 991, 922, 994, 999, 1000, 1008, 1019, 1038, 1040, 1053, 1054, 1056, 1066, 1083, 1088, 1111, 1116, 1118, 1127, 1145, 1151, 1177, 1191, 1192, 1205, 1210, 1213-1215, 1222, 1247
1980 6, 20, 32, 66, 110, 121, 285, 479, 480, 572, 609, 627, 669, 708, 712, 800, 815, 840, 841, 848, 904, 971, 983, 1063, 1114, 1195, 1208
- Concept:** 1800 214, 491, 683, 1156
1900-1909 426
1910 237, 431, 1162
1920 239, 433-435, 1201
1930 320, 321, 846, 1105, 1128, 1149, 1167, 1168
1940 393, 867, 1028
1950 859
1960 406
1970 31, 87, 251, 458
1980 7, 877

- Decomposition:** 1960 857
1970 9, 115, 116, 119, 952
1980 902, 903
- Fire:** 1800 354, 1225
1900-1909 430
1910 432
1920 239
1930 1169
1960 460, 856, 857, 1131
1970 24, 26, 67, 499, 664, 851, 999, 1151
1980 20, 21, 815, 839
- Flooding:** 1800 91, 234, 945
1900-1909 233
1910 76, 372, 399, 1031, 1032
1920 244, 295, 883, 1103, 1107, 1135, 1136, 1199, 1200
1930 227, 382, 1137, 1141
1940 123, 124, 125, 701, 1265
1950 122, 531, 859, 910
1960 36, 83, 147, 245, 261, 270, 527, 532, 626, 659, 694, 807, 969
1970 27, 96-100, 104, 111-116, 118-120, 137, 195, 215, 265, 267, 283, 303-305, 361, 513, 541, 585, 667, 715, 772-776, 870, 911, 920, 936, 956, 957, 1047, 1073, 1177, 1213, 1229, 1247
1980 110, 189, 743, 802, 818, 902
- Flora:** 1800 12, 28, 64, 91-94, 175-180, 209, 296, 352, 453, 468, 514-517, 540, 547, 676, 677, 684, 730, 749, 879, 900, 923, 947, 996, 1042, 1065, 1085, 1153, 1154, 1194, 1233, 1245, 1252-1255
1900-1909 343, 421-425
1910 181, 210, 223-225, 377, 543, 823, 824, 894, 895, 980, 1102, 1130
1920 130, 217, 226, 250, 364, 379, 381, 403, 404, 433, 445, 463, 501, 589, 629, 721, 764, 869, 883, 898, 950, 1080, 1082, 1093, 1097, 1123
1930 58, 149, 160, 168, 169, 196, 227, 277, 321, 384, 394, 446, 447, 449, 451, 464-467, 485, 556, 679, 884, 940, 951, 972, 1090, 1139, 1196
1940 40, 74, 128, 164, 248, 262, 308, 316, 323, 330, 335, 341, 385-389, 395, 600-603, 932, 943, 1034, 1091, 1105, 1106, 1157, 1158
1950 75, 129, 161, 172-174, 181, 183, 207, 208, 228, 331, 333, 337-339, 362, 396, 489, 544, 549, 590, 604, 605, 607, 608, 630, 777-781, 806, 822, 825, 910, 1020, 1150, 1155
1960 36, 51, 77, 133, 221, 230, 260, 263, 270, 278, 291, 294, 312, 319, 334, 349, 350, 353, 369, 420, 486, 521, 528, 529, 569, 591, 606, 624, 657, 659, 685, 695, 710, 727, 728, 754, 782-785, 803, 804, 807, 808, 829, 838, 843, 864, 866, 871, 930, 1005-1007, 1016, 1017, 1039, 1049, 1050, 1052, 1055, 1092, 1098, 1125, 1239, 1241-1243, 1258-1263
1970 106, 107, 120, 143, 197, 206, 222, 243, 251, 264, 280, 282, 288, 306, 307, 318, 324, 346, 363, 478, 481, 496, 497, 500, 503-507, 545, 546, 573, 596-599, 614, 615, 628, 641, 658, 662, 663, 668, 709, 714, 723, 726, 742, 753, 786-793, 805, 813, 826, 830-833, 847, 853-855, 878, 907, 921, 931, 933, 934, 944, 973, 974, 987, 1008, 1010-1014, 1035, 1036, 1044, 1051, 1067, 1069, 1076, 1089, 1096, 1099, 1100, 1112, 1115, 1127, 1132, 1133, 1189-1191, 1210, 1212, 1218, 1226, 1231, 1232, 1269, 1272
1980 25, 32, 142, 498, 508, 512, 552, 660, 794-799, 801, 802, 816, 1009, 1037, 1070, 1094, 1182, 1216, 1273
- Geology:** 1800 28, 354, 411, 683, 978, 1022, 1237
1900-1909 59, 211, 343, 543
1920 13, 244, 433, 1120, 1248
1930 384, 452, 917, 1184, 1186, 1188
1940 163, 680
1950 161, 172, 616, 1061
1960 29, 133, 370, 525, 1203, 1235
1970 41, 50, 113, 249, 457, 458, 492, 493, 641, 645, 650, 750, 759, 1008, 1096, 1145, 1234
1980 572, 746
- Gradient:** 1910 372, 1165
1920 390, 670
1930 535
1950 327, 780, 941, 1020
1960 51, 245, 293
1970 5, 11, 17, 31, 46, 96, 97, 111, 112, 118, 195, 216, 305, 578, 613, 622, 652, 666, 817, 828, 872, 911, 954, 956, 957, 971
- Grazing:** 1950 1179
1980 848
- Habitat:** 1900-1909 483
1910 4, 76, 400, 471, 1024, 1160, 1162
1920 1018, 1064, 1211
1930 212, 213, 882, 885, 1149
1940 123, 124, 125, 439, 455, 523, 619, 701-703, 1143, 1264
1950 164, 207, 472, 1077, 1150
1960 555, 621, 937, 938, 969, 1142
1970 14, 33, 34, 53, 126, 134, 136, 140, 143, 205, 215, 303, 317, 324, 441, 442, 444, 474, 475, 490, 500, 503, 537, 545, 546, 551, 579, 582, 593, 819, 844, 873, 874, 881, 912, 968, 991, 999, 1000, 1056, 1057, 1111, 1113, 1215
1980 7, 274, 443, 512, 553, 713, 798, 837, 841, 845, 983, 1147
- History:** 1800 179, 886, 1085
1900-1909 918
1920 258, 763
1930 452, 1183
1960 29, 1270
1970 143, 251, 409, 655, 890, 1089, 1145, 1202, 1246
1980 648, 860
- Litter:** 1940 748
1960 29, 857
1970 8, 9, 115, 119, 267, 275, 581, 705, 706, 751, 881, 1048, 1056, 1066, 1230
1980 21, 188, 189, 276, 863, 902, 903
- Management:** 1800 185
1900-1909 625
1920 229, 1110
1930 917, 1029, 1209

	1940	123, 162, 523, 698, 700, 1027, 1101	1960	230, 313, 315, 557, 558, 569, 919	
	1950	151, 152, 159, 594, 639, 653, 699, 766, 767, 768, 1179	1970	143, 326, 340, 476, 478, 550, 551, 559-563, 635, 880, 922, 994, 998, 1004, 1015, 1084, 1176, 1193, 1219, 1220, 1222, 1231	
	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	
Model:	1980	272, 276, 511, 512, 575, 909	Production:	1800	185, 945, 947, 949, 1253, 1254
	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:			Succession:	1800	234, 235, 491, 1156, 1225, 1237
	1800	146, 297, 411, 683, 771, 1022, 1237, 1255		1900-1909	236, 426, 427, 484, 543
	1900-1909	343, 427, 484		1910	237, 378, 391, 401, 402, 428, 431, 488, 732, 897, 1024, 1146, 1164, 1165
	1910	78, 378, 391, 401, 402, 428, 431, 488, 732, 897, 1078, 1161, 1165		1920	244, 246, 247, 381, 433, 435, 445, 981, 1018, 1064, 1103, 1104, 1248
	1920	239, 246, 247, 258, 380, 392, 456, 670-672, 763, 868, 989, 1045, 1064, 1080-1082, 1119, 1121, 1136, 1199, 1201, 1250		1930	190, 273, 382, 535, 882, 1137, 1138, 1149, 1166
	1930	62, 227, 273, 565, 809, 810, 846, 917, 1023, 1079, 1166		1940	162, 213, 702, 703, 1141, 1240, 1264
	1940	567, 688, 702, 748, 990, 1058, 1240		1950	231, 523, 531, 592, 653, 757, 858, 859, 889, 915, 1030, 1244
	1950	79, 122, 150, 161, 167, 182, 192, 309, 310, 327, 332, 336, 538, 689, 858, 859, 1059, 1124, 1244		1960	81-83, 135, 156, 166, 406, 416, 533, 534, 865, 866, 938, 939, 969, 1055, 1087, 1131
	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		1970	1, 2, 3, 5, 17, 31, 36, 51, 53, 65, 84-87, 89, 100, 111, 140, 195, 197-200, 274, 290, 304, 305, 408, 437, 438, 442, 474, 475, 492, 493, 526, 536, 622, 655, 758, 765, 861, 872, 874, 901, 911-913, 926-929, 937, 992, 1038, 1056, 1057, 1062, 1083, 1111, 1127, 1192, 1213, 1227, 1228, 1268
	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,		1980	56, 690, 691, 839, 875-877, 1114, 1208

ACKNOWLEDGEMENTS

This bibliography would not have been possible without the assistance of many people, especially Wilma Dillman, Monica Lusk, Carla Heister, and Phyllis Risser. Others at the Illinois Natural History Survey and throughout the state provided references and assisted in various ways: A. Adams, R. Anderson, C. Ashby, W. Boggess, J. Bouseman, M. Bowles, S. Brown, J. Ebinger, G. Fell, J. Fralish, J. Graber, R. Graber, R.

Henry, L. Iverson, J. Ives, F. King, J. King, W. Klimstra, R.W. Larimore, W. McClain, S. McClellan, R. Mohlenbrock, R. Moran, L. O'Flaherty, K. Robertson, G. Rolfe, G. Sanderson, J. Schwegman, A. Scott, P. Sorensen, E. Steger, G. Ware, J. Warnock, G. Weaver, M. Wetzel, J. White, and R. Zewadski. The author gratefully acknowledges the help provided by these individuals.



