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RARE AND UNUSUAL PLANTS FROM SOUTH-
EASTERN IOWA

CHARLES GILLY AND MALCOLM McDONALD

In 1922 Professor Charles Carter, of Parsons College, and the late Dr. L. H. Pammel, of Ames, began a botanical survey of south-eastern Iowa. During the years following, collections were made and the specimens sent to the herbarium of Iowa State College, where the headquarters of the survey had been established. After Dr. Pammel's death in 1931 the project was abandoned; but in April, 1933 Professor Carter revived it and the authors began the collection of specimens for a Parsons College Herbarium. In the past three years they have collected and identified about 800 species of plants. The greatest portion of these collections are from Jefferson and Van Buren Counties, but some have been collected in Des Moines, Henry, Lee and Wapello Counties.

Below is presented a list of 118 species, rare or unusual in the southeastern part of the state. In this list there are eighteen species and seven varieties which we believe to be new to the flora of Iowa. These are indicated by asterisks. The nomenclature is that of the 7th Edition of Gray's "Manual", with the exception of the grasses and they are named according to Hitchcock's "Manual of the Grasses of the United States". All specimens not otherwise marked are from Jefferson County, and the initial letter of the collector and the number by which the specimen is designated in the Parsons College Herbarium are given in parentheses after each citation.

1. *Pteris aquilina* L. Moist, rocky woods, Sec. 32, Cedar Twp., July 27, 1935 (M 2651).
2. *Asplenium platyneuron* (L.) Oakes. Deep, moist ravine, Sec. 35, Round Prairie Twp., October 5, 1935 (M 3054).
3. *Potamogeton dimorphus* Raf. Common in the north one of three ponds in a prairie-marsh known locally as "Fulton's Bottoms", Sec. 33, Center Twp., July 21, 1933 (G-M 947), and Aug. 17, 1935 (G 2782); also found but not collected in a Skunk River bayou, Sec. 12, Lockridge Twp., August 12, 1935.
4. *Sagittaria heterophylla* Pursh. North pond, Fulton's Bottoms, May 27, 1933 (G-M 360), June 21, 1933 (G-M 632), and March 31, 1935 (G 2460); in shallow bayou of Skunk River, Sec. 12, Lockridge Twp., September 21, 1935 (No specimens collected).

5. *Lophocarpus calycinus* (Engelm.) J. G. Sm. Abundant in shallow water and along edge of City Reservoir No. 1, Northeast of the Fairfield city limits, July 12, 1933 (G-M 890).
6. *Elodea canadensis* Michx. Abundant in shallow Skunk River bayou, Sec. 12, Lockridge Twp., September 21, 1935 (M 3122).
7. *Glyceria septentrionalis* Hitchc. Ditch along road in Skunk River bottom, Sec. 36, Walnut Twp., August 12, 1935 (M 2755).
8. *Eragrostis capillaris* (L.) Nees. Sandy roadside, Sec. 12, Lockridge Twp., September 21, 1935 (M 2944); same habitat, Sec. 30, Des Moines Twp., September 28, 1935 (M 2991).
9. *Melica nutica* Walt. Along small creek above Ely's Ford, Lacey-Keosauqua State Park, Van Buren Co., June 9, 1934 (G-M 1873).
10. *Agropyron subsecundum* (Link) Hitchc. Ballast, C. B. & Q. R. R., Sec. 25, Center Twp., June 25, 1933 (G 671).
11. *Elymus virginicus* L., var. *glabriflorus* (Vasey) Bush. Woodland in bottomland between Cedar Creek and Fulton's Bottoms, Sec. 33, Center Twp., June 21, 1933 (G-M 624).
12. *E. virginicus* L., var. *intermedius* (Vasey) Bush. Open bottomland along Cedar Creek, Sec. 15, Liberty Twp., July 21, 1933 (G-M 969). Glumes and lemmas very hairy.
13. *Lolium perenne* L. Lawn at 301 Highland Ave., Fairfield, August 3, 1935 (G 2669); lawn at 703 N. 4th St., Fairfield, September 2, 1935 (M 2870).
14. *L. multiflorum* Lam. Abundant along N. 2nd St., 1 block south of Parsons College campus, June 29, 1935 (G 2607).
15. *Alopecurus carolinianus* Walt. What has formerly been called *A. geniculatus* L., in the middle west, must now be called by this name, according to Hitchcock. Shallow pool near Cedar Creek, Sec. 18, Locust Grove Twp., May 21, 1933 (G-M 317); dry ballast, C. B. & Q. R. R. near 2nd St., Fairfield, June 1, 1933 (G-M 426); City Reservoir No. 1, Fairfield, May 17, 1935 (G 2484).
16. *Sporobolus clandestinus* (Spreng.) Hitchc. Sand ridge, Sec. 18, T72N, R7W, Henry Co., September 21, 1935 (M 2963); same habitat, Sec. 12, Lockridge Twp., October 4, 1935 (M 3027).
17. *Stipa spartea* Trin. Roadside prairie, Sec. 35, Black Hawk Twp., July 3, 1935 (M 2615).
18. *Aristida basiramea* Engelm. Sand ridge, Sec. 18, T72N, R7W, Henry Co., September 21, 1935 (M 2967); same habitat, Sec. 12, Lockridge Twp., September 21, 1935 (No specimen collected).
19. *Eleusine indica* (L.) Gaertn. Street parking, N. 4th Street, Fairfield, July 26, 1935 (M 2638).
20. *Phalaris canariensis* L. Along N. 2nd St., Fairfield, 1 block south of Parsons College, August 6, 1935 (G 2700).
21. *Paspalum pubescens* Muhl. Sandy pasture, Sec. 12, Lockridge Twp., and Sec. 18, T72N, R7W, Henry Co., September 21, 1935 (M 2945 and 2966).
22. *Panicum implicatum* Scribn. Moist woodland meadow, Sec. 33, Center Twp., June 21, 1933 (G-M 648).
23. *P. temesseucense* Ashe. Grassy bank along west side of Evergreen Cemetery, Fairfield, July 23, 1933 (G-M 995).

24. *Echinochloa crusgalli* (L.) Beauv., var. *frumentacea* (Roxb.) Wight. Edge of No. 2 City Reservoir, Fairfield, September 3, 1933 (M 1205).
25. *Setaria geniculata* (Lam.) Beauv. Roadside along west side of Evergreen Cemetery, Fairfield, July 23, 1933 (G-M 1395); roadside, Sec. 7, Center Twp., July 18, 1934 (G-M 2089); and in ballast along C. B. & Q. R. R., Sec. 25, Center Twp., August 8, 1935 (G 2735). Common, but easily overlooked; probably also in other counties.
- *26. *Cyperus erythrorhizos* Muhl., var. *pumilus* Engelm. Mud bank of No. 1 City Reservoir, September 3, 1933 (M 1208).
- *27. *C. engelmanni* Steud. Section 6, Center Twp., September 20, 1935 (M 2936).
- *28. *C. strigosus* L., var. *capitatus* Boeckl. Mudflat along Skunk River bayout, Sec. 24, Walnut Twp., September 9, 1933 (M 1225).
- *29. *C. strigosus* L., var. *robustior* Kunth. Swampy bottomland, Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2838); Sec. 25, Center Twp., September 15, 1935 (G 2928).
- *30. *C. strigosus* L., var. *campositus* Britton. Small pond south of Lacey-Keosauqua State Park, August 31, 1933 (M 1186); roadside west of Boyscout Swimming Pool, Fairfield, September 7, 1935 (G 2873). Many other places in both counties.
- *31. *C. refractus* Engelm. Dry slope, Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2837).
- *32. *C. filiculmis* Vahl., var. *macilentus* Fernald. Open sand ridge, Sec. 18, T 72N, R 7W, Henry Co., September 21, 1935 (M 2970); same habitat, Sec. 12, Lockridge Twp., October 4, 1935 (No specimen collected.)
- *33. *Eleocharis olivacea* Torr. Along No. 1 City Reservoir, September 3, 1933 (M 1206).
- *34. *Scirpus subterminalis* Torr. Ditch along old C. B. & Q. right-of-way, Sec. 26, Center Twp., June 27, 1933 (G-M 700).
- *35. *Carex crinita* Lam. East side No. 1 City Reservoir, May 18, 1933 (G-278); along Cedar Creek, Sec. 19, Cedar Twp., May 30, 1934 (G-M 1821).
- *36. *C. lurida* Wahlb. Roadside swamp, Sec. 1, Lockridge Twp., August 12, 1935 (M 2752).
37. *C. riparia* W. Curtis. Wet marshland in Fulton's Bottoms, May 27, 1933 (G-M 396).
38. *Acorus calamus* L. Wet slough, Sec. 27, Locust Grove Twp., May 21, 1933 (G-M 330); moist meadow near Skunk River, Sec. 1, Lockridge Twp., August 12, 1935 (No specimen collected).
39. *Lemna perpusilla* Torr. North Pond in Fulton's Bottoms, August 17, 1935 (G 2781).
40. *Wolffia punctata* Griseb. Along the Mississippi River in Lee Co., November 24, 1934 (M 2444).
41. *Pontederia cordata* L. In one of three ponds in Fulton's Bottoms, July 4, 1933 (G-M 1402); August 23, 1934 (G-M 2317).
42. *Heteranthera reniformis* R. & P. Observed in bloom in No. 1 City Reservoir, north of power house, August 30, 1931, by McD. and J. W. Dole. No specimens collected.
- *43. *Juncus interior* Wiegand. Open pasture near No. 1 City Reservoir, Sec. 24, Center Twp., June 8, 1935 (M 2566).

44. *J. canadensis* J. Gay. Sec. 1, Lockridge Twp., August 12, 1935 (M 2748).
45. *Epipactis pubescens* (Willd.) A. A. Eaton. Rocky bluff above Rock Creek, Sec. 8, Van Buren Twp., Van Buren Co., October 28, 1933 (G-M 1367).
46. *Populus grandidentata* Michx. Limestone bluff, near Cedar Creek, Sec. 32, Round Prairie Twp., August 12, 1935 (M 2756).
47. *Carya microcarpa* Nutt. Collected in October, 1935, near Bentonsport, Van Buren Co., by the late Mr. E. W. Graves (3080).
48. *Quercus coccinea* Muench.¹ Collected in October, 1935, near Bentonsport, Van Buren Co., by the late Mr. E. W. Graves (3119).
49. *Q. ellipsoidalis* E. J. Hill. Sec. 26, Walnut Twp., August 12, 1935 (M 2758); and Sec. 18, T 72N, R 7W, Henry Co., September 21, 1935 (M 2962).
50. *Q. marilandica* Muench. Dry rocky hillside, Sec. 35, Round Prairie Twp., October 5, 1935 (M 3057).
- *51. *Q. heterophylla* Michx. f. Sand ridge, Sec. 12, Lockridge Twp., October 4, 1935 (M 3034).
- *52. *Urtica dioica* L. A large clump of the staminate plants on ballast of the C. B. & Q. R. east of Fairfield. June 18, 1934 (G 1937).
53. *Polygonum dumetorum* L. Rough hillside, Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2866); roadside, Sec. 6, Center Twp., September 20, 1935 (M 2943).
54. *Chenopodium murale* L. Barn lot, Sec. 25, Center Twp., August 14, 1934 (G 2153).
55. *C. leptophyllum* L. Abundant on ballast in C. B. & Q. R. R. switchyards, Fairfield, July 16, 1933 (G-M 904).
56. *C. boscianum* Moq. Dry soil, Sec. 24, Walnut Twp., August 2, 1934 (G-M 2118) and Sec. 28, Liberty Twp., September 22, 1935 (G 2985).
57. *Anychia canadensis* (L.) BSP. Sec. 32, Round Prairie Twp., August 7, 1935 (M 2718); Sec. 30, Des Moines Twp., September 28, 1935 (M 2993); also observed but not collected in Lacey-Keosauqua State Park in 1933.
58. *Stellaria graminea* L. Grassy lawn, Prof. Carter's, N. 4th St., Fairfield, June 27, 1935 (G 2596).
59. *Ranunculus sceleratus* L. Riverbank and sand bars in Des Moines River, Lacey-Keosauqua State Park, June 15, 1933 (G-M 583); mud bank in Green Bay Bottoms, Sec. 22, T 68N, R 3W, Lee Co., May 11, 1934 (G-M 1762).
60. *Asimina triloba* Dunal. Reported by the Charles Campbell family of Mt. Zion, as occurring along the Des Moines River, Secs. 28 and 34, T 69N, R 9W, Van Buren Co., as yet we have obtained no specimens.
61. *Lesquerella gracilis* (Hack.) Wats. C. B. & Q. switchyards, in ballast, July 11, 1933 (G-M 827).
62. *Lepidium campestre* (L.) R. Br. Along U. S. Highway 34, Sec. 29, Center Twp., May 21, 1933 (G-M 287); roadside Sec. 30, Buchanan Twp., June 7, 1934 (G 1847); Sec. 35, Center Twp., ballast of C. R. I. & P. R. R., May 26, 1935 (G 2531).

¹ Since this paper was written, further work on this specimen seems to indicate that it can be referred to the following species — *Q. ellipsoidalis* E. J. Hill.

63. *Brassica Napus* L. Parsons College campus, June 8 and 29, 1935 (G 2557 and 2608).
64. *Cowringia orientalis* (L.) Dumort. Ballast C. B. & Q. R. R., Sec. 30, Buchanan Twp., June 4, 1933 (G-M 510); Ballast on C. R. I. & P. R. R., Secs. 2 and 3, Liberty Twp., May 26, 1935 (G 2532 and 2533).
65. *Erysimum parviflorum* Nutt. On ballast of C. B. & Q. R. R., Sec. 30, Buchanan Twp., May 7, 1933 (G-M 245); Lacey-Keosauqua State Park, June 9, 1934 (G-M 1875).
66. *Arabis drummondii* Gray. River Bluff, Lacey-Keosauqua State Park, Van Buren Co., June 9, 1934 (G-M 1876).
67. *Aruncus sylvester* Kosteletzky. Wooded bluff in Flint Hills State Park, Des Moines Co., August 25, 1935 (G 2810).
68. *Crataegus lamuginosa* Sarg. A specimen with leaves and fruit. Sec. 15, Buchanan Twp., Sept. 9, 1933 (M 1221).
69. *C. chapmani* (Beadle) Ashe, var. *plukenetii* Egglestone. Sec. 23, Liberty Twp., June 8, 1933, specimen in flower (M 539); Secs. 34 and 35, Round Prairie Twp., October 5, 1935 (M 3046 and 3058), specimens with fruit.
70. *Fragaria virginiana* Duchesne, var. *illinoensis* (Prince) Gray. Ballast along C. R. I. & P. R. R., Sec. 3, Liberty Twp., June 1, 1933 (G-M 431) and Sec. 35, Center Twp., May 26, 1935 (G 2511).
71. *Cassia medsgeri* Shafer. What has generally been regarded as *C. marilandica* L., seems to be, in Jefferson Co., at least, of this species. The petiolar gland is conic-ovoid instead of club-shaped and the segments of the seed pods are much shorter than wide. Seeds of previous year were collected near Pattison's Pond, Sec. 20, Cedar Twp., May 5, 1934 (G-M 1674) and blooming specimens from the same location July 20, 1934 (M 2094); also from edge of a bayou in Sec. 24, Walnut Twp., August 12, 1935 (M 2763).
72. *Trifolium arvense* L. Dry upland near edge of golf course at Flint Hills State Park, Des Moines Co., August 25, 1935 (G 2809).
73. *T. reflexum* L. Woodland ravine behind golf course at Lacey-Keosauqua State Park, Van Buren Co., June 16, 1933 (G-M 596) and from the same location again on June 6, 1934 (G-M 1846).
- *74. *Melilotus indica* (L.) All. Ballast in C. B. & Q. R. R. switchyards, Fairfield, July 11, 1933 (G-M 811); same habitat along same railroad, Sec. 25, Center Twp., August 8, 1935 (G 3123).
- *75. *Strophostyles pauciflora* (Benth.) Wats. Ballast along C. B. & Q. R. R., Sec. 25, Center Twp., September 13, 1935 (M 2894).
- *76. *Linum medium* (Planch.) Britton. Prairie along C. R. I. & P. R. R., Sec. 23, Center Twp., July 12, 1933 (G-M 852); ballast on old C. B. & Q. R. R. right-of-way, September 15, 1935 (G 2909).
77. *Tribulus terrestris* L. Rather abundant in the C. B. & Q. switchyards west of 4th St., Fairfield. Collections made on Sept. 17, 1933 (G-M 1244), and July 8, 1934 (G 2052); ballast along C. R. I. & P. R. R., Sec. 35, Center Twp., July 7, 1934 (M 2031).
78. *Croton monanthogynous* Michx. Woodland, Sec. 12, T 69N, R 10W, Van Buren Co., August 30, 1933 (M 1149).
- *79. *Euphorbia dictyosperma* Fisch & Mey. Ballast, C. R. I. & P. R. R., Sec. 2, Liberty Twp., June 1, 1933 (G-M 460); along roadside near Cedar Creek, Sec. 3, Liberty Twp., May 26, 1935 (G 3124).

80. *Callitriche heterophylla* Pursh. Observed in several ponds along Cedar Creek & Crow Creek every April and May, also abundant in Fulton's Bottoms. No specimen collected as yet.
81. *Rhus copallina* L. Brushy upland in Lacey-Keosauqua State Park, May 6, 1934 (G-M 1746).
- *82. *Aesculus octandra* Marsh. Fruit of this collected after leaves had fallen, and some of it eaten. Sec. 34, Round Prairie Twp., October 5, 1935 (M 3125).
83. *Psedera vitacea* (Knerr.) Greene. Chautauqua Park, Sec. 30, Buchanan Twp., July 29, 1933 (G 1076); Sec. 25, Center Twp., June 8, 1935 (M 2562).
84. *Callirhoe involucrata* (T. & G.) Gray. Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2865).
- *85. *Elatine triandra* Schkuhr. Rocky bed of Cedar Creek, Sec. 34, Round Prairie Twp., October 5, 1935 (M 3049).
86. *Helianthemum canadense* (L.) Michx. C. B. & Q. R. R., Sec. 28, Buchanan Twp., July 26, 1933 (G-M 1029).
87. *H. majus* BSP. Sec. 22, T 69N, R 10W, Van Buren Co., August 31, 1933 (M 1188); Sec. 15, Cedar Twp., August 7, 1935 (M 2711); Sec. 33, Lockridge Twp., Sept. 21, 1935 (M 2950).
88. *Lechea villosa* Ell. Dry hilltop, Sec. 35, Round Prairie Twp., October 5, 1935 (M 3059).
89. *L. tenuifolia* Michx. Sec. 19, Cedar Twp., July 25, 1933 and September 10, 1933 (M 1021 and 1236); Sec. 18, T 72N, R 7W, Henry Co., September 21, 1935 (M 2968); Sec. 35, Round Prairie Twp., October 5, 1935 (M 3060).
- *90. *Viola fimbriatula* Sm. Dry open hillside, west side of City Reservoir No. 2, Sec. 19, Buchanan Twp., May 6, 1933 (G-M 241).
91. *Oenothera laciniata* Hill. A dwarfed, single-flowered specimen on ballast, C. B. & Q. R. R. switchyards, July 11, 1933 (G-M 819); Pasture, Sec. 25, Center Twp., August 11, 1935 (G 2739).
92. *Cuphea petiolata* (L.) Koehne. Dry marsh, Sec. 29, Liberty Twp., September 22, 1935 (G 2984).
93. *Myriophyllum scabratum* Michx. South pond in Fulton's Bottoms, May 27, 1933 and July 4, 1933 (G-M 365 and 746).
94. *Thaspium aureum* Nutt. Dry pasture, Sec. 23, Center Twp., Oct. 13, 1933 (M 1287).
95. *Lysimachia terrestris* (L.) BSP. Open marsh around east end of north pond in Fulton's Bottoms, June 27, 1935 (M 2600).
96. *Fraxinus quadrangulata* Michx. Samaras and twigs collected along Mississippi River near Montrose, Lee Co., November 24, 1934 (M 2445). Leaves had fallen.
97. *Asclepias sullivantii* Engelm. West side of No. 1 City Reservoir, Fairfield, July 12, 1933 and July 30, 1933 (G-M 879 and G 1087) Fairly common, but usually overlooked.
98. *A. speciosa* Torr. Along State Highway No. 1, Sec 1, T 71N, R 10W, Jefferson Co., July 7, 1933 (G-M 795).
99. *Ipomoea pandurata* (L.) G. F. W. Mey. Roadside and along railroad, Sec. 17, T 69N, R 9W, Van Buren Co., July 6, 1933 (G-M 778); same location, June 29, 1934 (G-M 1995).

- *100. *Convolvulus sepium* L., var. *fraterniflorus* Mackenzie & Bush. Fulton's Bottoms, June 7, 1934 (G 1856).
101. *Cuscuta indecora* Chois. Garden at 502 W. Broadway, Fairfield, August 7, 1935 (Delzell Green 2710).
102. *Lithospermum Gmelini* (Michx.) Hitchc. Dry soil along C. R. I. & P. R. R., Sec. 23, Center Twp., June 9, 1935 (William Phipps 2586).
103. *Pycnanthemum Torrei* Benth. Sec. 19, Cedar Twp., September 10, 1933 (M 1237).
104. *Linaria minor* (L.) Desf. C. B. & Q. branch line, Sec. 5, Penn Twp., June 30, 1933 (G-M 727); C. B. & Q. switchyards, Fairfield, July 11, 1933 and July 8, 1934 (G-M 821 and G 2051).
105. *Gerardia parvifolia* Chapm. Top of moist bluff, Sec. 35, Round Prairie Twp., October 5, 1935 (M 3044).
- *106. *Ruellia strepens* L., var. *cleistantha* Gray. Sec. 20, Cedar Twp., July 25, 1933 (M 1019); Sec. 4, Liberty Twp., July 7, 1934 (M 2033).
107. *Plantago virginica* L. Lacey-Keosauqua State Park, near Ely's Ford, May 22, 1933 (G-M 341); C. R. I. & P. R. R. near Crow Creek bridge, Sec. 23, Center Twp., June 3, 1933 (G-M 486).
- *108. *P. arcnaria* W. & K. This interesting, branched plantain present as a waif in the C. B. & Q. switchyards, Fairfield, during the summer of 1933. Has not been found since. Specimens taken July 16, 1933 (G-M 900).
- *109. *Vernonia illinoensis* Gleason. Old right of way behind Chautauqua Park, Sec. 30, Buchanan Twp., July 26, 1933 (G 1599); Sec. 23, Center Twp., August 15, 1935 (M 2776); Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2868).
110. *V. missurica* Raf. Sec. 8, Van Buren Twp., Van Buren Co., September 1, 1935 (G 2867).
111. *Grindelia lanceolata* Nutt. A large patch found growing on the old right-of-way, Sec. 30, Buchanan Twp., no specimens collected.
112. *Aplopappus spinulosus* (Pursh.) DC. Dry creek bank, Sec. 30, Des Moines Twp., Sept. 28, 1935 (M 2998).
113. *Iva ciliata* Willd. Crow Creek bottom, behind Parsons College campus, Fairfield, September 3, 1933 (M 1203); same location, September 7, 1935 (G 2891).
114. *I. xanthifolia* Nutt. Has been persistent in a garden on West Carpenter St., Fairfield for a number of years. No specimens collected.
115. *Eclipta alba* (L.) Hassk. Mud bank along Des Moines River, Sec. 8, T 71N, R 12W, Wapello County, Sept. 5, 1933 (M 1216); mud bottom of Cedar Creek, Sec. 4, Liberty Twp., July 7, 1934 (M 2032).
116. *Lepachys columnaris* (Sims.) T. & G. Ballast in the C. R. I. & P. switchyards, just north of switch tower, July 11, 1933, (G-M 823).
117. *Galinsoga parviflora* Cav., var., *hispida* DC. Apparently introduced in grass seed in lawn, 107 W. Washington St., Fairfield, May 31, 1933 (G 403).
118. *Crepis tectorum* L. East side of No. 1 City Reservoir, Sec. 24, Center Twp., July 15, 1934 (G 2080).

DEPARTMENT OF BIOLOGY,
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