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Revised and Annotated Catalogue of the Grasses of Arkansas

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REVISED AND ANNOTATED CATALOGUE OF THE
GRASSES OF ARKANSAS

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In 1941 the writer published in the Proceedings of the Arkansas Academy of Science, Vol. I, A Check List of the Grasses of Arkansas(3), according to the records at that time. Since then, considerable study has increased our knowledge (4,5,6) of this large and important group of plants to such an extent that it seems desirable to bring this material together into a convenient and usable form.

The following catalogue represents the efforts of many workers in addition to that of the writer. Acknowledgment is extended to Dr. Etlar L. Nielsen, Dr. Delzie Demaree, Mr. E. J. Palmer, and others, including several men in the Soil Conservation Service, particularly Hurlon C. Ray and Marvin Lawson. Dr. J. R. Swallen and Mrs. Agnes Chase, of the National Herbarium, have confirmed identifications and furnished data not otherwise available. To all of these and many others, thanks are hereby extended.

The nomenclature and the order of presentation follow the Manual of the Grasses of the United States, by A. S. Hitchcock, as revised by Mrs. Agnes Chase in 1951(2). Collections are indicated generally by counties. Many species may occur in counties not enumerated.

SUBFAMILY 1. FESTUCOIDEAE.

Tribe 1. Bambuseae.

1. Arundinaria gigantea (Walt.) Muhl. Giant Cane. General. (Includes previous reports as A. macrosperma Michx. and A. tecta (Walt.) Muhl.)

Tribe 2. Festuceae.

Bromus. Brome grass.

2. B. catharticus Vahl. Rescue Grass. Introduced and widely escaped.
3. B. purgans L. Canada Brome. Moist woods and rocky slopes.
4. B. nottowayanus Fernald. Faulkner.
5. B. secalinus L. Chess, Cheat. Common weed.
6. B. commutatus Schrad. Hairy Chess. Common weed.
7. B. mollis L. Soft Chess. Pulaski.

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8. B. racemosus L. Pulaski.
9. B. japonicus Thunb. Japanese Chess. Common.
10. B. rigidus Roth. Ripgut grass. Southeastern Conway County, east of Menifee.
11. B. sterilis L. Barren Bromegrass. Benton, Carroll, and Washington.
12. B. tectorum L. Downy Chess. Common weed.

Festuca L. Fescue

13. F. octoflora Walt. Six-weeks Fescue. General.
14. F. octoflora var. glauca (Nutt.) Fernald.
15. F. sciurea Nutt.
16. F. megalura Nutt. Foxtail Fescue. Hot Spring.
17. F. dertonensis (All.) Aschers. & Graebn. Pope, Van Buren, and Washington.
18. F. myuros L. Marion.
19. F. elatior L. Meadow Fescue. Washington.
20. F. arundinacea Schreb. Reed Fescue. Persisting after cultivation.
21. F. versuta Beal. Benton and Faulkner.
22. F. obtusa Bieler. Nodding Fescue. Ozark area.
23. F. paradoxa Desv. (F. shortii Kunth.) Benton, Garland, Greene, and Poinsett.
24. F. rubra L. Red Fescue. Persisting after cultivation.

Glyceria R. Br. Mannagrass

25. Glyceria arkansana Fernald. Conway, Garland, Jefferson, and Pulaski.
26. G. septentrionalis Hitchc. Eastern Mannagrass. Arkansas and Prairie.
27. G. fluitans (L.) R. Br. Mannagrass. Washington.
28. G. striata (Lam.) Hitch. Fowl Mannagrass. Northwestern half of state.

Poa L. Bluegrass

29. Poa chapmaniana Scribn. Ozark Mountain area.
30. P. annua L. Annual Bluegrass. Common weed in lawns and fields.
31. P. compressa L. Canada Bluegrass. Widely scattered.
32. P. arachnifera Torr. Texas Bluegrass. Craighead and Washington.
33. P. pratensis L. Kentucky Bluegrass. Common, especially in calcareous soils. Commonly used for lawns.
34. P. sylvestris A. Gray. Rich, moist or rocky woods.
35. P. bulbosa L. Bulbous Bluegrass. Introduced as a lawn-grass.

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36. P. autumnalis Muhl. ex Ell. Central Arkansas.
Briza L. Quaking Grass
37. Briza minor L. Little Quaking grass. Southern Arkansas.
Eragrostis Beauv. Lovegrass
38. Eragrostis curtipedicellata Buckl.
39. E. oxylepis (Torr.) Torr. Red Lovegrass.
40. E. beyrichii J. G. Smith. Ouachita.
41. E. glomerata (Walt.) L. H. Dewey. Southern Arkansas.
42. E. reptans (Michx.) Nees. Edge of ponds and streams.
43. E. hypnoides (Lam.) B. S. P. Wet ground.
44. E. capillaris (L.) Nees. Lacegrass. Dry open ground.
45. E. frankii C. A. Meyer. Sandbars, moist ground.
46. E. pilosa (L.) Beauv. India Lovegrass. Moist soil.
47. E. pectinacea (Michx.) Nees. Fields and waste places.
48. E. cilianensis (All.) Lutati. Stinkgrass. Common weed.
49. E. poaeoides Beauv. ex Roem. and Schult.
50. E. arida Hitchc. Dry soil. Madison, Montgomery, and Pulaski.
51. E. hirsuta (Michx.) Nees. Ozark and Ouachita Mountain areas.
52. E. intermedia Hitchc. Plains Lovegrass. Scattered.
53. E. trichodes (Nutt.) Wood. Logan and Pulaski.
54. E. spectabilis (Pursh) Steud. Purple Lovegrass. General.
55. E. refracta (Muhl.) Scribn. Ashley, Garland, and Nevada.
56. E. curvula (Schrad.) Nees. Weeping Lovegrass. Introduced. Pope.
- Diarrhena Beauv.
57. Diarrhena americana Beauv. Carroll and Newton.
- Distichlis Raf. Saltgrass
58. Distichlis spicata (L.) Greene. (One specimen in the National Herbarium, by Chickering from "Ark" without location.)
- Uniola L.
59. Uniola latifolia Michx. Broadleaf Uniola. Rich woods, along streams.
60. U. sessiliflora Poir. Open woods, south Arkansas.
61. U. laxa (L.) B. S. P. Common in low wet woods, southern Arkansas.
- Dactylis L. Orchard Grass
62. Dactylis glomerata L. Orchard grass. Scattered. Escaped.

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Cynosurus L. Dogtail

63. Cynosurus echinatus L. Fulton, Hempstead and Washington. Introduced.

Arundo L.

64. Arundo donax L. Giant Reed. Planted and escaped.

Melica L. Melicgrass

65. Melica mutica Walt. Two-flower Melic. Rocky woods.
 66. M. nitens (Scribn.) Nutt. Three-flower Melic. Rocky woods.

Tridens Roem. and Schult.

67. Tridens elongatus (Buckl.) Nash. Rough Tridens. Carroll.
 68. T. chapmani (Small) Chase. Drew. (Considered as a variety of T. flavus by Shinners(7))
 69. T. flavus (L.) Hitchc. Purpletop. Common throughout the state.
 70. T. strictus (Nutt.) Nash. Narrow Tridens. General.

Triplasis Beauv.

71. Triplasis purpurea (Walt.) Chapm. Purple Sandgrass. Ouachita.

Tribe 3. Hordeae.

Agropyron Gaertn. Wheatgrass

72. Agropyron repens (L.) Beauv. Quackgrass. North Arkansas.
 73. A. smithii Rydb. Western Wheatgrass. Escaped. North Arkansas.

Triticum L. Wheat

74. Triticum aestivum L. Wheat. Escaped.

Aegilops L. Goatgrass

75. Aegilops cylindrica Host. Jointed Goatgrass. Washington. Introduced.

Secale L. Rye

76. Secale cereale L. Rye. Escaped.

Elymus L. Wild-Rye

77. Elymus canadensis L. Canada Wild-Rye. North Arkansas.
 78. E. ----- var. brachystachys (Scribn. & Ball) Farwell.

Logan and Washington.

79. *E.* ----- var. robustus (Scribn. & Smith) Mackenz. & Bush. Pulaski.
80. *E.* glaucus Buckl. Logan. (In Arkansas recognized as *E. mackenzii* Bush.)
81. *E.* interruptus Buckl. Logan, Polk, and Scott.
82. *E.* riparius Wiegand. Scattered.
83. *E.* villosus Muhl. Benton, Carroll, Fulton, Izard and Washington.
84. *E.* ----- var. arkansanus Scribn. and Ball.
85. *E.* virginicus L. Virginia Wild-Rye. General.
86. *E.* ----- var. australis (Scribn. & Ball) Hitchc. Common.
87. *E.* ----- var. glabriflorus (Vasey) Bush. Common.
88. *E.* ----- var. intermedius (Vasey) Bush.

Hystrix Moench

89. *Hystrix* patula Moench. Bottlebrush grass. Common, woods.

Hordeum L. Barley

90. *Hordeum* jubatum L. Foxtail Barley. Garland.
91. *H.* pusillum Nutt. Little Barley. Common weed.
92. *H.* vulgare L. Barley. Escaped.
93. *H.* ----- var. trifurcatum (Schlecht.) Alefeld. Escaped.

Lolium L. Ryegrass

94. *Lolium* perenne L. Perennial Ryegrass. English Ryegrass. Escaped.
95. *L.* multiflorum Lam. Italian Ryegrass. Escaped.
96. *L.* temulentum L. Darnel. Little Rock and Stuttgart. Poisonous to livestock. (Supposed to be the "tares" sown by the enemy in the parable in the Scriptures.)

Tribe 4. Aveneae

Koeleria Pers.

97. *Koeleria* cristata (L.) Pers. Junegrass. Northwest Arkansas.

Sphenopholis Scribn. Wedgegrass

98. *Sphenopholis* filiformis (Chapm.) Scribn. Boone.
99. *S.* intermedia (Rydb.) Rydb. Slender Wedgegrass. Rocky woods.
100. *S.* longiflora (Vasey) Hitchc. Creek banks in woods.
101. *S.* nitida (Bieler) Scribn. Dry rocky woods.

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102. S. obtusata (Michx.) Scribn. Prairie Wedgegrass. Open woods.
103. S. pallens (Bieler) Scribn. Van Buren County.
Deschampsia Beauv. Hairgrass.
104. Deschampsia flexuosa (L.) Trin. Crinkled Hairgrass. Magazine Mountain and Stone County.
Aira L.
105. Aira caryophyllea L. Silver Hairgrass. General, open areas.
106. A. elegans Willd. ex Gaudin. General.
Avena L. Oats
107. Avena sativa L. Oat. Escaped but seldom persistent.
Arrhenatherum Beauv.
108. Arrhenatherum elatius (L.) Presl. Tall Oatgrass. Escaped, Madison, Washington, and Yell.
Holcus L.
109. Holcus lanatus L. Velvet grass. Escaped, Garland and Washington.
Danthonia Lam. and DC. Oatgrass
110. Danthonia spicata (L.) Beauv. ex Roem. and Schult. Poverty Oatgrass: Common, dry, sterile soil.

Tribe 5. Agrostideae

- Calamagrostis Adans. Reedgrass.
111. Calamagrostis canadensis (Michx.) Beauv. Bluejoint. Reported without location by Nuttall and Lesquereux, but not recently seen.
Agrostis L. Bentgrass
112. Agrostis alba L. Redtop. Commonly cultivated and escaped.
113. A. eliottiana Schult. Common.
114. A. hiemalis (Walt.) B.S.P. Open woods and fields.
115. A. palustris Huds. Creeping Bent. Escaped.
116. A. perennans (Walt.) Tuckerm. Autumn Bent. Open woods, fields.
117. A. scabra Willd. Garland.
118. A. tenuis Sibth.

- Cinna L. Woodreed
119. Cinna arundinacea L. Stout Woodreed. Moist woods.
- Limnodea L. H. Dewey
120. Limnodea arkansana (Nutt.) L. H. Dewey. Benton and Hempstead.
- Alopecurus L. Foxtail
121. Alopecurus carolinianus Walt. Common in wet soil.
- Polypogon Desf.
122. Polypogon monspeliensis (L.) Desf. Rabbitfoot grass. Conway, Faulkner, and St. Francis. Introduced.
- Phleum L. Timothy
123. Phleum pratense L. Timothy. Cultivated for hay and commonly escaped.
- Muhlenbergia Schreb. Muhly
124. M. brachyphylla Bush. Benton.
125. M. capillaris (Lam.) Trin. Hairawn Muhly. Benton, Drew, Marion, and Washington.
126. M. glabriflora Scribn. Hempstead.
127. M. mexicana (L.) Trin. Drew, Fulton, and Hempstead.
128. M. schreberi Gmel. Nimblewill. Northwestern half of state.
129. M. sobolifera var. setigera Scribn. Dry woods.
130. M. sylvatica (Torr.) Torr. Benton, Boone, Franklin, Lawrence, and Logan.
131. M. tenuiflora (Willd.) B.S.P. Baxter, Logan, Pope, and Stone.
- Sporobolus R. Br. Dropseed
132. S. asper (Michx.) Kunth. Northwest and Southwest Arkansas.
133. S. asper var. hookeri (Trin.) Vasey. Garland.
134. S. asper var. pilosus (Vasey) Hitchc. Carroll.
135. S. clandestinus (Bieler.) Hitchc. Common.
136. S. contractus Hitchc. Spike Dropseed. Scattered.
137. S. cryptandrus (Torr.) A. Gray. Sand Dropseed. Clay, Hempstead, and Pulaski.
138. S. heterolepis (A. Gray) A. Gray. Prairie Dropseed. Prairies, northwest Arkansas.
139. S. neglectus Nash. Carroll, Pulaski, and Washington.
140. S. poiiretii (Roem. & Schult.) Hitchc. Smutgrass. Common, south Arkansas.

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141. S. pulvinatus Swallen. Saline area near Charleston and Franklin County.
 142. S. vaginiflorus (Torr.) Wood. Common in poor soil.
 143. S. vaginiflorus var. ozarkanus (Fern.) Shinnery.

Brachyelytrum Beauv.

144. B. erectum (Schreb.) Beauv. Moist or rocky woods.

Stipa L. Needlegrass

145. S. avenacea L. Blackseed Needlegrass. Garland, Howard, Polk, Sevier, and Stone.

Aristida L. Three-awn.

146. A. curtissii (A. Gray) Nash. Logan and Washington.
 147. A. dichotoma Michx. General.
 148. A. intermedia Scribn. & Ball. Jefferson.
 149. A. lanosa Muhl. ex Ell. Woolly Three-awn. Hempstead.
 150. A. longespica Poir. Western Arkansas and Craighead County.
 151. A. oligantha. Michx. Prairie Three-awn. General.
 152. A. purpurea Nutt. Purple Three-awn. Izard.
 153. A. purpurascens Poir. Arrowfeather. General.
 154. A. ramosissima Engelm. ex A. Gray. Arkansas.
 155. A. stricta Michx. Pineland Three-awn. Franklin and Pulaski.
 156. A. virgata Trin. Drew and Independence.

Tribe 7. Chlorideae

Leptochloa Beauv. Sprangletop

157. L. fascicularis (Lam.) A. Gray. Sandbars along Arkansas River in Pulaski.
 158. L. filiformis (Lam.) Beauv. Red Sprangletop. General.
 159. L. panicoides (Presl) Hitchc. Rice region, southeast Arkansas.

Eleusine Gaertn.

160. E. indica (L.) Gaertn. Goosegrass. Common weed in lawns and fields.

Cynodon L. Rich.

161. C. dactylon (L.) Pers. Bermuda Grass. Commonly cultivated, escaped.

Schedonnardus Steud.

162. S. paniculatus (Nutt.) Trel. Tumblegrass. Poor soil,

Franklin, Marion, and Washington.

Spartina Schreb. Cordgrass

163. S. pectinata Link. Prairie Cordgrass. Arkansas, Prairie, Pulaski, and Washington.

Gymnopogon Beauv. Beardgrass

164. G. ambiguus (Michx.) B.S.P. Dry ground, coastal plain.
165. G. brevifolius Trin. Garland and Montgomery.

Chloris Swartz. Fingergrass

166. C. verticillata Nutt. Windmill grass. Marion and Washington.

Bouteloua Lag. Grama

167. B. curtipendula (Michx.) Torr. Side-oats Grama. Rocky hills, north and northwest Arkansas.
168. B. rigidisetata (Steud.) Hitchc. Calcareous soil, Little River County.
169. B. gracillia (H.B.K.) Lag. ex Steud. Blue Grama.

Buchloe Engelm.

170. B. dactyloides (Nutt.) Egelm. Buffalo grass. Fulton and Sharp.

Tribe 8. Phalarideae

Anthoxanthum L. Vernalgrass

171. A. odoratum L. Sweet Vernalgrass. Washington.
172. A. aristatum Boiss. Mt. Nebb and Yell County.

Phalaris L. Canary grass

173. P. canariensis L. Canary grass. Carroll and Madison.
174. P. caroliniana Walt. Old fields throughout the state.
175. P. arundinacea L. Reed Canary grass. Washington. Escaped.

Tribe 9. Oryzeae

Oryza L. Rice

176. Oryza sativa L. Rice. Escaped in eastern Arkansas.

Leersia Swartz

177. L. lenticularis Michx. Catchfly grass. Wet ground, south Arkansas.
178. L. oryzoides (L.) Swartz. Rice Cutgrass. Wet ground,

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general.

179. L. virginica Willd. White-grass. Moist places, general.

Tribe 10. Zizanieae

180. Zizania L. Wildrice

Z. aquatica L. Reported by Nuttall and Lesquereux, but not confirmed recently.

Zizaniopsis Doell and Aschers

181. Z. miliacea (Michx.) Doell & Aschers. Southern Wildrice. Edges of lakes and bayous, coastal plain area.

SUBFAMILY 2. PANICOIDEAE

Tribe 12. Paniceae

Anthaenantia Beauv.

182. A. rufa (Ell.) Schult. Drew.

183. A. villosa (Michx.) Beauv. Reported by Nuttall as Panicum ignoratum.

Digitaria Heister. Crabgrass

184. D. sanguinalis (L.) Scop. Crabgrass. A very common weed.

185. D. ischaemum (Schreb.) Schreb. ex Muhl. Smooth Crabgrass. General.

186. D. ischaemum var. mississippiensis (Gattinger) Fernald. Jefferson.

187. D. violascens Link. Ashley, Fulton, Madison, and Marion.

188. D. filiformis (L.) Koel. Rocky open woods. Northwest Arkansas.

189. D. villosa (Walt.) Pers. Scattered.

Leptoloma Chase

190. L. cognatum (Schult.) Chase. Fall Witchgrass. Widespread.

Eriochloa H.B.K. Cupgrass

191. E. gracilis (Fourn.) Hitchc. Conway and Mississippi.

192. E. contracta Hitchc. Prairie Cupgrass. Miller.

Brachiaria (Trin.) Griesb.

193. B. ciliatissima (Buckl.) Chase. Benton.

194. B. platyphylla (Griseb.) Nash. Arkansas and Howard.

Axonopus Beauv.

195. A. furcatus (Flugge) Hitchc. Marshes and riverbanks, coastal plain.
196. A. compressus (Swartz) Beauv. Moist soil, coastal plain.
197. A. affinis Chase. Moist woods and ditches, coastal plain.

Paspalum L.

198. P. dissectum (L.) L. Garland and Logan.
199. P. fluitans (Ell.) Kunth. Benton County and coastal plain.
200. P. distichum L. Knotgrass. Chicot, Garland, Hempstead and Saline.
201. P. pubiflorum var. glabrum Vasey ex Scribn. Widely scattered.
202. P. pubescens Muhl. Common, open woods and fields.
203. P. ciliatifolium Michx. Sandy soil, Hempstead, Saline, and Washington.
204. P. dilatatum Poir. Dallis grass. Common, introduced.
205. P. urvillei Steud. Vasey grass. Ditches and wet soil, coastal plains.
206. P. laeve Michx. Widespread.
207. P. longipilum Nash. Faulkner and Garland.
208. P. circulare Nash. General.
209. P. floridanum Michx. General.
210. P. floridanum var. glabratum Engelm. ex Vasey. Conway, Logan, and Miller.
211. P. boscianum Flugge. Bull paspalum.
212. P. bifidum (Bertol.) Nash. Pitchfork paspalum.

Panicum L. Panic grass

Subgenus Dichantherium Hitchc. and Chase

§ 1. Depauperata

213. Panicum depauperatum Muhl. Garland, Logan, and Pulaski.
214. P. perlongum Nash. Franklin, Marion, and Pulaski.
215. P. linearifolium Scribn. Rocky woods, general.
216. P. wernerii Scribn. Carroll, Garland, and Prairie.
217. P. xalapense H.B.K. General.

§ 2. Laxiflora

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218. *P. laxiflorum* Lam. Pulaski.

§ 3. *Angustifolia*

219. *P. aciculare* Desv. ex Poir. Ashley.
220. *P. chrysopsidifolium* Nash. Hempstead and Jefferson.
221. *P. consanguineum* Kunth. Miller.
222. *P. angustifolium* Ell. Conway, Hempstead, and Polk.
223. *P. arenicoloides* Ashe. Scattered.
224. *P. ovinum* Scribn. & Smith. Jefferson.

§ 4. *Bicknelliana*

225. *P. bicknellii* Nash. Garland.

§ 6. *Dichotoma*

226. *P. microcarpon* Muhl. ex Ell. General.
227. *P. nitidum* Lam. Craighead and Faulkner.
228. *P. dichotomum* L. General.
229. *P. barbuiatum* Michx. Northern half of state.
230. *P. lucidum* Ashe. Arkansas, Greene, and Van Buren.

§ 7. *Spreta*

231. *P. spretum* Schult. Wet sandy soil, south Arkansas.
232. *P. lindheimeri* Nash. Scattered.

§ 8. *Lanuginosa*

233. *P. huachucae* Ashe. General.
234. *P. huachucae* var. *fasciculatum* (Torr.) Hubb. General.
235. *P. tennesseense* Ashe. Wooded hills.
236. *P. lanuginosum* Ell. Franklin and Logan.
237. *P. lanuginosum* var. *fasciculatum* (Torr.) Fern. Pulaski.
238. *P. auburne* Ashe. Faulkner and Washington.
239. *P. thurowii* Scribn. and Smith. Miller.
240. *P. praecocius* Hitchc. and Chase. Hempstead, Stone, and Washington.
241. *P. villosissimum* Nash. Faulkner, Pulaski, and White.
242. *P. pseudopubescens* Nash. Miller.

§ 10. *Sphaerocarpa*

243. *P. sphaerocarpon* Ell. General.
244. *P. polyanthes* Schult. Widespread.

§ 11. *Ensifolia*

245. *P. albomarginatum* Nash. Bradley.

§ 12. *Lancearia*

246. *P. webberianum* Nash. Washington.

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247. *P. malacophyllum* Nash. Lawrence, Marion, Stone, and Washington.
 248. *P. helleri* Nash. Carroll.
 249. *P. scribnerianum* Nash. Common, open woods.
 250. *P. oligosanthes* Schult. Green, Hempstead, Logan, and Washington.
 251. *P. ravenelii* Scribn. & Merr. Garland, Miller, and Washington.

§ 14. *Pedicellata*

252. *P. pedicellatum* Vasey. Massard Prairie, Sebastian.

§ 15. *Scoparia*

253. *P. scoparium* Lam. Velvet panic. Wet places, common.

§ 16. *Commutata*

254. *P. ashei* Pearson. Scattered.
 255. *P. commutatum* Schulte. General.
 256. *P. mutabile* Scribn. & Smith ex Nash. Garland.
 257. *P. joorii* Vasey. Hot Spring and Union.

§ 17. *Latifolia*

258. *P. clandestinum* L. Rocky woods, scattered.
 259. *P. latifolium* L. Stone and Washington.
 260. *P. boscii* Poir. Northern two-thirds of state.
 261. *P. boscii* var. *molle* (Vasey) Hitchc. & Chase. Garland and Washington.

Subgenus *Eupanicum* Godr.§ 3. *Fasciculata*

262. *P. ramosum* L. Browntop millet. Waste ground.
 263. *P. texanum* Buckl. Texas millet. Pulaski and Washington.

§ 4. *Dichotomiflora*

264. *P. dichotomiflorum* Michx. Fall panic. General.

§ 5. *Capillaria*

265. *P. flexile* (Gattinger) Scribn. Northern counties.
 266. *P. gattingeri* Nash. Northern counties.
 267. *P. philadelphicum* Bernh. ex Trin. Northwest Arkansas.
 268. *P. capillare* L. Witchgrass. General.
 269. *P. capillare* var. *occidentale* Rydb. Washington.
 270. *P. hirticaule* Presl. Benton.

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§ 9. *Virgata*

271. *P. virgatum* L. Switchgrass. General.
 272. *P. amarulum* Hitchc. & Chase. Escaped, Cleburne.

§11. *Agrostoides*

273. *P. agrostoides* Spreng. Ditches and edges of ponds. General.
 274. *P. condensum* Nash.
 275. *P. stipitatum* Nash. Coastal plain.
 276. *P. longifolium* Torr. Saline.
 277. *P. anceps* Michx. Common, wet ground.

§ 12. *Laxa*

278. *P. hians* Ell. General.

§ 13. *Verrucosa*

279. *P. verrucosum* Muhl. Ouachita.
 280. *P. brachyanthum* Steud. Scattered.

§ 15. *Obtusa*

281. *P. obtusum* H.B.K. Vine-mesquite. Washington.

§ 17. *Gymnocarpa*

282. *P. gymnocarpon* Ell. Southern counties.
 283. *P. antidotale* Retz. Blue Panic. Introduced.

Sacciolepis Nash.

284. *S. striata* (L.) Nash. Ouachita and Saline.

Oplismenus Beauv.

285. *O. setarius* (Lam.) Roem. & Schult. Open wet soil; Columbia, Hempstead, and Pike.

Echinochloa Beauv.

286. *E. colonum* (L.) Link. Jungle-rice. Wet land, southern Arkansas.
 287. *E. crusgalli* (L.) Beauv. Barnyard grass. General.
 288. *E. crusgalli* var. *mitis* (Pursh) Peterm. Northeast Arkansas.
 289. *E. crusgalli* var. *zelayensis* (H.B.K.) Hitchc. Arkansas County.
 290. *E. walteri* (Pursh) Heller. Crittenden.

Setaria Beauv. Bristlegrass; millet

291. *S. lutescens* (Weigel) Hubb. Yellow bristlegrass. Common.

292. S. geniculata (Lam.) Beauv. Knotroot bristlegrass. Northwest Arkansas.
293. S. verticillata (L.) Beauv. Bur bristlegrass. Washington.
294. S. magna Griseb. Giant bristlegrass. Drew and Washington.
295. S. viridis (L.) Beauv. Green bristlegrass. General.
296. S. faberii Herrm. Giant Foxtail. Tall weed, eastern Arkansas.

Pennisetum L. Rich

297. P. ciliare (L.) Link. Buffel grass. Introduced for trial for soil stabilization, but not established.

Cenchrus L. Sandbur

298. C. pauciflorus Benth. Field Sandbur. Scattered, in sandy soil.

Tribe 13. Andropogoneae

Erianthus Michx. Plumegrass

299. E. strictus Baldw. Narrow plumegrass. Wet woods, south Arkansas.
300. E. contortus Baldw. ex Ell. Bent-awn plumegrass. Open woods.
301. E. alopecuroides (L.) Ell. Silver plumegrass. Rocky open woods.
302. E. brevibarbis Michx. Openings and roadsides. Southern Arkansas.
303. E. coarctatus var. elliottianus Fernald.
304. E. giganteus (Walt.) Muhl. Giant plumegrass. Along roads and railways.

Arthraxon Beauv.

305. A. hispidus var. cryptatherus (Hack.) Honda. Ditches, scattered.

Andropogon L. Beardgrass; Bluestem

306. A. scoparius Michx. Little Bluestem. General.
307. A. divergens (Hack.) Anderss. ex Hitchc. Ashley and Hempstead.
308. A. gerardi Vitman. Big Bluestem. Open areas, general.
309. A. ternarius Michx. Scattered.
310. A. virginicus L. Broomsedge. Common in poor soils.
311. A. glomeratus (Walt.) B.S.P. Bushy beardgrass. Wet areas, south Arkansas.

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312. A. elliottii Chapm. Elliott beardgrass. Scattered.
 313. A. saccharoides Swartz. Silver beardgrass. Scattered.
 314. A. ischaemum L. Yellow bluestem. Escaped in Cleburne County.

Sorghum Moench

315. S. halapense (L.) Pers. Johnson Grass. Common.
 316. S. sudanense (Piper) Stapf. Sudan Grass. Occasionally escaped.
 317. S. vulgare Pers. Sorghum. Occasionally escaped.

Sorghastrum Nash.

318. S. nutans (L.) Nash. Indian Grass. Common in open areas.
 319. S. elliottii (Mohr.) Nash. Hempstead, Jefferson, and Washington.

Manisurus L. Jointtail

320. M. cylindrica (Michx.) Kuntze. Carolina jointtail. Scattered.
 321. M. rugosa (Nutt.) Kuntz. Wet pine woods, south Arkansas.

Tribe 14. Tripsaceae

Tripsacum Gamagrass

322. T. dactyloides (L.) L. Eastern Gamagrass. Widespread.

Addendum:

323. Muhlenbergia sobolifera (Muhl.) Trin. Northern Arkansas.

SUMMARY

The present list of Arkansas grasses includes a total of 322 different kinds of grasses, representing 80 genera, 306 species, and 16 varieties, compared with the 1941 list of 279 species and varieties. Branner & Coville(1) had listed 130 species and 3 varieties.

Further study will undoubtedly disclose many others in various parts of the state, and some may be found to be of much more value than some now in agricultural use.

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