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VASCULAR PLANTS OF THE FOREST RIVER BIOLOGY STATION, NORTH DAKOTA

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VASCULAR PLANTS OF THE FOREST RIVER BIOLOGY STATION, NORTH DAKOTA—During summer 2013 we completed a listing of the plant species of the joint University of North Dakota (UND) Forest River Biology Station and North Dakota Game and Fish Department Wildlife Management Area (FRBS). The FRBS is a 65 ha tract of land that encompasses the south half of the SW ¼ of section 11 (acquired by UND in 1952) and the north half of the NW ¼ of section 14 (acquired by UND in 1954) in Inkster Township (T154N, R55W). The two parcels are bisected by the Forest River, a tributary of the Red River of the North. The area contains a unique mix of representative eastern North Dakota upland prairie and riparian plant communities. Several spring-fed creeks flow into the river, and the site contains numerous ravines that lead from drier upland prairies to wide terraces along the river bottom. As a result of this variation in topography and moisture, the site contains a wide variety of sharply contrasting vegetation types.

We collated species lists and collection dates (if known) from previous survey efforts (La Duke et al., unpublished data) and regional herbaria. We visited the site monthly (Jun–Aug) in summer 2013 and collected more than 150 plant samples. Specimens were jointly deposited into the Minot State University (MISU) and UND (GFND) herbaria.

Our collection efforts were focused on documenting rare or regionally unlisted species. We documented 24 species that had not previously been associated with the site, and collected vouchers for an additional 21 species which were

known to occur at the site. Despite this effort, 88 species in La Duke et al. (unpublished data) are not yet supported with collections, but have been included with this list. Nomenclature and taxon concepts are given in the accordance with USDA PLANTS database (United States Department of Agriculture 2013), and the Flora of North America (Flora of North America Editorial Committee 1993).

We recorded 498 plant species from 77 families in the FRBS (Appendix A), which is greater than the number of species listed for the UND Oakville Prairie Field Station (Facey et al. 1986). Seventy-five percent of the species are native to North America (USDA 2013), and we conducted a site-wide Floristic Quality Analysis using C values (coefficients of conservatism) from Northern Great Plains Floristic Quality Assessment Panel (2001). The native flora of the site had a mean C value of 5.38 and a Floristic Quality Index of 26, indicating that the site contains native flora indicative of a disturbed natural area. Data collected as part of this project will contribute to developing future management benchmarks to reduce woody and non-native invaders throughout FRBS.—Alexey Shipunov¹, Kathryn A. Yurkonis², John C. La Duke³, and Vera L. Facey^{2,4}. ¹Department of Biology, Minot State University, Minot, ND 58707, USA, ²Department of Biology, University of North Dakota, Grand Forks, ND 58202, USA, ³College of Natural and Social Sciences, University of Nebraska at Kearney, Kearney, NE 68849, USA, ⁴deceased; Corresponding author email address: alexey.shipunov@minotstateu.edu.

Appendix A. Vascular plant species list.

I. Adoxaceae

1. *Viburnum lentago* L.
2. *Viburnum opulus* L.
3. *Viburnum rafinesqueanum* Schult.

II. Alismataceae

4. *Alisma subcordatum* Raf.
5. *Sagittaria cuneata* Sheldon
6. *Sagittaria latifolia* Willd.

III. Amaranthaceae

7. *Amaranthus albus* L.
8. *Amaranthus retroflexus* L.
9. *Chenopodium album* L.
10. *Chenopodium leptophyllum* (Moq.) Nutt. ex S. Watson
11. *Chenopodium simplex* (Torr.) Raf.
12. *Corispermum villosum* Rydb.
13. *Salsola tragus* L.

IV. Amaryllidaceae

14. *Allium stellatum* Fraser ex Ker Gawl.
 15. *Allium textile* A. Nelson & J.F. Macbr.
 16. *Allium tricoccum* Aiton
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V. Anacardiaceae

17. *Rhus glabra* L.
18. *Toxicodendron radicans* (L.) Kuntze

VI. Apiaceae

19. *Cicuta maculata* L.
20. *Cryptotaenia canadensis* (L.) DC.
21. *Cymopterus acaulis* (Pursh) Raf.
22. *Daucus carota* L.
23. *Heracleum maximum* Bartram
24. *Lomatium foeniculaceum* (Nutt.) J.M. Coult. & Rose
25. *Lomatium orientale* J.M. Coult. & Rose
26. *Osmorhiza claytonii* (Michx.) C.B. Clarke
27. *Osmorhiza longistylis* (Torr.) DC.
28. *Sanicula marilandica* L.
29. *Sium suave* Walter
30. *Zizia aptera* (A. Gray) Fernald
31. *Zizia aurea* (L.) W.D.J. Koch

VII. Apocynaceae

32. *Apocynum androsaemifolium* L.
 33. *Apocynum cannabinum* L.
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34. *Asclepias incarnata* L.

35. *Asclepias lanuginosa* Nutt.

36. *Asclepias ovalifolia* Decne.

37. *Asclepias syriaca* L.

38. *Asclepias verticillata* L.

VIII. Araceae

39. *Arisaema triphyllum* (L.) Schott

40. *Lemna minor* L.

41. *Spirodela polyrrhiza* (L.) Schleid.

IX. Araliaceae

42. *Aralia nudicaulis* L.

X. Asparagaceae

43. *Asparagus officinalis* L.

44. *Maianthemum canadense* Desf.

45. *Maianthemum racemosum* (L.) Link

46. *Maianthemum stellatum* (L.) Link

47. *Maianthemum trifolium* (L.) Sloboda

48. *Polygonatum biflorum* (Walter) Elliott

XI. Asteraceae

49. *Achillea millefolium* L.

50. *Achillea sibirica* Ledeb.

51. *Agoseris glauca* (Pursh) Raf.

52. *Ambrosia artemisiifolia* L.

53. *Ambrosia trifida* L.

54. *Antennaria howellii* Greene

55. *Antennaria neglecta* Greene

56. *Antennaria parvifolia* Nutt.

57. *Antennaria plantaginifolia* (L.) Richardson

58. *Arctium minus* Bernh.

59. *Artemisia absinthium* L.

60. *Artemisia campestris* L.

61. *Artemisia dracunculus* L.

62. *Artemisia frigida* Willd.

63. *Artemisia ludoviciana* Nutt.

64. *Bidens cernua* L.

65. *Bidens frondosa* L.

66. *Carduus nutans* L.

67. *Cirsium arvense* (L.) Scop.

68. *Cirsium undulatum* (Nutt.) Spreng.

69. *Cirsium vulgare* (Savi) Ten.

70. *Conyza canadensis* (L.) Cronquist

71. *Cyclachaena xanthifolia* (Nutt.) Fresen.

72. *Echinacea angustifolia* DC.

73. *Erigeron glabellus* Nutt.

74. *Erigeron philadelphicus* L.

75. *Erigeron strigosus* Muhl. ex Willd.

76. *Euthamia graminifolia* (L.) Nutt.

77. *Eutrochium maculatum* (L.) E.E. Lamont

78. *Gaillardia aristata* Pursh

79. *Grindelia squarrosa* (Pursh) Dunal

80. *Gutierrezia sarothrae* (Pursh) Britton & Rusby

81. *Helianthus pauciflorus* Nutt.

82. *Helianthus strumosus* L.

83. *Heliopsis helianthoides* (L.) Sweet

84. *Heterotheca villosa* (Pursh) Shinnerr

85. *Hieracium canadense* Michx.

86. *Hieracium umbellatum* L.

87. *Lactuca tatarica* (L.) C.A. Mey.

88. *Liatris punctata* Hook.

89. *Lygodesmia juncea* (Pursh) D. Don ex Hook.

90. *Oligoneuron rigidum* (L.) Small

91. *Packera aurea* (L.) Á. Löve & D. Löve

92. *Packera plattensis* (Nutt.) W.A. Weber & Á. Löve

93. *Prenanthes alba* L.

94. *Ratibida columnifera* (Nutt.) Woot. & Standl.

95. *Rudbeckia hirta* L.

96. *Rudbeckia laciniata* L.

97. *Senecio congestus* (R. Br.) DC.

98. *Solidago canadensis* L.

99. *Solidago flexicaulis* L.

100. *Solidago gigantea* Aiton

101. *Solidago missouriensis* Nutt.

102. *Solidago mollis* Bartlett

103. *Solidago nemoralis* Aiton

104. *Sonchus arvensis* L.

105. *Sonchus asper* (L.) Hill

106. *Symphyotrichum ascendens* (Lindl.) G.L. Nesom

107. *Symphyotrichum ciliatum* (Ledeb.) G.L. Nesom

108. *Symphyotrichum ciliolatum* (Lindl.) Á. Löve & D. Löve

109. *Symphyotrichum cordifolium* (L.) G.L. Nesom

110. *Symphyotrichum ericoides* (L.) G.L. Nesom

111. *Symphyotrichum laeve* (L.) Á. Löve & D. Löve

112. *Symphyotrichum lanceolatum* (Willd.) G.L. Nesom

113. *Symphyotrichum oblongifolium* (Nutt.) G.L. Nesom

114. *Symphyotrichum praealtum* (Poir.) G.L. Nesom

115. *Symphyotrichum puniceum* (L.) Á. Löve & D. Löve

116. *Tanacetum vulgare* L.

117. *Taraxacum laevigatum* (Willd.) DC.

118. *Taraxacum officinale* F.H. Wigg.

119. *Tragopogon dubius* Scop.

120. *Tripleurospermum perforatum* (Mérat) M. Lainz

121. *Vernonia baldwinii* Torr.

122. *Vernonia fasciculata* Michx.

123. *Xanthium strumarium* L.

XII. Balsaminaceae

124. *Impatiens capensis* Meerb.
125. *Impatiens pallida* Nutt.

XIII. Betulaceae

126. *Betula papyrifera* Marsh.
127. *Corylus americana* Walter
128. *Corylus cornuta* Marsh.
129. *Ostrya virginiana* (Mill.) K. Koch

XIV. Boraginaceae

130. *Cynoglossum officinale* L.
131. *Hackelia deflexa* (Wahlenb.) Opiz
132. *Hackelia virginiana* (L.) I.M. Johnston.
133. *Lappula squarrosa* (Retz.) Dumort.
134. *Lithospermum canescens* (Michx.) Lehm.
135. *Lithospermum incisum* Lehm.
136. *Onosmodium bejariense* DC. ex A. DC.

XV. Brassicaceae

137. *Arabis drummondii* A. Gray
138. *Arabis holboellii* Hornem.
139. *Capsella bursa-pastoris* (L.) Medik.
140. *Cardamine pensylvanica* Muhl. ex Willd.
141. *Descurainia incana* (Bernh. ex Fisch. & C.A. Mey.) Dorn
142. *Descurainia pinnata* (Walter) Britton
143. *Draba nemorosa* L.
144. *Draba reptans* (Lam.) Fernald
145. *Erysimum cheiranthoides* L.
146. *Erysimum inconspicuum* (S. Watson) MacMill.
147. *Lepidium densiflorum* Schrad.
148. *Lepidium virginicum* L.
149. *Lesquerella arenosa* (Richardson) Rydb.
150. *Rorippa islandica* (Oeder) Borbás
151. *Rorippa palustris* (L.) Besser
152. *Sinapis arvensis* L.
153. *Sisymbrium altissimum* L.
154. *Sisymbrium loeselii* L.
155. *Sisymbrium officinale* (L.) Scop.
156. *Thlaspi arvense* L.

XVI. Campanulaceae

157. *Campanula rapunculoides* L.
158. *Campanula rotundifolia* L.
159. *Lobelia spicata* Lam.

XVII. Cannabaceae

160. *Humulus lupulus* L.

XVIII. Caprifoliaceae

161. *Lonicera dioica* L.
162. *Lonicera morrowii* A. Gray

163. *Symphoricarpos albus* (L.) S.F. Blake
164. *Symphoricarpos occidentalis* Hook.

XIX. Caryophyllaceae

165. *Cerastium arvense* L.
166. *Cerastium nutans* Raf.
167. *Moehringia lateriflora* (L.) Fenzl
168. *Stellaria longifolia* Muhl. ex Willd.

XX. Celastraceae

169. *Celastrus scandens* L.

XXI. Convolvulaceae

170. *Calystegia sepium* (L.) R. Br.
171. *Convolvulus arvensis* L.
172. *Cuscuta gronovii* Willd. ex Schult.

XXII. Cornaceae

173. *Cornus sericea* L.

XXIII. Cucurbitaceae

174. *Echinocystis lobata* (Michx.) Torr. & A. Gray

XXIV. Cyperaceae

175. *Carex aquatilis* Wahlenb.
176. *Carex assiniboinensis* W. Boott
177. *Carex atherodes* Spreng.
178. *Carex aurea* Nutt.
179. *Carex bebbii* Olney ex Fernald
180. *Carex blanda* Dewey
181. *Carex brevior* (Dewey) Mack.
182. *Carex conjuncta* Boott
183. *Carex deweyana* Schwein.
184. *Carex diandra* Schrank
185. *Carex duriuscula* C.A. Mey.
186. *Carex eburnea* Boott
187. *Carex echinata* Murray
188. *Carex emoryi* Dewey
189. *Carex granularis* Muhl. ex Willd.
190. *Carex gravida* L.H. Bailey
191. *Carex hystericina* Muhl. ex Willd.
192. *Carex laeviconica* Dewey
193. *Carex laxiflora* Lam.
194. *Carex mackenziei* Krecz.
195. *Carex peckii* Howe
196. *Carex pellita* Muhl. ex Willd.
197. *Carex pensylvanica* Lam.
198. *Carex praegracilis* W. Boott
199. *Carex pseudocyperus* L.
200. *Carex retrorsa* Schwein.
201. *Carex rosea* Schkuhr ex Willd.
202. *Carex rostrata* Stokes

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203. *Carex saximontana* Mack.
 204. *Carex scoparia* Schkuhr ex Willd.
 205. *Carex sprengei* Dewey ex Spreng.
 206. *Carex stipata* Muhl. ex Willd.
 207. *Carex tenera* Dewey
 208. *Carex tetanica* Schkuhr
 209. *Carex torreyi* Tuck.
 210. *Carex tribuloides* Wahlenb.
 211. *Carex vulpinoidea* Michx.
 212. *Carex*× *subimpressa* Clokey
 213. *Eleocharis engelmannii* Steud.
 214. *Eleocharis erythropoda* Steud.
 215. *Eleocharis palustris* (L.) Roem. & Schult.
 216. *Schoenoplectus americanus* (Pers.) Volkart ex Schinz & R. Keller
 217. *Schoenoplectus fluviatilis* (Torr.) M.T. Strong
 218. *Schoenoplectus tabernaemontani* (C.C. Gmel.) Palla
 219. *Scirpus atrovirens* Willd.
 220. *Scirpus microcarpus* J. Presl & C. Presl
- XXV. Elaeagnaceae**
 221. *Elaeagnus commutata* Bernh. ex Rydb.
- XXVI. Equisetaceae**
 222. *Equisetum arvense* L.
 223. *Equisetum hyemale* L.
 224. *Equisetum laevigatum* A. Braun
 225. *Equisetum pratense* Ehrh.
- XXVII. Ericaceae**
 226. *Orthilia secunda* (L.) House
- XXVIII. Euphorbiaceae**
 227. *Chamaesyce serpyllifolia* (Pers.) Small
 228. *Euphorbia esula* L.
- XXIX. Fabaceae**
 229. *Amorpha canescens* Pursh
 230. *Amorpha fruticosa* L.
 231. *Amphicarpaea bracteata* (L.) Fernald
 232. *Astragalus agrestis* Douglas ex G. Don
 233. *Astragalus crassicaeris* Nutt.
 234. *Astragalus lotiflorus* Hook.
 235. *Astragalus missouriensis* Nutt.
 236. *Dalea candida* Michx. ex Willd.
 237. *Dalea purpurea* Vent.
 238. *Desmodium canadense* (L.) DC.
 239. *Desmodium illinoense* A. Gray
 240. *Glycyrrhiza lepidota* Pursh
 241. *Lathyrus ochroleucus* Hook.
 242. *Lathyrus venosus* Muhl. ex Willd.
 243. *Medicago lupulina* L.
 244. *Medicago sativa* L.
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245. *Melilotus officinalis* (L.) Lam.
 246. *Oxytropis lambertii* Pursh
 247. *Pedimelum argophyllum* (Pursh) J. Grimes
 248. *Pedimelum esculentum* (Pursh) Rydb.
 249. *Trifolium repens* L.
 250. *Vicia americana* Muhl. ex Willd.
 251. *Vicia sativa* L.
- XXX. Fagaceae**
 252. *Quercus macrocarpa* Michx.
- XXXI. Gentianaceae**
 253. *Gentiana andrewsii* Griseb.
- XXXII. Geraniaceae**
 254. *Geranium carolinianum* L.
- XXXIII. Hydrocharitaceae**
 255. *Elodea canadensis* Michx.
 256. *Elodea nuttallii* (Planch.) H. St. John
- XXXIV. Hydrophyllaceae**
 257. *Ellisia nyctelea* (L.) L.
 258. *Hydrophyllum virginianum* L.
- XXXV. Iridaceae**
 259. *Sisyrinchium montanum* Greene
- XXXVI. Juncaceae**
 260. *Juncus arcticus* Willd.
 261. *Juncus bufonius* L.
 262. *Juncus canadensis* J. Gay ex Laharpe
 263. *Juncus dudleyi* Wiegand
 264. *Juncus interior* Wiegand
 265. *Juncus longistylis* Torr.
 266. *Juncus nodosus* L.
- XXXVII. Lamiaceae**
 267. *Agastache foeniculum* (Pursh) Kuntze
 268. *Galeopsis tetrahit* L.
 269. *Hedeoma hispida* Pursh
 270. *Leonurus cardiaca* L.
 271. *Lycopus americanus* Muhl. ex W. Bartram
 272. *Mentha arvensis* L.
 273. *Monarda fistulosa* L.
 274. *Nepeta cataria* L.
 275. *Physostegia parviflora* Nutt. ex A. Gray
 276. *Salvia* × *sylvestris* L.
 277. *Scutellaria galericulata* L.
 278. *Scutellaria lateriflora* L.
 279. *Scutellaria parvula* Michx.
 280. *Stachys palustris* L.
- XXXVIII. Liliaceae**
 281. *Lilium philadelphicum* L.
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XXXIX. Linaceae282. *Linum rigidum* Pursh**XL. Malvaceae**283. *Tilia americana* L.**XLI. Melanthiaceae**284. *Trillium cernuum* L.285. *Zigadenus elegans* Pursh**XLII. Menispermaceae**286. *Menispermum canadense* L.**XLIII. Nyctaginaceae**287. *Mirabilis hirsuta* (Pursh) MacMill.288. *Mirabilis nyctaginea* (Michx.) MacMill.**XLIV. Nymphaeaceae**289. *Nuphar lutea* (L.) Sm.**XLV. Oleaceae**290. *Fraxinus pennsylvanica* Marsh.**XLVI. Onagraceae**291. *Calylophus serrulatus* (Nutt.) P.H. Raven292. *Circaea lutetiana* L.293. *Epilobium ciliatum* Raf.294. *Epilobium leptophyllum* Raf.295. *Gaura coccinea* Nutt. ex Pursh296. *Oenothera biennis* L.297. *Oenothera nuttallii* Sweet298. *Oenothera rhombipetala* Nutt. ex Torr. & A. Gray299. *Oenothera villosa* Thunb.**XLVII. Ophioglossaceae**300. *Botrychium virginianum* (L.) Sw.301. *Ophioglossum vulgatum* L.**XLVIII. Orchidaceae**302. *Corallorhiza maculata* (Raf.) Raf.303. *Corallorhiza striata* Lindl.304. *Cypripedium parviflorum* Salisb.305. *Dactylorhiza viridis* (L.) R.M. Bateman, A.M. Pridgeon & M.W. Chase306. *Platanthera aquilonis* Sheviak**XLIX. Orobanchaceae**307. *Orobanche fasciculata* Nutt.308. *Orthocarpus luteus* Nutt.309. *Pedicularis canadensis* L.**L. Oxalidaceae**310. *Oxalis stricta* L.**LI. Papaveraceae**311. *Corydalis aurea* Willd.312. *Sanguinaria canadensis* L.**LII. Phrymaceae**313. *Mimulus glabratus* Kunth314. *Mimulus guttatus* DC.315. *Mimulus ringens* L.316. *Phryma leptostachya* L.**LIII. Plantaginaceae**317. *Hippuris vulgaris* L.318. *Penstemon albidus* Nutt.319. *Penstemon gracilis* Nutt.320. *Plantago major* L.321. *Veronica americana* Schwein. ex Benth.322. *Veronica anagallis-aquatica* L.**LIV. Poaceae**323. *Agropyron cristatum* (L.) Gaertn.324. *Agrostis gigantea* Roth325. *Agrostis perennans* (Walter) Tuck.326. *Agrostis scabra* Willd.327. *Andropogon gerardii* Vitman328. *Avena fatua* L.329. *Beckmannia syzigachne* (Steud.) Fernald330. *Bouteloua curtipendula* (Michx.) Torr.331. *Bouteloua gracilis* (Willd. ex Kunth) Lag. ex Griffiths332. *Bromus ciliatus* L.333. *Bromus inermis* Leyss.334. *Bromus kalmii* A. Gray335. *Bromus latiglumis* (Shear) Hitchc.336. *Calamagrostis canadensis* (Michx.) P. Beauv.337. *Calamagrostis stricta* (Timm) Koeler338. *Calamovilfa longifolia* (Hook.) Scribn.339. *Catabrosa aquatica* (L.) P. Beauv.340. *Dichanthelium leibergii* (Vasey) Freckmann341. *Echinochloa crus-galli* (L.) P. Beauv.342. *Elymus canadensis* L.343. *Elymus hystrix* L.344. *Elymus interruptus* Buckley345. *Elymus lanceolatus* (Scribn. & J.G. Sm.) Gould346. *Elymus repens* (L.) Gould347. *Elymus trachycaulus* (Link) Gould ex Shinners348. *Elymus villosus* Muhl. ex Willd.349. *Elymus virginicus* L.350. *Eragrostis cilianensis* (All.) Vign. ex Janchen351. *Eragrostis hypnoides* (Lam.) Britton, Sterns & Poggenb.352. *Festuca subverticillata* (Pers.) Alexeev353. *Glyceria grandis* S. Watson354. *Glyceria striata* (Lam.) Hitchc.355. *Hesperostipa comata* (Trin. & Rupr.) Barkworth356. *Hesperostipa sparteae* (Trin.) Barkworth357. *Hierochloa odorata* (L.) P. Beauv.358. *Hordeum jubatum* L.359. *Koeleria macrantha* (Ledeb.) Schult.

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360. *Leersia oryzoides* (L.) Sw.
 361. *Muhlenbergia cuspidata* (Torr. ex Hook.) Rydb.
 362. *Muhlenbergia frondosa* (Poir.) Fernald
 363. *Muhlenbergia mexicana* (L.) Trin.
 364. *Muhlenbergia racemosa* (Michx.) Britton, Sterns & Poggenb.
 365. *Muhlenbergia richardsonis* (Trin.) Rydb.
 366. *Nassella viridula* (Trin.) Barkworth
 367. *Oryzopsis asperifolia* Michx.
 368. *Panicum capillare* L.
 369. *Patis racemosa* (Sm.) Romasch., P.M. Peterson & R. J. Soreng
 370. *Phalaris arundinacea* L.
 371. *Phleum pratense* L.
 372. *Poa compressa* L.
 373. *Poa nemoralis* L.
 374. *Poa palustris* L.
 375. *Poa pratensis* L.
 376. *Poa secunda* J. Presl
 377. *Schizachne purpurascens* (Torr.) Swallen
 378. *Schizachyrium scoparium* (Michx.) Nash
 379. *Setaria pumila* (Poir.) Roem. & Schult.
 380. *Setaria viridis* (L.) P. Beauv.
 381. *Spartina pectinata* Bosc ex Link
 382. *Sphenopholis intermedia* (Rydb.) Rydb.
 383. *Sporobolus cryptandrus* (Torr.) A. Gray
 384. × *Elyhordeum macounii* (Vasey) Barkworth & D.R. Dewey
 385. *Zizania aquatica* L.

LV. Polemoniaceae

386. *Collomia linearis* Nutt.

LVI. Polygonaceae

387. *Polygonum achoreum* S.F. Blake
 388. *Polygonum amphibium* L.
 389. *Polygonum aviculare* L.
 390. *Polygonum convolvulus* L.
 391. *Polygonum hydropiper* L.
 392. *Polygonum lapathifolium* L.
 393. *Polygonum pensylvanicum* L.
 394. *Polygonum persicaria* L.
 395. *Rumex aquaticus* L.
 396. *Rumex crispus* L.
 397. *Rumex longifolius* DC.
 398. *Rumex maritimus* L.

LVII. Polypodiaceae

399. *Athyrium filix-femina* (L.) Roth
 400. *Onoclea struthiopteris* (L.) Hoffm.

LVIII. Pontederiaceae

401. *Heteranthera dubia* (Jacq.) MacMill.

LIX. Potamogetonaceae

402. *Potamogeton amplifolius* Tuck.
 403. *Potamogeton foliosus* Raf.
 404. *Potamogeton zosteriformis* Fernald
 405. *Stuckenia filiformis* (Pers.) Börner
 406. *Stuckenia pectinata* (L.) Börner
 407. *Stuckenia vaginata* (Turcz.) Holub

LX. Primulaceae

408. *Androsace occidentalis* Pursh
 409. *Lysimachia ciliata* L.

LXI. Ranunculaceae

410. *Actaea rubra* (Aiton) Willd.
 411. *Anemone canadensis* L.
 412. *Anemone cylindrica* A. Gray
 413. *Anemone virginiana* L.
 414. *Aquilegia canadensis* L.
 415. *Caltha palustris* L.
 416. *Clematis virginiana* L.
 417. *Delphinium carolinianum* Walter
 418. *Pulsatilla patens* (L.) Mill.
 419. *Ranunculus abortivus* L.
 420. *Ranunculus aquatilis* L.
 421. *Ranunculus cymbalaria* Pursh
 422. *Ranunculus macounii* Britton
 423. *Ranunculus pensylvanicus* L. f.
 424. *Ranunculus recurvatus* Poir.
 425. *Ranunculus rhomboideus* Goldie
 426. *Ranunculus sceleratus* L.
 427. *Thalictrum dasycarpum* Fisch. & Avé-Lall.
 428. *Thalictrum venulosum* Trel.

LXII. Rhamnaceae

429. *Rhamnus cathartica* L.

LXIII. Rosaceae

430. *Amelanchier alnifolia* (Nutt.) Nutt. ex M. Roem.
 431. *Amelanchier humilis* Wiegand
 432. *Argentina anserina* (L.) Rydb.
 433. *Crataegus chrysocarpa* Ashe
 434. *Fragaria virginiana* Duchesne
 435. *Geum aleppicum* Jacq.
 436. *Geum canadense* Jacq.
 437. *Geum macrophyllum* Willd.
 438. *Geum triflorum* Pursh
 439. *Potentilla argentea* L.
 440. *Potentilla concinna* Richardson
 441. *Potentilla norvegica* L.
 442. *Potentilla paradoxa* Nutt.
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443. *Potentilla pensylvanica* L.

444. *Prunus americana* Marsh.

445. *Prunus pensylvanica* L. f.

446. *Prunus virginiana* L.

447. *Rosa arkansana* Porter

448. *Rosa blanda* Aiton

449. *Rubus idaeus* L.

450. *Rubus pubescens* Raf.

451. *Spiraea alba* Du Roi

LXIV. Rubiaceae

452. *Galium aparine* L.

453. *Galium boreale* L.

454. *Galium trifidum* L.

455. *Galium triflorum* Michx.

LXV. Salicaceae

456. *Populus balsamifera* L.

457. *Populus deltoides* Bartram ex Marsh.

458. *Populus tremuloides* Michx.

459. *Salix amygdaloides* Andersson

460. *Salix bebbiana* Sarg.

461. *Salix cordata* Michx.

462. *Salix discolor* Muhl.

463. *Salix exigua* Nutt.

464. *Salix humilis* Marsh.

465. *Salix interior* Rowley

466. *Salix lutea* Nutt.

LXVI. Santalaceae

467. *Comandra umbellata* (L.) Nutt.

LXVII. Sapindaceae

468. *Acer negundo* L.

LXVIII. Saxifragaceae

469. *Heuchera richardsonii* R. Br.

470. *Ribes americanum* Mill.

471. *Ribes hirtellum* Michx.

472. *Ribes missouriense* Nutt.

LXIX. Scrophulariaceae

473. *Limosella aquatica* L.

474. *Scrophularia lanceolata* Pursh

LXX. Smilacaceae

475. *Smilax herbacea* L.

LXXI. Solanaceae

476. *Physalis lanceolata* Michx.

477. *Physalis virginiana* Mill.

478. *Solanum dulcamara* L.

479. *Solanum nigrum* L.

LXXII. Typhaceae

480. *Sparganium eurycarpum* Engelm.

481. *Typha angustifolia* L.

482. *Typha latifolia* L.

LXXIII. Ulmaceae

483. *Ulmus americana* L.

LXXIV. Urticaceae

484. *Laportea canadensis* (L.) Weddell

485. *Parietaria pensylvanica* Muhl. ex Willd.

486. *Urtica dioica* L.

LXXV. Verbenaceae

487. *Verbena bracteata* Cav. ex Lag. & Rodr.

488. *Verbena hastata* L.

489. *Verbena stricta* Vent.

490. *Verbena urticifolia* L.

LXXVI. Violaceae

491. *Viola canadensis* L.

492. *Viola nuttallii* Pursh

493. *Viola pedatifida* G. Don

494. *Viola pubescens* Aiton

495. *Viola sororia* Willd.

LXXVII. Vitaceae

496. *Parthenocissus quinquefolia* (L.) Planch.

497. *Parthenocissus vitacea* (Knerr) Hitchc.

498. *Vitis vulpina* L.

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