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CONTRIBUTIONS FROM THE BOTANICAL DEPARTMENT OF THE UNIVERSITY OF NEBRASKA.

NEW SERIES, III.

A SECOND EDITION OF WEBBER'S "APPENDIX TO THE CATALOGUE OF THE FLORA OF NEBRASKA."

WITH A SUPPLEMENTARY LIST OF RECENTLY REPORTED SPECIES,

BY CHARLES E. BESSEY, PH. D.

[ISSUED JUNE 14, 1892.]

LINCOLN, NEBRASKA.
U. S. A.
PREFATORY NOTE.

The importance to Nebraska botanical students of the paper entitled an "Appendix to the Catalogue of the Flora of Nebraska," prepared by Mr. Herbert J. Webber, M. A., formerly assistant in botany in the University of Nebraska, now assistant in the Shaw School of Botany, St. Louis, warrants its republication by the University. It was published originally in the Transactions of the Academy of Science of St. Louis (Vol. VI., No. 1, March 12, 1892.) The present edition differs from the first only in the correction of a few minor errors, and the rearrangement of the index.

In his preface to the first edition Mr. Webber explains that "the names of those reporting species follow in every case the name of the species reported as it occurs in the Appendix. The collector whose name follows the species, it must be understood, is to be taken as authority for its occurrence, as in many cases I have not had the opportunity to examine the specimens. Thus specimens here reported must be understood to be preserved in the herbaria of those reporting the species, or in the Herbarium of the University of Nebraska."

The "Supplementary List" (p. 45 et seq.) includes all the species of plants added since Mr. Webber's paper went to press. It consists mainly of the additions made by Mr. P. A. Rydberg, a graduate student, in his collecting tour through the western counties in the summer of 1891, with others made by members of the University Botanical department, and Dr. H. Hapeman of Minden, and Rev. J. M. Bates of Valentine.

Specimens of nearly all the species reported in both lists, are deposited in the University Herbarium.

It is hoped that the periodical publication of accessions to the flora of the state will stimulate botanical students to a closer study of our native plants, and encourage them to deposit specimens of newly discovered species in the University Herbarium. To this end correspondence is solicited by the Department of Botany.

Address, Department of Botany,
UNIVERSITY OF NEBRASKA,
LINCOLN, NEBR.

May 25, 1892
APPENDIX TO THE

CATALOGUE OF THE FLORA OF NEBRASKA.

BY H. J. WEBBER.

CORRECTIONS.

(The reference given, is in every case to the "reprints" of the Catalogue.

g. = genus; s. = species; l. = line.)

Page 37, l. 56, for foetidissima read foetidissima.

" 38, l. 28, for when read where.

" 39, l. 13, for at read as.

" 41, l. 22, Barns read Barnes.

" 41, l. 29, omit other.

" 41, l. 41, omit many.

" 42, s. 5, for flavo-fuscom read flavo-fuscum.

" 44, s. 29, for marina read marina.

" 44, l. 6, for diseases read diseases.

" 51, s. 165, l. 9, Aster ericoides should be Aster paniculatus.

" 54, s. 204, " " " " " "

" 62, s. 364, l. 1, for salicini read salicina.

" 67, s. 405, l. 32, for cundrical read cylindrical.

" 69, s. 418, The host Aster ericoides should be A. paniculatus.

" 71, s. 437, l. 2, for canadense read canadensis.

" 71, s. 450, for Enotera read Enotera.

" 74, s. 477, for Dittm. read Ditm.

" 76, The remark under sterile forms should be — Supposed to be stages of Ascomycetes and Basidiomycetes.

" 82, g. 205, for Periciaria read Periciaria.

" 83, s. 640, for Sporodesmium read Sporidesmium.

(As given by De Thuemen. Saccardo evidently unintentionally changes it to Sporodesmium.)

Also line 5, scirpiola read scirpicola.

" 87, Order 56, for Lycoperdaceae read Lycoperdaceae.

" 99, s. 952, for aristulatus read aristatus.

" 99, s. 956, for scheininitzei read schweininitzii.

" 122, s. 1342, for lanceolatus read lanceolata.

" 124, s. 1383, for stolonifer read stolonifera.

" 126, s. 1404, for sinuate read sinuata.

" 142, s. 1705, for rush read bush.

" 149, s. 1853, for serotina read serotina.

" 149, s. 1867, for eupatoriodes read eupatorioides.
NOTES ON SPECIES BEFORE REPORTED.

(The number preceding each, is the species number in the main Catalogue.)


414. Gymnosporangium macropus L. Stage II (Rastelia pirata Thaxter.) On leaves of Crab Apple (Pirus coronaria) Butler Co., and Lincoln (Bessey).

416. Phragmidium speciosum Fr. The specimens referred to Stage II of this species should be Stage I of Phragmidium subcorticium (Schrank) Wint. (See No. 81 of this paper).

520. Ascochyta smilacis Ell & Ev. should be of Ell. & Mart. or following Saccardo the nomenclature should be changed to Stegonospora smilacis (Ell. & Mart.) Sacc.

622. Ramularia virgaureae Thuem. On Solidago canadensis only, not on S. rigida and S. memorialis.

709. Podosporium rigidum Schw. On grape stems only, not on Physalis.

886. Woodsia oregana Eaton (Localities omitted in Cat.) Collected at Pine Ridge; Hat Creek Basin; Dismal River, Thomas Co. (Webber).


1197. Atriplex nuttallii Watson, is the prevailing Atriplex of N. W. Nebraska in the "Bad lands," etc., but is quite rare in the eastern part of the state where A. patula var. hastata is the common form. (Webber).

1218. **Arknaria pungens** Nutt. must probably be considered as *A. hookeri* Nutt. See this appendix No. 269. (Webber.)


1302. **Helianthus heptaphyllus** Ait. (Reported from Coulter's Manual). Exeter, Sept. communicated by Dr. Wibbe (Bessey).

1398. **Mentzelia nudiflora** Torr. & Gr. should be changed to *Mentzelia nuda* (Pursh) Torr. & Gr. It is the common *Mentzelia* of Nebraska. Mr. Rydberg adds the following note in regard to his specimens collected in Deuel and Banner counties: — "They agree in every respect with Torrey & Gray's description of *M. nuda* except that they have a bracteate calyx. In Porter and Coulters Fl. Col. *M. nuda* is described as having a bracteate calyx." (Webber).


1666. Gentiana calycosa Griseb. All of my Nebraska material of this species should be labeled G. puberula Michx. (Webber).

1738. Cnicus Pitcheri Torr. should be C. undulatus (Nutt.) Gray. var. canescens (Nutt.) Gray. (See this appendix No. 391.) (Webber).


   Erigeron glabellus Nutt. of Swezey's Nebr. Fl. Pl. p. 9 should be E. macranthus Nutt. (See this appendix No. 411)


The following tabulated list of new localities for Flowering Plants before reported was prepared by Mr. Rydberg from his collections. Some species are greatly extended in range, and some shown to be much more common than was supposed.

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PROTOPHYTA.

1. RETICULARIAEÆ.

1. RETICULARIA Bull.

2. CLATHROPTYCHIÆÆ.

2. ENTERIDIIUM Ehr.
   2. E. ROZERANUM (Rost.) Wingate. (*Reticularia [?] rozena Rost*). Lincoln (Webber).

3. STEMONITÆÆ.

3. STEMONITIS Gled.

4. PHYSARACEÆÆ.

4. PHYSARUM Pers.

5. BACTERIACEÆÆ.

5. BACILLUS Cohn.
   6. B. SORGHI Burrill. On leaves and culms of Bushy blue stem (*Andropogon nutans*), Lincoln; Johnson grass (*Andropogon sorghum var. halepensis*), Howard Co.; and on numerous varieties of *Sorghum* grown on the Nebraska Experimental Farm at Lincoln. Quite destructive, forming large irregular purple patches (Webber).

6. NOSTOCACEÆÆ.

6. GLOEOTRICHIÆ Ag.

7. LYNGBYA Ag. and Thur.
   8. L. CINCINNATA Kg. Minden. In material collected by Dr. Hapeman (Bessey).

8. CYLINDROSPERMUM Kg.
ZYGOPTA.

7. PALMELLACEÆ.

9. TETRASPORA Ag.
10. T. EXPLANATA (Kg.) Kirch. Minden. In material collected by Dr. Hapeman (Bessey).
10. SORASTRUM Kg.
11. S. SPINULOSUM Kg. Minden. In material collected by Dr. Hapeman (Woods).
11. HYDRODICTYON Roth.
12. PEDIASTRUM Meyen.
13. P. ANGULOSUM (Ehrb.) Menegh. (P. biradiatum Meyen). In material collected by Dr. Hapeman at Minden. (Woods).

8. PITHOPHORACEÆ.

13. PITHOPHORA Wittr.

9. ULOTHRICHACEÆ.

14. STIGEOCLONIUM Kg.
16. S. FASTIGIATUM Kg. Minden. In material collected by Dr. Hapeman (Bessey).
15. APHANOCHÆTE A. Br.
17. A. GLOBOSA (Nord.) Wolle. form. MINOR Nordst. growing on Nitella, in material from Minden collected by Dr. Hapeman. (Woods).

10. DESMIDIACEÆ.

16. DESMIDIUM Ag.
18. D. SWARTZII Ag. Minden. In material collected by Dr. Hapeman (Bessey).
17. SPHÆROZOSMA Corda.
19. P. SERRATUM Bailey. Minden. In material collected by Dr. Hapeman (Bessey).
18. SPIROTÆNIA Breb.
20. S. CONDENSATA Breb. In material from Minden, collected by Dr. Hapeman.
19. COSMARIAUM Corda.
20. XANTHIDIIUM Ehrb.
   22. X. FASCICULATUM (Ehrb.) Ralfs. In material from Minden, collected by Dr. Hapeman (Woods).
21. ARTHRODESUS Ehrb.
   23. A. OCTOCORNIS Ehrb. In material from Minden, collected by Dr. Hapeman (Woods).
22. EUASTRUM Ehrb.
   24. E. INERME Lund. In material from Minden, collected by Dr. Hapeman (Woods).
23. MICRAPTERIAS Ag.
   25. M. AMERICANA (Ehrb.) Kg. Minden, in material collected by Dr. Hapeman (Woods).
24. STAURASTRUM Meyen.
   27. S. ARISTIFERUM Ralfs. Minden. In material collected by Dr. Hapeman (Woods).

11. DIATOMACEÆ.

25. GOMPHONEMA.
   28. G. ACUMINATUM Ehrb. var. LATICEPS Ehrb. Minden. In material collected by Dr. Hapeman. (Bessey).

12. ENTOMOPHTHORACEÆ.

26. EMPUSA Cohn.

OOPHYTA.

13. CEDOGONIACEÆ.

27. CEDOGONIUM Lk.
   30. C. BORISIANUM (Le Cl.) Wittr. In material from Minden collected by Dr. Hapeman (Woods).
   31. C. DELICATUM Kg. Minden. In material collected by Dr. Hapeman (Bessey).
28. BULBOCHÆTAE Ag.
   32. B. POLYANDRA. Cleve. Minden. In material collected by Dr. Hapeman (Bessey).
14. PERONOSPORACEÆ.

29. PERONOSPORA Corda.

33. P. oxybaphi Ell. & Kell. On leaves and young shoots of Oxybaphus nyctagineus, causing much damage to the host. Elmwood, Ashland. June and July (Williams).

30. PLASMOPARA Schroet.


31. SCLEROSPORA Schroet.

35. S. graminicola (Sacc.) Schrot. (Peronospora graminicola Sacc.) On Green and Yellow fox-tail (Setaria viridis and S. glauca), Ashland, Weeping Water (Williams). Lincoln (Bessey).

32. CYSTOPUS Lev.

36. C. ipomoeae-panduranæ (Sacc.) Farlow. On leaves and petioles of Morning Glory (Ipomea Sp.) Richardson Co., Aug. (Webber); Ashland (Williams). Very destructive, variously twisting and distorting the leaves and petioles, finally causing them to drop off.

CARPOPHYTA.

15. COLEOCHAETACEÆ.

33. COLEOCHAETE Breb.

37. C. irregularis Pringsh. Minden. In material collected by Dr. Hapeman (Bessey).

38. C. orbicularis Pringsh. Minden. In material collected by Dr. Hapeman (Bessey).

16. ERYsipheæ.

39. E. graminis DC. Conidia stage (Oidium monilioides Link.) On leaves of Wild Rye (Elymus canadensis), Weeping Water (Williams).

The Oidium is the only stage frequently found here. I have frequently observed this at Lincoln on various grasses, but have never found the perithecia (Webber).

17. SPHÆRIACEÆ.

35. CHÆTOMIUM Kunze.


36. PHYSALOSPORA Niessl.

37. SPHERELLA Ces. & DeNot.
42. S. opuntle Ell. & Ev. On Cactus (*Opuntia missouriensis*), Weeping Water (Williams).

18. HYPOCREACEÆ.

38. NECTRIELLA Sacc.
43. N. vulrina (Cke.) Berl. & Vogl. On old decaying log, Lincoln (Webber).

19. DOTHIDIACEÆ.

39. PHYLLOCHORA Nitschke.

40. PLOWRIGHTIA Sacc.

20. HYSTERIACEÆ.

41. HYSTEROGRAPHIUM Corda.

21. CALICIACEÆ.

42. ACOLIUM Ach.

22. GRAPHIDIACEÆ.

43. ARTHONIA (Ach.) Nyl.

44. OPEGRAPHA (Humb.) Ach. Nyl.

23. LECIDEACEÆ.

45. BUELLIA De Not., Tuckerm.

46. LECIDEA (Ach., Fr.) Tuckerm.

47. BIATORA, Fr.

48. **CLADONIA** Hoffm.

54. **C. BOTRYTIS** (Hag.) Hoffm. Rotten Pine log. War Bonnet canon, N. W. Nebraska. (Williams).

55. **C. CARIOCA** (Ach.) Spreng. On ground under trees on bluffs and in damp places, very common. Pine Ridge, Aug.; Dismal River, Thomas Co., July (Webber); War Bonnet canon (Williams).

24. **PARMEliAC.E.E.**


64. **P. TILICABAI** (Hoffm.) Floerk. var. **SEBLAEIVIGATA** Nyl. On trees. Peru, Weeping Water (Williams).

52. **COLLEMA** Hoffm., Fr.

55. **PARMELIA** (Ach.) De Not.

68. **P. MOLLiUSCULA** Ach. On dry sterile soil, abundant. War Bonnet Canon, Harrison (Williams), Pine Ridge, Crawford (Webber).

25. PEZIZACEÆ.

PEZIZA Fuckel.

70. P. HEMISPHERICA Wigg. Manure etc., Wabash (Williams).

26. UREDINEÆ

URIDINIES Link.


MELAMPSORA Cast.

73. M. LINI (DC.) Tul. On Wild-flax (Linum perenne var levisiti), Hat Creek Basin; Wild-flax (Linum rigidum), Weeping Water. Very destructive especially on the latter host. (Williams).

PUCCINIA Pers.


75. P. FUSCA Reihan. On Anemone, Ashland (Williams).

76. P. HYDROPHYLLE Peck & Cke. On leaves of Water leaf (Hydrophyllum virginicum) Sarpy Co. (Pound.)

77. P. MIRABILISSIMA Peck. II & III. On Barberry (Berberis repens), Belmont, July 24. The telentospores are rarely found. In my Nebraska material I found but two. They, however, agree and compare well. (Webber).

78. P. SANICULÆ Grev. On Black snake root (Sanicula canadensis), Ashland (Williams).

79. P. SCIRPI DC. III On Bull-rush (Scirpus sp.), Lincoln, April (Webber).

80. P. SMILACIS Schw. On Greenbrier (Smilax hispida), Ashland. Abundant, causing the leaves to turn yellow and fall off (Williams).

PHRAGMIDIIUM Link.

81. P. SUBCORTICUM (Schrauk.) Wint. Stage I on Rose (Rosa arkansana), Milford, May, 86; (Webber). Cultivated Rose (Rosa sp.), Lincoln, May (Webber). Weeping Water and Ashland (Williams).

This includes the specimens referred to stage II of P. speciosum (No. 416) in the catalogue, but does not include those of stage III.

82. A. CALLIRRHOKS Ell. & Kell. On Malva sp. Ashland (Williams).
83. A. MICROPUNCTUM E. & E. On Painted cup (Castilleja sessiliflora Pursh), Belmont, June 17. Quite destructive. (Williams.)

62. UREDO Pers.

84. U. RIRICOLA C. & E. On leaves of Buffalo or Missouri currant (Ribes aureum), Collected by Dr. Thomas in Scott's Bluff County. Although determined to be a Uredo by Messrs. Cooke and Ellis (Grevillea VI, p. 86) and also by Peck who named it Uredo jonesii (Torr. Bull. XII, p. 36) it seems more like a Coleosporium, which it will probably turn out to be. All attempts at germinating the spores have thus far failed (Bessey).

27. USTILAGINEÆ.

63. USTILAGO Pers.

85. U. CARCIS (Pers.) Fckl. On Sedge (Carex filifolia) Sioux Co. June. Very plentiful, destroying the ovaries of nearly all the host plants in that vicinity. (Williams).


On flower spikes in the sheath, completely destroying them (spores brown, echinulate, round ellipsoid or angular, 7-12 by 8-13 m. m.). (Williams).

64. UROCYSTIS Rabenh.


28. EXOASCEÆ.

65. EXOASCUS Fuckel.


29. SACCHAROMYCETES.

66. SACCHAROMYCETES Meyen.

89. S. MYCODERMA Reess. Lincoln (Pound).

30. SPHÆRIOIDEÆ.

67. PHYLLOSTICTA Pers.

90. P. CORNI West. On Red osier dogwood (Cornus stolonifera), Belmont, July (Webber.)

91. P. CRUENTA (Fr.) Kx. On False Solomon's seal (Smilacina stellata), Ashland (Williams); False Solomon's seal (S. amplexicaulis), New Helena, Custer Co., July 6. Frequently quite destructive. (Webber.)
94. P. SOROTINA Cooke. On cherry (Prunus serotina?), Richardson Co., Aug. 25. Quite destructive in the locality where the specimens were collected. (Webber).

68. VERMICULARIA Fr.
96. V. LILIACEARUM Schw. On wild garlic (Allium canadense), Ashland (Williams).

98. S. CEPHALANTHII Ell. & Kell. On leaves of Button bush (Cephalanthus occidentalis), West Point (Williams).
101. S. RHINA B. & C. On Sumach. (Rhus glabra), Nebraska City, June 1; Common, (Webber). Ashland and Weeping Water (Williams).

70. Rhabdosphora Mont.

31. LEPTOSTROMACEÆ.

103. L. SCRIPINUM Fr. On dead leaves of Riverrush (Scurpus Aviatilis), Weeping Water. (Williams.)

32. MELANCONIEÆ.

72. GLEOSPORIUM Desm. & Mont.

73. COLLETOTRICHUM Corda.
105. C. LINOLA Corda. On leaves and culms of False red-top (Eragrostis pratnacea), Roca., Sept 22; Sand-bur (Cenchrus tribuloides), Lincoln Oct. 3, (Webber).

74. MELANCONIUM Link.
33. **MUCEDINEÆ.**

75. **BOTRYTIS** Mich.


76. **RAMULARIA** Ung.


77. **STACHYBOTrys** Corda.


34. **DEMATIEÆ.**

78. **CERATOPHORUM** Sacc.


79. **HELMINTHOSPORIUM** Link.


80. **CERCOSPORA** Fries.


117. *C. dubia* (Rees) Wint. (*C. chenopodii* Fr.)

On Pigweed or goose-foot (*Chenopodium album*), Pine Ridge, July 29 (Webber).


120. *C. gymnocladus* Ell. & Kell. On leaves of Kentucky Coffee tree (*Gymnocladus canadensis*), very common, Ashland (Williams); Richardson Co., Aug. (Webber).


122. *C. sagittarile* Ell. & Kell. On Arrow-head (*Sagittaria variabilis*), Weeping Water. (Williams.)
123. C. symphoricarpi Ell. & Ev. On Indian Currant (Symphoricarpus vulgaris), Rock Creek, July (Williams.)


35. STILBÆÆ.

81. ISARIA Pers.

125. I. sulphurea Fiedl. On ground, Lincoln. (Webber).

36. NIDULARIÆÆ.

82. CYATHUS Hall.


37. LYCOPERDÆÆ.

83. GEASTER Mich.


84. BOVISTA Dill.

128. B. subterranea Peck. Dismal River, Thomas Co., and Pine Ridge. Very common in Central and Western regions. This species is thought by many mycologists to be identical with B. circumscissa, B. & C. (No. 785 of the catalogue). De Toni, (in Sacc. Syl. Fung.) keeps them distinct. Mr. Morgan says he can easily distinguish between the two in the Nebraska material sent him, which, to my certain knowledge, was collected in similar localities. For this reason I insert the species here, although, it is probably nothing more than a form of B. circumscissa B. & C. (Webber).

85. LYCOPERDON Tourn.

129. L. curtisii Berk. Lincoln. (Webber).


86. ARACHNION Schw.


38. AGARICÆÆ.

87. LEPITOTA Fr.


88. ARMILLARIA Fr.


89. TRICHOLOMA Fr.

 Catalogue of the Flora of Nebraska.  

90. CLITOCYBE Fr.

135. C. INFUNDIBULIFORMIS Schaeff. Ashland, rare (Williams).

91. COLLYBIA Fr.


92. PLEUROTUS Fr.


93. LENTINUS Fr.


94. PLUTEUS Fr.


95. ENTOLOMA Fr.

140. E. RHODOPOLIUM Fr. Moist woods. Ashland (Williams).

96. PHOLIOTA Fr.


97. HYPHOLOMA Fr.


39. POLYPORÆ.

98. POLYPORUS Mich.

143. P. ELEGANS (Bull.) Fr. On old wood, Lincoln. A very pretty species with somewhat eccentric stipe about 1½ in. long, thick pileus, and decurrent hymenium. Rare. (Webber).

40. HYDNEÆ.

99. HYDNUM L.

144. H. CIRRATUM Pers. On old stump, Lincoln, June. Mr. Ellis writes—"Rare, I have it also from Iowa and New York." My only specimens were sent to Mr. Ellis for determination hence are in Herb. Ellis.

Hymenium with very long coarse teeth, blue brown. (Webber).

100. IRPEX Fr.

145. I. OBLIQUE (Schrad.) Fr. On dead limbs of Elm, Ashland (Williams).

41. THELEPHOREÆ.

101. STEREUM Pers.

146. S. NEGLECTUM Fr. (Rep. 33 p. 22.) On bark of trees, common. Lincoln (Webber).
102. PTERULA Fr.

147. P. MULTIFIDA Fr. On decaying leaves at bases of trees in heavy timber, rare. Wabash (Williams).

108. GUEPINA Fr.


43. TREMELLINAÆ.

104. CHARA (Vaill.) Leonh.

149. C. CONTRARIA A. Br. Flowing or standing water and cold springy lakes. Fremont, July (Williams).


105. NITELLA Ag.

151. N. ACUMINATA A. Br. var. GLOMERATA A. Br. Ponds near Lincoln (Bessey).

152. N. FLEXILIS Ag. Ponds near Minden. In material collected by Dr. Happeman (Bessey).

153. N. MUCRONATA A. Br. Ponds near Minden. In material collected by Dr. Happeman (Bessey).

BRYOPHYTA.

45. BRYACEÆ.

106. GYMNOSTOMUM Hedw.


107. DICRANELLA Schimp.


108. DESMATODON Brid.


109. BARBULA. Hedwig.

110. BRYUM Dill.
  159. B. cespiticium L. Earth, Weeping Water (Williams).

111. ATRICHUM Beauv.

112. POLYTRICHUM L.

113. HYPNUM Dill.
  163. H. fluviatile Swartz. West Nebraska (Webber).
  165. H. rutabulum L. var. longisetum Brid. Wet dripping banks and rocks, Ashland, April (Williams).
  166. H. serrulatum Hedw. On ground. Peru, March; Nebraska City, June (Webber).

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PTERIDOPHYTA.

46. MARSILIACEE.

114. MARSILIA L.
  167. M. vestita Hook. & Grev. In ponds in many places in the State; Fairmont, Bradshaw, Minden, Geneva. Apparently not occurring east of the Blue River. The Fairmont specimens collected in 1890 agree with the variety tenuifolia in the hairiness, and shape of the leaflets, but nearly all the specimens collected this year (1891) fully agree with the specific characters of M. vestita. A few specimens were received which were more hairy, and whose leaflets were narrower, but upon investigation these were found to be terrestrial forms. In some cases these tenuifolia-like forms were connected directly with the larger smooth and broad leaved aquatic forms. The season of 1890 was a very dry one which probably accounts for the small size of the plants and the hairiness and narrow growth of the leaflets (Bessey).

47. FILICES.

115. CHEILANTHES Swz. Lip-fern.
ANTHOPHYTA.

48. NAIADACEÆ.

116. NAIAS L. Naiad.


117. RUPPIA L. Ditch grass.

120. R. OCCIDENTALIS Watson. In Grand Lake (brackish water), abundant. Alliance Aug. 6. This is the form mentioned in the Catalogue under *Ruppiia maritima* as probably belonging to the foreign variety *pedunculata* Hart. Mr. Morong writes: "There can be no doubt that the specimens sent me are *R. occidentalis* Watson, but with some differences. The leaves are somewhat shorter, the peduncles much longer and the fruit somewhat smaller. This form has not hitherto been found this side of Canada." (Webber.)

118. POTAMOGETON L. Pond weed.


123. P. OAKESIANUS Robbins. In pond, Thedford, Thomas Co., July 11. A rare find. Mr. Morong writes — "It is the first time I have ever known this species to occur so far west. The most westerly locality known for it hitherto has been the Adirondack region in New York." (Webber.)


125. P. SPIRILLUS Tuckerm. Lincoln, July (Webber).

126. P. ZOSTERÆFOLIUS Schum. Springy Lakes. Fremont, July; Greeley Center, July (Williams).

49. HYDROCHARIDACEÆ.

119. ELODEA Michx. Water-weed.


50. ALISMACEÆ.

120. SAGITTARIA L. Arrow head.


51. TYPHACEÆ.

121. TYPHA L. Cat-tail flag.


52. CYPERACEÆ.

122. CAREX L. Sedge.


188. C. gravida Bailey, var. laxifolia Bailey. Broken Bow, July 4 (Webber).

189. C. laxiflora Lam. var. varians Bailey. Nebraska City, June 1 (Webber).


192. C. pennsylvanica Lam. Crete, common (Swezey).


194. C. squarrosa L. Lincoln (Webber).

195. C. stipata Muhl. Low prairies, common, Crete (Swezey), Thedford, July 10, Anselmo, July 5 (Webber).

196. C. straminea Schkr. var. brevior Dewey. Elmwood, June (Williams); Anselmo, Custer Co., July (Webber).

197. C. tetanica Schkr. Ashland, May (Williams).


123. **HEMICARPHE** Nees.


124. **ERIOPHORUM** L. Cotton grass.

201. **E. gracile** Koch. Collected at Minden by Dr. Hapeman (Bessey).

125. **FIMBRISTYLIS** Vahl.


126. **HELEOCHARIS** R. Br.


127. **DULICHIUM** Pers.


128. **CYPERUS** L.


211. **C. strigosus** L. Ravenna, Brewster, Long Pine (Swezey).

53. **GRAMINEÆ**

129. **ASPRELLA** Willd.


130. **ELYMUS** L. Wild Rye.


131. **AGROPYRUM** Gaertn. Wheat grass.

214. **A. dasystachyum** Vasey. Banks in thin woodlands; War Bonnet, June, 23. Rare (Williams).
132. BROMUS L.  Brome grass.

133. GLYCERIA R. Br.  Manna grass.
   216. G. PALLIDA (Eddy) Trin. Wet places at margins of streams.
       War Bonnet, June 23. Rare (Williams).

134. POA L.  Meadow grass.
   217. P. ALSODES Gray. Woods on hillsides. War Bonnet, June
       (Williams).
   218. P. NEVADENSIS Vasey. Woods in War Bonnet cañon near
       edges of stream, June 21 (Williams).
   219. P. SYLVESTRIS Gray. Edges of woods, War Bonnet, June 23
       (Williams).

135. DIPLACHNE Beauv.
   220. D. FASCICULARIS (Lam.) Beauv. Collected in Minden by Dr.
       Hapeman and in Rock Co., by Rev. Bates (Bessey). Greenwood
       (Williams).

136. AVENA L.  Oats.
   221. A. STRIATA Michx. Wild oats. War Bonnet, June (Williams).

137. ARISTIDA L.  Triple-awned grass.
   222. A. TUBERCULOSA Nutt. Collected at Minden by Dr. Hapeman
       (Bessey).

138. PANICUM L.  Panic-grass.
   223. P. WILCOXIANUM Vasey. Prairies Ft. Niobrara. First collected
       by Dr. T. E. Wilcox, the post surgeon, and by him submitted to
       Dr. Vasey who described it as new in Bull. 8, U. S. Dept. Agricult-
       ure (Botanical Division) 1889, p. 32.
       It is very near Panicum scoparium Lam. if indeed it is not a
       depauperate form of it (Bessey).

54. JUNCACEAE.

139. JUNCUS Tourne.  Rush, Bog-rush.
   224. J. BALTICUS Dethard var. MONTANUS Engelm. Alliance
       (Swezy). Broken Bow, July 4; Thedford, July 15 (Webber).
   225. J. BUFONIUS L. Sandy ground, not uncommon. Lawrence Fork,
       Banner Co., Aug. (Rydberg). Broken Bow, July 4; Thedford,
       July 12 (Webber).
   226. J. MARGINATUS Rostk. var. PAUCICAPITATUS Engelm. Brewster
       (Swezy).
   227. J. NODOSUS L. Low prairies and edges of streams, very com-
       mon. Thedford, Thomas Co., July 14; Anselmo, July 6 (Webber).
       Long Pine (Swezy).
   228. J. TENUS Willd. var. SECUNDUS Engelm. Long Pine (Swezy).
55. LILIACEÆ.

140. CALOCHORTUS Pursh.

141. FRITILLARIA L.

142. POLYGONATUM Adams. Solomon's seal.

143. SMILAX L. Greenbrier, Catbrier.

56. IRIDACEÆ.

144. IRIS L. Iris, Flag.

57. PONTEDERIACEÆ.

145. HETERANTHERA Ruiz & Pav. Mud plantain.

58. ORCHIDACEÆ.

146. HABENARIA Willd. Rein orchis.

147. SPIRANTHES L. Ladies' tresses.


238. C. MULTIFLORA Nutt. More common than the preceding species. Same locality (Williams).

59. CUPULIFERÆ.

149. BETULA L. Birch.
60. JUGLANDACEÆ.

150. HICORIA Raf. Hickory.

240. H. sulcata (Willd.) Britt. Richardson Co. (Bessey).

61. SALICACEÆ.

151. SALIX L. Willow, Osier.


242. S. tristis Alt. Dwarf gray willow. Anselmo, Custer Co., July. Mr. Bebb writes: "This is the most westerly locality of this species known to me." (Webber). Long Pine (Bates).

62. CERATOPHYLLEÆ.

152. CERATOPHYLLUM L. Honewort.


63. POLYGONACEÆ.

153. RUMEX L. Dock, Sorrel.

244. R. britannica L. Long Pine (Swezey).

154. POLYGONUM L. Knotweed, Smartweed.


246. P. lapathifolium L. Belmont (Swezey).

247. P. lapathifolium L. var. incarnatum (Ell.) Watson. Lawrence Fork, July 8 (Ryderberg).


155. ERIOGONUM Michx.

249. E. annuum Nutt. f. —. Sand hills Kearney Co. (Ryderberg). Ewing (Bessey).

Of the E. annuum type but differing in size, being larger (2–3 ft.); naked above; leaves lanceolate, 2–2½ in. long, ½ in. wide, the upper nearly sessile; bracts triangular; flowers larger than those of E. annuum; the dense appressed wooliness turning yellowish on the branches (Ryderberg).


251. E. cernuum Nutt. Court House Rock, July 4; Wild Cat Mountains, Banner Co., July 16; Scott's Bluff, July 25; hills near Kimball, Aug. 12; near Sidney, Aug. 16 (Ryderberg).

64. **CHENOPODIACEÆ.**  

156. *SUÆBA* Forskål.  
Sea blite.  
Salt Creek Basin N. W. of Lincoln (Ryder). Differs from *S. linearis* (Ell.) Torr. in having the leaves broadest at the base and one or more of the calyx lobes strongly carinate.  

A white tomentose undershrub of the aspect of an *Artemisia*. The margins of the leaves are revolute, which separates it at a glance from *Artemisia cana* which it otherwise resembles. It is known under the name of “White sage.”  
In Coulter's Manual *Eurolia* is described as dioecious. Watson in his “Revision of N. A. Chenopodiaceæ,” states that it is sometimes monoecious, which is the case with all specimens found here (Ryder).  

158. **ATRIPLEX** L.  
257. *A. hortensis* L. Escaped along roads, etc. Hastings, Aug. 2 (Webber).  

159. **MONOLEPIS** Schrad.  

160. **CHENOPODIUM** L. Pigweed, Goosefoot.  
259. *C. boscianum* Moq. Long Pine, Belmont (?) (Swezey); Bennett, Aug. (Webber).  
260. *C. fremontii* Watson. Collected by Rev. Bates at Alliance (Ryder); Belmont (Swezey); Anselmo (Webber).  
Sandy soil, Kearney Co. (Ryder). Thedford and Anselmo, July (Webber).


65. AMARANTACEE.

161. FRELICHA Moench.


66. CARYOPHYLLACE.

(Including Illecebraceae.)

162. CERASTIUM L. Mouse-ear, Chickweed.

266. C. ARVENSE L. Collected by Rev. Bates at Ft. Robinson (Bessey). War Bonnet Cañon (Williams).

267. C. VULGATUM L. Crete. (Swezey.)

163. STELLARIA L. Chickweed.


164. ARENARIA L. Sandwort.


Dr. Britton after comparison with Nuttall's type of this species refers to it all of my specimens reported in the catalogue as Arenaria pungens (Catalogue No. 1213).

Mr. Rydberg has sent me specimens of an Arenaria from the cliffs of a cañon in Banner Co., labeled A. franklini Dougl. var. minor Hook. & Arn. that is probably to be referred here also (Webber).

264. LOEFLINGIA L.

270. L. squarroso Nutt. High rocky prairies, Belmont, July 18. (Determined by Dr. Britton).

This is a very northerly locality for this plant, its usual range being from Southern California to Texas (Webber).

165. LYCHNIS L. Cockle.


166. SILENE L. Catchfly, Campion.  
167. SAPONARIA L. Soap-wort, Bouncing Bet.  
275. S. VACCARIA L. Crete (Swezey).  

67. FICOIDEÆ.  

(Luerssen places this under the family Aizoaceæ.)  
169. MOLLUGO L. Indian chickweed.  

68. BERBERIDACEÆ.  

69. RANUNCULACEÆ.  
171. DELPHININIUM L. Larkspur.  
172. RANUNCULUS L. Buttercup, Crowfoot.  

70. CRUCIFERÆ.  
173. THELYPODIUM Endl.  
283. E. ASPERUM DC. Sandy hills in Deuel Co., July. Collected also by Rev. Bates at Valentine. Pods widely spreading. Large specimens were observed to roll before the wind, thus adding another "Tumble weed" to the already long list (Rydberg).  
175. PHYSARIA Nutt.  
176. LESQUERELLA Watson.

This is quite a northern extension of its range. It may have been introduced through the agency of the R.R., being found only in this one place. It was, however, abundant and evidently spreading (Webber).

177. CARDAMINE L. Bitter cress.
287. C. LACINIATA (Muhl.) Wood. (Dentaria laciniata Muhl.) Peru. Communicated by Mr. A. H. Van Fleet (Bessey).

178. ARABIS L. Rock cress.
288. A. DENTATA (Torr.) Torr. & Gr. Low ground, rare. Lincoln, April (Webber).

179. NASTURTIIUM R. Br. Water cress.
291. N. OBTSUM. Nutt. Ft. Clark, Nebraska (Hayden in Engelmann Herb.), Crete (Swezey), Minden (Hapeman), Big Springs (Rydberg).

Prof. Swezey's specimens differ somewhat from typical N. obtusum, being less diffusely spreading and branched, approaching likely nearer N. sinuatum. Hayden's specimens seem typical (Webber).
292. N. PALUSTRE (L.) DC. var. OVALE M. In mud, Sand Creek, Wahoo, Sept.

A small plant with the leaves entire, obovate or oval, crenate or with a pair or two of small lobes at the base; pod oval. (Rydberg.)

71. CAPPARIDACEÆ.

180. CRISTATELLA Nutt.
72. HYPERICACEÆ.

181. HYPERICUM L.  St. John's-wort.


73. GERANIACEÆ.

182. ERODIUM L' Her.  Storksbill.


74. LINACEÆ.

183. LINUM L.  Flax.

300. L. rigidum Pursh.  Prairie flax.  Very common on the prairies of central and western Nebraska. Superior, Brewster, Long Pine, Lewellen (Swezey); Denel Co., July (Rydberg); Thedford, July 14; Anselmo, July; Broken Bow, July; Belmont, Aug. (Webber).

A form collected at Hat Creek Basin Aug. 2, Prof. Trelease notes as having the habit of var. puberulum Engelm. (Webber).


75. SAPINDACEÆ.

184. ESCULUS L.  Horse-chestnut, Buckeye.

302. A. glabra Willd.  Richardson and Pawnee counties (Bessey).

76. EUPHORBIACEÆ.

185. EUPHORBIA L.  Spurge.

303. E. cuphosperma (Engelm.) Boiss.  A few specimens collected Aug., 1890, in a cænon running north from Lawrence Fork, Banner Co.

Leaves lance linear, entire or with a few teeth on the revolute margin. Seeds short, triangular, truncate at the base, wrinkled and tuberculate, with a minute caruncle. Belongs to the E. heterophylla group (Rydberg).


The seeds are described in Coulters Manual as irregularly punctate. In the original description in Pacific R. R. Rep. it reads "a little rugose transversely," which agrees with Nebraska specimens (Rydberg).
Catalogue of the Flora of Nebraska.


77. **UMBELLIFERÆ.**

186. *BERULA* Koch.

306. *B. angustifolia* (L.) Koch. In water, Hackberry Springs, Banner Co., Aug. (Rydberg); Long Pine, Lewellen, Belmont (Swezey); Anselmo, Thedford, July-Aug. (Webber).

187. **CYMOPERAUS Raf.**


188. **PASTINACA L.** Parsnip.


78. **ARALIACEÆ.**


79. **SAXIFRAGACEÆ.**

190. *RIBES L.* Currant, Gooseberry.

310. *R. gracile* Michx. Wild gooseberry. Saunders Co. This is the common wild gooseberry of Saunders Co., and Eastern Nebraska. It differs from *R. rotundifolium* Michx. in having long and slender peduncles, and capillary filaments 4-6" long. The majority of Nebraska specimens referred to *R. rotundifolium* Michx. likely belong here (Rydberg).

80. **CACTACEÆ.**

191. *OPUNTIA* Tourn.


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81. **ONAGRACEÆ.**


315. *Œ. speciosa* Nutt. Lincoln, probably an escape from cultivation (Bessey).
193. EPILOBIUM L. Willow herb.
194. POTENTILLA L. Five-finger.
196. AMPHICARPÆA Ell.
197. LATHYRUS L.
198. ASTRAGALUS L. Rattle-weed.
199. PETALOSTEMON Michx. Prairie clover.


82. ROSACEÆ.

P. ANSKRINA L. Silver-weed. Lewellen (Swezey).

P. RIVALIS Nutt. var. PENTANDRA (Engelm.) Watson. Wabash, July (Williams).

P. supina L. Omaha, Lewellen (Swezey).

83. LEGUMINOSÆ.


Leaflets larger than in A. comosa; rachis villous; bracts large, silky canescent; upper flowers commonly fertile (Rydberg).

L. ornatus Nutt. Differs from L. polymorphus in having linear lanceolate leaves and the seed with a broad stalk and long hilum Pierce, Ft. Robinson (Herb. Univ. of Nebr.), Phelps Co., Fremont (Rydberg).

A light yellow form of L. ornatus Nutt. is also sometimes found, Collected by Miss H. G. Wilkinson at Gordon. Fremont (Rydberg).

A. PICTUS Gray. var. FILIFOLIUS Gray. Lewellen, rare; Alliance (Swezey). Collected by Rev. Bates at Valentine (Rydberg).

P. compactus (Spreng.) Swezey. (P. macrostachyus Torr.) Lewellen (Swezey).


Low, branching from below, decumbent; leaflets 1-2 pairs,
linear-diliform, revolute; bracts ovate, densely villous, as is also the calyx, with grayish, slightly tawny hairs (Rydberg).

327. P. sp.—- P. candidus var. occidentalis Gr. of Pringle's collection, according to Dr. Britton. It is, however, clearly no variety of P. candidus, but may be of P. gracilis, Nutt., of the south, to which it is nearly related. It differs from P. gracilis in having more oblong leaves, longer more lax spikes, and glandular dotted calyx. Dr. Britton says if distinct from P. gracilis it is clearly a distinct species (Rydberg).

200. PSORALEA L. Psoralea.

228. P. DIGITATA Nutt. Aurora (Williams). Much confounded with P. campestris. Specimens in the Herb. of Univ. of Nebr. collected at Anselmo by Webber and at Valentine by Rev. Bates, evidently belong here. Nebraska specimens collected by Dr. Bessey, have been referred to P. digitata by Dr. Britton (Rydberg).

229. P. FLOREIBUNDA Nutt. This species, I think, should not be merged into P. tenuiflora Pursh. It is either a distinct species or a well marked variety. P. floribunda Nutt. found in eastern Nebraska has generally 5 oblong leaflets, 1-1 1/2 in. long; many flowered racemes; lower calyx teeth longer; and larger flowers. P. tenuiflora Pursh, of western Nebraska, has 3 oblong-ob lanceolate leaflets, 1/2-3 in. long; few flowered racemes; and punctate, colored calyx with equal teeth. Dr. Britton, to whom specimens and my notes upon them have been sent says: "I had concluded that P. floribunda could not go unnoticed into P. tenuiflora." The matter needs more investigation. Most of the localities for P. tenuiflora in the catalogue of Nebr. Flora belong to P. floribunda. The only specimens of the true P. tenuiflora I have seen are those collected by Dr. Bessey, at Ft. Robinson, and my own, from the plains of Deuel Co., Aug. 1890 (Rydberg).


331. P. LINEARIFOLIA Torr. & Gr. Magnesia cliffs in Deuel Co., July. Racemes very loose, 3-6 in. long; leaflets 3, linear, 1-2 in. long; stem, leaves, and calyx glandular dotted (Rydberg).

201. TRIFOLIUM L. Clover, Trefoil.


202. LUPINUS L. Lupine.

333. L. ARGENTEUS Pursh var. ARGOPYLLUS Watson. Prairies, rare. War Bonnet, June (Williams).


36

H. J. Webber —

84.ERICACEÆ.

203. MONOTROPA L. Indian pipe, Corpse-plant.


204. PYROLA Tourn. Wintergreen, Shin-leaf.

337. P. CHLORANTHA Sw. Damp dark wooded canons, rare. War Bonnet, June (Williams).


205. ARCTOSTAPHYLOS Adams. Bearberry.

339. A. UVA-URSI (L.) Spreng. In a cañon near Anselmo, Custer County. The occurrence of this plant in the center of the state, hundreds of miles from any of its known stations, adds another puzzle to the many connected with the geographical distribution of the plants of the plains. It is known to occur in the Black Hills of South Dakota and the Rocky Mountains in Wyoming and Colorado. In Minnesota it is found near Pepin; it is absent from Iowa, while in Missouri it is confined to the southeastern part. It is doubtfully reported as occurring in Kansas. That it should be found in Central Nebraska is certainly unexpected (Bessey).

85. PRIMULACEÆ.

206. CENTUNCULUS Dill. Chaffweed.

340. C. MINIMUS L. Fairfield (Swetz).

207. LYSIMACHIA Tourn. Loosestrife.

341. L. THYRSIFLORA L. Tufted loosestrife. Collected by Rev. Bates at Valentine, June (Ryderberg); Lewellen (Swetz); Platte River near Doniphan, May (Harvey Thompson).

208. DODECATHEON L. American cowslip.


86. CONVOLVULACEÆ.

209. CUSCUTA L. Dodder, Love-vine.

343. C. TENUIFLORA Engelm. Crete, on Salix (Swetz).

210. CONVOLVULUS L. Bindweed.


87. POLEMONIACEÆ.


346. G. LINEARIS (Nutt.) Gray. Sides of cañon, Squaw Creek, June
Catalogue of the Flora of Nebraska.


348. G. fungens Benth. var. caespitosa Gray. Hills in Kiwa Valley, July 22; Scott's Bluff, July 25 (Rydberg).

88. HYDROPHYLLACEÆ.

212. PHACELIA Juss.


Very Krynitzkia like in appearance. Venation prominent above and below, leaf pinnately and obliquely straight veined. Lower leaves seldom with lateral leaflets in Nebraska specimens (Webber).

89. BORRAGINACEÆ.

213. LITHOSPERMUM L. Gromwell, Puccoon.

350. L. latifolium Michx. Superior (Swezey).

351. L. pilosum Nutt. War Bonnet, June (Williams).

214. MERTENSIA Roth.

352. M. lanceolata (Pursch) DC. Wooded canons. War Bonnet, June (Williams).

(Prof. Swezey's specimens from Lewellen and Chadron referred to this species, Nebr. Flowering Plants, p. 11, must be considered as belonging to Pentstemon corvus Nutt.—Webber.)


354. O. fulvovincens (Gray) Greene, l. c. (Krynitzkia fulvovincens Gray). Dry sterile places, War Bonnet, June (Williams); Hat Creek Basin, Aug. (Webber).

355. O. suffruticoso (Torr.) Greene, l. c. (Ertrichium jamesi Torr. Krynitzkia jamesii (Torr.) Gray). Quite common in the western part of the state. Alliance (Swezey); Denel Co.; Lawrence
H. J. Webber —

Fork, Banner Co., Aug. (Rydberg); Harrison (Bates); Belmont, July; Hat Creek Basin, Aug. (Webber).

217. ECHINOSPERMUM Swartz. Stickseed.


357. E. FLORIBUNDUM Lehm. Lawrence Fork, Banner Co., July 17 (Rydberg).

90. SOLANACEÆ.

218. PHYSALIS L. Ground cherry.


Mr. Rydberg has noted two forms or varieties of Physalis belonging to the lanceolata group but differing enough from P. lanceolata to be distinct. I give below his descriptions in brief:—

No. 1. Glabrous or minutely hirsute on the calyx and the angles of the stems, erect, branched above; corolla yellowish with darker spot, only 5-7 lines across; anthers yellow; fruiting calyx inversely pear shaped; fruit greenish yellow; leaves lanceolate, sparingly toothed. "Sand draws," Deuel and Banner Co.'s July, 1890 (Rydberg).

No. 2. Slender, ascending; leaves oblong, lanceolate to oblanceolate, entire; calyx hispid; corolla, anthers, and fruit like the preceding; fruiting calyx globose. Near Pumpkin Seed Creek, Banner Co., Aug. 1890 (Rydberg).

91. SCROPHULARIACEÆ.

219. PEDICULARIS L. Louse wort.


220. GERARDIA L. Gerardia.


221. LIMOSELLA L. Mudwort.

362. L. AQUATICA L. Spring in Deuel Co., June 27 (Rydberg).

222. MIMULUS L. Monkey flower.

363. M. LUTEUS L. Lewellen (Swezey).


This includes *Pentstemon glaber* Pursh var *utahensis* Watson, of Swezey's Nebr. Fl. Plants, p. 12; from Lewellen.

The habit is rather peculiar, growing as it does in very loose sandy places, the sand blowing here and there frequently banking up around it, modifies leaves and stems already formed. It is usually ascending, the lower portion of the stem running for some distance under the loose sand with no modification except a reduction of the leaves from lanceolate to linear and finally to filiform, or to mere scales. Many of the linear ones are quite long and expand somewhat above if the surface is reached (Webber).

92. **OROBANCHACEÆ**.


93. **LABIATÆ**.

225. **STACHYS** L. Hedge-nettle.


367. **S. PALUSTRIS** L. Collected by Rev. Bates at Valentine (Rydberg); Kearney, June (Webber).

226. **PHYSOSTEGIA** Benth. False dragon-head.

368. **P. PARVIFLORA** Nutt. Spring near Horse Creek, Scott's Bluff Co. Aug. 1 (Rydberg).

227. **SCUTELLARIA** L. Skullcap.

369. **S. GALENICULATA** L. Lewellen (Swezey). Spring, near Horse Creek, Scott's Bluff Co., Aug. 1 (Rydberg).

228. **MONARDA** L. Horse-mint.


229. **SALVIA** L. Sage.

371. **S. AZUREA** Lam. var. **GANDIFLORA** Benth. Crete (Swezey).

230. **MENTHA** L. Mint.


94. VERBENACEÆ.

231. VERBENA L. Vervain.

374. V. bracteosa x hastata. In a pasture 1 mile W. of Mead, Saunders Co., in June, 1890, there were found a few specimens of a Verbena, which undoubtedly is a hybrid between V. bracteosa Michx. and V. hastata L. The specimens are of the size and general appearance of V. hastata, but branched from the base and ascending. The leaves are of the size of those of V. hastata but more divided like those of V. bracteosa. The bracts are like those of the latter. Dr. Engelmann mentions several Verbena hybrids but not this (Rydberg).

375. V. officinalis L. Cultivated grounds and pastures, Wabash, July. Adventive from Europe (Williams). Tecumseh (Bessey).

232. LIPPIA L.


95. PLANTAGINACEÆ.

233. PLANTAGO L. Plantain, Ribwort.

377. P. lanceolata. Roadsides, yards, etc., becoming abundant. Introduced. Ashland (Williams); Lincoln (Webber, Smith, Williams); Crete (Swezey); Aurora (Bessey).

378. P. Patagonica Jacq. var. aristata (Michx.) Gray. Hastings (Bessey).

96. OLEACEÆ.

234. FRAXINUS L. Ash.

379. F. americana L. White ash. Sarpy and Nemaha Counties (Bessey).

97. GENTIANACEÆ.

235. GENTIANA L. Gentian.


236. MENYANTHES L. Buckbean.

381. M. trifoliata L. Ponds, Cherry County (Bessey).


Catalogue of the Flora of Nebraska.

98. ASCLEPIADACEÆ.

238. ACERATES Ell. Green milkweed.


384. A. VIRIDIFLORA (Raf.) Ell. var. LANCEOLATA (Ives) Gray. Hills, Wahoo, June, 1890 (Ryberg).

99. COMPOSITÆ.

239. STEPHANOMERIA Nutt.


240. LACTUCA L. Lettuce.


242. CICHORIUM L. Succory, Chicory.

389. C. INTYBUS L. Yards, Lincoln, Introduced (Webber).

243. CNICUS L. Thistle.


A form from Pine Ridge has conspicuously decurrent leaves, a character shown also by a specimen of Hayden's in the Engelmann Herbarium from the Sand hills of the Plains.

Cnicus pitcheri Torr., No. 1738 of the Cat. of the Fl. of Nebr. belongs here (Webber).


244. ARNICA L.


245. HELIÉNIIUM L.

394. H. AUTUMNALE L. Sneezeweed. Collected by Rev. Bates at Valentine (Ryberg); Minden (Hapeman).
246. PECTIS L.

A little plant (1-3 in. high) with glandular punctate leaves and
pleasant odor (Rydberg).

247. THELESPERMA Lees.

396. T. AMBIGUUM Gray. Prairies, quite common. Long Pine
(Swezey); Alliance, July; Crawford, Aug.; Belmont, July
(Webber).

397. T. FILIFOLIUM (Hook.) Gray. Table land, Banner Co., Aug.
Collected also by Rev. Bates at Valentine (Rydberg).

248. COREOPSIS L. Tickseed.

398. C. ARISTOSA Michx. Long Pine (Swezey).

399. C. TRICHOSPERMA (?) Michx. var. TENUILoba Gray. Lewellen,
Alliance (Swezey in Nebr. Flowering Plants). (This has the char-
acter of Thelesperma and will likely prove to be near T. ambiguum.
—Webber).

249. HELIANTHUS L. Sunflower.

400. H. DECAPETALUS (?) L. Crete (Swezey Nebr. Flowering Plants,
p. 10).
(This is near H. tuberosus L. to which it may have to be referred.—
Webber).

250. ECLIPTA L.


251. FRANSerIA Cav.

402. F. Hookeriana Nutt. Alliance (Swezey). Lodge Pole Creek,
near Potter, Aug. 15 (Rydberg).

403. F. Tomentosa Gray. Becoming a troublesome weed on low rich
soil in Kearney Co. (Rydberg).

252. AMBROSIA L. Ragweed.

404. A. TRIFIDA L. var. INTEGRIFOLIA (Muhl.) Torr & Gr. With the
type in various places. At Hackberry Springs only this form was
found (Rydberg); Lincoln (Bessey); Minden (Hapeman).

253. IVA L.

(Rydberg).

254. ANTeNNARIA Gærtn. Everlasting.

(Bessey).

407. A. dioica (L.) Gaertn. Alliance (Swezey); Belmont, July 14
(Webber).

255. ERIGERON L. Fleabane.


411. E. MACRANTHUS Nutt. Cañons, etc. Hat Creek Basin, Aug. 2.

(Prof. Swezey's specimens of E. glabellus Nutt. from Long Pine (Neb. Flowering Plants, p. 9) probably belong here, although differing somewhat from the type in having a hairy involucre. My specimens also show this peculiarity but were pronounced by Dr. Watson to be E. macranthus.—Webber.)

412. E. FUMILUS Nutt. Collected by Rev. Bates at Valentine (Ryderberg); War Bonnet, June (Williams); Lewellen (Swezey); Pine Ridge, July; Hat Creek Basin, Aug. (Webber).

Quite common on dry prairies.

256. ASTER L. Aster.

413. A. AZUREUS Lindl. Weeping Water (Williams).


415. A. FOLIAEUS Lindl. Platte River north of Scott's Bluff, July 23; Horse Creek, Aug. 1; Lodge Pole Creek, near Kimball, Aug. 12 (Ryderberg).

416. A. PANICULATUS Lam. Low prairies, very common, Lincoln, Sept. (Webber).


418. A. TRADESCANTII L. Crete, common (Swezey, Nebr. Fl. Pl., p. 9.)

(The specimens of this seem to me to be nearer A. paniculatus. Its occurrence in Nebraska needs confirmation.—Webber.)

257. TOWNSSENDIA Hook.

419. T. SERICEA Hook. Prairies, not uncommon. Collected by Dr. W. A. Thomas in Hayes Co., April (Ryderberg); McCook; Alliance; Ogalla (Swezey); Antelope Co. (Webber).

258. SOLIDAGO L. Golden rod.


421. S. NEMORALIS Ait. var. INCANA (Torr. & Gr.) Gray. Hills, Deuel Co., Aug. (Ryderberg); Lewellen; Alliance; Lodge Pole Creek; Belmont (Swezey).


259. HAPLOPAPPUS Cass.


(Prof. Swezey's specimens are rather meager to decide upon, and as Nebraska is somewhat out of the known range of the species, its occurrence may perhaps remain in question until confirmed.)


261. **BRICKELLIA** Ell.

430. **B. grandiflora** (Hook.) Nutt. In a cañon, Banner Co. (Rydberg).

262. **VERNONIA** Schreb.  Iron weed.

431. **V. altissima** Nutt. Banks, etc. Wahoo, Saunders Co., Sept. (Rydberg).

SUPPLEMENTARY LIST OF RECENTLY REPORTED SPECIES.

BY CHARLES E. BESSEY, PH.D.

Species determined by Rev. J. M. Bates of Valentine, are marked (B.); those by A. T. Bell and W. H. Skinner of the Crete High school, (B. & S.); those by F. C. Clements, a student in my laboratory, (C.); those by Dr. H. Hapeman of Minden, (H.); those by Roscoe Pound, formerly assistant in my laboratory, (P.); those by P. A. Rydberg, a graduate student, (R.); those by J. R. Schofield, a student in my laboratory, (S.); those by Professor G. D. Swezy of Doane College, (Sw.); those by A. F. Woods, assistant in my laboratory, (W).

**Myxomycetes.**

7. *Hemiarcyria serpula* Scop. On bark, Lincoln, (C.)
8. *Comatricha frissiana* (D. By.) Rost. On rotten wood in a dark well, York, Apr. 1892, (Bessey.)

**Bacteriaceae.**

11. *Bacterium aceti* (Kuetz.) Lanzi. In fermenting cider. Lincoln, Feb. 1892, (Bessey.)
12. *Beggiatoa pellucida* Cohn. Lincoln, (W.)

**Nostocaceae.**

14. *Nostoc muscorum* Ag. On moss leaf from Valentine, (C.)
17. Oscillatoria principis Vauch. Lincoln, July, 1891, (W.)
18. Lyngbya estuaritii Liebm. Forming a reddish-brown coating upon the
ground near Lincoln, the soil probably somewhat saline. April, 1892,
(Bessey.)
19. Lactis flaviatilis (Rab.) Kirch. Minden, (H.)

Palmellaceae.
20. Protococcus frustulosus (Carm.) D. Ton. In the basin of the artesian
well, Lincoln, Dec. 1891, (S)
21. Protococcus vestitus Reinsch. In material collected by Dr. Hapeman
at Minden, (C.)
22. Raphidium braunii Naeg. In material from Minden collected by Dr.
Hapeman, (C.)
22½. Raphidium polymorphum Fries. var. aciculare A. Br. Minden, (H.)
23. Tetraspora lubrica (Roth.) Ag. Minden, Coll. Hapeman, (W.)

Cladophoraceae.
by Dr. Hapeman. (W.)
25. Draparmaldia plumosa Ag. Wahoo, (R.)
26. Draparmaldia glomerata (Vauch.) Ag. var. genuina Kirch. In a pool.
Lincoln, (W.)
27. Chaetophora cornu-dama: (Roth.) Ag. var. polyclados Kuetz. Minden,
Coll. Hapeman, (W.)

Desmidiales.
29. Closterium acerosum (Schr.) Ehrb. Lincoln, (C.)
30. Closterium diane Ehrb. Lincoln, (C.)
32. Closterium lanceolatum Kuetz. Lincoln, (W.)
34. Cosmarium botrytis Menegh. In material collected by Dr. Hapeman
at Minden, (C.)
35. Cosmarium portianum Arch. Minden, Coll. Hapeman, (C.)
36. Eunotia pokornyanum Grunn. In material collected at Minden by Dr.
Hapeman, (C.)
37. Stauroastrum dickyi Ralfs. In material collected at Minden by Dr.
Hapeman, (C.)
38. Stauroastrum eustephanum (Ehr?) Ralfs. In material collected at Minden
by Dr. Hapeman, (C.)
39. Stauroastrum quadrangularare Breb. In material collected at Minden by
Dr. Hapeman, (C.)

Diatomaceae.
40. Stauroneis linata Kg. Agrees with Wolle's figure, but no description
is accessible. In material from Minden, collected by Dr. Hape-
man, (C.)
41. Stauroneis phoeniceretor (Nitzsch.) Ehr. Lincoln, (C.)
42. Navicula formosa Greg. Lincoln, (C.)
43. Navicula hemiptera Kg. Crete, (C.)
44. Navicula mutica Kg. Lincoln, (C.)
Supplementary List.

45. Navicula rhomboides Ehrb. In material collected at Minden by Dr. Hapeman, (C.)

46. Pleurosigma spongi (Quek.) W. Sm. Lincoln, (C.)

47. Gomphonema dichotomum Kuetz. Minden, (H.)

48. Gomphonema geminatum S. & F. Minden, (H.)

49. Coconeis striata Ehrb. In material collected at Minden by Dr. Hapeman, (C.)

50. Epithemia argus Kuetz. Minden, (H.) This species was doubtfully recorded in the catalogue (No. 100) as from Lincoln.

51. Epithemia sored Kuetz. Pauline, (H.)

52. Synedra affinis Kuetz. Pauline, (H.)

53. Synedra ulna (Nitzsch) Ehr. var. longissima (W. Sm.) Brun. In material collected at Minden by Dr. Hapeman, (C.)

54. Fragilaria virresens Raes. Minden, in material collected by Dr. Hapeman, (C.)

55. Nitzschia commumis Ralfs. In the basin of the artesian well. Lincoln, Dec. 1891, (S)

57. Nitzschia thermalis (Ehr.) Auersw. In salt water. Lincoln, (C.)

58. Nitzschia vermicularis (Kg.) Hantz. Minden, (H.)

59. Nitzschia vitrea Norm. Minden, (H.)

60. Nitzschia vivax W. Sm. Minden, (H.)

Zygaminaceae

61. Mougeotia gomphica (Dillw.) Ag. Lincoln, (C.)

62. Zygnema pertinax (Vauch.) Ag., var. anomalum (Hass.) Kirch. Minden, Coll. by Dr. Hapeman, (W.)

63. Spirogyra crassa Kuetz. South Bend, (C.) Filaments 136 mmm. in diameter.

Oedogoniaceae

64. Oedogonium pringsheimii Cram Minden, Coll. Hapeman, (W.)


Colobocladaceae

66. Colocochete scutata Breb. In material from Minden, collected by Dr. Hapeman, (C.)

Sphagnaceae


68. Niaria polymorpha (Pers.) Grev., var. acrodactyla Nits. Lincoln, (C.)

69. Hypoxyylon epiphyllum B. & C. Lincoln, (W.)

Dothidiaceae


Pezizaceae

71. Lachnea setellata Linn. On earth in greenhouse. Lincoln, (C.)

72. Sclerotinia durareus Tul. On ground in woods. Lincoln, Apr. 1892, (C.)

73. Sclerotinia trifoliorum Eriks. Raymond, (C.)

74. Sclerotinia gracilis Clements, u. sp. Cup thin, hemispherical, bright brown, margin entire, darker: stipe elongated, flexuous, thick, 1.5—
2 cm. long; asci cylindrical, attenuated at base, 150—160 x 10 mm.
ascospores 8, oblong-elliptical, curved, biguttulate, 26—32 x 10—11:
mm.; paraphyses filiform slightly clavate at apex, somewhat branched. Sclerotium black, thin, coriaceous, forked, \( \frac{1}{2} \times \frac{1}{2} \) cm.
In shady woods, near Lincoln, Nebr., (associated with Erythronium albidum?) The cups are from 2½ to 3½ mm. broad, a single stipe arising from each of the two to three forks of the sclerotium.

76. Belonidium auretia (Pers.) De Not. Lincoln, on stumps. (C.)

Helvellaceae.
77. Verpa digitaliformis Pers. In woods under trees. Raymond, May
1892, (C.)

Uredineae.
78. Puccinia buchloeos Schofield, n. sp. III. Amphigenous, or mostly hypophyllous; sori scattered, or more or less linear-clustered, epidermis of host plant splitting and supporting the edges of the sori; spores broadly elliptical, or slightly obovate, 13 to 23 broad by 29 to 36 mm.
long, mostly about 22 by 31 mm., epispore smooth, light-brown, constricted at the septum, slightly thickened at the apex, which is obtusely rounded: pedicel stout, once or twice the length of the spore, tinted. On Buchloe dactyloides Engelm. Collected by J. G. Smith, Lincoln, Nebr., Oct. 1886.

Ustilaginaceae.
79. Sorosporium cuneatum Schofield, n. sp. Glomerules nearly globose, 38 to 48 mm. in diameter, mostly about 44.5 mm., bright brown, composed of from forty to fifty spores: spores 9.5 to 11 mm. long, crowded, and in optical section cuneate in outline, all minutely roughened on the basal (exposed) surface.
In flower heads and stems of Grindelia squarrosa Dunal. Lincoln, Nebr., in the autumn of 1891.

The fungus attacks not only the heads, completely destroying the achenes, but it attacks the stem also, producing gall-like enlargements. The spores in the stem are formed immediately under the bark.
In California, according to Dr. Harkness, Sorosporium californicum Hark. attacks Grindelia robusta Nutt., reducing the flower-heads to one-third their natural size. In Nebraska the same reduction occurs on the lower branches of Grindelia squarrosa Dunal., but on the upper branches the parasite has the opposite effect, enlarging the heads to more than double their natural size.

Mucedineae.
80. Verticillium rufum (Schwabe.) Rebh. On sugar beets in silo. Lincoln, (P.)

Lyco
cerdaceae.
81. Lycoperdon cepaforme Bull. Lincoln, (C.)
82. Lycoperdon peckii Morg. Lincoln, (C.)
AGARICINEÆ

3. *Hiatula cretacea* Fr. Prairies, Lincoln, (C.)
4. *Hebeloma crustuliniforme* Bull. Lincoln, (C.)
5. *Coprinus comatus* Fl. D. Lincoln, (W.)
6. *Coprinus plicatilis* (Curt.) Fr. Lincoln, (Bessey)

POLYPOREÆ

87. *Polystictus peramenus* Fr. Lincoln, (W.)

THELEPHOREÆ

88. *Stereum versicolor* (Schw.) Fr., var. *fasciata* Schw. Lincoln, (W.)

CHARACEÆ

89. *Chara foetida* A. Br. Collected by J. M. Bates at Valentine, (Bessey)

EQUISETACEÆ

91. *Equisetum pratensis* Ehrh. Sowbelly Canon, Sioux Co., Aug. 1890, (Bessey.)

CYPERACEÆ

94. *Heliocharis conipressa* Sull. Ewing, (B.)

GRAMINEÆ

95. *Elymus sibiricus* L. Sioux Co. (B.)
97. *Agropyrum violaceum* Lange. North-western Nebraska. (B.)
98. *Festuca confinis* Vasey., var. ———— Harrison and Crawford, July 1891. (B.)
102. *Arrhenatherum elatius* Beauv. Lincoln, June 12, 1891, (R.)
103. *Calamagrostis confinis* Nutt. Platte River, Kearney, Co., June 15, 1891, (R)
104. *Sporobolus cryptandrus* (Trin.) Gr., var. (near) *flexuosus* Thurb. The pedicels are capillary, but not drooping. Dry sandy soil near Scott's Bluff, July 24, 1891, (R.)
105. *Sporobolus confinis* Towne. This is the S. *serotinus* of the "Contributions from the Botanical Department of the University of Nebraska. New Series, IV," page 6. Sands of Platte, near Horse creek, Scott's Bluff Co., Aug. 1, 1891, (R.)


Juncaceae.


113. *Juncus marginatus* Rost. Minden, (H.)


Liliaceae.

115. *Trillium nivale* Riddell. Weeping Water, Apr. 1892, (Miss Rands.)


Iridaceae.


Polygonaceae.

118. *Polygonum aviculare* L. var. *parva* Holz. var. nov. Stem much branched, low, prostrate, branchlets with very short joints, nearly covered by the sheaths, which are strongly ribbed and brown at the base; the scarious tips long, loose, aristate; leaves crowded, oblong 2-3 lines long; flowers minute, reddish or brownish. According to Mr. J. M. Holzinger, it has been collected by Wright in 1851 in N. Mex., and by Newberry (?) near Dallas, Texas. Spring, Deuel Co., Aug. 24, 1891, (R.)

Nyctaginaceae.


Caryophyllaceae.


Ranunculaceae.

121. *Clematis douglasii* Hook., var. *scottii* Porter. Reported by Professor Swezey from Sheridan Co.

Cruciferae.

122. *Sinoncypha pinatifida* Nutt. Reported by Professor Swezey from Sheridan Co.

123. *Draba nemorosa* Ledb. Alliance, (Bessey.)

124. *Nasturtium curvisiliquum* Nutt. Near a well 1½ miles from the Wyoming line, Scott's Bluffs Co., July 31, 1891, (R.)

Cistaceae.

125. *Lochea minor* L. Minden, collected by Dr. Hapeman, (W.)

Hypericaceae.

126. *Hypericum ascyron* L. Cass Co., (Sw.)
Supplementary List.

POLYGALACEÆ.
127. Polygala sanguinea L. Atkinson and Neligh, (B.)

UMBELLIFERÆ.
128. Cicuta biflora L. Cherry Co. Not in fruit, (B.)
129. Osmorhiza chlyonii (Michx.) B. S. P. Cass Co., (Sw.)
130. Mucunium divaricatum Nutt. Harrison, (B.)
131. Penicillium kingii Watson. This, possibly, should be included in the genus Pseudocymopterus Coult. and Rose, as the dorsal ribs are more or less winged. Scott's Pass, July 22, 1891, (R.)

 SAXIFRAGACEÆ.
132. Ribes setosum Lindl. Dawes Co., (Sw.)

LOASACEÆ.
133. Mentzelia albicans (Hook.) Doug. Scott's Bluffs Co., (R.) In the specimens collected the seeds are muricate, but the leaves are nearly entire or more rarely sinuately toothed.

HALORAGACEÆ.
134. Callitriche verna L. Kennedy, July 1891, (B.)

ROSACEÆ.
135. Coreopsis subtilosa Schrad. Sarpy and Cass counties, (Sw.)

LEGUMINOSÆ.
137. Desmodium illinoense Gray. Reported from Cass Co., by Professor Swezey.
139. Astragalus bisulcatus Gray. Dakota Junction, May, 1891, (B.)
140. (? Astragalus pubentissimus Torr. and Gray. Canon in Gosper Co., June 20; Hills near Curtis, Frontier Co., June 22; Lawrence Fork, Banner Co., July 8; near Kimball, Aug., 12, 1891, (R.)
141. Amorpha microphylla Pursh. Fragments covered with rust seen in the possession of Mr. Schofield, and said to have been collected near Lincoln, Sept. 1891, (R.)

POLEMONIACEÆ.
142. Gilia sp.—Glandular pubescent; root biennial, possibly perennial, stem branched above, 1 foot high or higher; leaves somewhat irregularly pinnatifid; lobes linear, not wider than the rachis, somewhat fleshy, macronate; flowers in a branched panicle; corolla violet or blue with a whitish tube, somewhat funnel-form 2 lines long; stamens exerted; calyx with prominent ribs. The plant is more or less glandular all over. Mr. John Holzinger of the Department of Agriculture has named it Gilia pinnatifida, which without any doubt, it is not, as the plant is more branched, more glandular, the division of the leaves few and longer and narrower, and the corolla smaller and not at all salverform. It stands nearer G. inconspicua, from which (if distinct) it differs in being more robust,
more branched, and, perhaps, more glandular. Sands of North Platte near Horse Creek, Aug. 1, 1891. (R.)


144. Phlox bryoides Nutt. Hills of upper Lawrence Fork, Aug. 11, 1891, (R.)

Borraginaceae.

145. (?) Oreocarya sciorea (Gray) Greene. (Pittonia, I. p. 58.) In fruit only. McColligan Canon, Denel Co., June 26; upper Lawrence Fork, Kimball Co., Aug. 10, 1891. (R.)

By an oversight an error was made on page 37, under Cryptantha, Krynitzenia glomerata Gray, is changed to C. glomerata Lehmann. It should have been given as Oreocarya glomerata (Pursh) Greene. (Pittonia, I. p. 58.) (R.)

146. Allocarya californica (Fisch. and Meyer.) Greene. Krynitzenia californica (Fisch. and Meyer.) Gray Reported from Dawes County by Professor Swezey.

Solanaceae.

147. Physalis mollis Nutt. var. cinerascens Gray. The leaves are broadly ovate, 2 in. long, angulately toothed or repand, very thin; pubescence stellate or simple (even a little glandular,) very short, except on the calyx, the pedicels, the petioles and younger parts of the stem, where it is long and soft; petioles as long as the leaves or longer; corolla greenish-yellow with a darker spot; anthers yellow; fruiting calyx globose-ovate. Under the cliffs on the south side of Scott’s Bluff, July 20, 1891, (R.)

148. Physalis sp. (near P. hederifolia Gray.) Leaves scarcely over 1 in. long, ovate, thickish; petioles generally shorter than the blades; fruiting calyx globose, about 1 in.; pubescence short, with a few long hairs, a little glandular. According to Mr. Holzinger it stands nearest P. hederifolia, but it differs from the description of that species in Gray’s Synoptical Flora, in that the pedicels are much longer, the leaves, larger and less toothed, and that it is very little glandular. It approaches P. fendleri. Prairies near Ashford, Banner Co., Aug. 6, (R.)

149. (?) Physalis palmeri Gray Leaves thickish, ovate, angulately toothed; petioles of the length of the blade which is 1-1½ in.; fruiting calyx ovate, (about an inch) on a slender pedicel. Stem low and nearly prostrate, strong scented; pubescence viscid, with short hairs. Sandy banks of a draw southwest of Sidney, Aug. 18. P. palmeri has been collected in southeast California, and this is entirely out of its supposed range. It may, therefore, be something else, (R.)

150. Physalis longifolia Nutt. (P lanceolata Michx. var. levigata Gray.) I believe that this has a very good right to be separated from P. lanceolata, as the berry is yellow, stalked in the calyx which is ovate, less angled and not sunken at the base; the bottom of the calyx, stipe, and lower part of the berry glutinos, as if it were painted with molasses. Lawrence Fork, Banner Co., July 8; Kimball, Aug. 12, 1891, (R.)

151. Physalis viscua L. var. spatulifolia Gray. Low, 6-10 in. high, prostrate or nearly upright; pubescence short and stiff, or more
commonly, scarcely any except on the calyx, where it is hispid; leaves obovate or spatulate, tapering into the petiole, nearly entire; fruiting calyx globose-ovate, scarcely angled, very little sunken at the base; herry yellowish green; corolla ½ in. wide, greenish-yellow with a darker spot. In P. lanceolata it is 2½-3½ in. wide and ochroleucous. Sand draws of Western Nebraska, June and Aug. This is the same as P. lanceolata. No. 2 on page 38 preceding, (R.)

Scrophulariaceae.
152. Scymenia macrophylla Nutt. Reported by Professor Swezey from Cass Co.
153. Gratoluda virginiana L. Kennedy, July 1891. (B.)
154. Pentstemon acuminatus Doug. Deuel Co. (R.)
155. Limnanorea canadensis Dumont. Ewing, June 1891. Collected by Mr. Bates, (Bessey.)

Asclepiadaceae.
156. Asclepias stenophylla (Gray). In the April (1892) number of the Botanical Gazette J. M. Holzinger of the National Herbarium shows what have been taken to be two distinct species viz: Asclepias stenophylla Gray. (No. 1677 of the catalogue), and A. stenophylla var. arizonicus Engelm. (No. 383 of the Appendix) are in reality but one species of Asclepias. In a subsequent note (Bot. Gaz. May) Mr. Holzinger shows that Gray's name must be retained.

Caprifoliaceae.

Composite.
160. Crepis tectorum L. In a lawn in Chadron, 1891. (B.)
162. Actinella scaposa Nutt. var. linearis Nutt. Franklin Co., (Sw.)
163. (? Chaenactis douglasii Hook and Arn., var. alpina Gray. The material was too incomplete for identification. A low cespitose, tomentose plant with pinnately parted leaves, and scapiform stem 3-6 in. high, with a few heads. Upper Lawrence Fork, Kimball County Aug. 10. (R.)
164. (? Aster decandens Lindl. Lodge Pole Creek, Kimball, Aug. 12, 1891. (R.)
165. (? Aster fremontii Gray. Horse Creek, Scott's Bluff Co., Aug. 1891. (R.)
166. Aster tradescantii L. Big Springs, Deuel Co., Aug. 24, 1891. (R.) (See No. 418 of Mr. Webber's "Appendix.")