

L. TORREYI, var. *CONGESTA*, n. var.: FIG. 7, branch with fruits, from Duval County, Florida, *A. H. Curtiss*, no. 232*.

L. MARITIMA Leggett, var. *TYPICA*: fig. 8, basal shoot from Forest Hills, Massachusetts, October 9, 1885, *E. & C. E. Faxon*.

L. MARITIMA, var. *VIRGINICA*, n. var.: FIG. 9, seeds from Virginia Beach, Virginia, September 26 and 27, 1890, *Hollick & Britton* (TYPE).

PLATE 491. *L. LEGGETTII* Britton & Hollick, var. *TYPICA*: FIG. 1, branch with fruits, from Slatington, Lehigh County, Pennsylvania, *Pretz*, no. 13,156.

L. LEGGETTII, var. *MONILIFORMIS* Bicknell: FIG. 2, branch with fruits, from Squam, Nantucket Island, Massachusetts, September 18, 1899, *Bicknell* (TYPE).

L. LEGGETTII, var. *RAMOSISSIMA*, n. var.: FIG. 3, seeds from Ocean Springs, Mississippi, *Pollard*, no. 1109 (TYPE).

L. INTERMEDIA Leggett, var. *TYPICA*: FIG. 4, fruit from West Roxbury, Massachusetts, October 9, 1885, *E. Faxon*; FIG. 5, seeds from same collection; FIG. 6, tip of basal shoot from same collection.

L. INTERMEDIA, var. *JUNIPERINA* (Bicknell) Robinson: FIG. 7, fruit from York Harbor, Maine, August 23, 1894, *Bicknell* (TYPE); FIG. 8, tip of basal shoot from Stonington, Deer Island, Maine, *Hodgdon*, no. 695.

L. INTERMEDIA, var. *LAURENTIANA*, n. var.: FIG. 9, fruit from vicinity of Longueuil, Quebec, *Victorin*, no. 8319 (TYPE); FIGS. 10 and 11, portions of basal shoots from the TYPE.

L. INTERMEDIA, var. *DEPAUPERATA*, n. var.: FIGS. 12 and 13, entire plants, $\times 2/5$, from near Archibald River, south shore of Lake Athabaska, Saskatchewan, *Raup*, no. 6745 (TYPE).

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VALIDATION OF COMBINATIONS IN PALMER AND STEYERMARK'S ANNOTATED CATALOGUE OF THE FLOWERING PLANTS OF MISSOURI

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IN the August number of *RHODORA*, vol. 39, pages 309–10, 1937, Dr. Fernald questioned the validity of publication of most of the new combinations in Palmer and Steyermark's Annotated Catalogue of the Flowering Plants of Missouri.¹ In order that the validity of these names may not be open to question in the future, those which were published without complete bibliographical data are given below.

COMMELINA ERECTA L. var. ***crispa*** (Wooton) Palmer & Steyermark, comb. nov. *C. crispa* Wooton, Bull. Torr. Bot. Club **25**: 451. 1898.

STENANTHIUM GRAMINEUM (Ker.) Kunth f. ***robustum*** (Wats.) Palmer & Steyermark, comb. nov. *S. robustum* Wats. in Proc. Am. Acad. **14**: 278. 1879.

CAMASSIA hyacinthina (Raf.) Palmer & Steyermark, comb. nov. *Lemotris hyacinthina* Raf. Fl. Tell. **3**: 51. 1836.

¹ Ann. Mo. Bot. Gard. **22**: no. 3. 1935.

QUERCUS ALBA f. **latiloba** (Sarg.) Palmer & Steyermark, comb. nov. *Q. alba* var. *latiloba* Sarg., Bot. Gaz. **65**: 435. 1918.

Q. FALCATA f. **triloba** (Michx.) Palmer & Steyermark, comb. nov. *Q. triloba* Michx., Hist. Chênes Am. t. 26. 1801.

Q. FALCATA var. **leucophylla** (Ashe) Palmer & Steyermark, comb. nov. *Q. rubra* var. *leucophylla* Ashe, Bull. Charleston Mus. **13**: 25. 1917.

CLAYTONIA VIRGINICA L. f. **robusta** (Somes) Palmer & Steyermark, comb. nov. *C. multicaulis* var. *robusta* Somes, Iowa Nat. **2**: 68. 1910. *C. robusta* (Somes) Rydb., Brittonia **1**: 87. 1931.

CLEMATIS VIRGINIANA var. **missouriensis** (Rydb.) Palmer & Steyermark, comb. nov. *C. missouriensis* Rydb., Britton, Man. 421. 1901.

DELPHINIUM AZUREUM var. **Nortonianum** (Mack. & Bush) Palmer & Steyermark, comb. nov. *D. Nortonianum* Mack. & Bush, Trans. Acad. Sci. St. Louis **12**: 82, pl. 13. 1902.

RORIPA **aquatica** (Eat.) Palmer & Steyermark, comb. nov. *Cochlearia aquatica* Eaton, Man. Bot. ed. 5. 181. 1829, not *C. aquatica* C. A. Mey. in Lebed. Fl. Alt. **3**: 88. 1831. *Neobeckia aquatica* (Eat.) Greene, Pittonia **3**: 95. 1896. *Radicula aquatica* (Eat.) Robinson, RHODORA **10**: 32. 1908.

CRATAEGUS CRUS-GALLI f. **truncata** (Sarg.) Palmer, comb. nov. *C. truncata* Sarg., Rept. Mo. Bot. Gard. **19**: 57. 1908.

C. CRUS-GALLI var. **macra** (Beadle) Palmer, comb. nov. *C. macra* Beadle, Biltmore Bot. Studies **1**: 134. 1902.

C. CRUS-GALLI var. **Barrettiana** (Sarg.) Palmer, comb. nov. *C. Barrettiana* Sarg., Rep. Mo. Bot. Gard. **19**: 50. 1908.

C. CRUS-GALLI var. **leptophylla** (Sarg.) Palmer, comb. nov. *C. leptophylla* Sarg., Rep. Mo. Bot. Gard. **19**: 69. 1908.

C. CRUS-GALLI var. **pachyphylla** (Sarg.) Palmer, comb. nov. *C. pachyphylla* Sarg., Rep. Mo. Bot. Gard. **19**: 54. 1908.

C. CRUS-GALLI var. **bellica** (Sarg.) Palmer, comb. nov. *C. bellica* Sarg., Trees & Shrubs **2**: 236. 1913.

C. REGALIS var. **paradoxa** (Sarg.) Palmer, comb. nov. *C. paradoxa* Sarg., Rep. Mo. Bot. Gard. **22**: 68. 1912.

C. PYRACANTHOIDES Beadle var. **arborea** (Beadle) Palmer, comb. nov. *C. arborea* Beadle, Biltmore Bot. Studies **1**: 137. 1902.

C. COLLINA var. **succinta** (Sarg.) Palmer, comb. nov. *C. succinta* Sarg., Rep. Mo. Bot. Gard. **19**: 78. 1908.

C. COLLINA var. **secta** (Sarg.) Palmer, comb. nov. *C. secta* Sarg., Rep. Mo. Bot. Gard. **19**: 83. 1908.

C. COLLINA var. **sordida** (Sarg.) Palmer, comb. nov. *C. sordida* Sarg., Bot. Gaz. **33**: 114. 1902.

C. VIRIDIS var. **ovata** (Sarg.) Palmer, comb. nov. *C. ovata* Sarg., Man. Trees N. A. 402, f. 321. 1905.

C. VIRIDIS var. **lanceolata** (Sarg.) Palmer, comb. nov. *C. lanceolata* Sarg., Trees & Shrubs **2**: 65, pl. 130. 1908.

C. VIRIDIS var. **lutensis** (Sarg.) Palmer, comb. nov. *C. lutensis* Sarg., Rep. Mo. Bot. Gard. 22: 75. 1912.

C. VIRIDIS var. **atrorubens** (Ashe) Palmer, comb. nov. *C. atrorubens* Ashe, Journ. Elisha Mitchell Sci. Soc. 16: 78. 1900.

C. PRUINOSA f. **angulata** (Sarg.) Palmer, comb. nov. *C. angulata* Sarg., Proc. Acad. Phil. 62: 166. 1910.

C. PRUINOSA var. **brachypoda** (Sarg.) Palmer, comb. nov. *C. brachypoda* Sarg., Rep. Mo. Bot. Gard. 19: 100. 1908.

C. DISJUNCTA var. **magnifolia** (Sarg.) Palmer, comb. nov. *C. magnifolia* Sarg., Trees & Shrubs 2: 69, pl. 132. 1908.

C. MACKENZII var. **bracteata** (Sarg.) Palmer, comb. nov. *C. bracteata* Sarg., Rep. Mo. Bot. Gard. 19: 91. 1908.

C. MOLLIS f. **dumetosa** (Sarg.) Palmer, comb. nov. *C. dumetosa* Sarg., Rep. Mo. Bot. Gard. 19: 109. 1908.

C. CALPODENDRON var. **obesa** (Ashe) Palmer, comb. nov. *C. obesa* Ashe, Journ. Elisha Mitchell Sci. Soc. 20: 47. 1904.

C. CALPODENDRON var. **hispidula** (Sarg.) Palmer, comb. nov. *C. hispidula* Sarg., Rep. Mo. Bot. Gard. 19: 116. 1908.

C. SUCCULENTA var. **pertomentosa** (Ashe) Palmer, comb. nov. *C. pertomentosa* Ashe, Journ. Elisha Mitchell Sci. Soc. 16: 70. 1900.

ROSA CAROLINA var. **Lyonii** (Pursh) Palmer & Steyermark, comb. nov. *R. Lyonii* Pursh, Fl. Am. Sept. 1: 345. 1814.

R. PALUSTRIS var. **dasistema** (Raf.) Palmer & Steyermark. *R. dasistema* Raf., Ann. Gen. Sc. Phys. 5: 219. 1820.

RHUS CANADENSIS var. **serotina** (Greene) Palmer & Steyermark, comb. nov. *Schmaltzia serotina* Greene, Leaflets, Bot. Obs. & Crit. 1: 131. 1905.

ACER SACCHARUM f. **Rugelii** (Pax) Palmer & Steyermark, comb. nov. *A. Rugelii* Pax, Engl. Bot. Jahrb. 7: 243. 1886.

CORNUS FLORIDA f. **rubra** (Weston) Palmer & Steyermark, comb. nov. *C. florida* var. *rubra* Weston, Bot. Univ. 1: 73. 1770. *C. florida* var. *rubra* André, Rev. Hort. 66: 500. 1894.

ASCLEPIAS SYRIACA L. var. **kansana** (Vail) Palmer & Steyermark, comb. nov. *A. kansana* Vail, Bull. Torr. Bot. Club 31: 457; pl. 16, fig. 4; pl. 18. 1904.

TRIOSTEUM AURANTIACUM Bicknell var. **illinoense** (Wieg.) Palmer & Steyermark, comb. nov. *T. perfoliatum* var. *illinoense* Wiegand, RHODORA 25: 199-203. 1923. *Triosteum illinoense* (Wiegand) Rydb, Brittonia 1: 96. 1931.

SOLIDAGO ARGUTA var. **Boottii** (Hook.) Palmer & Steyermark, comb. nov. *S. Boottii* Hook. Comp. Bot. Mag. 1: 97. 1835.

S. GLABERRIMA var. **moritura** (Steele) Palmer & Steyermark, comb. nov. *Solidago moritura* Steele, Contrib. U. S. Nat. Herb. 13: 370. 1911.

S. NEMORALIS var. **longipetiolata** (Mack. & Bush) Palmer & Steyermark, comb. nov. *S. longipetiolata* Mack. & Bush, Trans. Acad. Sci. St. Louis 12: 87. pl. 16. 1902.

HELIANTHUS HIRSUTUS var. **leoninus** (E. E. Wats.) Palmer &

Steyermark, comb. nov. *H. leoninus* E. E. Wats. Papers Mich. Acad. Sci. **9**: 449, pl. 75. 1929.

ARTEMISIA CAMPESTRIS L. var. **caudata** (Michx.) Palmer & Steyermark, comb. nov. *A. caudata* Michx. Fl. Bor. Am. **2**: 129. 1803. *A. campestris* subsp. *caudata* (Michx.) Hall & Clements, Phylog. Meth. Taxon. 122. 1923.

ARTEMISIA VULGARIS var. **Wrightii** (Gray) Palmer & Steyermark, comb. nov. *A. Wrightii* Gray, Proc. Am. Acad. **19**: 48. 1883. *A. vulgaris* subsp. *Wrightii* (Gray) Hall & Clements, Phylog. Meth. Taxon. 80, pl. 9. 1923.

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RARE PLANTS IN MICHIGAN

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ON August 10, 1937, accompanied by Mr. Thomas Taper, a local botanist, I made a trip to investigate a peat bog I had heard about. It is 5 miles northwest of Lake Linden and a little over a mile northwest of Calumet. Elevation is 1,220 feet, about 600 higher than Lake Linden. All places mentioned are in the northern part of Houghton Co. Although we did not find the peat bog on this trip we did find an immense cat-tail bog $\frac{1}{2}$ mile long by half as broad. This cat-tail bog is really a shallow lake which has been completely filled in with the plant. On the south side of this lake or bog there is perhaps an eighth of a mile of upland between it and a swampy piece of lowland. Along the border of the lowland swamp and extending up the side of the hill, northerly, we found a large field of some unfamiliar bunch grass which turned out to be *NARDUS STRICTA* Linn. The basal leaves are up to a foot and a half long, erect-spreading, thus forming a circular stool or cockade a foot to a foot and a half in diameter and up to a foot or more high. The culms were ascending or horizontal. It covered a stretch of perhaps 200 yards by 50, very dense in places and scattered in others. There are probably around 500 stools or bunches. No. 11691.

On the upland between the *Nardus* and the cat-tail bog we found typical *PRUNELLA VULGARIS* L. (No. 11689) and its var. *ALBIFLORA* (Bogenhard) Farwell (No. 11688). The white-flowered variety is much more plentiful than the blue-flowered type. Mr. Fernald (*RHODORA*, Vol. 15, No. 178, Oct. 1913, p. 183) reports that he had seen it only



Steyermark, Julian A. 1938. "VALIDATION OF COMBINATIONS IN PALMER AND STEYERMARK'S ANNOTATED CATALOGUE OF THE FLOWERING PLANTS OF MISSOURI." *Rhodora* 40, 131–134.

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