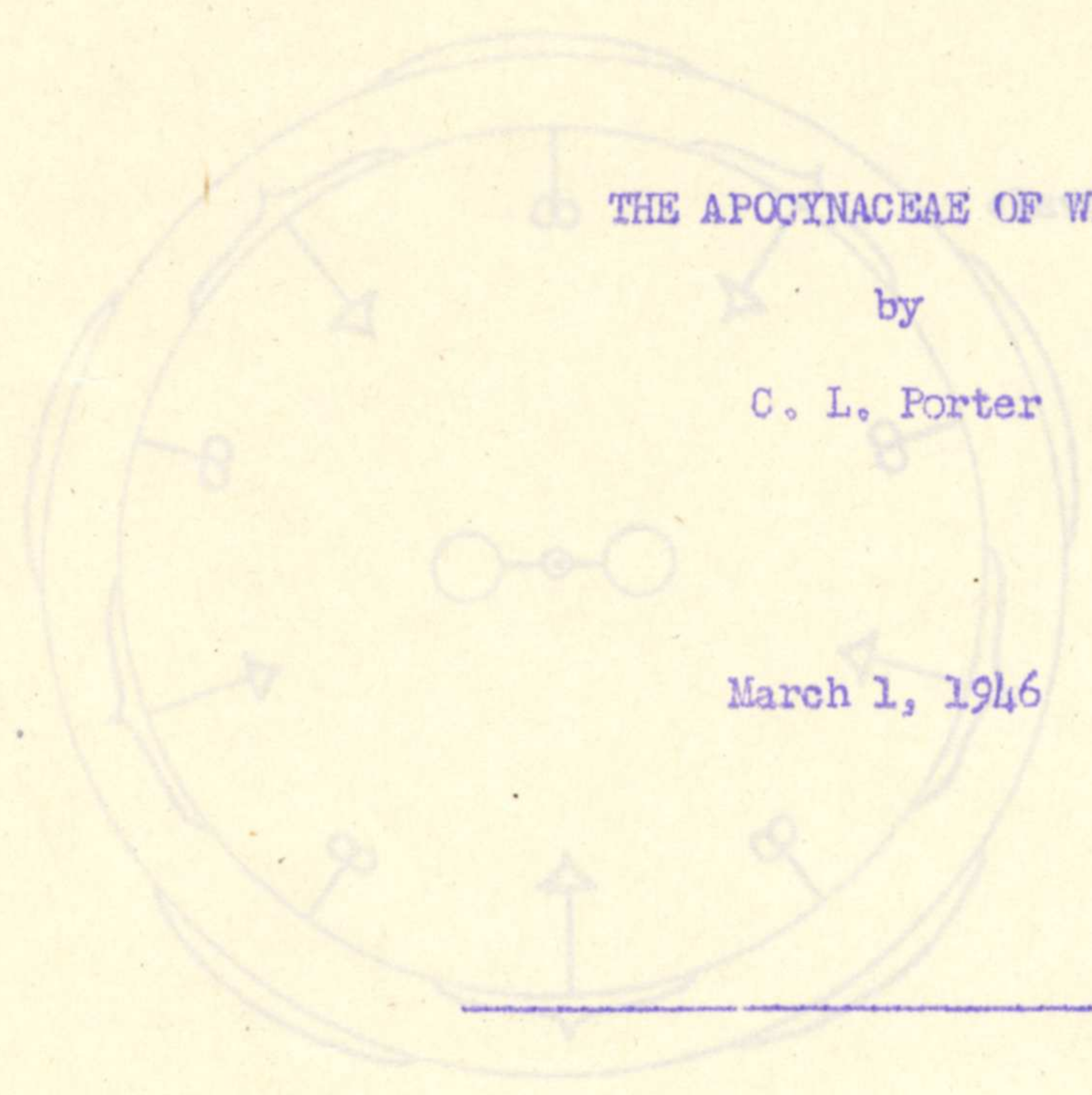


APCYNACEAE Dogbane Family

Herbs, in ours, with milky juice and simple, entire, and opposite leaves without stipules. Flowers hypogynous, perfect, regular, 5-merous, the corolla of united petals and tubular, funneliform, or salverform. Stamens the same number as petals, alternate with them, and attached to the corolla tube. Carpels 2, the ovaries separate or connate, their styles and stigmas usually only of 2 foliicles, the seeds often adnate.

CONTRIBUTIONS TOWARD A  
FLORA OF WYOMING

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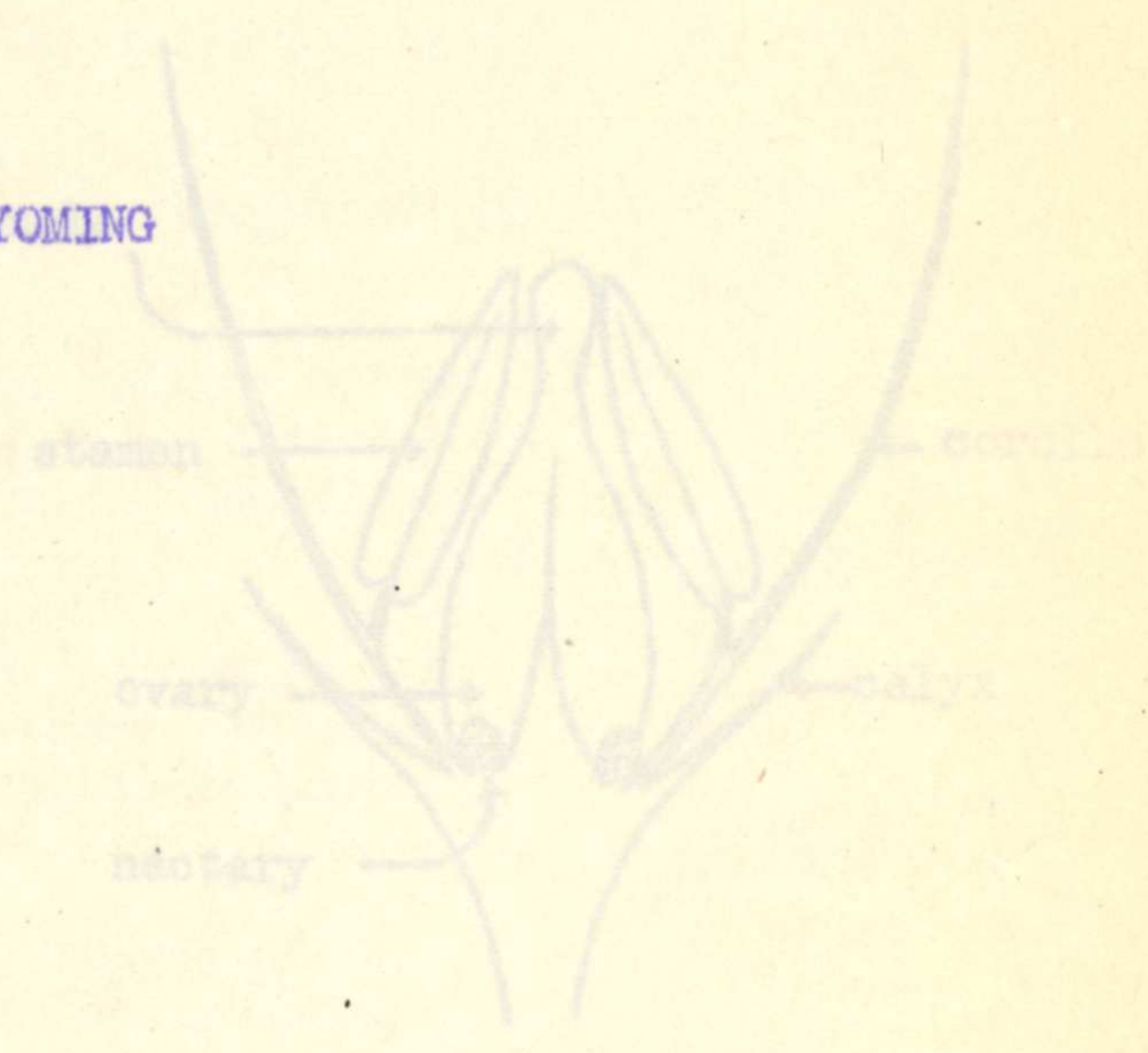


THE APOCYNACEAE OF WYOMING

by

C. L. Porter

March 1, 1946

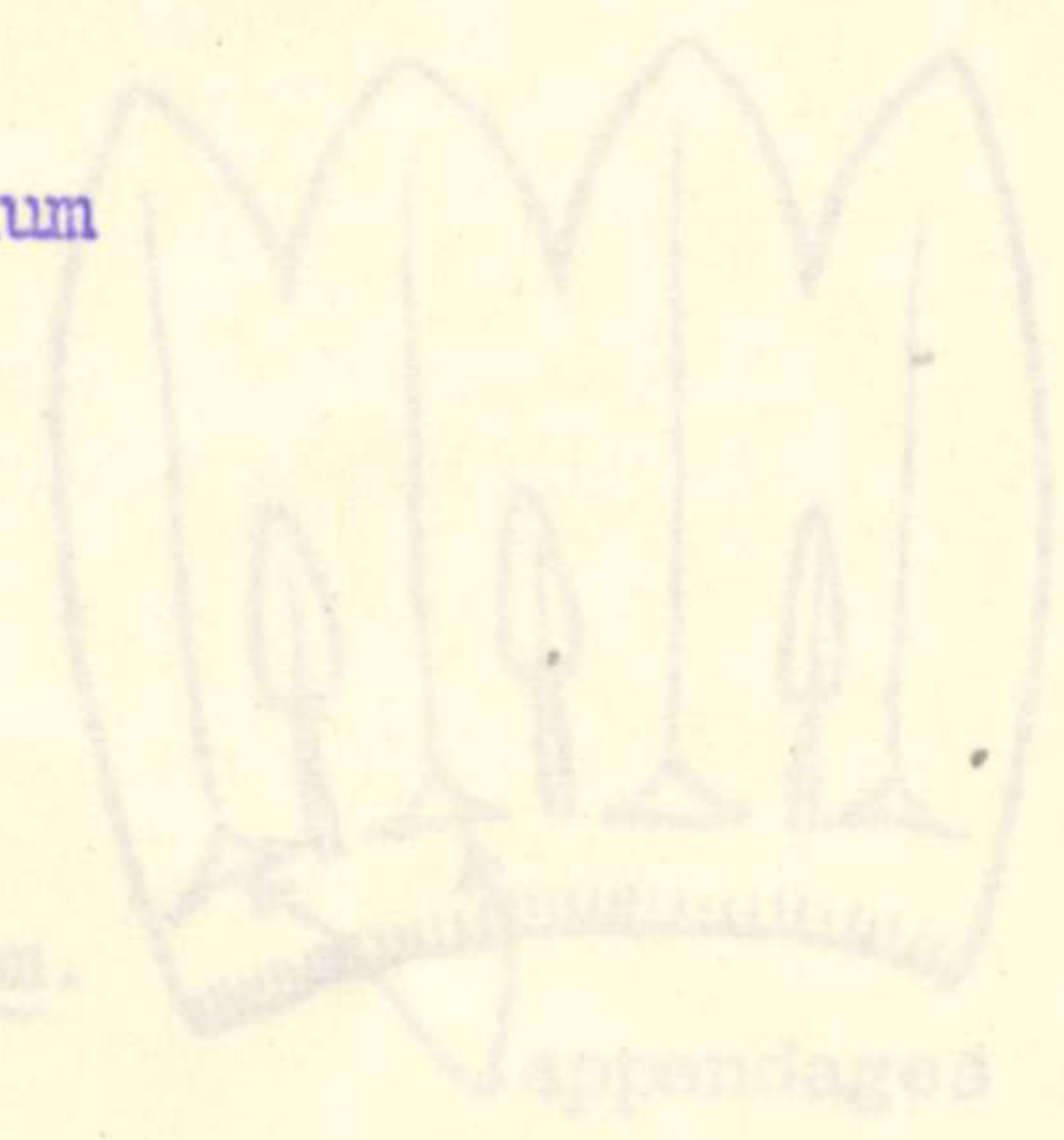


Diagrammatic longitudinal section of Apocynum flower, much enlarged.

Floral diagram of Apocynum

Leaflet No. 12.

The Rocky Mountain Herbarium  
University of Wyoming  
Laramie



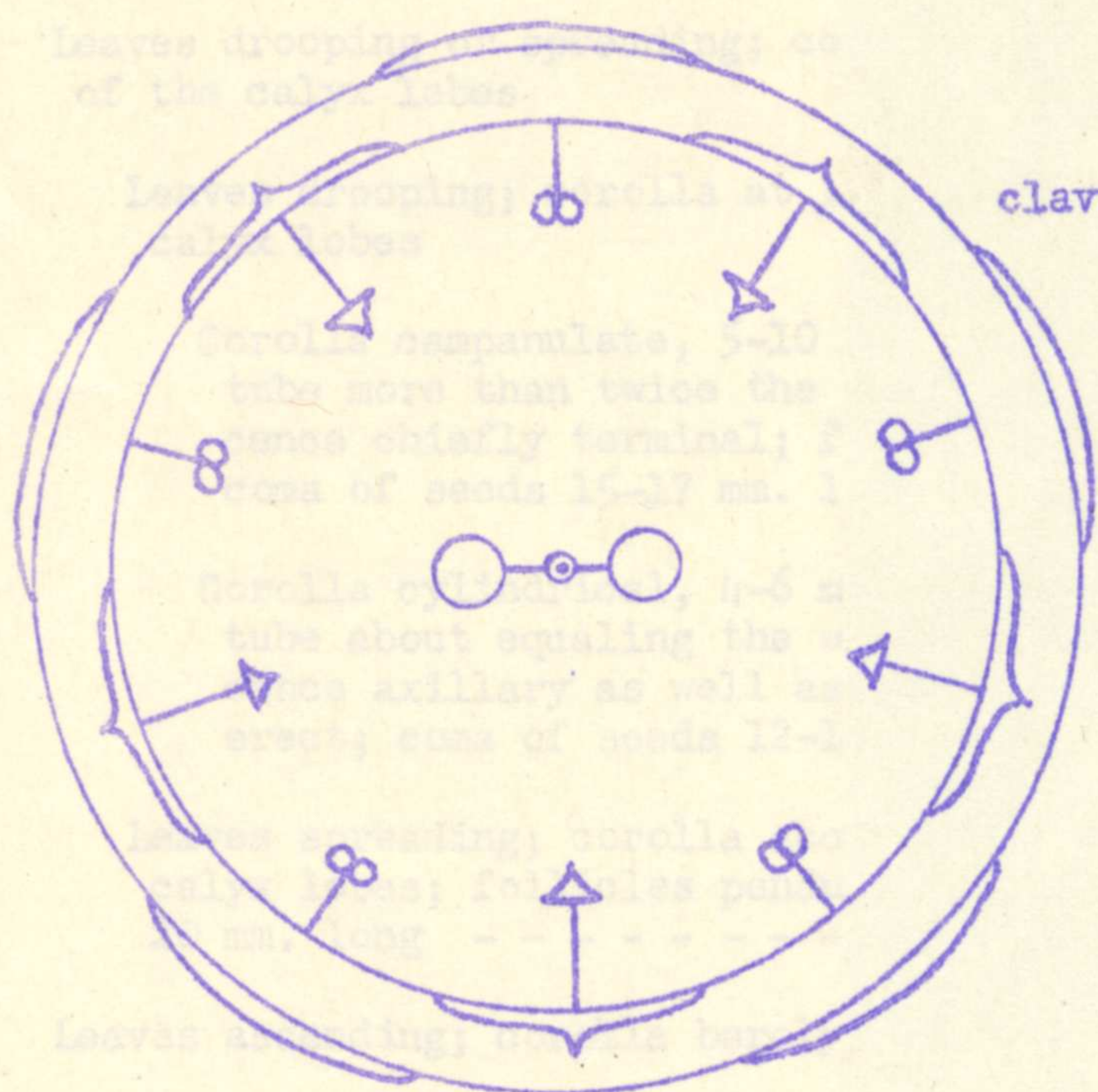
Portion of corolla and stamens of Apocynum.

appendages



APOCYNACEAE Dogbane Family

Herbs, in ours, with milky juice and simple, entire, and opposite leaves without stipules. Flowers hypogynous, perfect, regular, 5-merous, the corolla of united petals and tubular, funnelform, or salverform. Stamens the same number as the corolla lobes, alternate with them, and attached to the corolla tube. Carpels 2, the ovaries separate or connate, their styles and stigmas united. Fruit commonly of 2 follicles, the seeds often comose.



clavuncle

stamen

ovary

nectary

corolla

calyx

Diagrammatic longitudinal section of Apocynum flower, much enlarged.

Floral diagram of Apocynum



Portion of corolla and stamens of Apocynum.

appendages



## 1. APOCYNUM L. Dogbane or Indian Hemp

Perennial herbs with milky juice and opposite, entire, ovate to linear-lanceolate leaves. Flowers small, in cymes, the corolla pink or white, campanulate to cylindrical, bearing within 5 distinct appendages adnate to the base of the tube and opposite the lobes. Stamens convergent about the pistil. Apices of the carpels united by an ovate-cylindrical clavuncle bearing the terminal stigma. Fruit a pair of divaricate terete follicles which contain numerous terete seeds having a tuft of hairs (coma) at one end.

## Key to the species

Leaves drooping or spreading; corolla at least twice the length of the calyx lobes

Leaves drooping; corolla at least 3 times the length of the calyx lobes

Corolla campanulate, 5-10 mm. long, the orifice of the tube more than twice the width of the base; inflorescence chiefly terminal; follicles normally pendulous; coma of seeds 15-17 mm. long - - - - - 1. A. androsaemifolium

Corolla cylindrical, 4-6 mm. long, the orifice of the tube about equaling the width of the base; inflorescence axillary as well as terminal; follicles normally erect; coma of seeds 12-15 mm. long - - - - - 2. A. pumilum

Leaves spreading; corolla about twice the length of the calyx lobes; follicles pendulous; coma of seeds about 20 mm. long - - - - - 3. A. medium

Leaves ascending; corolla <sup>little</sup> ~~barely~~ exceeding the calyx

Leaves evidently petiolate, narrowed at the base, or the very lowest obtuse or sessile; follicles usually falcate, 12-20 cm. long; coma of seeds 20-30 mm. long - - - - - 4. A. cannabinum

Leaves nearly or quite sessile, especially the lowest, cordate or obtuse at the base; follicles straight, 4-10 cm. long; coma of seeds 8-20 mm. long - - - - - 5. A. sibiricum

\* The writer is indebted to the following authors and sources for information:  
Woodson, R. E., Jr. - A MONOGRAPH OF THE GENUS APOCYNUM. Ann. Mo. Bot. Gard. 17:41. 1930.

Fernald, M. L. - CRITICAL PLANTS OF ONTARIO AND MICHIGAN. Rhodora 37:327. 1935



1. *APOCYNUM ANDROSAEMIFOLIUM* L., Sp. Pl. ed. 2, 311. 1762.

*Apocynum ambigens* Greene, Pl. Barek. 3:17. 1901.

*Apocynum macranthum* Rydb., Fl. Rocky Mts. ed. 2, 669. 1917.

In open woods at middle elevations. Albany, Crook, Lincoln, Park, Platte, Sheridan, and Teton counties, and Yellowstone National Park. Widely distributed in temperate North America. Map 1. The var. *incanum* A. DC. in DC. Prodr. 8:439, 1844, having the lower surface of the leaves pubescent, seems scarcely distinct from the species and is included with it here.

2. *APOCYNUM PUMILUM* (A. Gray) Greene, Man. Bot. San Francisco Bay, 240. 1894.

*Apocynum androsaemifolium* L. var. *pumilum* A. Gray, Syn. Fl. N. Am. 2:82. 1886.

*Apocynum calophyllum* Greene, Leaf1. 1:57. 1904.

*Apocynum plumbeum* Greene, l. c. 2:185. 1912.

*Apocynum androsaemifolium* L. var. *nevadense* Jepson, Man. Fl. Pl. Calif. 769. 1925.

Open slopes and river bottoms at middle elevations. Albany, Carbon, and Lincoln counties, and Yellowstone National Park. Western temperate North America. Map 1.

3. *APOCYNUM MEDIUM* Greene, Pittonia 3:230. 1897.

*Apocynum speciosum* G. S. Miller, Proc. Biol. Soc. Wash. 13:83. 1899.

*Apocynum Milleri* Britton, Man. Pl. 739. 1901.

*Apocynum divergens* Greene, Leaf1. 1:56. 1904.

*Apocynum viride* Wooton & Standl., Contr. U. S. Nat. Herb. 16:159. 1913.

Our specimens are mostly referable to var. *floribundum* (Greene) Woodson, Ann. Mo. Bot. Gard. 17:113. 1930. This variety has a cylindrical corolla with the tube conspicuously longer than the spread of the limb, and the plants are glabrous. High plains and hills at middle elevations. Albany and Sheridan counties. The species is widely distributed in temperate North America, and the variety from Colorado and Wyoming westward. Map 1.

4. *APOCYNUM CANNABINUM* L., Sp. Pl. ed. 1, 213. 1753.

*Apocynum platyphyllum* Greene, Leaf1. 2:166. 1912.

Our specimens are referable to var. *glaberrimum* A. DC. in DC. Prodr. 8:439. 1844. This differs from the species only in being completely glabrous. Roadsides and waste land, usually in moist situations. Crook, Platte, Sheridan, Teton, and Weston counties. Throughout the United States and extending into Canada. Map 1.

5. *APOCYNUM SIBIRICUM* Jacq., Hort. Vindob. 3:37. 1770.

*Apocynum hypericifolium* Ait., Hort. Kew. ed. 1, 1:304. 1789.

Our specimens are probably all referable to var. *salignum* (Greene) Fernald, Rhodora 37:328. 1935. This variety differs from the species in having a more slender corolla tube and in having a longer coma on the seeds. It occurs along roadsides and valleys at middle elevations in Carbon, Converse, and Platte counties, and Yellowstone National Park. Ranging from Minnesota and Texas to the Pacific Coast. Map 1.



- Apocynum androsaemifolium - - - ●  
Apocynum pumilum - - - ▲  
Apocynum medium - - - ■  
Apocynum cannabinum - - - +  
Apocynum sibiricum - - - \*

