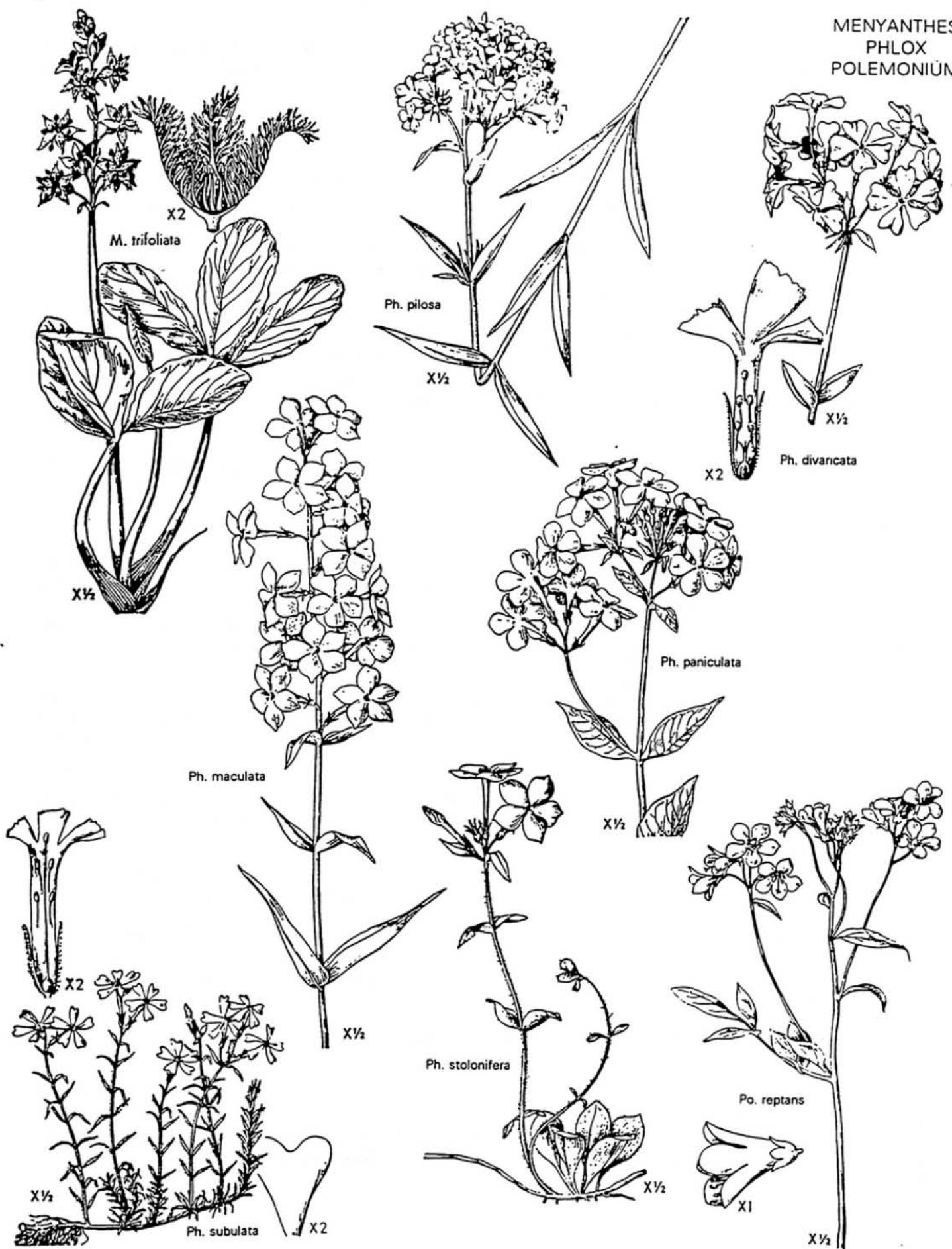


MENYANTHES
PHLOX
POLEMONIUM



HERBARIUM RECORD: 20 Jun 1897—Scioto Valley, *W. Johnson*.

MENYANTHACEAE, Buckbean Family

1. MENYANTHES L. Buckbean

Bog and marsh herb; leaves crowded near base of stem, 3-foliolate; raceme scapose; flowers dimorphic as to relative length of style and stamens, the parts in 5's; corolla 1-1.5 cm long, white or pink, lobes fringed on inner surface.

1. †*Menyanthes trifoliata* L.

Buckbean, Bogbean

Bog or marsh herb; leaves 3-foliolate, alternate, bases sheathed; perianth parts in 5's; corolla white or pink, lobes fringed on inner surface; raceme scapose.

REFERENCES: Sullivant 1840:40; Selby & Craig 1890:13; Stuckey & Roberts 1977:36; Roberts & Cooperrider 1982:63; McCance 1984:A-297; Cooperrider 1995:305 (illus. p. 307).

HERBARIUM RECORDS: 14 Sep 1930—small bog at Baumgardner's Pond, Jackson Twp., *Chapman & Gordon*; 17 May 1931—bog at Baumgardner's Pond, Jackson Twp., *Gordon & E. Thomas*.

POLEMONIACEAE, Phlox Family

Herbs; leaves alternate or opposite, simple or compound; flowers hypogynous, perfect, often in cymes; calyx 5-lobed; corolla regular, 5-lobed, salverform or campanulate; stamens 5, on corolla-tube; disk present; carpels 3, united; ovary 3-loculed; placentation axile; style 1; stigmas 3; fruit a capsule enclosed by the persistent, sometimes accrescent, calyx.

a Cauline leaves opposite, simple, entire; corolla salverform. 1. PHLOX

a' Cauline leaves alternate, pinnately compound; corolla campanulate. 2. POLEMONIUM

1. PHLOX L. Phlox

Leaves entire, mostly opposite, bracts sometimes alternate; calyx tubular, 5-ribbed, often scarious between ribs; corolla salverform, tube long and slender, the 5 lobes often emarginate; stamens inserted in corolla tube at different levels, wholly included or slightly exserted; style short or elongate; ovules 1-4 in each locule.

a Stems prostrate and matted; leaves rigid, linear to subulate, crowded, ½ to 2 cm long, often with fascicles of leaves in axils; cymes few-flowered; corolla rose-purple or pink, 1-2 cm wide, lobes deeply notched. 3. *P. subulata*

a' Stems erect or ascending; leaves flat, not rigid and subulate, sometimes linear, longer than 2 cm.

b Style not reaching beyond middle of corolla-tube, shorter than fruiting calyx.

c Without prostrate basal shoots; corolla usually red-purple, lobes not emarginate, tube usually hairy; leaf-blades sharp-pointed. 1. *P. pilosa*

c' Prostrate basal shoots present; corolla usually blue or blue-purple, the lobes usually emarginate; leaf-blades acute or obtuse. 2. *P. divaricata*

b' Style reaching beyond middle of corolla-tube and exceeding fruiting calyx.

d Lateral veins of leaf-blades anastomosing near the ciliate margin; pedicels short; inflorescence pyramidal; anthers cream-color. 4. *P. paniculata*

d' Lateral veins of leaf-blades not anastomosing, margins not ciliate.

e Rosette leaves evergreen; basal stolons present at anthesis, blades spatulate and petioled; flowering stems villous above, nodes few and distant; flowers few, in a single cyme; calyx glandular-pubescent. 5. *P. stolonifera*

e' Rosette leaves often not evergreen; basal flowerless shoots present or absent, leaves not spatulate; inflorescence usually of several cymes, cylindrical, much longer than wide; stem dotted with red or purple. 6. *P. maculata*