

† *Branches few and irregular or wholly wanting.*

‡ *Stems rough, tuberculate.*

—9. *E. robustum* A. Br. Stems 3°—11° high, and sometimes nearly 1' thick, 20—48 furrowed; ridges roughened with a single series of transversely-oblong, siliceous tubercles; sheath short, cylindric, marked with black girdles at the base, and at the base of the caducous teeth; ridges of the sheaths tricarinate. Ohio to Louisiana, California and northward. 2964

—10. *E. hiemale* L. (SCOURING-RUSH.) Stems 1°—4° high, rough, 8—34 furrowed; ridges with two indistinct lines of tubercles; sheaths rather long, cylindric, marked with one or two black girdles; ridges of the sheath obscurely quadricarinate; teeth membranous, soon deciduous. North America generally.

‡† *Stems not tuberculate.*

—11. *E. lævigatum* A. Br. Stems 1°—5° high, pale-green, 14—30 furrowed; the ridges almost smooth; sheaths elongate, enlarged upward, marked with a black girdle at the base of the mostly deciduous white-margined teeth, and rarely also at the base of the sheath; ridges of the sheath with a central carina and sometimes with faint, short, lateral ones. North Carolina and Ohio to Louisiana, California and Oregon. 2963

** *Stems slender, tufted, 5—10 grooved.*

—12. *E. variegatum* Schleich. Stems ascending, 6¹/₂—18' long, usually simple from a branched base, 5—10 furrowed; sheaths green, variegated with black above, the teeth 5—10, tipped with a deciduous bristle; central air-cavity small. Bel- 2967
lows Falls, New Hampshire (*Carey*), Niagara Falls to Illinois and northward to Greenland and Alaska.

—13. *E. scirpoides* Michx. Stems filiform, very numerous, 3'—6' high, flexuous and curving, mostly 6-furrowed, with acute ridges; sheaths 3-toothed, the bristle tips more persistent; central air-cavity wanting. New England to Pennsylvania, Illinois and northward. 2968

ORDER VI. LYCOPODIACEÆ Lindl.

Moss-like, terrestrial plants with small, lanceolate or subulate, sometimes oblong or roundish, simple leaves, arranged in