

tapering into an awn as long or longer than the body: flowering glumes 4-7 lines long, nearly smooth to hirsute, bearing a slender scabrous awn, 1-2 inches long. On river banks and bars, Oregon to Nova Scotia, Georgia and Texas.

E. CAPUT-MEDUSÆ L. Sp. 84. Stems slender 12-20 inches long, geniculate below: sheaths about equalling the internodes: ligules very short: leaves 2-3 inches long, involute: spike stout, $1\frac{1}{2}$ -2 inches long, dense: spikelets 1-2-flowered: empty glumes narrow, rough, spreading, about an inch long: flowering glumes hispid, 3-4 lines long, gradually tapering into an awn 2-2½ inches long. On dry prairies, southwestern Oregon: introduced from Europe.

55 SITANION Raf.

Tall annual or perennial grasses with usually flat leaves and terminal spikes. Spikelets 1- to several-flowered, sessile, usually in pairs in alternate notches of the pointed rachis. Empty glumes forming an apparent involucre to the cluster: glumes very long, often 2-parted to the base, the divisions unequal, 2-cleft and long-awned: flowering glumes long-awned, 2-toothed or 3-awned. Palea a little shorter than the glumes, 2-keeled. Stamens 3. Styles very short, distinct, with plumose stigmas. Grain sparsely hairy at the summit, adherent to the palea.

S. elymoides Raf. Journ. Phys. lxxxix, 103. *Elymus Sitanion* Shultes. Stems simple smooth, 6-24 inches high: sheaths smooth to rough or hirsute, usually shorter than the internodes, the upper ones often inflated and enclosing the base of the spike: ligules short: leaves 2-7 inches long, $\frac{1}{2}$ -2 lines wide, usually scabrous, sometimes hirsute, flat or involute: spike 2-6 inches long: spikelets 1-5-flowered: empty glumes entire or divided, often to the base, the divisions subulate and bearing long unequal slender awns: flowering glumes 3-5 lines long, 5-nerved, scabrous toward the apex, bearing a long slender divergent awn 1-3 inches long. In dry soil, California to Brit. Columbia and Kansas.

S. glaber J. G. Smith. Stems stout, erect, densely caespitose, 12-20 inches high: sheaths loose, longer than the internodes, glabrous: leaves 2-6 inches long, glabrous beneath: spikes 2-4 inches long, barely exserted: awns of the flowering glumes 2-2½ inches long. Washington to California.

S. villosum J. G. Smith. Stems stout, mostly erect, 10-15 inches high: sheaths densely hirsute: leaves short, flat, strigose-pubescent and somewhat hirsute: spike 3-4 inches long, enclosed in the upper sheath: empty glumes 3-8-parted, each part bearing a slender awn 2-4 inches long: flowering glume lanceolate, 3-awned, the middle awn stout, 4-5 inches long, the lateral ones slender and usually shorter. Common in dry ground about Pullman, Washington.

S. Leckenbyi Piper Fl. Palouse Reg. 32. Stems stout, erect, 2½-3 feet high: sheaths glabrous or on sterile shoots ciliate: leaves stiff, erect, 2-7 inches long, involute glabrous beneath, strigose above, sharply acuminate: spike 5-7 inches long, slender, usually erect, long-exserted: empty glumes 4, equal, 2½-3 lines long, entire, setaceous: flowering glumes lanceolate, 5-6 lines long, smooth, at base, scabrous above, bifid at the apex and tipped with a straight awn 1½-2 inches long. Bars of Snake river at Wawawai, Washington.

S. flexuosum Piper l. c. Stems tufted 1½-3 feet high, erect: sheaths glabrous or on sterile shoots villous: leaves 2-6 inches long, involute, strigose-pubescent on both sides, or the upper nearly smooth: spike slender, erect, 4 inches long, long-exserted: empty glumes subulate-setaceous, 1-2