glumes

TAXUS

ering glumes cabrous awn, cotia, Georgia

s long, genics very short: dense: spikeabout an inch pering into an n: introduced

leaves and le, usually in apty glumes as very long, 2-cleft and or 3-awned. Stamens 3. rain sparsely

anion Shultes.

agh or hirsute,

an inflated and

thes long, ½-2

lute; spike 2-6

dlvided, often

slender awns:

the apex, bear
l, California to

apitose, 12-20 brous: leaves rely exserted: n to California. 5 inches high:

cent and somesheath: empty hes long; flow-5 inches long, in dry ground

es stiff, erect, sharply acuserted: empty ng glumes lanid at the apex Snake river at

erect: sheaths long, involute, spike slender, setaceous, 1-2 lines long, tipped with an awn 5-6 lines long, sometimes with 2 very short lateral awns: flowering glumes lanceolate, smooth at the base, scabrous above, bifld, bearing a divergent awn 1½-2 inches long. Bars of Snake river at Wawawai, Washington.

S. Brodiei Piper l. c. Stems erect, 1½-2 feet high: leaves stiff, smooth on both sides, involute, 5-7 inches long: spike pale green, long-exserted, erect, 2½-3½ inches long: empty glumes subulate, entire, 4 lines long, bearing an awn 6 lines long: flowering glumes lanceolate, densely appressed-pubescent, 6 lines long, rarely with 2 short lateral awns. Bishop's Bar, Snake river, Washington.

CLASS 2, GYMNOSPERMÆ.

Monœcious or diœcious trees or shrubs, mostly evergreen, with usually rigid needle-like, subulate, or scale-like leaves. Ovules naked upon a scale, bract or disk, or within a more or less open perianth.

SYNOPTICAL KEY.

- 110 Taxaceæ Dicecious evergreens: flowers solitary and axillary: ovule solitary, in fruit a bony seed within a fleshy envelope or cup-shaped disk.
- 111 Pinaces Mostly monoccious and evergreen trees or shrubs: staminate flowers in aments: pistillate flowers in scaly aments becoming cones or berry-like, ovules 2 or more at the base of each scale.

ORDER 110 TAXACEÆ Lindl. Nat. Syst. ed. 2, 316.

Sparingly resinous trees or shrubs with scattered, in ours evergreen, linear leaves spreading in 2 ranks and dioccious axillary and solitary flowers achlamydeous and naked or surrounded by the imbricated and usually decussate bud-scales. Staminate flowers with the filaments monadelphous in a column, each filament surmounted by several more or less united pendent anther-cells, dehiscing longitudinally on the lower side, Pollen globose. Pistillate flowers of a solitary orthotropous ovule which in fruit becomes a bony-coated seed raised upon or more or less surrounded by or consolidated with a fleshy disk, cup or other coating. Embryo axile, in fleshy or farinaceous albumen. Cotyledons only 2, semiterete.

1 TAXUS L. Sp. 1040.

Trees or shrubs with evergreen spirally arranged short-poir sed linear flat mucronate leaves, spreading so as to appear 2-ranked, and axillary and solitary sessile or subsessile very small aments. Staminate aments consisting of a few scaly bracts and 5-8 stamens, their filaments united to the middle: anthers 4-6-celled. Ovules solitary, axillary, erect, subtended by a fleshy annular disk, which is bracted at the base. Fruit consisting of the fleshy disk which becomes cup-shaped, red and nearly encloses the bony seed.

T. brevifolia Nutt. Sylva iii, 86 t. 108. A tree 20-90 feet high, by