

inches to 2 feet
base: sheaths
of very short
volute: panicle
or less, erect:
purplish: empty
ved, second one:
In salt marshes
interior, also on

g. 8.

open panicles.
empty, thin-
ones, unequal,
membranous,
glume. Stam-

us: stems erect,
sheaths usually
1-3 lines wide,
whorled, spread-
ata $1\frac{1}{4}$ - $1\frac{1}{2}$ lines
t half as long, as
g glumes 1- $1\frac{1}{4}$
rope and Asia.

. ii, 189.

tracted nodding
chella prolong-
er ones empty,
membranaceous,
securely nerved,
t. Stamens 3.
rous.

der, 15-30 inches
the internodes:
s long, 2-3 lines
ets 2-4 flowered,
y equal, about 3
ng glumes 2- $2\frac{1}{2}$
e, lacerate, some-
ets shorter than
Oregon to Mon-

3. (1763.)

merous spike-
flowered, terete
ty, obtuse or
rounded on
hyaline apex.

Palets scarcely shorter than the glumes, rarely longer, 2-keeled. Stamens 2 or 3. Styles distinct, with plumose stigmas. Grain smooth, enclosed in the glume and partly free, or when dry slightly adhering to the palet.

P. fuitans Kuntze Rev. Gen. Pl. 782. *G. fuitans* R. Br. Stems 2-5 feet high, erect: stout, simple smooth, often rooting from the lower nodes: sheaths loose, generally longer than the internodes smooth or rough: ligules 2-3 lines long: leaves 5-12 inches long, 2-6 lines wide scabrous: often floating: panicle 9-18 inches long; the lower branches at first appressed, later ascending 3-6 inches long: spikelets linear, 7-13-flowered, 4-12 lines long: empty glumes unequal, 1-nerved, the lower acute or obtuse, the upper obtuse or truncate. In water and bogs, California to Alaska and across the continent.

P. borealis Nash Bull. Torr. Bot. club xxiv, 348. Stems weak, erect, glabrous, $1\frac{1}{2}$ -3 feet high: sheaths loose, longer than the internodes: leaves 4-10 inches long, pale green, nearly smooth: panicle lax, 7-15 inches long, the branches single or in pairs usually short and erect: spikelets linear, 5-7 lines long: flowering glumes very thin, $1\frac{1}{2}$ -2 lines long, 7-nerved, the nerves minutely hispid. In shallow ponds, eastern Washington to California and the Eastern States.

P. nervata Kuntze l. c. *G. nervata* Trin. Stems slender, erect, 1-3 feet high, simple, smooth: sheaths shorter than the internodes, usually more or less rough: ligules $\frac{1}{2}$ line long, truncate: leaves 6-12 inches long, 2-5 lines wide, acute, smooth beneath, rough above: panicle 3-8 inches long, open, the filiform branches spreading, ascending or often drooping, rarely erect, the lower ones 2-5 inches long: spikelets 3-7-flowered, $1-1\frac{1}{2}$ lines long: empty glumes obtuse, 1-nerved; flowering glumes about $\frac{3}{4}$ line long, obtuse or rounded at the apex, with 7 sharp distinct nerves and evident furrows between them. Common in wet places and along streams, California to Alaska and across the continent.

P. pallida Kuntze l. c. 783. Pale green, stems 1-3 feet long, assurgent, simple, smooth: sheaths loose, shorter than the internodes, ligules 2-3 lines long, acute: leaves 2-6 inches long, 1-2 lines wide, smooth beneath, rough above: panicle 2-7 inches long, the branches erect or ascending, often flexuous, 1-2 inches long: spikelets 4-9-flowered, $2\frac{1}{2}$ - $3\frac{1}{2}$ lines long: empty glumes unequal, the first 1-nerved, obtuse, shorter than the 5-nerved and truncate second one: flowering glumes $1\frac{1}{4}$ - $1\frac{1}{2}$ lines long, truncate and denticulate at the apex, sharply and distinctly 7-nerved, with plain furrows between the nerves. In shallow water, Washington to Indiana and New Brunswick.

P. pauciflora Kuntze l. c. *G. pauciflora* Presl. Stems stout, 2-4 feet long: sheaths nearly smooth, loose, usually longer than the internodes: ligules rounded or more often lacerate 2-3 lines long: leaves 6-15 inches long: 3-9 lines wide: panicle 5-8 inches long, somewhat contracted and flexuous or at length loose and open, usually purplish, its branches hispid, 4 inches long or less: spikelets 5-7-flowered, 2-3 lines long: empty glumes less than half as long as the flowering ones, the first ovate, denticulate, near the subacute apex, smooth, 1-nerved $\frac{1}{2}$ line long; the second erose at the rounded apex, 3-nerved, nearly 1 line long: flowering glumes broadly oblong, erose at the rounded scarious apex, hispidulous on the keel, prominently 5-nerved, $1-1\frac{1}{2}$ lines long: palet oblong, emarginate, slightly pubescent on the 2 keels, nearly equalling the glume. In shallow water or wet places, California to Alaska and Colorado.

P. Americana MacM. Met. Minn. 81. Stems stout, erect, simple, smooth, 3-5 feet high: sheaths loose, smooth or somewhat rough: ligules 1-2 lines long, truncate: leaves 7-12 inches long, 3-5 lines wide, usually smooth beneath, rough above: panicle 8-16 inches long, its branches spreading, ascend-