

lanceolate, acuminate, 5 to 8 inches long, $1\frac{1}{2}$ to 2 inches broad, spreading, sparsely scaberulous above, the lower face, and especially the midvein, rough with short rigid acute closely appressed hairs; petioles an inch long or more; sheaths clothed with long closely appressed bristly hairs, the summit somewhat lacerate and bristly-ciliate: spikes several, long, linear, somewhat drooping: achenes thick-lenticular, not highly polished but rather dull blackish.

Swamps along the Mississippi near its mouth in extreme southern Louisiana, 18 July, 1885, Rev. A. B. Langlois. A tall and rank member of this group, with long, half-drooping spikes. Aquatic and floating form to be sought.

P. CUSICKII. Rather slender upright amply leafy stems two feet high or more from a prostrate and submersed rooting portion quite as slender, both the submersed and aerial internodes about 3 inches long, the aerial nodes abruptly swollen and the whole stem strongly striate, glabrous: blades of the short-petioled and spreading leaves 5 to 8 inches long, oblong-lanceolate, acuminate, thin, slightly undulate, inconspicuously and finely appressed-pubescent on both faces, only the stout closely appressed hairs of the midvein beneath with a thick base: ocreæ hyaline, clothed with long soft appressed hairs; peduncles glandular-hispid, $2\frac{1}{2}$ inches long, the cylindric spikes narrow and about as long, the whole not equalling the upper leaves; bracts with long appressed dorsal and margined hairs, and some shorter gland-tipped ones at base.

Tules of the Grand Rond Valley, eastern Oregon, Aug., 1897, W. C. Cusick; the type in my herbarium under the collector's n. 1764. Evidently here, as in the case of *P. rigidula* of the upper Missouri region, we have a species truly aquatic, as to the basal parts and the roots, but with still the habit, foliage, and inflorescence of the strictly terrestrial species.

I refer to *P. Cusickii* various sheets collected in eastern Oregon, Washington, and Idaho, by Suksdorf, Leiberg, Sandberg, Elmer and others.

P. FRANCISCANA. Terrestrial state erect, densely leafy, 2 feet high, the nodes not swollen, internodes about 2 inches long,