culm 2-3, rigid, 1-6 cm. long. Panicle exserted, linear, oval or pyramidal, 6-10 cm. long, rays in half-whorls of 4-9, the longest 2-4 cm. long, and flower-bearing above the middle. Spikelets tinged with red, linear, 2-4-flowered, joint of rachilla 1 mm. long; empty glumes keeled, acute, 1-nerved, first 1-2 mm., second 2-3 mm. long; floral glume oval, abruptly pointed, 2.7-3.2 mm. long; palea linear, ciliolate or scabrid on the keels, as long or nearly as long as its glume.

Nearly allied to *A. distans*, and perhaps it should be included in that species.

Oregon (alkali flats), *Howell;* California, *Lemmon.*

Alkaline soils, Nevada, Oregon, and California.

4. **A. Suksdorfii** (Vasey). *Poa Suksdorfii* Vasey ined.

A densely tufted light-colored grass, 10-15 cm. long; no rootstocks. Ligule truncate, decurrent, 2 mm. long; blades of sterile shoots rigid, recurved, conduplicate, pungent-pointed, 5-7 cm. long, those of the culm erect and shorter. Panicle narrow, simple, spikelike, purplish, 2-5 cm. long. Spikelets linear-lanceolate, 1-3-flowered, 4-6 mm. long; empty glumes linear-lanceolate, first 3-(rarely 1) nerved, 3-4 mm. long; second a little longer; floral glume chartaceous, ovate when spread, 3.2-4.2 mm. long; palea ciliate on the keels.

Washington, *Suksdorf* 1116.

Gravelly places near glaciers. September.

5. **A. pulchella** (Vasey). *Poa pulchella* Vasey, Coult. Bot. Gaz. 7: 32 (1882).

Densely tufted, the decumbent base from much-branched rootstocks; culms slender, smooth, erect, 10-20 cm. high. Leaves of sterile shoots numerous, blades conduplicate, abruptly pointed, 2-4 cm. long, less than 1 mm. wide when spread, those of the culm 1-2 in number, 1-2 cm. long; ligule 2-3 cm. long. Panicle ovoid or pyramidal, 2-4 cm. long, with rays mostly in pairs, smooth, each bearing a single spikelet. Spikelets purplish, oval or linear, 3-5-flowered, 6-8 mm. long, joint of rachilla scabrid, 1.2 mm. long; empty glumes obtuse or acute, often erosely denticulate, broadly scarious-margined, first ovate-lanceolate, 1-nerved, second oval-lan-