

Panicle slender, 8–15 cm. long; first glume 7 mm. long, second 6 mm. long; awns of floret 1.5 mm. long.

Northeast Florida, *Curtiss* 3429; Mississippi, *Tracy* 133; New Jersey, *Beal* 38.

15. **A. oligantha** Michx. Fl. Bor. Am. 1: 41 (1803). *A. Adscensionis* Walt. Fl. Car. 74 (1788), not L. *Chataria oligantha* Beauv. Agrost. 30 (1812).

Apparently annual; culms with tumid nodes, sparingly branched, 20–50 cm. high. Sheaths about as long as the internodes some of which are naked, as the branches crowd the sheaths; ligule very short, with a few long hairs above it. Panicle loose, few-flowered, racemose, 10–15 cm. long. Empty glumes nearly equal, 2 cm. long, first 3–5-nerved, with a very short awn, second 1-nerved, with an awn 1 cm. long; floret 15 mm. long; awns diverging when mature, the central one 4 cm. long, the lateral ones a little shorter.

District of Columbia, *McCarthy*; Massachusetts, *C. E. Faxon* 8; Mississippi, *Tracy*.

Virginia, Illinois, Arkansas and southward.

Var. **nervata**. Empty glumes shorter than the floret, first 7-nerved, the divergent awns 1–2 cm. long.

Oregon (Grant's Pass), *Howell*.

16. **A. Palmeri** Vasey, Bull. Torr. Club, 10: 42 (1883).

Perennial; 15–30 cm. high. Leaf-blades involute, setaceous, the lower 2–5 cm. long, some of those above 10–12 cm. long. Spikelets 80–100 to a culm in some cases, in terminal and lateral panicles, 12 cm. long, 6 cm. wide; branches scabrous. Some of the lower spikes often more or less reduced or abortive. Spikelets mostly in pairs; first glume linear-lanceolate, 1-nerved, about 7 mm. long, 1 mm. wide; second membranous, narrowly linear, 8–9 mm. long; floret cylindrical, 4 mm. long, the awns nearly equal, erect or diverging, 10 mm. long.

Colorado, *Jones* 4138; West Texas, *Havard*; Nebraska, *Duffey*.

Nebraska, Arizona and Texas.

17. **A. virgata** Trin. Spreng. Neue Entdeck. 2: 60 ().

Culms erect, slender, naked above, sparingly branching below.