**Vascular Plants of Williamson County**

*Panicum dichotomiflorum* subsp. *dichotomiflorum* – *FALL PANICGRASS* [Poaceae]

*Panicum dichotomiflorum* Michx. subsp. *dichotomiflorum*, FALL PANICGRASS. Annual, in range rhizomes not observed, fibrous-rooted, many-stemmed at base, tufted with principal shoots decumbent and spreading, in range to 30 cm tall; shoots with basal leaves and cauline leaves, appearing completely glabrous from ground level upward. **Stems (culms):** slightly compressed-cylindric, to 4 mm diameter, internodes 20–80 mm long, glabrous; solid. **Leaves:** alternate distichous, simple with sheath; prophyll present belowground in axil of each branch, membranous aging papery, broadly triangular strongly flattened, to 9 mm long, broadly 2-keeled, acute at tip, keel to 0.8 mm wide and short-ciliate, margins to 2 mm wide; sheath open, to 110 mm long, low-ridged, bases of basal leaf sheaths with appressed straight hairs to 1.5 mm long, without lobes (auricles) at top; ligule membranous at base and ciliate, 1–2 mm long; blade linear, 30–250 × 3.5–11 mm, flat, minutely serrate-scabrous on margins, long-tapered at tip, parallel-veined with many fine veins raised on surfaces. **Inflorescence:** spikelets, in terminal and axillary, wispy, open panicles, panicle ovoid, in range 120–250 mm, 100+ mm across, with 3–5+ orders of mostly alternate, lateral branches, the lowest node with 1 branch, nodes 2–3 with 1–5 branches (pseudowhorl and unequal), the longest branch to 110 mm long, with an axillary pulvinus and pulvini for subsequent branchlets, spikelet typically with 2 florets, lower floret sterile and reduced and upper floret bisexual, bracteate, lacking awns; peduncle exserted from sheath of flag leaf and blade of flag leaf < node of the lowest branch; rachis ± cylindric or somewhat angled, smooth and glabrous (lacking pilose hairs), upper portion scabrous; axes cylindric becoming angled and minutely scabrous approaching the lowest fork, smaller axes angled and scabrous along edges, stalk of spikelet 1–3 mm long, scabrous. **Spikelet:** narrowly ovate, in range 2.3–2.6 × 0.7–1 mm, breaking below the glumes as 1 unit; **glumes** 2, unequal, dimorphic, lower glume ovate, in range (0.35–)0.5–0.8 mm long (to 1/3 length of spikelet), encircling at base but not overlapping, ± obtuse at tip, 1 or faintly 3-veined with midvein somewhat raised and sometimes also with several scabrous teeth, upper glume ovate, in range ca. 2.2 mm long, colorless but purple-red at tip and tinged purple-red on margins, with 9 green veins, acute at tip; **lemma of lower floret** like upper glume, subequal, ovate, in range ca. 2.1 mm long, colorless but purple-red at tip and tinged purple-red on margins, with 9 green veins, acute at tip scarcely gapped from upper glume at tip; **palea of lower floret** membranous, narrowly 2-folded, to 1.7 × 0.4–0.45 mm, 2-veined close to margins; lemma of upper floret elliptic, ca. 1.7 mm long, with margins incurved around palea, smooth, glossy, colorless and glabrous at anthesis drying whitish and stiff; **palea of upper floret** broadly elliptic, ± 1.5 mm long with inrolled margins, smooth, glossy, colorless and glabrous at anthesis drying whitish and stiff. **Flower:** bisexual; **perianth (lodicules)** 2, conic, ca. 0.35 mm long, translucent; **stamens** 3, free; filaments threadlike, ca. 1.5 mm long; anthers dorsifixed, dithecal, 1–1.3 mm long, orange, longitudinally dehiscent; pollen orange; **pistil** 1, 1/9–2.1 mm long; ovary superior, ellipsoid, ca. 0.5 × 0.25 mm, pale green to orangish, glabrous, 1-chambered with 1 ovule; styles 2, colorless to midpoint, above midpoint feathery stigmas (plumose) exserted and ascending within 1 mm from tip of lemma. **Fruit:** achene (caryopsis), firmly enclosed in indurate lemma and palea unit and dispersed within brown, shredded glumes.
and sterile floret, unit 1.6–1.7 × 0.6–1 mm, glossy brown with paler veins of; achene (caryopsis), tightly packed within lemma + palea, broadly ellipsoid, ca. 1.3 mm long, whitish.
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