

MELICA SUBULATA (POACEAE: MELICEAE): THE FIRST REPORT FOR COLORADO—*Melica* L., a genus of \pm 80 species, is found in temperate regions throughout the world, except Australia (Clayton and Renvoize 1986). Species of *Melica* are found in a variety of habitats, from woodland shade to dry stony slopes (Clayton and Renvoize 1986). There are 17 species of *Melica* in the United States. Boyle (1945) reported three taxa as occurring in Colorado, *M. bulbosa* Geyer ex Porter & J. M. Coulter, *M. porteri* Lamson-Scribner var. *porteri*, and *M. spectabilis* Lamson-Scribner. In the summer of 1992, Stanley and Gretchen Jones discovered a fourth taxon in the state, *M. subulata* (Grisebach) Lamson-Scribner. This represents a range extension of approximately 400 km (250 miles) from the closest previously known locality in Fremont County, Wyoming, as reported by Hallsten et al. (1987).

Melica subulata has not previously been reported as occurring in Colorado (Boyle 1945; Chase 1951; Harrington 1964; Weber 1987, 1990; Weber and Wittmann 1992). This species is found in mesic forests from Alaska south to Canada, Washington, Oregon, California, Idaho, Montana, Wyoming, and Colorado.

The following is a key to identify the species of *Melica* found in Colorado.

KEY TO *MELICA* OF COLORADO

1. Pedicels sharply bent; spikelets disarticulating below the glumes *M. porteri* var. *porteri*
1. Pedicels not sharply bent; spikelets disarticulating above the glumes 2
 - 2(1). Lemmas strigose over the veins; palea about 1/2 as long as the lemma; lemma apex acuminate to subattenuate *M. subulata*
 2. Lemmas glabrous or scabrous over the veins; palea about 2/3–3/4 as long as the lemma; lemma apex rounded to acute 3
 - 3(2). Second glumes less than 1/2 the length of the spikelet *M. spectabilis*
 3. Second glumes 2/3–3/4 the length of the spikelet *M. bulbosa*

Voucher specimen. COLORADO. Gunnison Co.: Gunnison National Forest, 0.6 mi S on USFR 898 from McClure Summit, hillside seep in aspen-spruce forest with gray silty clay loam soil, elev. 2660 m (8727 ft), 24 Jul 1992, S. & G. Jones 9509 (jkw, sdj, TEX, UTC). Associates: *Veratrum californicum* Durand, *Zigadenus elegans* Pursh, *Carex stenoptila* F. Herm., *C. microptera* Mack., *Senecio bigelovii* A. Gray, *Rudbeckia occidentalis* Nutt., *Mertensia* sp., *Potentilla* spp., *Rosa* sp., *Delphinium* sp., *Geranium* sp., *Populus tremuloides* Michx., and *Picea* sp.

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EUSTACHYS GLAUCA AND *E. CARIBAEA* (POACEAE: CHLO-
RIDEAE): THE FIRST REPORTS FOR MISSISSIPPI—*Eustachys* Desv. is
a small tropical and subtropical genus of ten species, that is principally
found in the New World (Clayton and Renvoize 1986). Three species are
now known to occur in Mississippi: *Eustachys caribaea* (Sprengel) Herter, *E.*
glauca Chapm. and *E. petraea* (Sw.) Desv. *Eustachys caribaea*, native to South
America, has been reported from Louisiana (McKenzie et al. 1987) and Texas
(Wipff and Hatch 1992). *Eustachys glauca*, native to North America, has been
reported from Florida, Georgia and North Carolina and is found in brackish
marshes, wet prairies and swamps (Chase 1951). *Eustachys petraea* is found in
the SE U.S.A., eastern Mexico, Belize, Honduras, Costa Rica, and Panama
(Pohl 1980). In the United States, *E. petraea* occurs in the Coastal Plain from
North Carolina west to Texas on coastal sands, sandy fields and open pine
woods (Chase 1951).

KEY TO *EUSTACHYS* OF MISSISSIPPI

1. Lower (fertile) floret glabrous, rarely sparsely pubescent on the midvein and
margins; second glume apex is rounded or minutely notched; lower (fertile)
lemma dark chocolate brown to black *E. glauca*
1. Lower (fertile) floret conspicuously pubescent on the midvein and margins;
second glume apex is conspicuously bifid, the lobes are rounded to acute;
lower (fertile) lemma dark chocolate brown to black or pale to golden brown 2



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