

## NEW COMBINATION IN *CYMOPTERUS GLOMERATUS* (APIACEAE)

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### ABSTRACT

*Cymopterus acaulis* var. *higginsii* (Welsh) Goodrich is endemic to Kane Co., Utah. These plants have a different petal and anther color combination and are allopatric with other infraspecific taxa within *Cymopterus glomeratus*. The taxon is recognized here as ***Cymopterus glomeratus* var. *higginsii*** (Welsh) K.M. Mason, **comb. nov.**

Sun et al. (2005) have recommended that *Cymopterus glomeratus* be treated as a highly variable species, with no varieties or subspecies. Other recent students of the group, however, have recognized infraspecific taxa (Hartman 2006; George et al. 2014; Goodrich 2015; Mansfield et al. 2017).

Plants that have been identified as *Cymopterus higginsii* Welsh are part of the *C. glomeratus* complex (Sun et al. 2005). Goodrich (2015) found it useful to continue to recognize *C. higginsii* at specific rank because it has a limited distribution, is allopatric from other taxa, and has a distinctively different combination of petal and anther colors. Mansfield et al. (2017) explicitly declined to recognize var. *higginsii*, following Cronquist (1997), who equated var. *higginsii* with var. *fendleri*. Var. *higginsii* is a dark purple-flowered form known only from Kane Co., Utah — its range is entirely surrounded by that of mostly yellow-flowered var. *fendleri*, and it is similar to that variety except in flower color, though there may also be subtle differences in habitat. These plants are justifiably recognized at varietal rank, consistent with other currently recognized intraspecific taxa of *C. glomeratus*.

***Cymopterus glomeratus* var. *higginsii*** (S.L. Welsh) K.M. Mason, **comb. nov.** *Cymopterus higginsii* S.L. Welsh, Great Basin Naturalist 35: 377. 1976. *Cymopterus acaulis* Raf. var. *higginsii* (S.L. Welsh) Goodrich, Great Basin Naturalist 46: 79. 1986. Higgins' spring-parsley

#### Key to varieties of *Cymopterus glomeratus*

1. Mericarp abaxial wings 0–0.2 mm high; carpophore present, deciduous; Colorado (Delta, Montrose, and Ouray cos.) ..... var. **concinnus**
1. Mericarp abaxial wings 0.4–3 mm high; carpophore absent; w USA, including Colorado (Delta, Montrose, and Ouray cos.).
  2. Petals and anthers rose to purple; Utah (Kane Co.) ..... var. **higginsii**
  2. Petals and anthers white or yellow, or if anthers purple then petals white or yellow; w North America, including Utah (Kane Co.).
    3. Petals and anthers white (both yellow and white in the Uintah Basin of Utah) ..... var. **glomeratus**
    3. Petals yellow, turning white or cream in age, rarely purple, anthers yellow.
      4. Mericarp wings 2.5–3 mm high, planar or slightly wavy; sw Idaho, se Oregon ..... var. **greeleyorum**
      4. Mericarp wings 0.4–2.5 mm high, wavy to strongly corrugated; Arizona, Colorado, New Mexico, Texas, Utah.

5. Peduncles 2--27 cm, usually equaling or exceeding leaves; mericarps 4--10 mm wide; plants 2--25 cm ; Arizona, Colorado, New Mexico, Texas, c and e Utah ..... var. **fendleri**
5. Peduncles 2.5--5.5 cm, usually shorter than, sometimes exceeding, leaves; mericarps 4--5 mm wide; plants 5--7(--8.5) cm; Utah (Millard and Tooele cos.) ..... var. **parvus**

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