

**SYNONYMY FOR TEN OF THE RARE PLANT TAXA
FOUND IN THE ASH MEADOWS NATIONAL WILDLIFE REFUGE**

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- Astragalus phoenix** Barneby, *Madroño* 20:395, f. 1 (1970) [published 1971]. Holotype: NY 5656; Isotypes: BRY, RSA, UTC; U.S.A., Nevada: Nye Co., on barren, alkaline, white clay slopes overlooking a dry wash at the east end of Ash Meadows, elevation 2300 feet, T18S R 50E, Sec. 1 or 12, plants forming mat-cushions up to 4 dm across, corolla pink-purple, the banner pale but still anthocyanic; 21 April 1966; *Arthur Cronquist 10657*.
- Calochortus striatus** Parish, *Bull. S. Calif. Acad. Sci.* 1(9):122 (1902). Type [from protologue; no holotype designated]; Isotypes: MO, US; U.S.A., California: [San Bernardino Co.], Mohave Desert, in alkaline meadows at Rabbit Springs, altitude 2700 feet; May 1882; *S.B. Parish & W.F. Parish 1342*.
- Centaurium namophilum** Reveal, C.R. Broome & Beatley, *Bull. Torrey Bot. Club* 100(6):353 (1974). *Zeltnera namophila* (Reveal, C.R. Broome & Beatley) G. Mans., *Taxon* 53(3):732 (2004). Holotype: US; Isotypes: ARIZ, BRY, CAS, COLO, DUKE, G, GH, K, MICH, MO, NY, OKL, P, RM, RSA, SMU, TEX, UC, UTC, WTU, "and elsewhere"; U.S.A., Nevada: Nye Co., Ash Meadows, in moist soil near spring at the "Collins Ranch", 1 km south of Devil's Hole, Death Valley National Monument, along the Ash Meadows road, T 18S, R 50E, Sec. 1, SW 1/4, elevation 700 m; 25 July 1972; *Beatley & Reveal 13447*. [NOTE: no information about the holotype is listed in the online Botanical Type Specimen Register at US; Mansion's 2004 article lists the holotype at GH, but the Harvard University Herbaria online Index of Botanical Specimens lists GH 178901 (barcode 72134) as an isotype.]
- Cordylanthus tecopensis** Munz & J.C. Roos, *Aliso* [as 'El Aliso'] 2(3):233 (1950). Holotype: RSA 48170 [RSA 48735 in Consortium of California Herbaria online database]; U.S.A., California: Inyo Co., below Tecopa Hot Springs, elevation 1400 feet, sunny, moist alkaline seep; 9 October 1949; *P.A. Munz & G.R. Campbell 14358*.
- Enceliopsis nudicaulis** var. **corrugata** Cronquist, *Bull. Torrey Bot. Club* 99(5):246, f. 1 (1972) [published 1973]. Holotype: NY 168360; Isotypes: NA, NCU, NTS, NY, OKL; U.S.A., Nevada, Nye Co., about outcrops of a pale, hard limestone which weathers to a whitish, alkaline soil, in *Larrea* desert above the southwest side of a large playa, about 25 km (airline) southeast of Lathrop Wells, T 17S R 51 E, about Sec. 20, elevation about 730 m, rays 11–23, yellow, disk orange; 20 April 1966; *Arthur Cronquist 10648*.
- Grindelia fraxinipratensis** [published as '*fraxino-pratensis*'] Reveal & Beatley, *Bull. Torrey Bot. Club* 98(6):334 (1971) [published 1972]. Holotype: US 2632682 (barcode 8205); Isotypes: "35 sheets will be distributed by US" [includes NCU, OKL]; U.S.A., Nevada: Nye Co., Amargosa Drainage Basin, Ash Meadows, meadow along Ash Meadows road between Devil's Hole and Ash Meadows Lodge, 0.8 airline miles northwest of lodge, T 18S, R 50E, Sec. 23, SE 1/4, elevation 2160 feet; 21 August 1968; *J.L. Reveal & N.H. Holmgren 1887*.

- Ivesia kingii** var. **eremica** (Coville) Ertter, Syst. Bot. 14(2):244 (1989). *Potentilla eremica* Coville, Proc. Biol. Soc. Wash. 7(2):76 (1892); *Horkelia eremica* (Coville) Rydb., [Monograph of the North American Potentilleae], Mem. Dept. Bot. Columbia Coll. 2:147, pl. 89 (1898); *Ivesia eremica* (Coville) Rydb., N. Amer. Fl. 22(3):286 (1908). Holotype: US 16084 (barcode 36817); U.S.A., Nevada: Nye Co., near Ash Meadows [Watkins'] ranch, about 2 miles east of the ranch, altitude 740 m; 2 March 1891; *F.V. Coville & F. Funston 366*, Death Valley Expedition.
- Mentzelia leucophylla** Brandege, Bot. Gaz. 27(6): 448 (1899). Holotype: UC 108365; Isotype: US; U.S.A., Nevada: Nye Co., Ash Meadows; 1 May–1 October 1898; *C.A. Pupus 6032*.
- Nitrophila mohavensis** Munz & J.C. Roos, Aliso [as 'El Aliso'] 3(2):112, f. 1–3 (1955). Holotype: RSA 89531; Isotypes: CAS, Clark Herbarium at Riverside [Calif.] Metropolitan Museum, COLO, DS, GH, K, MO, NY, RM, UC, US, WTU; U.S.A., California: Inyo Co., open flats of Amargosa Desert, 3 miles northeast of Death Valley Junction along Ash Meadows road, elevation 2050 feet, locally abundant in heavily alkaline mud, with *Cordylanthus tecopensis*, *Distichlis stricta*, and *Cleomella brevipes*; 13 June 1954; *J.C. Roos & A. R. Roos 6140*.
- Spiranthes infernalis** Sheviak, Rhodora 91(867):226, f. 1 (1989). Holotype: NYS; U.S.A., Nevada: Nye Co., side of road northeast from Death Valley Junction, 2.4 miles south of turn-off to Devil's Hole, Ash Meadows, T 18S, R 50E, Sec. 23 (center E edge), elevation 2190 feet, marshy meadow along stream, in sod of *Distichlis spicata* var. *gracilis*, with *Spartina gracilis* and *Anemopsis californica*; 8 August 1984; *C.J. Sheviak 2741a*.

ADDITIONAL NOTES:

Centaurium namophilum versus *Zeltnera namophilum*: Many information sources, including the USDA PLANTS database, list *Centaurium namophilum* as the accepted name for this species. However, James S. Pringle, the author of the *Centaurium* treatment for the *Jepson Manual* (ed. 2; draft treatment available online at <http://ucjeps.berkeley.edu/tjm2/review/treatments/gentianaceae.html>) and for the forthcoming volume 14 in the *Flora North America* series (anticipated publication ca. 2012), will be using *Zeltnera namophilum* as the accepted name.

Various online sources (ITIS, NatureServe, and the USDA PLANTS database) do not recognize varieties for *Ivesia kingii*; they list *Ivesia kingii* var. *eremica* as a synonym of *Ivesia kingii*. Nonetheless, Barbara Ertter will be maintaining *Ivesia kingii* var. *eremica* in her treatment of this genus in the forthcoming volume 9 of the *Flora North America* series.

ABBREVIATIONS

AUTHORS:

G. Mans. = G. Mansion
Rydb. = Rydberg

PUBLICATIONS:

Bot. Gaz. = Botanical Gazette
Bull. S. Calif. Acad. Sci. = Bulletin of the Southern California Academy of Sciences
Bull. Torrey Bot. Club = Bulletin of the Torrey Botanical Club
Mem. Dept. Bot. Columbia Coll. = Memoirs, Department of Botany, Columbia College
[University]

N. Amer. Fl. = North American Flora

Proc. Biol. Soc. Wash. = Proceedings of the Biological Society of Washington

Syst. Bot. = Systematic Botany

HERBARIUM abbreviations are from P.K. Holmgren and N.H. Holmgren, Index Herbariorum: A Global Directory of Public Herbaria and Associated Staff. <http://sweetgum.nybg.org/ih/>.