

NEW COMBINATIONS FOR THE FLORA OF NEVADA, U.S.A.

Arnold Tiehm

University of Nevada, Reno
Herbarium

1664 N. Virginia St., MS-186
Reno, Nevada 89557, U.S.A.
atiehm@unr.edu

ABSTRACT

Presented here are new combinations made in advance of publication of an *Annotated Checklist for the Flora of Nevada*. New combinations of *Aliciella latifolia* var. **imperialis**, *Androsace elongata* var. **acuta**, *Arceuthobium abietinum* var. **grandae**, *Arceuthobium abietinum* var. **magnificae**, *Arceuthobium abietinum* var. **mathiasenii**, *Arceuthobium abietinum* var. **wiensii**, *Artemisia cana* var. **bolanderi**, *Askellia pygmaea* var. **ramosa**, *Boechera fernaldiana* var. **vivariensis**, *Calystegia sepium* var. **limnophila**, *Camissoniopsis pallida* var. **hallii**, *Cassiope mertensiana* var. **californica**, *Centaurea stoebe* var. **micranthos**, *Chloropyron maritimum* var. **canescens**, *Chloropyron maritimum* var. **palustre**, *Chloropyron maritimum* var. **parryi**, *Chylismia brevipes* var. **pallidula**, *Chylismia cardiophylla* var. **cedrosensis**, *Chylismia cardiophylla* var. **robusta**, *Chylismia claviformis* var. **aurantiaca**, *Chylismia claviformis* var. **cruciformis**, *Chylismia claviformis* var. **funerea**, *Chylismia claviformis* var. **lancifolia**, *Chylismia claviformis* var. **peeblesii**, *Chylismia claviformis* var. **peirsonii**, *Chylismia claviformis* var. **purpurascens**, *Chylismia claviformis* var. **rubescens**, *Chylismia claviformis* var. **wigginsii**, *Chylismia claviformis* var. **yumae**, *Chylismia scapoidea* var. **brachycarpa**, *Chylismia scapoidea* var. **macrocarpa**, *Chylismia scapoidea* var. **utahensis**, *Chylismia walkeri* var. **tortilis**, *Crepis runcinata* var. **hallii**, *Dianthus armeria* var. **armeriastrum**, *Eremothera boothii* var. **alyssoides**, *Eremothera boothii* var. **condensata**, *Eremothera boothii* var. **decorticans**, *Eremothera boothii* var. **desertorum**, *Eremothera boothii* var. **villosa**, *Eriastrum diffusum* var. **coachellae**, *Eriastrum diffusum* var. **utahense**, *Eriastrum eremicum* var. **markianum**, *Eriastrum eremicum* var. **yageri**, *Eriastrum eremicum* var. **zionis**, *Festuca brachyphylla* var. **breviculmis**, *Gilia aliquanta* var. **breviloba**, *Gilia brecciarum* var. **jacens**, *Gilia brecciarum* var. **neglecta**, *Gilia cana* var. **bernardina**, *Gilia cana* var. **speciformis**, *Gilia cana* var. **speciosa**, *Gilia cana* var. **triceps**, *Gilia ochroleuca* var. **bizonata**, *Gilia ochroleuca* var. **exilis**, *Gilia ochroleuca* var. **vivida**, *Hedeoma nana* var. **californica**, *Hulsea vestita* var. **inoensis**, *Ipomopsis tenuituba* var. **latiloba**, *Langloisia setosissima* var. **punctata**, *Leontodon saxatilis* var. **longirostris**, *Leptosiphon chrysanthus* var. **decorus**, *Leptosiphon nuttallii* var. **howellii**, *Leptosiphon nuttallii* var. **pubescens**, *Linanthus bigelovii* var. **johnsonii**, *Linanthus pungens* var. **pulchriflorus**, *Linanthus watsonii* var. **dolomiticus**, *Monardella breweri* var. **lanceolata**, *Monardella linoides* var. **sierrae**, *Navarretia leptalea* var. **bicolor**, *Navarretia leucocephala* var. **bakeri**, *Navarretia leucocephala* var. **minima**, *Navarretia leucocephala* var. **pauciflora**, *Navarretia leucocephala* var. **pliantha**, *Navarretia linearifolia* var. **pinnatisecta**, *Noccaea fendleri* var. **glauca**, *Orthocarpus cuspidatus* var. **copelandii**, *Pedicularis attollens* var. **protogyna**, *Penstemon thompsoniae* var. **jaegeri**, *Pentagramma triangularis* var. **maxonii**, *Pentagramma triangularis* var. **rebmanii**, *Pentagramma triangularis* var. **semipallida**, *Pentagramma triangularis* var. **viscosa**, *Perideridia parishii* var. **latifolia**, *Phragmites australis* var. **americanus**, *Poa abbreviata* var. **marshii**, *Poa abbreviata* var. **pattersonii**, *Polygonum aviculare* var. **buxiforme**, *Proboscidea louisiana* var. **fragrans**, *Rhodiola integrifolia* var. **leedyi**, *Rhodiola integrifolia* var. **neomexicana**, *Rosa woodsii* var. **puberulenta**, *Sagina decumbens* var. **occidentalis**, and *Veronica wormskjoldii* var. **nutans**, are made.

KEY WORDS: Nevada flora, varieties, combinations

RESUMEN

Aquí se presentan nuevas combinaciones hechas previamente a la publicación de una Lista de *Verificación Anotada para la Flora de Nevada*. Se realizan nuevas combinaciones de *Aliciella latifolia* var. **imperialis**, *Androsace elongata* var. **acuta**, *Arceuthobium abietinum* var. **grandae**, *Arceuthobium abietinum* var. **magnificae**, *Arceuthobium abietinum* var. **mathiasenii**, *Arceuthobium abietinum* var. **wiensii**, *Artemisia cana* var. **bolanderi**, *Askellia pygmaea* var. **ramosa**, *Boechera fernaldiana* var. **vivariensis**, *Calystegia sepium* var. **limnophila**, *Camissoniopsis pallida* var. **hallii**, *Cassiope mertensiana* var. **californica**, *Centaurea stoebe* var. **micranthos**, *Chloropyron maritimum* var. **canescens**, *Chloropyron maritimum* var. **palustre**, *Chloropyron maritimum* var. **parryi**, *Chylismia brevipes* var. **pallidula**, *Chylismia cardiophylla* var. **cedrosensis**, *Chylismia cardiophylla* var. **robusta**, *Chylismia claviformis* var. **aurantiaca**, *Chylismia claviformis* var. **cruciformis**, *Chylismia claviformis* var. **funerea**, *Chylismia claviformis* var. **lancifolia**, *Chylismia claviformis* var. **peeblesii**, *Chylismia claviformis* var. **peirsonii**, *Chylismia claviformis* var. **purpurascens**, *Chylismia claviformis* var. **rubescens**, *Chylismia claviformis* var. **wigginsii**, *Chylismia claviformis* var. **yumae**, *Chylismia scapoidea* var. **brachycarpa**, *Chylismia scapoidea* var. **macrocarpa**, *Chylismia scapoidea* var. **utahensis**, *Chylismia walkeri* var. **tortilis**, *Crepis runcinata* var. **hallii**, *Dianthus armeria* var. **armeriastrum**, *Eremothera boothii* var. **alyssoides**, *Eremothera boothii* var. **condensata**,

Eremothera boothii var. *decorticans*, *Eremothera boothii* var. *desertorum*, *Eremothera boothii* var. *villosa*, *Eriastrum diffusum* var. *coachellae*, *Eriastrum diffusum* var. *utahense*, *Eriastrum eremicum* var. *markianum*, *Eriastrum eremicum* var. *yageri*, *Eriastrum eremicum* var. *zionis*, *Festuca brachyphylla* var. *breviculmis*, *Gilia aliquanta* var. *breviloba*, *Gilia brecciarum* var. *jacens*, *Gilia brecciarum* var. *neglecta*, *Gilia cana* var. *bernardina*, *Gilia cana* var. *speciformis*, *Gilia cana* var. *speciosa*, *Gilia cana* var. *triceps*, *Gilia ochroleuca* var. *bizonata*, *Gilia ochroleuca* var. *exilis*, *Gilia ochroleuca* var. *vivida*, *Hedeoma nana* var. *californica*, *Hulsea vestita* var. *inoensis*, *Ipomopsis tenuituba* var. *latiloba*, *Langloisia setosissima* var. *punctata*, *Leontodon saxatilis* var. *longirostris*, *Leptosiphon chrysanthus* var. *decorus*, *Leptosiphon nuttallii* var. *howellii*, *Leptosiphon nuttallii* var. *pubescens*, *Linanthus bigelovii* var. *johnsonii*, *Linanthus pungens* var. *pulchriflorus*, *Linanthus watsonii* var. *dolomiticus*, *Monardella breweri* var. *lanceolata*, *Monardella linoides* var. *sierrae*, *Navarretia leptalea* var. *bicolor*, *Navarretia leucocephala* var. *bakeri*, *Navarretia leucocephala* var. *minima*, *Navarretia leucocephala* var. *pauciflora*, *Navarretia leucocephala* var. *pliantha*, *Navarretia linearifolia* var. *pinnatisecta*, *Nocca fendleri* var. *glauca*, *Orthocarpus cuspidatus* var. *copelandii*, *Pedicularis attollens* var. *protogyna*, *Penstemon thompsoniae* var. *jaegeri*, *Pentagramma triangularis* var. *maxonii*, *Pentagramma triangularis* var. *rebmanii*, *Pentagramma triangularis* var. *semipallida*, *Pentagramma triangularis* var. *viscosa*, *Perideridia parishii* var. *latifolia*, *Phragmites australis* var. *americanus*, *Poa abbreviata* var. *marshii*, *Poa abbreviata* var. *pattersonii*, *Polygonum aviculare* var. *buxiforme*, *Proboscidea louisiana* var. *fragrans*, *Rhodiola integrifolia* var. *leedyi*, *Rhodiola integrifolia* var. *neomexicana*, *Rosa woodsii* var. *puberulenta*, *Sagina decumbens* var. *occidentalis*, y *Veronica wormskjoldii* var. *nutans* se fabrican.

INTRODUCTION

The following is a list of new combinations made in advance of publication of an *Annotated Checklist for the Flora of Nevada*. The purpose is to consistently allow the use of variety instead of subspecies for infraspecific taxa. The use of varieties or subspecies in recognizing infraspecific taxa is a subjective individual choice. Preferences usually start with the early influencers in ones botanical education. In my case that would be John Thomas Howell, and later, the botanists at The New York Botanical Garden. As such, I prefer the use of variety. I like the idea that varieties can be grouped into subspecies if a two-tiered infraspecific classification is warranted. Discussions, opinions, and assessments on this subject, among others, can be found in Cronquist 1955; Hamilton & Reichard 1992; Holmgren 1994; Stuessy 1990; and Yatskievych & Moran 1989. Probably the best advice of this choice I ever heard was from Lincoln Constance. He told me that he told his students to use whichever category they preferred but to be consistent in its use.

Not all of the following combinations affect Nevada plants. When a species had varieties that occur in Nevada and some that did not occur in Nevada I felt it would be consistent to make all of the necessary combinations for that species.

APIACEAE

Perideridia parishii var. *latifolia* (A. Gray) Tiehm, **comb. nov.** *Carum gairdneri* var. *latifolium* A. Gray, Proc. Amer. Acad. Arts 7(2):344. 1868; *Perideridia parishii* subsp. *latifolia* (A. Gray) T.I. Chuang & Constance, Univ. Calif. Publ. Bot. 55:67. 1969.

ASTERACEAE

Artemisia cana var. *bolanderi* (A. Gray) Tiehm, **comb. nov.** *Artemisia bolanderi* A. Gray, Proc. Amer. Acad. Arts 19:50. 1883[1884]; *Artemisia tridentata* subsp. *bolanderi* (A. Gray) H.M. Hall & Clem., Publ. Carnegie Inst. Wash. 326:139. 1923; *Artemisia tridentata* var. *bolanderi* (A. Gray) McMinn, Man. Calif. Shrubs 609. 1939; *Artemisia cana* subsp. *bolanderi* (A. Gray) G.H. Ward, Contr. Dudley Herb. 4(6):192. 1953; *Seriphidium canum* subsp. *bolanderi* (A. Gray) W.A. Weber, Phytologia 55(1):7. 1984; *Seriphidium bolanderi* (A. Gray) Y.R. Ling, Advances Compos. Syst. 287. 1995.

Askellia pygmaea var. *ramosa* (Babc.) Tiehm, **comb. nov.** *Crepis nana* subsp. *ramosa* Babc., Univ. Calif. Publ. Bot. 22:542. 1947; *Askellia nana* subsp. *ramosa* (Babc.) W.A. Weber, Phytologia 55(1):7. 1984; *Crepis nana* var. *ramosa* (Babc.) Cronquist, Intermount. Fl. 5:460. 1994; *Askellia pygmaea* subsp. *ramosa* (Babc.) K.L. Chambers & S.C. Meyers, J. Bot. Res. Inst. Texas 5(2):619. 2011.

Centaurea stoebe var. *micranthos* (S.G. Gmel. ex Gugler) Tiehm, **comb. nov.** *Centaurea maculosa* subsp. *micranthos* S.G. Gmel. ex Gugler, Ann. Hist.-Nat. Mus. Natl. Hung. 6(1):167. 1908; *Centaurea stoebe* subsp. *micranthos* (S.G. Gmel. ex Gugler) Hayek, Repert. Spec. Nov. Regni Veg. Beih. 30(2[5]):766. 1931.

Crepis runcinata var. *hallii* (Babc. & Stebbins) Tiehm, **comb. nov.** *Crepis runcinata* subsp. *hallii* Babc. & Stebbins, Publ. Carnegie Inst. Wash. 504:104, 107. 1938; *Psilochemia runcinata* subsp. *hallii* (Babc. & Stebbins) W.A. Weber, Phytologia 53(3):189. 1983.

Hulsea vestita var. **inyoensis** (D.D. Keck) Tiehm, **comb. nov.** *Hulsea californica* subsp. *inyoensis* D.D. Keck, *Aliso* 4(1):101. 1958; *Hulsea vestita* subsp. *inyoensis* (D.D. Keck) Wilken, *Aliso* 7(4):413. 1972.

Leontodon saxatilis var. **longirostris** (Finch & P.D. Sell) Tiehm, **comb. nov.** *Leontodon taraxacoides* subsp. *longirostris* Finch & P.D. Sell, *Bot. J. Linn. Soc.* 71(4):247. 1975 [1976]; *Leontodon saxatilis* subsp. *longirostris* (Finch & P.D. Sell) P. Silva, *Bol. Soc. Brot.*, ser. 2, 60. 155. 1987; *Leontodon longirostris* (Finch & P.D. Sell) Talavera, *Herb. Univ. Hispal. Fl. Select.* 1:37. 1982.

BRASSICACEAE

Boechera fernaldiana var. **vivariensis** (S.L. Welsh) Tiehm, **comb. nov.** *Arabis vivariensis* S.L. Welsh, *Great Basin Naturalist* 46(2):263. 1986; *Boechera vivariensis* (S.L. Welsh) W.A. Weber, *Phytologia* 67(6):425. 1989; *Boechera fernaldiana* subsp. *vivariensis* (S.L. Welsh) Windham & Al-Shehbaz, *Harvard Pap. Bot.* 11(1):67. 2006.

Noccaea fendleri var. **glauca** (A. Nelson) Tiehm, **comb. nov.** *Thlaspi alpestre* var. *glauca* A. Nelson, *Wyoming Agric. Exp. Sta. Bull.* 28:84. 1896; *Thlaspi glaucum* (A. Nelson) A. Nelson, *Bull. Torrey Bot. Club* 25(5):275. 1898; *Thlaspi fendleri* var. *glaucum* (A. Nelson) C.L. Hitchc., *Univ. Wash. Publ. Biol.* 17(2):554. 1964; *Noccaea glauca* (A. Nelson) Holub, *Preslia* 70(2):108. 1998; *Noccaea fendleri* subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch, *Syst. Bot.* 29(2):382–383. 2004.

CARYOPHYLLACEAE

Dianthus armeria var. **armeriastrum** (Wolfn.) Tiehm, **comb. nov.** *Dianthus armeriastrum* Wolfn., *Oesterr. Bot. Z.* 8:318 (1858); *Dianthus armeria* subsp. *armeriastrum* (Wolfn.) Velen., *Fl. Bulg. Suppl.* 42. 1898.

Sagina decumbens var. **occidentalis** (S. Watson) Tiehm, **comb. nov.** *Sagina occidentalis* S. Watson, *Proc. Amer. Acad. Arts* 10:344. 1875; *Alsinella occidentalis* (S. Watson) Greene, *Flora Franciscana* 1:125. 1891; *Sagina decumbens* subsp. *occidentalis* (S. Watson) G.E. Crow, *Rhodora* 80(821):68. 1978.

CONVOLVULACEAE

Calystegia sepium var. **limnophila** (Greene) Tiehm, **comb. nov.** *Convolvulus limnophilus* Greene, *Pittonia* 3:329. 1898; *Calystegia sepium* subsp. *limnophila* (Greene) Brummitt, *Ann. Missouri Bot. Gard.* 52(2):216. 1965.

CRASSULACEAE

Rhodiola integrifolia var. **leedyi** (Rosend. & J.W. Moore) Tiehm, **comb. nov.** *Sedum rosea* var. *leedyi* Rosend. & J.W. Moore, *Rhodora* 49(584):198. 1947; *Rhodiola integrifolia* subsp. *leedyi* (Rosend. & J.W. Moore) H. Ohba, *J. Jap. Bot.* 74(1):61. 1999; *Tolmachevia integrifolia* subsp. *leedyi* (Rosend. & J.W. Moore) Á. Löve & D. Löve, *Taxon* 34(1):163. 1985.

Rhodiola integrifolia var. **neomexicana** (Britton) Tiehm, **comb. nov.** *Rhodiola neomexicana* Britton, *New N. Amer. Crassul.* 38. 1903; *Sedum integrifolium* subsp. *neomexicanum* (Britton) R.T. Clausen, *Sedum N. Amer.* 509. 1975; *Sedum rosea* var. *neomexicanum* (Britton) A. Berger, *Nat. Pflanzenfam.* (ed. 2) 18a:440. 1930; *Tolmachevia integrifolia* subsp. *neomexicana* (Britton) Á. Löve & D. Löve, *Taxon* 34(1):163–164. 1985; *Rhodiola integrifolia* subsp. *neomexicana* (Britton) H. Ohba, *J. Jap. Bot.* 74(1):61. 1999.

ERICACEAE

Cassiope mertensiana var. **californica** (Piper) Tiehm, **comb. nov.** *Cassiope mertensiana* subsp. *californica* Piper, *Smithsonian Misc. Collect.* 50(2):196. 1907.

LAMIACEAE

Hedeoma nana var. **californica** (W.S. Stewart) Tiehm, **comb. nov.** *Hedeoma nana* subsp. *californica* W.S. Stewart, *Repert. Spec. Nov. Regni Veg. Beih.* 115:29. 1939.

Monardella breweri var. **lanceolata** (A. Gray) Tiehm, **comb. nov.** *Monardella lanceolata* A. Gray, *Proc. Amer. Acad. Arts* 11:102. 1876; *Madronella lanceolata* (A. Gray) Greene, *Leafl. Bot. Observ. Crit.* 1(12):169. 1906; *Monardella breweri* subsp. *lanceolata* (A. Gray) A.C. Sanders & Elvin, *Novon* 19(3):337. 2009.

Monardella linoides var. **sierrae** (Elvin & A.C. Sanders) Tiehm, **comb. nov.** *Monardella linoides* subsp. *sierrae* Elvin & A.C. Sanders, *Novon* 19(3):331. 2009.

MARTYNIACEAE

Proboscidea louisiana var. **fragrans** (Lindl.) Tiehm, **comb. nov.** *Martynia fragrans* Lindl., *Bot. Reg.* 26:85. 1840; *Proboscidea louisiana* subsp. *fragrans* (Lindl.) Bretting, *S. W. Naturalist* 28(4):448. 1983.

ONAGRACEAE

- Camissoniopsis pallida** var. **hallii** (Davidson) Tiehm, **comb. nov.** *Sphaerostigma hallii* Davidson, Muhlenbergia 3(7):107. 1907; *Oenothera bistorta* var. *hallii* (Davidson) Jeps., Man. Fl. Pl. Calif. 685. 1925; *Camissonia pallida* subsp. *hallii* (Davidson) P.H. Raven, Brittonia 16(3):284. 1964; *Oenothera hallii* (Davidson) Munz, N. Amer. Fl., ser. 2, 5:160. 1965; *Camissoniopsis pallida* subsp. *hallii* (Davidson) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:205. 2007.
- Chylismia brevipes** var. **pallidula** (Munz) Tiehm, **comb. nov.** *Oenothera brevipes* var. *pallidula* Munz, Amer. J. Bot. 15(4):229. 1928; *Oenothera pallidula* (Munz) Munz, Leaf. W. Bot. 2(6):88. 1938; *Oenothera brevipes* subsp. *pallidula* (Munz) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):83. 1962; *Camissonia brevipes* subsp. *pallidula* (Munz) P.H. Raven, Brittonia 16(3):281. 1964; *Chylismia brevipes* subsp. *pallidula* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia cardiophylla** var. **cedrosensis** (Greene) Tiehm, **comb. nov.** *Oenothera cedrosensis* Greene, Bull. Calif. Acad. Sci. 1(4):187–188. 1885; *Oenothera cardiophylla* subsp. *cedrosensis* (Greene) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):79. 1962; *Camissonia cardiophylla* subsp. *cedrosensis* (Greene) P.H. Raven, Brittonia 16(3):281. 1964; *Chylismia cardiophylla* subsp. *cedrosensis* (Greene) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia cardiophylla** var. **robusta** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera cardiophylla* subsp. *robusta* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):79. 1962; *Camissonia cardiophylla* subsp. *robusta* (P.H. Raven) P.H. Raven, Brittonia 16(3):281. 1964; *Chylismia cardiophylla* subsp. *robusta* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **aurantiaca** (Munz) Tiehm, **comb. nov.** *Oenothera claviformis* var. *aurantiaca* Munz, Amer. J. Bot. 15(4):237–238. 1928; *Chylismia aurantiaca* (Munz) D.A. Johans., Desert 3(7):78. 1931; *Oenothera claviformis* subsp. *aurantiaca* (Munz) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):100. 1962; *Camissonia claviformis* subsp. *aurantiaca* (Munz) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia claviformis* subsp. *aurantiaca* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **cruciformis** (Kellogg) Tiehm, **comb. nov.** *Oenothera cruciformis* Kellogg, Proc. Calif. Acad. Sci. 2:227. 1863; *Chylismia scapoidea* var. *cruciformis* (Kellogg) Small, Bull. Torrey Bot. Club 23(5):193. 1896; *Chylismia cruciformis* (Kellogg) Howell, Fl. N.W. Amer. 2:233. 1898; *Oenothera claviformis* var. *cruciformis* (Kellogg) Munz, Amer. J. Bot. 15(4):235. 1928; *Oenothera claviformis* subsp. *cruciformis* (Kellogg) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):108. 1962; *Camissonia claviformis* subsp. *cruciformis* (Kellogg) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia claviformis* var. *cruciformis* (Kellogg) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Chylismia claviformis* subsp. *cruciformis* (Kellogg) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **funerea** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera claviformis* subsp. *funerea* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):106. 1962; *Camissonia claviformis* subsp. *funerea* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia claviformis* var. *funerea* (P.H. Raven) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Chylismia claviformis* subsp. *funerea* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **lancifolia** (A. Heller) Tiehm, **comb. nov.** *Chylismia lancifolia* A. Heller, Muhlenbergia 2:226. 1906; *Oenothera claviformis* subsp. *lancifolia* (A. Heller) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):109. 1962; *Camissonia claviformis* subsp. *lancifolia* (A. Heller) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia claviformis* var. *lancifolia* (A. Heller) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Chylismia claviformis* subsp. *lancifolia* (A. Heller) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **peeblesii** (Munz) Tiehm, **comb. nov.** *Oenothera claviformis* var. *peeblesii* Munz, Leaf. W. Bot. 2(9):158. 1939; *Oenothera claviformis* subsp. *peeblesii* (Munz) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):101. 1962; *Camissonia claviformis* subsp. *peeblesii* (Munz) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia claviformis* subsp. *peeblesii* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:206. 2007.
- Chylismia claviformis** var. **peirsonii** (Munz) Tiehm, **comb. nov.** *Oenothera claviformis* var. *peirsonii* Munz, Amer. J. Bot. 15(4):238. 1928; *Chylismia peirsonii* (Munz) D.A. Johans., Desert 3(7):78. 1931; *Oenothera claviformis* subsp. *peirsonii* (Munz) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):105. 1962; *Camissonia claviformis* subsp. *peirsonii* (Munz) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia claviformis* subsp. *peirsonii* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:207. 2007.
- Chylismia claviformis** var. **purpurascens** (S. Watson) Tiehm, **comb. nov.** *Oenothera scapoidea* var. *purpurascens* S. Watson, Proc. Amer. Acad. Arts 8:295. 1870; *Oenothera claviformis* var. *purpurascens* (S. Watson) Munz, Leaf. W. Bot. 3(3):53. 1941; *Camissonia claviformis* var. *purpurascens* (S. Watson) Cronquist, Great Basin Naturalist 46(2):258. 1986. At the subspecific level the correct name of this taxon is *Chylismia claviformis* subsp. *integrior* (P.H. Raven) W.L. Wagner & Hoch.
- Chylismia claviformis** var. **rubescens** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera claviformis* subsp. *rubescens* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):103. 1962; *Camissonia claviformis* subsp. *rubescens* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia claviformis* subsp. *rubescens* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:207. 2007.

- Chylismia claviformis** var. **wigginsii** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera claviformis* subsp. *wigginsii* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):103. 1962; *Camissonia claviformis* subsp. *wigginsii* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia wigginsii* (P.H. Raven) P.H. Raven, Ann. Missouri Bot. Gard. 63:384. 1976[1977]; *Chylismia claviformis* subsp. *wigginsii* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:207. 2007.
- Chylismia claviformis** var. **yumae** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera claviformis* subsp. *yumae* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):104. 1962; *Camissonia claviformis* subsp. *yumae* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia claviformis* subsp. *yumae* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:207. 2007.
- Chylismia scapoidea** var. **brachycarpa** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera scapoidea* subsp. *brachycarpa* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):95. 1962; *Camissonia scapoidea* subsp. *brachycarpa* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Chylismia scapoidea* subsp. *brachycarpa* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:208. 2007.
- Chylismia scapoidea** var. **macrocarpa** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera scapoidea* subsp. *macrocarpa* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):95. 1962; *Camissonia scapoidea* subsp. *macrocarpa* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia scapoidea* var. *macrocarpa* (P.H. Raven) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Chylismia scapoidea* subsp. *macrocarpa* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:208. 2007.
- Chylismia scapoidea** var. **utahensis** (P.H. Raven) Tiehm, **comb. nov.** *Oenothera scapoidea* subsp. *utahensis* P.H. Raven, Univ. Calif. Publ. Bot. 34(1):96. 1962; *Camissonia scapoidea* subsp. *utahensis* (P.H. Raven) P.H. Raven, Brittonia 16(3):282. 1964; *Camissonia scapoidea* var. *utahensis* (P.H. Raven) S.L. Welsh, Great Basin Naturalist 46(2):258. 1986; *Chylismia scapoidea* subsp. *utahensis* (P.H. Raven) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:208. 2007.
- Chylismia walkeri** var. **tortilis** (Jeps.) Tiehm, **comb. nov.** *Oenothera scapoidea* var. *tortilis* Jeps., Man. Fl. Pl. Calif. 687. 1925; *Oenothera walkeri* subsp. *tortilis* (Jeps.) P.H. Raven, Univ. Calif. Publ. Bot. 34(1):90. 1962; *Camissonia walkeri* subsp. *tortilis* (Jeps.) P.H. Raven, Brittonia 16(3):281. 1964; *Chylismia walkeri* subsp. *tortilis* (Jeps.) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:208. 2007; *Camissonia walkeri* var. *TORTILIS* (Jeps.) S.L. Welsh, Utah Fl. (ed. 4) 531. 2008.
- Eremothera boothii** var. **alyssoides** (Hook. & Arn.) Tiehm, **comb. nov.** *Oenothera alyssoides* Hook. & Arn., Bot. Beechey Voy. 340. 1839; *Holostigma alyssoides* (Hook. & Arn.) Hook., Hooker's Icon. Pl. 339. 1841; *Sphaerostigma alyssoides* (Hook. & Arn.) Walp., Repert. Bot. Syst. 2(1):78. 1843; *Camissonia boothii* subsp. *alyssoides* (Hook. & Arn.) P.H. Raven, Brittonia 16(3):285. 1964; *Oenothera boothii* subsp. *alyssoides* (Hook. & Arn.) Munz, N. Amer. Fl., ser. 2, 5:154. 1965; *Camissonia boothii* var. *alyssoides* (Hook. & Arn.) N.H. Holmgren & P.K. Holmgren, Intermount. Fl. 3(A):187. 1997; *Eremothera boothii* subsp. *alyssoides* (Hook. & Arn.) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:209. 2007.
- Eremothera boothii** var. **condensata** (Munz) Tiehm, **comb. nov.** *Oenothera decorticans* var. *condensata* Munz, Bot. Gaz. 85(3):247. 1928; *Camissonia boothii* subsp. *condensata* (Munz) P.H. Raven, Brittonia 16(3):285. 1964; *Oenothera boothii* subsp. *condensata* (Munz) Munz, N. Amer. Fl., ser. 2, 5:154. 1965; *Camissonia boothii* var. *condensata* (Munz) Cronquist, Great Basin Naturalist 46(2):258. 1986; *Eremothera boothii* subsp. *condensata* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:209. 2007.
- Eremothera boothii** var. **decorticans** (Hook. & Arn.) Tiehm, **comb. nov.** *Gaura decorticans* Hook. & Arn., Bot. Beechey Voy. 343. 1839; *Oenothera decorticans* (Hook. & Arn.) Greene, Fl. Francisc. 2:217. 1891; *Sphaerostigma decorticans* (Hook. & Arn.) Small, Bull. Torrey Bot. Club 23(5):191. 1896; *Oenothera alyssoides* var. *decorticans* (Hook. & Arn.) Jeps., Man. Fl. Pl. Calif. 686. 1925; *Camissonia boothii* subsp. *decorticans* (Hook. & Arn.) P.H. Raven, Brittonia 16(3):285. 1964; *Oenothera boothii* subsp. *decorticans* (Hook. & Arn.) Munz, N. Amer. Fl., ser. 2, 5:152. 1965; *Camissonia boothii* var. *decorticans* (Hook. & Arn.) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Eremothera boothii* subsp. *decorticans* (Hook. & Arn.) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:209. 2007.
- Eremothera boothii** var. **desertorum** (Munz) Tiehm, **comb. nov.** *Oenothera decorticans* var. *desertorum* Munz, Bot. Gaz. 85(3):246. 1928; *Camissonia boothii* subsp. *desertorum* (Munz) P.H. Raven, Brittonia 16(3):285. 1964; *Oenothera boothii* subsp. *desertorum* (Munz) Munz, N. Amer. Fl., ser. 2, 5:153. 1965; *Camissonia boothii* var. *desertorum* (Munz) Cronquist, Great Basin Naturalist 52(1):76. 1992; *Eremothera boothii* subsp. *desertorum* (Munz) W.L. Wagner & Hoch, Syst. Bot. Monogr. 83:209. 2007.
- Eremothera boothii** var. **villosa** (S. Watson) Tiehm, **comb. nov.** *Oenothera alyssoides* var. *villosa* S. Watson, Proc. Amer. Acad. Arts 8:591, 602. 1873; *Camissonia boothii* var. *villosa* (S. Watson) Cronquist, Great Basin Naturalist 46(2):258. 1986. At the subspecific level the correct name of this taxon is *Eremothera boothii* subsp. *intermedia* (Munz) W.L. Wagner & Hoch.

OROBANCHACEAE

- Chloropyron maritimum** var. **canescens** (A. Gray) Tiehm, **comb. nov.** *Cordylanthus canescens* A. Gray, Proc. Amer. Acad. Arts 7(2):383. 1868; *Adenostegia canescens* (A. Gray) Greene, Pittonia 2(10B):181. 1891; *Chloropyron canescens* (A. Gray) A. Heller, Muhlenbergia 3(8):134. 1907; *Cordylanthus maritimus* var. *canescens* (A. Gray) Jeps., Man. Fl. Pl. Calif. 947. 1925; *Cordylanthus maritimus* subsp. *canescens* (A. Gray) T.I. Chuang & Heckard, Brittonia 25(2):149. 1973; *Chloropyron maritimum* subsp. *canescens* (A. Gray) Tank & J.M. Egger, Syst. Bot. 34(1):188. 2009.

Chloropyron maritimum var. **palustre** (Behr) Tiehm, **comb. nov.** *Chloropyron palustre* Behr, Proc. Calif. Acad. Sci. 1:61. 1855; *Cordylanthus maritimus* subsp. *palustris* (Behr) T.I. Chuang & Heckard, Brittonia 25(2):148. 1973; *Chloropyron maritimum* subsp. *palustre* (Behr) Tank & J.M. Egger, Syst. Bot. 34(1):188. 2009.

Chloropyron maritimum var. **parryi** (S. Watson) Tiehm, **comb. nov.** *Cordylanthus parryi* S. Watson, Amer. Naturalist 9:346. 1875; *Cordylanthus canescens* var. *parryi* (S. Watson) A. Gray, Syn. Fl. N. Amer. 2(1):304. 1878; *Adenostegia parryi* (S. Watson) Greene, Pittonia 2(10B):181. 1891; *Chloropyron parryi* (S. Watson) A. Heller, Muhlenbergia 3(8):134. 1907; *Cordylanthus maritimus* var. *parryi* (S. Watson) Jeps., Man. Fl. Pl. Calif. 947. 1925; *Chloropyron maritimum* subsp. *parryi* (S. Watson) J.M. Egger in J.M. Egger & Zharkikh, Phytoneuron 2022-2:3. 2022.

Orthocarpus cuspidatus var. **copelandii** (Eastw.) Tiehm, **comb. nov.** *Orthocarpus copelandii* Eastw., Bot. Gaz. 41(4):288. 1906; *Orthocarpus cuspidatus* subsp. *copelandii* (Eastw.) T.I. Chuang & Heckard, Syst. Bot. 17(4):576. 1992.

Pedicularis attollens var. **protogyna** (Pennell) Tiehm, **comb. nov.** *Pedicularis attollens* subsp. *protogyna* Pennell, Proc. Acad. Nat. Sci. Philadelphia 99(7):175-176. 1947.

PLANTAGINACEAE

Penstemon thompsoniae var. **jaegeri** (D.D. Keck) Tiehm, **comb. nov.** *Penstemon thompsoniae* subsp. *jaegeri* D.D. Keck, Bull. Torrey Bot. Club 64(6):362. 1937.

Veronica wormskjoldii var. **nutans** (Bong.) Tiehm, **comb. nov.** *Veronica nutans* Bong., Mém. Acad. Imp. Sci. St. Pétersbourg, Sér. 6, Sci. Math. 2(2):157. 1832; *Veronica alpina* var. *nutans* (Bong.) Ledeb., Fl. Ross. [Ledebour] 3(1[8]):248. 1847; *Veronica wormskjoldii* subsp. *nutans* (Bong.) Pennell, Rhodora 23(265):15. 1921.

POACEAE

Festuca brachyphylla var. **breviculmis** (Fred.) Tiehm, **comb. nov.** *Festuca brachyphylla* subsp. *breviculmis* Fred., Nordic J. Bot. 2(6):530. 1983.

Phragmites australis var. **americanus** (Saltonstall, P.M. Peterson, & Soreng) Tiehm, **comb. nov.** *Phragmites australis* subsp. *americanus* Saltonstall, P.M. Peterson, & Soreng, Sida 21(2):690. 2004.

Poa abbreviata var. **marshii** (Soreng) Tiehm, **comb. nov.** *Poa abbreviata* subsp. *marshii* Soreng, Phytologia 71(5):390. 1991[1992].

Poa abbreviata var. **pattersonii** (Vasey) Tiehm, **comb. nov.** *Poa pattersonii* Vasey, Contr. U.S. Natl. Herb. 1(8):275. 1893; *Poa abbreviata* subsp. *pattersonii* (Vasey) Á. Löve, D. Löve, & B.M. Kapoor, Arctic Alpine Res. 3(2):142. 1971.

POLEMONIACEAE

Aliciella latifolia var. **imperialis** (S.L. Welsh) Tiehm, **comb. nov.** *Gilia latifolia* var. *imperialis* S.L. Welsh, Rhodora 95(883/884):409. 1993; *Aliciella latifolia* subsp. *imperialis* (S.L. Welsh) J.M. Porter, Aliso 17(1):44. 1998.

Eriastrum diffusum var. **coachellae** (S.J. De Groot) Tiehm, **comb. nov.** *Eriastrum diffusum* subsp. *coachellae* S.J. De Groot, Aliso 34(2):82. 2016.

Eriastrum diffusum var. **utahense** (S.J. De Groot) Tiehm, **comb. nov.** *Eriastrum diffusum* subsp. *utahense* S.J. De Groot, Aliso 34(2):84. 2016.

Eriastrum eremicum var. **markianum** (S.J. De Groot) Tiehm, **comb. nov.** *Eriastrum eremicum* subsp. *markianum* S.J. De Groot, Aliso 34(2):91. 2016.

Eriastrum eremicum var. **yageri** (M.E. Jones) Tiehm, **comb. nov.** *Gilia virgata* var. *yageri* M.E. Jones, Contr. W. Bot. 13:2. 1910; *Gilia eremica* var. *yageri* (M.E. Jones) T.T. Craig, Bull. Torrey Bot. Club 61(8):420. 1934; *Eriastrum eremicum* subsp. *yageri* (M.E. Jones) H. Mason, Madroño 8(3):78. 1945.

Eriastrum eremicum var. **zionis** (T.T. Craig) Tiehm, **comb. nov.** *Gilia eremica* var. *zionis* T.T. Craig, Bull. Torrey Bot. Club 61(8):418. 1934; *Eriastrum eremicum* subsp. *zionis* (T.T. Craig) S.J. De Groot, Syst. Bot. 36(2):461. 2011.

Gilia aliquanta var. **breviloba** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia aliquanta* subsp. *breviloba* A.D. Grant & V.E. Grant, Aliso 3(3):243. 1956.

Gilia brecciarum var. **jacens** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia jacens* A.D. Grant & V.E. Grant, Aliso 4(3):437. 1960; *Gilia brecciarum* subsp. *jacens* (A.D. Grant & V.E. Grant) A.G. Day, Novon 3(4):332. 1993.

Gilia brecciarum var. **neglecta** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia brecciarum* subsp. *neglecta* A.D. Grant & V.E. Grant, Aliso 3(3):283. 1956.

Gilia cana var. **bernardina** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia cana* subsp. *bernardina* A.D. Grant & V.E. Grant, Aliso 3(3):230. 1956.

- Gilia cana* var. *speciformis*** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia cana* subsp. *speciformis* A.D. Grant & V.E. Grant, *Aliso* 3(3):230. 1956.
- Gilia cana* var. *speciosa*** (Jeps.) Tiehm, **comb. nov.** *Gilia tenuiflora* var. *speciosa* Jeps., *Fl. Calif.* 3(2):181. 1943; *Gilia latiflora* subsp. *speciosa* (Jeps.) H. Mason & A.D. Grant, *Madroño* 9(7):218. 1948; *Gilia cana* subsp. *speciosa* (Jeps.) A.D. Grant & V.E. Grant, *Aliso* 3(3):229. 1956.
- Gilia cana* var. *triceps*** (Brand) Tiehm, **comb. nov.** *Gilia tenuiflora* var. *triceps* Brand, *Pflanzenr.* 27[IV,250]:102. 1907; *Gilia cana* subsp. *triceps* (Brand) A.D. Grant & V.E. Grant, *Aliso* 3(3):231. 1956; *Gilia latiflora* var. *triceps* (Brand) Cronquist, *Intermount.* *Fl.* 4:116. 1984.
- Gilia ochroleuca* var. *bizonata*** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia ochroleuca* subsp. *bizonata* A.D. Grant & V.E. Grant, *Aliso* 3(3):223. 1956.
- Gilia ochroleuca* var. *exilis*** (A. Gray) Tiehm, **comb. nov.** *Gilia latiflora* var. *exilis* A. Gray, *Syn. Fl. N. Amer.* (ed. 2) 2(1):411–412. 1886; *Gilia arenaria* subsp. *exilis* (A. Gray) Brand, *Pflanzenr.* 27[IV,250]:104. 1907; *Gilia exilis* (A. Gray) Abrams, *Fl. Los Angeles* ed. 3:289–290. 1917; *Gilia tenuiflora* var. *exilis* (A. Gray) Jeps., *Fl. Calif.* 3(2):178, 181. 1943; *Gilia latiflora* subsp. *exilis* (A. Gray) H. Mason & A.D. Grant, *Madroño* 9(7):219. 1948; *Gilia ochroleuca* subsp. *exilis* (A. Gray) A.D. Grant & V.E. Grant, *Aliso* 3(3):222. 1956.
- Gilia ochroleuca* var. *vivida*** (A.D. Grant & V.E. Grant) Tiehm, **comb. nov.** *Gilia leptantha* subsp. *vivida* A.D. Grant & V.E. Grant, *Aliso* 3(3):238. 1956; *Gilia ochroleuca* subsp. *vivida* (A.D. Grant & V.E. Grant) A.D. Grant & V.E. Grant, *Aliso* 4(3):438. 1960.
- Ipomopsis tenuituba* var. *latiloba*** (V.E. Grant & Wilken) Tiehm, **comb. nov.** *Ipomopsis tenuituba* subsp. *latiloba* V.E. Grant & Wilken, *Bot. Gaz.* 149(4):446. 1988[1989].
- Langloisia setosissima* var. *punctata*** (Coville) Tiehm, **comb. nov.** *Gilia setosissima* var. *punctata* Coville, *Proc. Biol. Soc. Washington* 7(2):72. 1892; *Navarretia setosissima* var. *punctata* (Coville) Coville, *Contr. U.S. Natl. Herb.* 4:154. 1893; *Langloisia punctata* (Coville) Goodd., *Bot. Gaz.* 37(1):58. 1904; *Gilia punctata* (Coville) Munz, *Man. S. Calif. Bot.* 599. 1935; *Langloisia setosissima* subsp. *punctata* (Coville) Timbrook, *Madroño* 33(3):169. 1986.
- Leptosiphon chrysanthus* var. *decorus*** (A. Gray) Tiehm, **comb. nov.** *Gilia aurea* var. *decora* A. Gray, *Proc. Amer. Acad. Arts* 8:264. 1870; *Gilia aurea* fo. *decora* (A. Gray) Brand, *Pflanzenr.* 27[IV,250]:131. 1907; *Linanthus aureus* var. *decorus* (A. Gray) Jeps., *Man. Fl. Pl. Calif.* 803. 1925; *Linanthus aureus* subsp. *decorus* (A. Gray) H. Mason, *Ill. Fl. Pacific States* 3:419. 1951; *Leptosiphon aureus* subsp. *decorus* (A. Gray) J.M. Porter & L.A. Johnson, *Aliso* 19(1):80. 2000; *Leptosiphon chrysanthus* subsp. *decorus* (A. Gray) J.M. Porter & R. Patt., *Aliso* 32(2):59–60. 2015.
- Leptosiphon nuttallii* var. *howellii*** (T.W. Nelson & R. Patt.) Tiehm, **comb. nov.** *Linanthus nuttallii* subsp. *howellii* T.W. Nelson & R. Patt., *Madroño* 32(2):102. 1985; *Leptosiphon nuttallii* subsp. *howellii* (T.W. Nelson & R. Patt.) J.M. Porter & L.A. Johnson, *Aliso* 19(1):81. 2000.
- Leptosiphon nuttallii* var. *pubescens*** (R. Patt.) Tiehm, **comb. nov.** *Linanthus nuttallii* subsp. *pubescens* R. Patt., *Madroño* 24(1):43. 1977; *Linanthastrum nuttallii* var. *pubescens* (R. Patt.) Cronquist, *Intermount.* *Fl.* 4:142. 1984; *Leptosiphon nuttallii* subsp. *pubescens* (R. Patt.) J.M. Porter & L.A. Johnson, *Aliso* 19(1):81. 2000; *Linanthastrum nuttallii* subsp. *pubescens* (R. Patt.) D.W. Taylor, *Fl. Yosemite Sierra* 214, 373. 2010.
- Linanthus bigelovii* var. *johnsonii*** (J.M. Porter & R. Patt.) Tiehm, **comb. nov.** *Linanthus bigelovii* subsp. *johnsonii* J.M. Porter & R. Patt., *Aliso* 32(2):60. 2015.
- Linanthus pungens* var. *pulchriflorus*** (Brand) Tiehm, **comb. nov.** *Gilia pungens* subsp. *pulchriflora* Brand, *Annuaire Conserv. Jard. Bot. Genève* 15:16:333. 1913; *Leptodactylon pungens* subsp. *pulchriflorum* (Brand) H. Mason, *Ill. Fl. Pacific States* 3:455. 1951; *Linanthus pungens* subsp. *pulchriflorus* (Brand) J.M. Porter & R. Patt., *Aliso* 32(2):77. 2015.
- Linanthus watsonii* var. *dolomiticus*** (J.M. Porter & R. Patt.) Tiehm, **comb. nov.** *Linanthus watsonii* subsp. *dolomiticus* J.M. Porter & R. Patt., *Aliso* 32(2):81. 2015.
- Navarretia leptalea* var. *bicolor*** (H. Mason & A.D. Grant) Tiehm, **comb. nov.** *Gilia leptalea* subsp. *bicolor* H. Mason & A.D. Grant, *Madroño* 9(7):220. 1948; *Allophyllum leptaleum* subsp. *bicolor* (H. Mason & A.D. Grant) A.G. Day & V.E. Grant, *Phytologia* 84:376. 1998[1999]; *Navarretia leptalea* subsp. *bicolor* (H. Mason & A.D. Grant) L.A. Johnson, *Aliso* 19(1):68. 2000.
- Navarretia leucocephala* var. *bakeri*** (H. Mason) Tiehm, **comb. nov.** *Navarretia bakeri* H. Mason, *Madroño* 8(6):198. 1946; *Navarretia leucocephala* subsp. *bakeri* (H. Mason) A.G. Day, *Novon* 3(4):337. 1993.
- Navarretia leucocephala* var. *minima*** (Nutt.) Tiehm, **comb. nov.** *Navarretia minima* Nutt., *Proc. Acad. Nat. Sci. Philadelphia* 4(1):13. 1848; *Gilia minima* (Nutt.) A. Gray, *Proc. Amer. Acad. Arts* 8:269. 1870; *Navarretia leucocephala* subsp. *minima* (Nutt.) A.G. Day, *Novon* 3(4):337. 1993.

Navarretia leucocephala var. **pauciflora** (H. Mason) Tiehm, **comb. nov.** *Navarretia pauciflora* H. Mason, Madroño 8(6):200. 1946; *Navarretia leucocephala* subsp. *pauciflora* (H. Mason) A.G. Day, Novon 3(4):337. 1993.

Navarretia leucocephala var. **pliantha** (H. Mason) Tiehm, **comb. nov.** *Navarretia pliantha* H. Mason, Madroño 8(6):199–200. 1946; *Navarretia leucocephala* subsp. *pliantha* (H. Mason) A.G. Day, Novon 3(4):337. 1993.

Navarretia linearifolia var. **pinnatisecta** (H. Mason & A.D. Grant) Tiehm, **comb. nov.** *Gilia leptalea* subsp. *pinnatisecta* H. Mason & A.D. Grant, Madroño 9(7):220. 1948; *Gilia sinistra* subsp. *pinnatisecta* (H. Mason & A.D. Grant) A.G. Day, Novon 3(4):332. 1993; *Allophyllum sinistrum* subsp. *pinnatisectum* (H. Mason & A.D. Grant) A.G. Day & V.E. Grant, Phytologia 84:376. 1998[1999]; *Navarretia sinistra* subsp. *pinnatisecta* (H. Mason & A.D. Grant) L.A. Johnson, Aliso 19(1):68. 2000; *Navarretia linearifolia* subsp. *pinnatisecta* (H. Mason & A.D. Grant) L.A. Johnson, Syst. Bot. 35(3):626. 2010.

POLYGONACEAE

Polygonum aviculare var. **buxiforme** (Small) Tiehm, **comb. nov.** *Polygonum buxiforme* Small, Bull. Torrey Bot. Club 33(1):56. 1906; *Polygonum aviculare* subsp. *buxiforme* (Small) Costea & Tardif, Sida 20(3):988. 2003.

PRIMULACEAE

Androsace elongata var. **acuta** (Greene) Tiehm, **comb. nov.** *Androsace acuta* Greene, Man. Bot. San Francisco Bay 238. 1894; *Androsace occidentalis* var. *acuta* (Greene) Jeps., Man. Fl. Pl. Calif. 755. 1925; *Androsace elongata* subsp. *acuta* (Greene) G.T. Robbins, Amer. Midl. Naturalist 32(1):154. 1944; *Androsace occidentalis* subsp. *acuta* (Greene) A.E. Murray, Kalmia 12:18. 1982.

PTERIDACEAE

Pentagramma triangularis var. **maxonii** (Weath.) Tiehm, **comb. nov.** *Pityrogramma triangularis* var. *maxonii* Weath., Rhodora 22(259):119; *Pentagramma triangularis* subsp. *maxonii* (Weath.) Yatsk., Windham & E. Wollenw., Amer. Fern J. 80(1):16. 1990; *Pentagramma maxonii* (Weath.) Schuettp. & Windham, Syst. Bot. 40(3):640. 2015.

Pentagramma triangularis var. **rebmanii** (Winner & M.G. Simpson) Tiehm, **comb. nov.** *Pentagramma triangularis* subsp. *rebmanii* Winner & M.G. Simpson, Madroño 54(4):345. 2007[2008]; *Pentagramma rebmanii* (Winner & M.G. Simpson) Schuettp. & Windham, Syst. Bot. 40(3):641. 2015.

Pentagramma triangularis var. **semipallida** (J.T. Howell) Tiehm, **comb. nov.** *Pityrogramma triangularis* var. *semipallida* J.T. Howell, Leafl. W. Bot. 9:223. 1962; *Pentagramma triangularis* subsp. *semipallida* (J.T. Howell) Yatsk., Windham & E. Wollenw., Amer. Fern J. 80(1):16. 1990.

Pentagramma triangularis var. **viscosa** (Nutt. ex D.C. Eaton) Tiehm, **comb. nov.** *Gymnogramma viscosa* Nutt. ex D.C. Eaton, Ferns N. Amer. 2:16. 1879; *Pityrogramma viscosa* (Nutt. ex D.C. Eaton) Maxon, Contr. U.S. Natl. Herb. 17(2):173. 1913; *Pityrogramma triangularis* var. *viscosa* (Nutt. ex D.C. Eaton) Weath., Rhodora 22(259):117. 1920; *Pentagramma triangularis* subsp. *viscosa* (Nutt. ex D.C. Eaton) Yatsk., Windham & E. Wollenw., Amer. Fern J. 80(1):15. 1990; *Pentagramma viscosa* (Nutt. ex D.C. Eaton) Schuettp. & Windham, Syst. Bot. 40(3):642. 2015.

ROSACEAE

Rosa woodsii var. **puberulenta** (Rydb.) Tiehm, **comb. nov.** *Rosa puberulenta* Rydb., Fl. Rocky Mts. 443, 1062. 1917 [1918]; *Rosa woodsii* subsp. *puberulenta* (Rydb.) W.H. Lewis & Ertter, Novon 20(1):48. 2010.

SANTALACEAE

Arceuthobium abietinum var. **grandae** (Kenaley) Tiehm, **comb. nov.** *Arceuthobium abietinum* subsp. *grandae* Kenaley, J. Bot. Res. Inst. Texas 14(1):33. 2020.

Arceuthobium abietinum var. **magnificae** (Mathiasen & Kenaley) Tiehm, **comb. nov.** *Arceuthobium abietinum* subsp. *magnificae* Mathiasen & Kenaley, J. Bot. Res. Inst. Texas 13(1):98. 2019.

Arceuthobium abietinum var. **mathiasenii** (Kenaley) Tiehm, **comb. nov.** *Arceuthobium abietinum* subsp. *mathiasenii* Kenaley, J. Bot. Res. Inst. Texas 14(1):32. 2020.

Arceuthobium abietinum var. **wiensii** (Mathiasen & C.M. Daugherty) Tiehm, **comb. nov.** *Arceuthobium abietinum* subsp. *wiensii* Mathiasen & C.M. Daugherty, Madroño 56(2):119. 2009.

ACKNOWLEDGMENTS

I am grateful to: Jan Nachlinger for encouraging me to finalize an *Annotated Checklist for the Flora of Nevada* and for her company on many, many days in the field; all of the botanists who have endured my seemingly

endless botanical questions; and Pat Holmgren and Matt Lavin for their editorial help and encouragement. Lastly, I would like to thank my boss, Beth Leger, for allowing me to pursue an *Annotated Checklist for the Flora of Nevada*.

REFERENCES

- CRONQUIST, A. 1955. Introduction, Pp. 1–4. In: C.L. Hitchcock, A. Cronquist, M. Ownbey & J.W. Thompson, eds. Vascular plants of the Pacific Northwest. Part 5. Univ. Wash. Publ. Biol. 17(5):1–343.
- HAMILTON, C.W. & S.H. REICHARD. 1992. Current practice in the use of subspecies, variety, and forma in the classification of wild plants. *Taxon* 41:485–498.
- HOLMGREN, N.H. 1994. Redefinition of *Dodecatheon dentatum* (Primulaceae) and rationale for use of varietal rank. *Brittonia* 46(2):87–94.
- STUESSY, T.F. 1990. Plant taxonomy: The systematic evaluation of comparative data. Columbia University Press, New York, NY, U.S.A. 514 pp.
- YATSKIEVYCH, G. & R.C. MORAN. 1989. Primary divergence and species concepts in ferns. *Amer. Fern. J.* 79:36–45.