

WTU). Wasco Co.: 12 mi S of Antelope on rd to Mitchell, *Olmstead 501* (OSC, WTU); Warm Springs Indian Res., *Gorman 5785* (UC); The Dalles, *Wilson s.n.* (GH); Dalles, *Kellogg & Harford 742* (GH, MO, NY, US); 1 mi N of Dufer, *Peck 14913* (OSC, PH). Wheeler Co.: 5 mi W of Mitchell on Hwy 26, *Olmstead 318* (OSC, WTU); along Hwy 207, 12 mi N of Mitchell, *Olmstead 315* (WTU); Fairview campground and along Hwy 207 to the S, 16 mi N of Spray, *Olmstead 314, 638, 640A-D* (CAS, NY, OSC, UC, US, WIS, WTU); W of Fossil, *Lawrence 438* (OSC, US); talus above John Day River, 13 mi W of Spray, *Cronquist 6436* (GH, NY, OSC, WTU); 4 mi W of Fossil, *Cronquist 6661* (GH, NY, OSC, WTU); near summit of grade, 7 mi E of Mitchell on Hwy 28, *Kruckeberg 2176* (NY, UC, WTU).—CANADA. BRITISH COLUMBIA. Pend Oreille River, *Macoun 67* (NY).

Scutellaria angustifolia* subsp. *micrantha *Olmstead*, subsp. nov.—TYPE: USA. Nevada: Elko Co., Ruby Mtns, Lamoille Canyon, 23.5 mi SE of Elko, 0.3 mi W of scout camp entrance, T32N, R58E, Sec. 9, 6920 ft, 3 Jul 1984, *Olmstead 620* (holotype: WTU!; isotypes: CAS! NY! OSC! UC! US!).

Scutellaria nevadensis Eastwood, Bull. Torrey Bot. Club 30: 492. 1903.—TYPE: USA. Nevada: Elko Co., Little Lakes Canyon, W Stampede, 1 Jul 1902, *Kennedy 546* (lectotype, designated by Epling, 1942; CAS!; isolectotypes: NY! US!).

Folia duplo usque ad triplo longiora quam latiora; flores primum evoluti in 3–6 nodi super basim caulis; pedicelli 2–4 mm longi; corolla 12–22 mm longa, raro trichomatibus glandiferis abaxialibus instructa.

Leaves 2–3 times as long as wide. Flowers first appearing 3–6 nodes above base of stem; pedicels 2–4 mm long; corollas 12–22 mm long, rarely with gland-tipped trichomes abaxially. Figs. 2e–f, 7.

Phenology. Flowering May–July.

Distribution (Fig. 6). Northern Great Basin in Nevada and southeastern Oregon eastward across the Snake River plains to central Idaho, with outlying collections attributable to this taxon from the foothills of the Wasatch Mts of Utah; basalt-derived substrate in sagebrush grassland of the Great Basin and Snake River plains and occasionally in open ponderosa pine woodland in central Idaho; 800–2500 m.

REPRESENTATIVE SPECIMENS: OREGON. Grant Co.: Silvies Lodge area, ca 35 mi N of Burns, *Steward 7133* (GH, PH, OSC, WTU); Strawberry Mt, *Denton 3203* (MICH, NY, OSC, WTU); Harney Co.: near Silvies River, 1 mi W of Silvies Ranch on USFS Rd 1880, 1.7 mi W of Hwy 395, 20 mi S of Seneca, *Olmstead 331, 636* (OSC, RENO, UC, WTU); Hwy 395, 16 mi N of Burns at stone monument, *Olmstead 333, 635* (CAS, WTU); Devine Canyon, Hwy 395, ca 13 mi N of Burns, *Olmstead 337* (OSC, WTU); 5 mi S of Princeton jct on rd to Diamond Craters, *Olmstead 348, 634* (NY, OSC, UC, WTU); Page Spring campground, 3 mi E of Frenchglen, *Olmstead 351, 709, 710* (OSC, WTU); Steens Mt, 9.6 mi from Frenchglen on rd to Fish Lake, *Olmstead 715* (WTU); roadside spring 15 mi N of Burns, *Thompson 12000* (CAS, DS, NY, US, WTU); margin of Ten Cent Lake, *Peck 21849a* (OSC); Stein's Mt, near Juniper ranch, *Train s.n.* (OSC). Lake Co.: canyon W of Adel, *Ripley & Barneby 6054* (CAS). Malheur Co.: Succor Cr rd near jct with Hwy 95, 18.4 mi N of Jordan Valley, *Olmstead 733a* (WTU); 4.4 mi N of Rockville on rd to Succor Cr Rec area, *Olmstead 733* (WTU); 6.9 mi N of Danner on rd to Cow Lake, *Olmstead 729* (WTU); Succor Cr area 19 mi NNW of Sheaville, *Holmgren & Holmgren 9273* (WTU); 1.5 mi E of Juntura, *Cronquist 8152* (CAS, DS, GH, NY, MICH, OSC, TEX, UC, WTU); 10 mi NE of Rome, *Peck 25763* (OSC, UC); Juniper Springs, *Leiberg 2260* (GH, NY, UC, US); 15 mi N of McDermitt, *Peck 21717* (OSC); Three Rocks Canyon, Owyhee River, *Dean 27* (OSC).—NEVADA. Churchill Co.: Clan Alpine Mts, near Cherry Cr rd, *Mozingo 76-46* (NY). Elko Co.: Bull Run Mts, 0.7 mi N of Maggie Summit, 9.6 mi SW of Hwy 225, *Olmstead 629* (NY, RENO, UC, WTU); Bull Run Mts, S of Maggie Summit, 0.3 mi N of Deep Cr jct, ca 62 mi N of Elko, *Olmstead 625* (CAS, US, WTU); Wild Horse Range, Owyhee River canyon, along Hwy 225, 1 mi N of Wild Horse Dam, *Olmstead 630* (CAS, US, WTU); Independence Mts, Jack Cr between Jack Cr ranch and Jack Cr summit, *Olmstead 622, 624* (CAS, NY, RENO, UC, US, WIS, WTU); Ruby Mts, Lamoille Canyon, 0.3 mi above scout camp

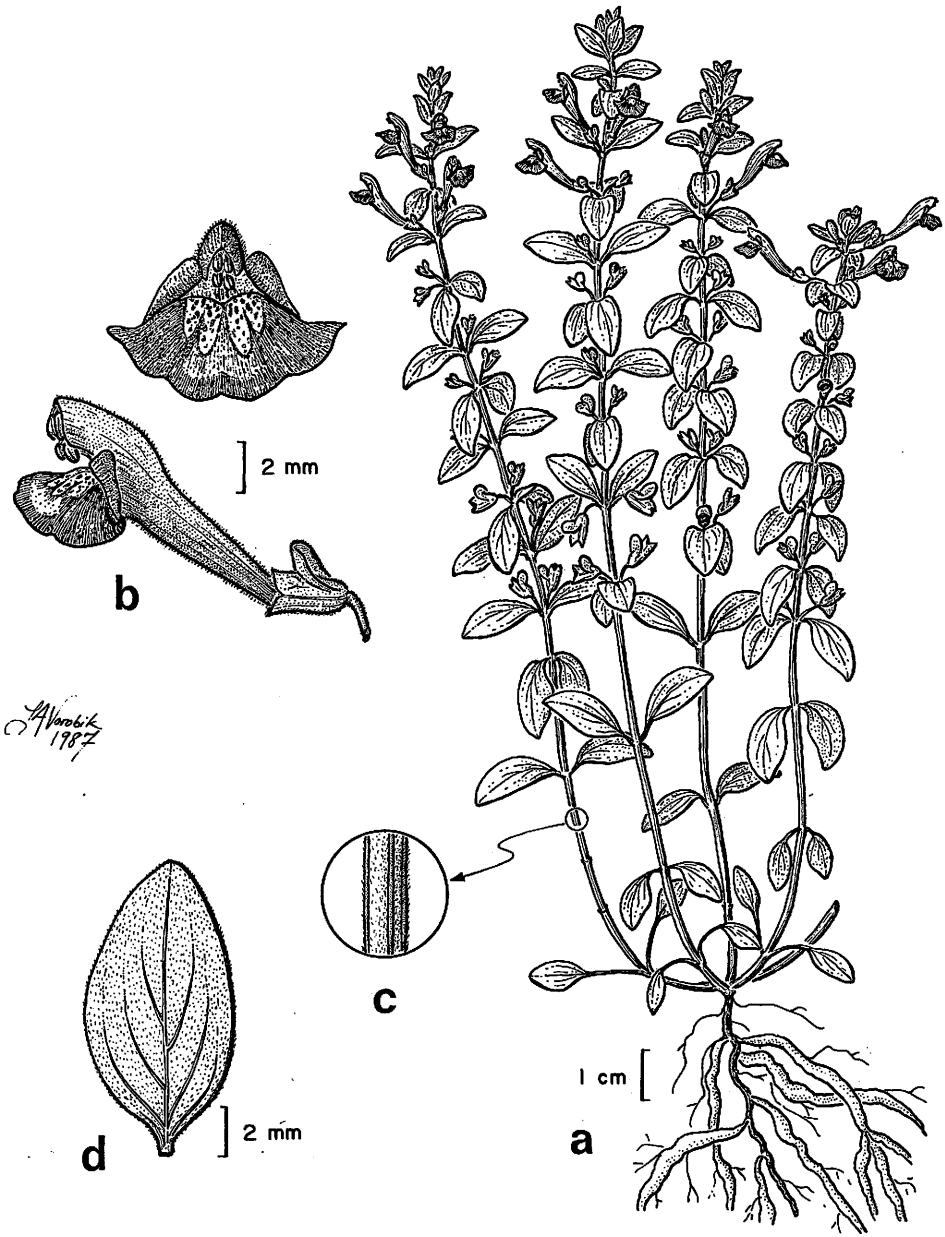


FIG. 7. *S. angustifolia* subsp. *micrantha*. a. Habit. b. Corolla. c. Stem with trichomes. d. Leaf. (from Olmstead 620).

entrance, *Olmstead 620* (NY, OSC, UC, US, WTU); Ruby Mts, 5.6 mi W of Harrison Pass, 41 mi S of Elko, *Olmstead 618* (NY, RENO, UC, WTU); W side of Independence Mts, 4.5 mi N of Stampede Ranch, T38N, R52E, S11, *Tiehm 6110* (CAS, MO, NY); near Blaine P.O., *Heller 11120* (DS, GH, MO, NY, PH, UC, US); Little Lakes Canyon, W Stampede, *Kennedy 502* (DS, RM). Eureka Co.: Palisade exit to I-80, 0.7 mi E of Emigrant Pass, 31.5 mi W of Elko, *Olmstead 631* (NY, UC, WTU); Emigrant Pass, Tuscarora Mts, *Mason 4630* (NY, WTU); Palisade, *M. E. Jones 4036* (CAS, DS, MO, NY, UC, US, WTU). Humboldt Co.: Santa Rosa Mts, 0.5 mi S of Hinkey summit, 14.4 mi N of Paradise,

Olmstead 632 (CAS, RENO, WIS, WTU); Santa Rosa Mts, *Gentry* 1572 (GH, NY, OSC, PH, TEX, UC, WTU); Santa Rosa Mts, Singas Cr, *Maguire & Holmgren* 22491 (GH, NY, UC, US, WTU). Lander Co.: 8–23 mi S of Battle Mountain, *Goodner & Henning* 940 (UC); Underwood Canyon, 7 mi S of Gund Ranch Exper. Sta., *Lott* 241 (MO, NY); 6 mi NE of Izzenhood ranch, *Holmgren* 539 (NY, OSC, UC). Nye Co.: Poplar branch of Pea Vine Cr, 7.2 mi above Pea Vine campground, *White & Neese* 257 (NY). Pershing Co.: Star Cr, southern Humboldt range, *Alexander & Kellogg* 4610 (DS, UC, US); Star Cr, E side of Star Peak, *Ownbey & Ownbey* 2880 (WTU). Locale uncertain: Havalick Mts, *Watson* 834 (GH, NY, US); “Nevada”, *Wheeler s.n.* (GH, US).—IDAHO. Ada Co.: Boise, *Clark* 140 (DS, GH, MO, UC, US). Blaine Co.: Lava Lake Craters, *Davis* 789 (LA, UC); Ketchum, *Nelson & Macbride* 1208 (DS, GH, MO, NY, UC, US, WTU); Picabo, *MacBride & Payson* 3005 (CAS, DS, GH, MO, NY, UC, US). Boise Co.: 1 mi N of Big Meadows, headwaters of S Fork Payette River above Sacajawea Hot Springs, *Hitchcock & Muhlick* 9881 (CAS, NY, UC, WTU); S fork Payette River, 1 mi E of Lowman on Hwy 21, *Elvander* 646 (WTU); Hwy 21, between Idaho City and Moore’s Cr summit, *Ertter* 2475. Butte Co.: NE of Martin, *Pennell* 20623 (PH); along hwy between Craters Of The Moon and Picabo, *Cronquist* 2399 (GH, MO); Craters Of The Moon, *Cronquist* 1179 (NY), *Davis s.n.* (NY). Camas Co.: 1 mi E of Carriertown, *Baker* 11115 (NY, WTU); Little Sandy River, 26 mi SE of Featherville, *Christ* 17471 (NY). Custer Co.: Robinson Bar, *Davis* 469 (LA); 2–3 mi below Stanley, *Cronquist* 2898 (GH, MO); 12 mi NE of Stanley on rd to Challis, *Hitchcock & Muhlick* 9596 (CAS, NY, UC, WTU). Elmore Co.: 4 mi N of Pine, N of Dog Cr, *Hitchcock & Muhlick* 8702 (CAS, DS, GH, MO, NY, PH, UC, WTU); 1 mi W of Atlanta, *Simpson* 150 (WTU); 4 mi NE of Anderson ranch on rd to Pine, *Christ* 17400 (OSC, NY); Jackass Cr, 2 mi E of Arrow Rock Reservoir, *Hitchcock* 15464 (NY, UC, WTU). Gooding Co.: 25 mi NW of Gooding, *Christ* 12358 (NY). Lincoln Co.: Shoshone, *Saunders* 4882 (MO). Owyhee Co.: Silver City, *Macbride* 937, 1689 (DS, GH, MO, NY, UC, US); Jump Cr, 6 mi NE of Oregon-Idaho line along Hwy 95, *Maguire & Holmgren* 26371 (DS, NY, UC, US, WTU); Twilight Gulch, *Maguire* 482 (DS, GH, MO, NY, UC, US, WTU); Owyhee Mts, *Mulford s.n.* (GH, MO, NY); Owyhee Mts, Twilight Gulch, near Silver City, *Munz* 14544 (DS, LA, UC).—UTAH. Weber Co.: Huntsville, *McKay s.n.* (GH, NY). Locale uncertain: Petersen Canon, Petersen, Utah, *Pammel & Blackwood* 3778 (?); “Utah Territory”, *Hayden Survey s.n.* (NY, PH).

***Scutellaria antirrhinoides* Benth.**, Bot. Reg. 18: pl. 1493. 1832.—TYPE: USA. ‘Oregon or Washington: “Fort Vancouver, N.W. coast of N. America” [probably along Columbia River near Vancouver, Washington], *Scouler s.n.* (holotype: K!; isotype: NY!).

Scutellaria sanhedrensis Heller, *Muhlenbergia* 1: 31. 1904. *Scutellaria antirrhinoides* var. *sanhedrensis* (Heller) Leonard, *Contrib. U.S. Natl. Herb.* 22: 732. 1927.—TYPE: USA. California: about Summit Lake, near the summit of Mt. Sanhedrin, Lake County, 15 Jul 1902, *Heller* 5894 (holotype: BKL; isotypes: DS! GH! MO! NY! RM! US!).

Scutellaria viarum Heller, *Muhlenbergia* 1: 32. 1904.—TYPE: USA. California: west of Windsor near Russian River, Sonoma County, 27 Jun 1902, *Heller* 5786 (holotype: BKL!; isotypes: DS! GH! MO! NY! PH! US!).

Plants (5–) 10–25 (–35) cm tall, perennating by slender rhizomes swollen at the ends; stems single or branched near the base; stems and leaves moderately covered with trichomes 0.1–0.2 mm long and appressed-ascending, and occasionally sparsely covered with gland-tipped trichomes. Basal leaves often turning red and then deciduous, with petioles 5–10 mm long; leaves below first flowering node short-petiolate to subsessile, the blades ovate, entire or slightly crenate, the apices rounded; leaves above first flowering node subsessile, the blades ovate to oblong, entire, the apices rounded; leaf at first flowering node (10–) 15–25 (–30) mm long, 5–10 mm wide, mean length/width = 2.9. Flowers axillary, first appearing 5–9 nodes above base of stem and continuing up the stem; pedicels 3.0–4.5 mm long; calyx 3.0–4.0 mm long, with concave transverse crest on upper lobe; corolla violet-blue, 13–21 mm long, personate, short-pubescent abaxially, pilose with long, tangled hairs adaxially, with