

2001

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Recommended Citation

Boyd, Steve (2001) "New Records for the Vascular Flora of the Santa Ana Mountains, California," *Aliso: A Journal of Systematic and Floristic Botany*. Vol. 20: Iss. 1, Article 7.

Available at: <https://scholarship.claremont.edu/aliso/vol20/iss1/7>

NEW RECORDS FOR THE VASCULAR FLORA OF THE SANTA ANA MOUNTAINS, CALIFORNIA

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ABSTRACT

Documentation is provided for 23 taxa not included in other published floristic accounts of the Santa Ana Mountains. A representative voucher specimen and generalized distribution information are cited for each taxon.

Key words: California, flora, Peninsular Ranges, Santa Ana Mountains.

INTRODUCTION

The Santa Ana Mountains are situated at the northwestern end of the Peninsular Ranges in southern California, straddling the borders of Orange, Riverside, and San Diego counties. The flora of the range is among the best documented of any region in southern California. Lathrop and Thorne (1978) reported 848 vascular taxa in their preliminary inventory of the range. A revision of the flora for the Santa Rosa Plateau region (Lathrop and Thorne 1985) added 42 taxa, and a floristic inventory of the San Mateo Canyon Wilderness Area of the Cleveland National Forest documented the presence of another 88 taxa (Boyd et al. 1995b). Floristic knowledge of the range was further augmented by the addition of 66 taxa not reported in other published accounts of the range (Boyd et al. 1995a). Recent fieldwork in the range as well as investigations in the herbarium have brought to my attention another 23 taxa previously unreported for the Santa Ana Mountains region.

Each of the following taxonomic entries is based on at least one herbarium specimen. Herbarium acronyms are cited and follow *Index Herbariorum*, 8th ed. (Holmgren et al. 1990). An alphabetical arrangement is followed for families within subdivisions, classes, or subclasses, as well as genera within families and species within genera. Nomenclature follows, for the most part, Hickman (1993). Family nomenclature is that of Thorne (1992) for the flowering plants and Crabbe et al. (1975) for ferns. Non-native taxa are indicated by an asterisk (*) preceding the taxon name.

FILICAE

ASPLENIACEAE

- *CYRTOMIUM FALCATUM (L. f.) C. Presl Perennial herb. Uncommon on rocks in narrow tributary of Silverado Canyon, just east of junction of Forest Service Roads 5S16 and 5S17. *J. Shevock* 3996, 17 Feb 1975 (RSA).

ANGIOSPERMAE—DICOTYLEDONES

APIACEAE

- *SCANDIX PECTIN-VENERIS L. Annual. Established in damp areas under oaks along Bell Canyon Trail in Ronald W. Caspers Regional Park. *K. Harper s.n.*, 8 Apr 1989 (RSA, UCR).

APOCYNACEAE

- *ARAUJIA SERICOFERA Brot. Herbaceous perennial vine. Collected in open chaparral near the wildland-urban interface, south of Corona at end of Orange Heights Rd. *R. Riefner* 97-184, 17 Jun 1997 (RSA).

ASTERACEAE

- *GAZENIA LINEARIS (Thunb.) Druce Perennial herb. Encountered as a waif on ridgeline southeast of summit of Sierra Peak. *S. Boyd* 8546, 14 Apr 1996 (RSA).

CAMPANULACEAE

- NEMACLADUS LONGIFLORUS A. Gray var. LONGIFLORUS Annual. Apparently scarce, Horsethief Canyon at ca. 760 m. *F. M. Reed* 5140, 26 May 1925 (POM).
NEMACLADUS PINNATIFIDUS Greene Annual. Apparently uncommon, documented from Long Canyon, western flank of Santiago Peak, and southern base of Miller Mountain. *P. A. Munz* 7096, 14 Jun 1923 (POM).

CARYOPHYLLACEAE

- SILENE VERECUNDA S. Watson ssp. PLATYOTA (S. Watson) C. Hitchc. & Mag. Perennial herb. Occasional on talus slope, near summit of Modjeska Peak. *F. M. Roberts & C. Roberts* 4083, 9 Jun 1988 (RSA).

CHENOPODIACEAE

- CHENOPODIUM FREMONTII S. Watson Annual. Uncommon in floodplain of San Juan Creek, western base of the range. *S. White & B. Leatherman* 5312, 12 Jun 1997 (RSA).

CRASSULACEAE

- CRASSULA SOLIERI (C. Gay) F. Meigen Succulent annual. Vernal pools on the Santa Rosa Plateau, co-occurring with, and often misidentified as, *C. aquatica* (L.) Schönl. *R. F. Thorne* 43849A, 23 May 1973 (RSA).

FABACEAE

LATHYRUS VESTITUS Nutt. ex T. & G. ssp. *LAEVICARPUS* Broich Perennial herb. Documented from chaparral in the northern end of the range. It is apparently much less common in the range than either *L. vestitus* ssp. *alefeldii* (White) Broich or *L. vestitus* ssp. *laetiflorus* (Greene) Broich. *E. W. Lathrop* 6886, 17 May 1968 (RSA). Determined by S. Broich, 1982.

LOTUS STRIGOSUS (Nutt.) Greene var. *HIRTELLUS* (Greene) Ottley Annual. Collected along the old Glen Ivy Trail on the eastern flank of Santiago Peak at ca. 1400 m. *P. A. Munz & D. Keck* 7089, 14 Jun 1923 (POM).

LUPINUS CONCINNUS J. G. Agardh var. *OPTATUS* (C. P. Sm.) D. B. Dunn Annual. Gravelly area along trail towards Trabuco Canyon, western flank of Santiago Peak at ca. 1300 m. *F. W. Peirson* 3503, 6 May 1923 (RSA).

**SENNA DIDYMOBOTRYA* (Fresn.) H. Irwin & Barneby Small shrub. Locally adventive on disturbed roadcut, Rattlesnake Peak. *F. M. Roberts & R. L. Allen* 4166, 5 Jan 1989 (RSA).

MALVACEAE

**ALCEA ROSEA* L. Perennial herb. Documented as a waif along road at northwestern end of Morrell Potrero. *S. Boyd & D. Banks* 8338, 8 Sep 1994 (RSA).

MOLLUGINACEAE

**GLINUS LOTOIDES* L. Annual. Local in pool-like depression near Tenaja Road crossing of DeLuz Creek, Mesa de Colorado. *E. LaRue s.n.*, 12 Oct 1990 (RSA, UCR).

NYCTAGINACEAE

BOERHAAVIA COCCINEA P. Mill. Perennial herb. Apparently scarce, perhaps introduced, collected in the foothills south of Corona and in Santa Ana Canyon along the railroad tracks at Gypsum siding. *E. L. Paddock* 12735, 16 Jun 1943 (RSA).

SCROPHULARIACEAE

**VERBASCUM VIRGATUM* Stokes Biennial herb. Occasional in floodplain of San Juan Creek, western base of the range. *S. D. White & B. Leatherman* 5328, 12 Jun 1997 (RSA).

ANGIOSPERMAE—MONOCOTYLEDONES

ASPARAGACEAE

**ASPARAGUS ASPARAGOIDES* (L.) Druce Perennial herb. Scarce adventive, collected in scrub vegetation, Walker Basin, southwest of Murrieta. *B. Pitzer & E. Misquez* 636, 28 Feb 1988 (RSA, UCR).

JUNCACEAE

JUNCUS ORTHOPHYLLUS Cov. Perennial herb. Known from a single collection along a stream bank in open oak woodland along the Main Divide Road between El Cariso and San Mateo Canyon. *E.*

W. Lathrop 7081, 29 May 1969 (RSA). Determined by J. Coffey Swab, 1988.

JUNCUS PHAEOCEPHALUS Engelm. var. *PANICULATUS* Engelm. Perennial herb. Apparently scarce in the Santa Rosa Plateau region, collected along edge of stream in Cole Canyon, and on Redondo Mesa. *R. F. Thorne, S. Boyd, & E. Lathrop* 61169, 18 Jul 1985 (RSA). Determined by J. Coffey Swab, 1988.

LILIACEAE

CALOCHORTUS WEEDII Alph. Wood var. *VESTUS* Purdy Geophyte. Plants which match this taxon in anther morphology and petal shape have been collected in Black Star Canyon at ca. 600 m elevation, and south of Corona at the end of Orange Heights Road. *R. Riefner et al.* 97-201, 18 Jun 1997 (RSA). At the Black Star Canyon locality, *C. weedii* var. *vestus* is apparently growing mixed with *C. weedii* var. *intermedius* Ownbey. *Calochortus plummerae* Greene also is found growing mixed with *C. weedii* var. *intermedius* in the Santa Ana Mountains, with apparent intergradation. The interrelationship among *C. weedii* var. *intermedius*, *C. weedii* var. *vestus*, and *C. plummerae* warrants further investigation.

POACEAE

**BROMUS CATHARTICUS* Vahl Perennial herb. Documented from disturbed area on the Santa Rosa Plateau, between Sandia and DeLuz creeks. *S. White* 92-2, 25 Feb 1992 (RSA, UCR).

PANICUM ACUMINATUM SW. var. *ACUMINATUM* Perennial herb. Uncommon about shaded, perennial seep on rocky slope in Fremont Canyon, ca. 300 m. *R. E. Riefner, Jr.* 20-117, 19 Feb 2000 (RSA).

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