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Philip A. Munz

Rancho Santa Ana Botanic Garden

Robert F. Thorne

Rancho Santa Ana Botanic Garden

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A NEW NORTHERN CALIFORNIA *TRILLIUM*

PHILIP A. MUNZ AND ROBERT F. THORNE

*Rancho Santa Ana Botanic Garden
Claremont, California 91711*

In the summers of 1967, 1968, and 1969 Frederick W. Oettinger, at that time a graduate student in botany at Claremont, botanized intensively an area covering the high lake basins in the vicinity of English Peak in the Marble Mountain Wilderness Area of the Salmon Mountains, western Siskiyou County, California. Altogether Mr. Oettinger's collections numbered about 1,500, which were taken largely between elevations of 4,500 and 7,300 ft. These plants are now being readied for insertion into the Botanic Garden Herbarium and duplicates will be distributed to other institutions.

Among the plants to which Mr. Oettinger gave particular study is a *Trillium* of the *T. ovatum* complex and for which we now propose the sub-specific name *oettingeri*:

***Trillium ovatum* Pursh subsp. *oettingeri* Munz & Thorne, subsp. nov. FIG. 1**

Caules plerumque 1-2.5 dm alti, ex rhizoma horizontale vel suberecto; foliis rhombico-ovatis, plerumque 4.5-8 cm longis, 3.4-5 cm latis, acutis ad breve-acuminatis, vulgo in basem petiolatam (1.5-5 mm) angustatis; pedunculo uno, erecto, 13-23(-30) mm longo; sepalis viridibus, anguste lanceolatis, 5-15(-24) mm longis; petalis vulgo albis, postea roseis, anguste lanceolatis, 5-23 mm longis, 2-3 mm latis; filamentis 2-6 mm longis; antheris cremis, 2-7 mm longis; stylis 1-2 mm longis; bacca aliquantum 6-alata, 12-14 mm longa; seminibus brunneis, oblongo-ovoideis, ca. 2.5 mm longis.

Stems largely 1-2.5 dm high from a horizontal or suberect rootstock; leaves rhombic-ovate, mostly 4.5-8 cm long, 3-4.5 cm wide, acute to abruptly short-acuminate, mostly narrowed to a petiolate base 1.5-5 mm long; peduncle one, erect, 13-23(-30) mm long; sepals green, narrowly lanceolate, 5-15 (-24) mm long; petals mostly white, aging pink or rose, narrowly lanceolate, 5-23 mm long, 2-3 mm wide; filaments 2-6 mm long; anthers cream, 2-7 mm long; styles 1-2 mm long; berry somewhat 6-winged, 12-14 mm long; seeds brown, oblong-ovoid, ca. 2.5 mm long.

Holotype.—*F. W. Oettinger* 190 (RSA 234,713) July 6, 1967, in moist humus and granitic soil at 5,680 ft, somewhat shaded streambank in fir-hemlock forest, near hairpin turn of Music Creek logging road on Statue Creek spur, T40N, R10W, NE quarter of Sect. 23, Etna Quadrangle, Salmon Mountains, Siskiyou County, California. Isotypes will be sent to California State Univ., Humboldt, at Arcata, California; University of California at Berkeley; Gray Herbarium; and British Museum.



Fig. 1. *Trillium ovatum* subsp. *oettingeri*.

Other collections examined.—Music Creek logging road, *Oettinger 149* (RSA), July 6, 1967; *Oettinger 124* (RSA), June 27, 1967; *Oettinger 126* (RSA), June 27, 1967.—Sawyers Bar Quadrangle, Siskiyou County: *Oettinger 953* (RSA), July 10, 1969, at 5,800 ft, inlet brook to Upper English Lake; *Oettinger 956* (RSA), July 10, 1969, base of cliff southwest of Upper English Lake; *Oettinger 1020* (RSA), July 14, 1969, at 6,300 ft, wet wash south of Charmaine Lake; *Oettinger 1035* (RSA), July 16, 1969, west bank of Abbott Lake at 5,500 ft; *Oettinger 1557* (RSA), Aug. 25, 1969, Little North Fork stream along new trail from end of logging road to Devils Canyon trail at 4,000 ft.—*W. J. Ferlatte 102* (RSA), June 26, 1966, at 5,000 ft, from South Fork of Salmon River, T37N, R9W, Sects. 19 & 20, Siskiyou County.—*Gilbert Muth 213* (RSA), Aug. 12, 1965, trail to Black Mountain, Marble Mts., Siskiyou County.—*W. J. Ferlatte 60* (RSA), June 2, 1966, at 5,000 ft, Upper Canyon Creek Meadow, Trinity County.

This proposed subspecies differs from *T. ovatum* subsp. *ovatum* in being narrower petaled, smaller flowered and smaller statured, in having leaves smaller and more distinctly petioled, a shorter peduncle, and a rather compact definite range. *Trillium ovatum* has considerable variability and various segregates have been proposed, such as var. *stenosepalum* R. R. Gates (Ann. Missouri Bot. Gard. 4: 61–63, 1917). Gates based his variety on a Montana type and referred to it several collections from Idaho, Washington, Oregon and California. Most of his California plants seem to be typical *ovatum* and range as far south as Santa Cruz Mountains. Our plant is smaller flowered than that in the Gates description and seems amply distinct from that. Because the *T. ovatum* complex is so variable and needs

a more modern revision, it seems best to rank ours as a subspecies for the present.

The illustration is from a color slide made by Mr. Oettinger. We are greatly indebted to Dr. Sherwin Carlquist for the black and white print used here.