

Rare Plant Status Review: *Clarkia xantiana* ssp. *parviflora*
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Clarkia xantiana ssp. *parviflora* is an annual herb in the Onagraceae. This species was once known from only two occurrences in the Kern River drainage though today CNDDDB records 22 occurrences of this species. In addition, a recent article in *Madrono* looked at the variation in morphology and phenology in *Clarkia xantiana* (both subspecies examined) and analyzed its geographic distribution (*Madrono* 46(3): 117-125 (1999)). This article indicated that many new populations of *C. xantiana* ssp. *parviflora* have been discovered. The authors mentioned that *C. xantiana* ssp. *parviflora* is "widespread, and both pink and white-flowered populations are common. The area of this subspecies' geographic range may actually exceed that of subsp. *xantiana* [which is not rare]." One of the authors of the article, Monica Geber, supplied CNPS with a list of the localities visited during the course of their study. With this new information, the number of occurrences of *C. xantiana* ssp. *parviflora* totals approximately 50 occurrences. She also mentions that they continue to discover new populations and that there is apparently a lot of suitable habitat that they have not yet explored because it is far from roads and trails and/or on private land. Below is an excerpt from the abstract of the *Madrono* paper mentioned above.

"...The surveys did, however, reveal that subsp. *parviflora* is much more abundant and widespread than reported previously. In certain arid sections of the range, all populations resemble subsp. *parviflora*. Thus there is an association of autogamy with dry environments. In a central zone the subspecies coexist, often occurring at the same sites, but with flowering times displaced several weeks. Pink- and white- flowered forms of subsp. *parviflora* are both common and widespread...."

C. xantiana ssp. *parviflora* tends to occur on dry slopes between 800 m and 3620 m in elevation and occupies the more arid regions of *Clarkia xantiana*'s range. Due to the additional locations that this subspecies was found to occur in, we recommend that *C. xantiana* ssp. *parviflora* be downgraded from CNPS List 1B.2 to List 4.2. Please review the draft *Inventory* record below and the attached document, provide any updated information, and comment on this proposed ranking change.

Recommended Actions

CNPS: Re-rank from CNPS List 1B.2 to CNPS List 4.2

CNDDDB: Change CNDDDB G and S status from G4?T1/S1.2 to **G4T3 / S3.2**

Revised CNPS *Inventory* record:

***Clarkia xantiana* Gray ssp. *parviflora* (Eastw.) Lewis & Raven**

"Kern Canyon clarkia"

Onagraceae

List 4.2

Inyo, Kern, Los Angeles, Tulare

Element Code: PDONA05181
Changed from List 1B.2 to List 4.2 on 8/15/07

135A [Valyermo/3411747], 236B [Pinyon Mtn./3511842], 237B [Piute Peak/3511844], 259A [Walker Pass/3511861], 259B [Onyx/3511862], 259C [Cane Canyon/3511852], 260A [Weldon/3511863], 260B [Lake Isabella North/3511864], 260C [Lake Isabella South/3511854], 260D [Woolstalf Creek/3511853], 261D [Miracle Hot Springs/3511855], 283D [Lamont Peak/3511871], 284B [Fairview/3511884], 284B [Fairview/3511884], 284C [Kernville/3511874], 285A [Johnsontdale/3511885], 306A [Haiwee Pass/3611821], 306D [Long Canyon/3611811] Cismontane woodland, Great Basin scrub; elevation 800-3620 meters.

Annual herb, blooms May-June.

Potentially threatened by road construction. See *Bulletin of the Torrey Botanical Club* 30: 492 (1903) for original description, *Madrono* 39 (3): 163-169 (1992) for revised nomenclature, and *Madrono* 46(3): 117-125 (1999) for species account.