

ARIZONA GAME AND FISH DEPARTMENT  
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDHYD0C520

Data Sensitivity: No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Phacelia cronquistiana*

**COMMON NAME:** Cronquist's phacelia

**SYNONYMS:**

**FAMILY:** Hydrophyllaceae

**AUTHOR, PLACE OF PUBLICATION:** S.L. Welsh, *Rhodora* 95(883/884): 402, f. 9. 1993.

**TYPE LOCALITY:** Head of Johnson Canyon, 3 miles E of junction on road to Cannonville, Kane County, Utah, United States of America. Alt. 6300 ft.

**TYPE SPECIMEN:** HT: BRY. N.D. Atwood 9458, 13 Jun 1983. IT: NYBG 8403.

**TAXONOMIC UNIQUENESS:** The species *cronquistiana* is 1 of 158 in the genus *Phacelia*. This plant was initially collected by N.D. Atwood in 1969 and identified as *P. rotundifolia* Torr. Ex Wats., and later as both *P. pulchella* Gray and *P. lemmonii* Gray.

**DESCRIPTION:** Herbaceous annual from 6-9 cm (2.4-3.5 in) tall, with erect stems that are shortly capitate-glandular, and simple or branching from the base. The leaves are essentially all cauline, and petiolate. The blades are 3-7 mm long and 2-6 mm wide, oval to rhombic, often broader than long, entire or less commonly some crenate. The cymes are terminal on main the stems and branches, 2-6 cm long in fruit; pedicels ca 0.5 mm long at anthesis, becoming up to 4 mm long in fruit. Sepals are linear-oblong to spatulate, 2-2.8 (3.2) mm long at anthesis, to 6; 2 mm long in fruit, and 0.5-1.2 mm wide. The corolla is tubular-campanulate, 3.5-4 mm long, and pale purple with a white tube; anthers are included, and the style is bilobed. Seeds are 25-35, about 0.3-0.4 mm long, and pitted.

**AIDS TO IDENTIFICATION:** Differs from *P. incana* in its shorter glandular pubescence and shorter calyx (shorter than 3 mm long vs. longer).

**ILLUSTRATIONS:** Line Drawing (Utah Rare Plant Field Guide in [http://www.utahrareplants.org/rpg\\_species.html](http://www.utahrareplants.org/rpg_species.html))  
Color photo of Isotype specimen (NYBG in

[http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail\\_list?this\\_id=4411559](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list?this_id=4411559)).

**TOTAL RANGE:** Southern Utah, and northern Arizona.

**RANGE WITHIN ARIZONA:** Apache and Navajo counties in Northern Arizona.

### **SPECIES BIOLOGY AND POPULATION TRENDS**

**GROWTH FORM:** Herbaceous annual.

**PHENOLOGY:** Flowers from May-June.

#### **BIOLOGY:**

**HABITAT:** Clay outcrops in pinyon-juniper-sagebrush and ponderosa pine communities.

**ELEVATION:** 6,300 - 6,900 ft (1920-2103 m).

**EXPOSURE:**

**SUBSTRATE:** Clay outcrops

**PLANT COMMUNITY:** Pinyon-juniper-sagebrush and ponderosa pine communities.

**POPULATION HISTORY AND TRENDS:** Unknown.

### **SPECIES PROTECTION AND CONSERVATION**

**ENDANGERED SPECIES ACT STATUS:** None

**STATE STATUS:** None

**OTHER STATUS:** None

**MANAGEMENT FACTORS:**

**PROTECTIVE MEASURES TAKEN:**

**SUGGESTED PROJECTS:** Surveys to determine the range and population status of this species are needed.

**LAND MANAGEMENT/OWNERSHIP:** Bureau of Land Management.

**SOURCES OF FURTHER INFORMATION****REFERENCES:**

- Integrated Taxonomic Information System (ITIS). Retrieved 4/23/2004 from ITIS, <http://www.itis.usda.gov>.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Phacelia cronquistiana* S.L. Welsh. [http://mobot.mobot.org/cgi-bin/search\\_vast](http://mobot.mobot.org/cgi-bin/search_vast). Accessed: 23 Apr 2004.
- The New York Botanical Garden. NYBG Specimens Detailed Results. [http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail\\_list](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list). Accessed: 4/23/2004.
- USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<http://plants.usda.gov>). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.
- Utah Rare Plant Field Guide. Available: [http://www.utahrareplants.org/rpg\\_species.html](http://www.utahrareplants.org/rpg_species.html).
- Welsh, S.L. 1993. New Taxa and New Nomenclatural Combinations in the Utah Flora. *Rhodora* 95: 402.
- Welsh, S.L. et al. 1993. A Utah Flora. Brigham Young University. Provo, Utah. Pp: 362-363.

**MAJOR KNOWLEDGEABLE INDIVIDUALS:****ADDITIONAL INFORMATION:**

**Revised:** 2004-04-23 (AMS)  
2004-06-24 (SMS)

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