

Frasera gypsicola (Barneby) D. M. Post**SUNNYSIDE GREEN GENTIAN****FAMILY:** *Gentianaceae*, the gentian family.**SYNONYMS:** *Swertia gypsicola***STATUS:****Heritage Program SENSITIVE LIST, ranks: G1 S1****USFWS/ESA:** species of concern. **STATE OF NEVADA:** FULLY PROTECTED. **BLM:** Special Status Species in Nevada. **USFS:** none. **NNNPS:** watch list.**POPULATION CENSUS (NEVADA):** 7 occurrences mapped at 1.0 km (0.6 mi) separation, OR 9 occurrences mapped at 0.16 km (0.1 mi) separation; total estimated individuals 203,000+, total estimated area 321 ha (793 ac).**TREND:** unknown.**IMPACTS AND MAJOR THREATS (NEVADA):** No summary available (see references).**INVENTORY EFFORT (NEVADA):** Surveys are substantially complete in Nevada. Most recent entered survey 1999, average year of last survey 1995. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 33.3%; **6-10 yrs:** 66.7%.**LAND MANAGEMENT (NEVADA)** in decreasing predominance: U. S. Bureau of Land Management, Nevada state lands, private lands.**RANGE:** Nye and White Pine counties, Nevada; also in UT (?). Maximum Nevada **range dimension 37.3 km (23.2 mi)** excluding most disjunct record.**ELEVATIONS RECORDED (NEVADA):** 5180-5510 feet (1579-1679 meters).**HABITAT (NEVADA):** Open, dry, whitish, alkaline, often salt-crustured and spongy silty-clay soils on calcareous flats and barrens, with little if any gypsum content, in cushion-plant associations surrounded by sagebrush, greasewood, and occasionally barberry and swamp cedar (*Juniperus scopulorum*) vegetation, with *Artemisia pygmaea*, *A. tridentata*, *Eriogonum shockleyi*, *Physaria chambersii*, *Cryptantha welshii*, *Hymenopappus filifolius*, *Phlox tumulosa*, *Lepidium nanum*, etc.**PHENOLOGY:** flowering summer. Range of most frequent **survey months:** May-July.**LIFE-FORM AND HABIT:** long-lived perennial herb.**DESCRIPTION:** A perennial herb, 1-2 dm tall, with grass-like leaves. Flowers (June and July) are white, freckled with purple-blue.**PHOTOGRAPHS:** Smith (1994); Nevada Natural Heritage Program images web page (1998-present), slide collection (1986-present), and files.**ILLUSTRATIONS:** Cronquist et al. (1984), Mozingo and Williams (1980).**OTHER GENERAL REFERENCES** (listed separately): Welsh et al. (1993).**SPECIFIC REFERENCES:**Barneby, R. C. 1942. An addition to the genus *Swertia*. *Leaflets of Western Botany* 3: 155-157.

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