

***Tonestus alpinus*** (L. C. Anderson & Goodrich) Nesom & Morgan**ALPINE TONESTUS****FAMILY:** *Asteraceae*, the sunflower family.**SYNONYMS:** *Haplopappus alpinus***STATUS:****Heritage Program SENSITIVE LIST, ranks: G2 S2****USFWS/ESA:** species of concern. **STATE OF NEVADA:** none. **BLM:** none. **USFS:** Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** watch list.**POPULATION CENSUS:** 8 occurrences mapped at 1.0 km (0.6 mi) separation, OR 10 occurrences mapped at 0.16 km (0.1 mi) separation; total estimated individuals unknown, total estimated area 125+ ha (309+ ac).**TREND:** unknown.**IMPACTS AND MAJOR THREATS:** Some threats from mining activities.**INVENTORY EFFORT:** Not yet systematically surveyed. Most recent entered survey 1991, average year of last survey 1979. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 10%; **21-30 yrs:** 90%.**LAND MANAGEMENT** in decreasing predominance: Humboldt-Toiyabe National Forest, designated wilderness.**RANGE:** Lander and Nye counties, Nevada. **Nevada endemic.** Maximum **range dimension 46.7 km (29.0 mi)** excluding most disjunct record. **Type specimen** collected in Nye County.**ELEVATIONS RECORDED:** 8900-11000 feet (2713-3353 meters).**HABITAT:** Crevices, rubble, and adjacent rocky soils of rock outcrops of various composition, often on northerly or protected aspects, in the mountain mahogany, subalpine conifer, and lower alpine zones, with *Pinus flexilis*, *Cercocarpus ledifolius*, *Artemisia michauxiana*, *Cymopterus petraeus*, etc.**PHENOLOGY:** flowering summer. Range of most frequent **survey months:** June-August.**LIFE-FORM AND HABIT:** perennial herb.**DESCRIPTION:** A perennial herb, 0.5-2 dm tall, with sharply toothed leaves and with rayless yellow flower heads in bloom July-September.**PHOTOGRAPHS:** Weixelman and Atwood (1990).**ILLUSTRATIONS:** Cronquist (1994), Weixelman and Atwood (1990).**OTHER GENERAL REFERENCES** (listed separately): Goodrich (1981).**SPECIFIC REFERENCES:**Anderson, L. 1980. *Haplopappus alpinus* (Asteraceae): A new species from Nevada. *Great Basin Naturalist* 40: 73-77.Morefield, J. D. 1992. Interim status report for *Frasera pahutensis* Reveal. Carson City: Nevada Natural Heritage Program, prepared for the Toiyabe National Forest, Sparks, Nevada.**OF FURTHER INTEREST:** USFWS tracked as HAPLOPAPPUS ALPINUS (9/93).