Plant Species Evaluation Form

*Eriogonum ternatum* Howell

TERNATE BUCKWHEAT

**Family:** Polygonaceae  
**PLANTS Symbol:** ERTE10  
**Calif. Endemic:** No

(CNPS 2018)  
(CNPS 2018)

**Synonyms/Other Names:** *Eriogonum umbellatum* Torr. var. *ternatum* (Howell) S. Stokes; *E. ursinum* S. Watson var. *confine* S. Stokes (Reveal 2011).

**Identification Issues:** *Eriogonum* is a large genus with roughly 250 species (Reveal and Rosatti 2018). *Eriogonum ternatum* is a perennial member of the subgenus *Oligogonum* (incl. *Eriogonum lobbii, E. umbellatum*, and *Eriogonum ursinum*). *Eriogonum* taxa are considered among the hardest to distinguish and identify in North America (Reveal 2017). Descriptions within *Flora of North America North of Mexico* distinguish caudex stems and aerial stems from flowering stems (Reveal 2005). Caudex stems and aerial stems refer to vegetative stems giving rise to leaves. Stem types are not distinguished within descriptions published in the second edition of *The Jepson Manual* and *The Jepson eFlora* (Baldwin et al. 2012; Jepson Flora Project 2018). Reveal notes that extreme phenotypes should not be focused upon, and that one should sample the range of variation. He also states that field observations on floral color, stature, pubescence, and overall size are helpful. Phenotypic plasticity is known among some members of *Eriogonum*. A rare taxon, *E. densum*, from New Mexico was found to be an extreme form of the more common *E. polycladon*. Likewise, inflorescences of certain *Eriogonum* species that are prostrate in the wild can appear more erect when grown in cultivation (Anderson 2006).

*Eriogonum ternatum* has been mistaken for *E. umbellatum*, and, at one time, was treated as a variety of *E. umbellatum*. Notably, *E. umbellatum* var. *humistratum* has the greatest potential for confusion with *E. ternatum* (Reveal 2005). Respective distributions of these taxa overlap in northern Trinity and southern Siskiyou counties (Calflora 2018; CCH 2018). *Eriogonum ternatum* has erect involucral teeth 0.8-2 mm in length, whereas the involucral teeth of *E. umbellatum* var. *humistratum* are reflexed and 1.5-3 mm long on *E. umbellatum* var. *humistratum* (Reveal 2005).

**Taxonomy:**

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Species In Genus: +- 250 species: temperate North America. Etymology: (Greek: woolly knees, for hairy nodes of 1st sp. named).

Genus Description – Habit: Annual to shrub, matted or not. Stem: prostrate to erect, occasionally 0, glabrous or hairy, occasionally glandular. Leaf: basal, sheathing (on stem above basal, beneath other, +- non-sheathing cauline), or cauline, alternate, opposite, or whorled; blades linear to +- round, generally longer than wide, margins flat, wavy, or rolled under; ocreae 0. Inflorescence: variable, glabrous or hairy, occasionally glandular; peduncles 0 or erect to reflexed (pointed down); involucres 1 or in clusters, tubular, glabrous or hairy, teeth generally 4--10, awns 0.
Eriogonum ternatum Howell

Flower: (2)6--100(200), with a stalk-like base ("flower stipe" or "stipe") or not; perianth generally white to red or yellow, glabrous or hairy, occasionally glandular, lobes 6, generally entire; stamens 9. Fruit: generally brown or black, generally obconic, glabrous or hairy; embryo curved or straight.

Species Description – Habit: Perennial mat 3--13 dm diam. Stem: 1--2.5(3) dm, tomentose. Leaf: basal; blades (0.7)1--1.5 cm, (0.4)0.8--1.3 cm wide, tomentose abaxially, tomentose to + glabrous adaxially. Inflorescence: 0.8--3 cm, 1--3.5 cm wide; branches tomentose; involucres 5--8 mm, 3--5 mm wide, tomentose; teeth 5--8. Flower: 3--5 mm, stipe 0.3--0.6 mm, glabrous; perianth yellow, lobes spoon-shaped to obovate. Fruit: 3.5--5 mm, glabrous except sparsely hairy tip. eFlora Treatment Author: James L. Reveal & Thomas J. Rosatti.

Status:
Note: Federally recognized Endangered, Threatened, Proposed, or Candidate species under the Endangered Species Act are omitted as they do not meet the definition of a Species of Conservation Concern (FSH 1909.12 § 12.52).

<table>
<thead>
<tr>
<th>State Listing</th>
<th>G-rank</th>
<th>S-rank</th>
<th>CRPR</th>
<th>R5 FSS</th>
<th>NFP SM</th>
<th>CA BLM</th>
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<td>CA: S4</td>
<td>4.3</td>
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<td>OR: Not listed</td>
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</table>

| SWAP: Not listed | NNHP: Not listed | NNPS: Not listed | ORBIC: Not listed | OCS: Not listed | IUCN: Not listed |

Expanded abbreviations and citations: State Listing=California Endangered Species Act Listing (CDFW 2018b), Nevada Division of Forestry Fully Protected Plant Species (NAC 527) (NDF 2012), Oregon Department of Agriculture Listed Plants (ODA 2014); G-rank=Global Conservation Status (CDFW 2018a; NatureServe 2018); S-rank=Subnational (state or province-level) Conservation Status (CDFW 2018a; NatureServe 2018; NNHP 2017; ORBIC 2016); CRPR=California Rare Plant Rank (CNPS 2018); R5 FSS=USDA Forest Service Region 5 Regional Forester Sensitive Plant Species List (USDA 2013); NFP SM=Forest Service and Bureau of Land Management Northwest Forest Plan Survey and Manage Species (USDA 2001); CA BLM=California Bureau of Land Management Designated Sensitive Species (BLM 2010); SWAP=California State Wildlife Action Plan Status (CDFW 2015); NNHP=Nevada Natural Heritage Program Status (NNHP 2017); NNPS=Nevada Native Plant Society Status (NNHP 2017); ORBIC=Oregon Biological Information Center Status (ORBIC 2016); OCS=Oregon Conservation Strategy Species (ODFW 2016); IUCN=International Union for Conservation of Nature Red List Status (IUCN 2017).

Distribution: Western North America, with plants restricted to southwest Oregon (Curry and Josephine counties) and northwest California (Reveal 2005). California occurrences are found in the northern Klamath Range (n KR), southern Outer North Coast Ranges (s NCoRO), and northern High North Coast Ranges (n NCoRH) bioregions (Reveal and Rosatti 2018). These occurrences are found in Sonoma, Mendocino, Shasta, Trinity, Siskiyou, and Del Norte counties. A majority (46/56; ~82%) of its occurrences are found on National Forest System lands, within Six Rivers NF (23/46; 50%), Klamath NF (14/46; ~30%), Shasta-Trinity NF (8/46; ~17%), and Mendocino NF (1/46; ~2%) (CCH 2017). There are unexplained disjunctions between population clusters, and not all apparently suitable habitat is occupied. This may be partly due to undercollection or misidentification of specimens, because of difficulty in distinguishing similar Eriogonums from each other.
Eriogonum ternatum Howell

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**Locations within California:**

Record numbers indicate sites that contain an individual, population, or groups of populations located within ¼ mile of each other, per the California Natural Diversity Database (CNDDB 2017) definition of Element Occurrences (EOs) in California. Official EO numbers for plants in California are determined solely by the CNDDB and are included within the Reference (Source) column for CNDDB data. Duplicate records from the same site are given the same record number and included in red. The Population Info column includes total number of individuals and total number and size of populations/sub-populations when provided. Elevations provided in meters from source have been converted to feet. If not provided in original source, Land Manager information was obtained using the California Protected Areas Database (CPAD 2016) and Quad information was obtained using 24K Quads, SDE Feature Class (CDFG 2013). All other information is directly from the Reference (Source) unless additional citation is given.

<p>| Rec. # | Locality | County  | Quad       | Reference (Source) | Date Last Observed | Population Info | Threats                                                                 | Land Manager                        | Elev. (ft.) |
|--------|----------|---------|------------|-------------------|-------------------|-----------------|----------------|-------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Sonoma County: The Cedars, N of Cazadero, headwaters of East Austin Creek. Area called Red Slide | Sonoma | Cazadero (3812351) | CCH, Jan 2017 (UCD101272) | 23-Jun-1984       |                 |                                                                            | BLM                                  | 1800       |
| 1      | The Cedars | Sonoma | Fort Ross (3812352) | Calflora, May 2017 (jgr9760) | 25-Jun-1995       | 1+ individuals | The Cedars Area of Critical Environmental Concern |                                      | 1457       |
| 1      | The Cedars, N of Cazadero, headwaters of Big Austin Creek, near Laton Mine site. | Sonoma | Fort Ross (3812352) | CCH, Jan 2017 (UC1520694) | 10-Aug-1985       |                 | The Cedars Area of Critical Environmental Concern |                                      | 1220       |
| 1      | Sonoma County: The Cedars, 5 miles N of Cazadero on King Ridge Road, headwaters of Big Austin Creek. Above tributary creek referred to locally as Azalea Creek (NE fork before Layton Mine bldgs.) | Sonoma | Fort Ross (3812352) | CCH, Jan 2017 (UCD101270) | 23-Jun-1984       |                 | The Cedars Area of Critical Environmental Concern |                                      | 1800       |</p>
<table>
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<th>Rec. #</th>
<th>Locality</th>
<th>County</th>
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<th>Reference (Source)</th>
<th>Date Last Observed</th>
<th>Population Info</th>
<th>Threats</th>
<th>Land Manager</th>
<th>Elev. (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Round Valley Rd. (M4) 0.1 mi n of Board Ridge Rd. (23N02)</td>
<td>Mendocino</td>
<td>Mendocino Pass (3912278)</td>
<td>CCH, Jan 2017 (CHSC69686)</td>
<td>15-Jul-1986</td>
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<td>Mendocino NF</td>
<td>5400</td>
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<tr>
<td>3</td>
<td>0.2 mi e along s side of rd. 29N68, w of Regan Mdw. jct with 29N15; Brushy Mtn.</td>
<td>Shasta</td>
<td>Pony Buck Peak (4012331)</td>
<td>CCH, Jan 2017 (UC1553599)</td>
<td>8-Jul-1988</td>
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<td>Shasta-Trinity NF</td>
<td>4900</td>
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<td>4</td>
<td>Near an un-named spring along Road 29N39, 3.1 km west of Road 28N10; about 6.8 km north-northwest of Pony Buck Peak; head of North Fork Beegum Creek</td>
<td>Shasta</td>
<td>Pony Buck Peak (4012331)</td>
<td>CCH, Jan 2017 (CDA22673)</td>
<td>8-Jul-2001</td>
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<td>Shasta-Trinity NF</td>
<td>4396</td>
<td></td>
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<tr>
<td>4</td>
<td>Klamath Ranges. Un-named spring along Rd 29N39 3.1 km west of Rd 28N10; about 6.8 km north-northwest of Pony Buck Peak; head of North Fork Beegum Creek</td>
<td>Shasta</td>
<td>Pony Buck Peak (4012331)</td>
<td>CCH, Jan 2017 (CHSC82694)</td>
<td>8-Jul-2001</td>
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<td>Shasta-Trinity NF</td>
<td>4396</td>
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<tr>
<td>5</td>
<td>Klamath Ranges. On ridgetop 1.8 km north of Red Mountain</td>
<td>Trinity</td>
<td>Smoky Creek (4012332)</td>
<td>CCH, Jan 2017 (CHSC82593)</td>
<td>8-Jul-2001</td>
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<td>Shasta-Trinity NF</td>
<td>5413</td>
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<tr>
<td>6</td>
<td>Hwy. 36 4.8 mi west of Wildwood Rd., 7.3 mi east of Hwy. 3</td>
<td>Trinity</td>
<td>Wildwood (4012341)</td>
<td>CCH, Jan 2017 (CHSC71547)</td>
<td>28-Jul-1998</td>
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<td>Shasta-Trinity NF</td>
<td>4100</td>
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<tr>
<td>7</td>
<td>Along State Route 36 just west of Muldoon Gulch</td>
<td>Trinity</td>
<td>Wildwood (4012341)</td>
<td>CCH, Jan 2017 (UCR45378)</td>
<td>27-Jul-1979</td>
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<td>Shasta-Trinity NF</td>
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<td>8</td>
<td>Along State Route 3 0.3-0.5 miles south of Salt Creek Bridge, Shasta-Trinity National Forest</td>
<td>Trinity</td>
<td>Dubakella Mtn. (4012342)</td>
<td>CCH, Jan 2017 (CAS701657)</td>
<td>19-Jun-1980</td>
<td>1980-1990</td>
<td>Shasta-Trinity NF</td>
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<tr>
<td>8</td>
<td>Along State Route 3 0.3-0.5 miles south of Salt Creek Bridge, Shasta-Trinity National Forest</td>
<td>Trinity</td>
<td>Dubakella Mtn. (4012342)</td>
<td>CCH, Jan 2017 (CAS984836)</td>
<td>19-Jun-1980</td>
<td>1980-1990</td>
<td>Shasta-Trinity NF</td>
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<tr>
<td>8</td>
<td>Shasta-Trinity National Forest; Along Route 3, 0.3-0.5 miles south of Salt Creek Bridge</td>
<td>Trinity</td>
<td>Dubakella Mtn. (4012342)</td>
<td>CCH, Jan 2017 (HSC68828)</td>
<td>19-Jun-1980</td>
<td>1980-1990</td>
<td>Shasta-Trinity NF</td>
<td>2500</td>
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<tr>
<td>9</td>
<td>Blue Point, Scott Mountain Public Campground, Klamath National Forest</td>
<td>Siskiyou</td>
<td>Scott Mountain (4112236)</td>
<td>CCH, Jan 2017 (GH364495)</td>
<td>1-Sep-1953</td>
<td>1953-1960</td>
<td>Shasta-Trinity NF</td>
<td>2500</td>
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<tr>
<td>10</td>
<td>Near Chinquapin in rocks, dry steep rocky hillside on Scott Mountain</td>
<td>Siskiyou</td>
<td>Scott Mountain (4112236)</td>
<td>CCH, Jan 2017 (GH364498)</td>
<td>19-Aug-1948</td>
<td>1948-1953</td>
<td>Shasta-Trinity NF</td>
<td>2500</td>
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<tr>
<td>11</td>
<td>Scott Mountain S of junction of Forest service Rd. 40N08 and 44N44 ca 1/2 mi E of junction of State Route 3 and Forest Service Rd. 40N08E side of North-South running ridge.</td>
<td>Siskiyou</td>
<td>Scott Mountain (4112236)</td>
<td>CCH, Jan 2017 (JEPS108711)</td>
<td>4-Aug-2006</td>
<td>2006-2010</td>
<td>Klamath NF</td>
<td>5480</td>
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<tr>
<td>12</td>
<td>Mt. Eddy, west of Sisson, on open southeastern gravelly and stony slope</td>
<td>Siskiyou</td>
<td>Mount Eddy (4112234)</td>
<td>CCH, Jan 2017 (A364496)</td>
<td>16-Jul-1918</td>
<td>1918-1928</td>
<td>Shasta-Trinity NF</td>
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<tr>
<td>12</td>
<td>Mt. Eddy, west of Sisson, on open southeastern gravelly and stony slope</td>
<td>Siskiyou</td>
<td>Mount Eddy (4112234)</td>
<td>CCH, Jan 2017 (GH364497)</td>
<td>16-Jul-1918</td>
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<td>Shasta-Trinity NF</td>
<td>4902</td>
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<td>13</td>
<td>Forks of Blue Trail, 1-2 mi. from Jeep rd. near Flint Valley</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017 (HSC43541)</td>
<td>10-Jul-1974</td>
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<td>Eight Mile Creek study unit, rd. to Elk Valley</td>
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<td>Chimney Rock (4112356)</td>
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<td>31-Dec-1974</td>
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<td>15</td>
<td>Ridge near FS 15N01 about 1 mi. N of Flint Valley</td>
<td>Siskiyou</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017 (HSC69549)</td>
<td>4-Aug-1980</td>
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<td>Six Rivers NF</td>
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<td>15</td>
<td>Klamath National Forest, ridge along FS Rd. 15N01, 1 mi. N of Flint Valley.</td>
<td>Siskiyou</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017 (HSC69556)</td>
<td>26-Jun-1980</td>
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<td>4400</td>
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<td>15</td>
<td>about 1 mi s Elk Valley (at head of Blue Creek, 1 mi e of Chimney Rock); Blue Creek</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017 (UC1222335)</td>
<td>19-Jul-1950</td>
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<td>16</td>
<td>Near Boundary Trail, close to the town of Orleans</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
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<td>29-Jul-1979</td>
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<td>17</td>
<td>Elk Valley: At head of Blue Creek, 1 mile east of Chimney Rock, 1-2 miles south of valley</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017 (RSA178529)</td>
<td>19-Jul-1950</td>
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### Eriogonum ternatum Howell

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<th>County</th>
<th>Quad Reference (Source)</th>
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<th>Population Info</th>
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<th>Land Manager</th>
<th>Elev. (ft.)</th>
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<tr>
<td>18</td>
<td>Glacial cirque behind Chimney Rock</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017</td>
<td>25-Aug-1976</td>
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<td>19</td>
<td>Near Sawtooth Mtn., close to the town of Orleans</td>
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<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017</td>
<td>30-Jul-1979</td>
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<td>19</td>
<td>Near Sawtooth Mtn., close to the town of Orleans</td>
<td>Del Norte</td>
<td>Chimney Rock (4112356)</td>
<td>CCH, Jan 2017</td>
<td>30-Jul-1979</td>
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<td>20</td>
<td>22.9 mi. from junction with Hwy. 199 on French Hill Rd.</td>
<td>Del Norte</td>
<td>Cant Hook Mtn. (4112368)</td>
<td>CCH, Jan 2017</td>
<td>30-Jun-1970</td>
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<td>Six Rivers NF</td>
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<tr>
<td>21</td>
<td>Baldy Mountain.</td>
<td>Siskiyou</td>
<td>Happy Camp (4112374)</td>
<td>CCH, Jan 2017</td>
<td>4-Aug-1962</td>
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<td>Baldy Mountain</td>
<td>Siskiyou</td>
<td>Happy Camp (4112374)</td>
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<td>22</td>
<td>Near Table Mtn.</td>
<td>Del Norte</td>
<td>Hurdygurdy Butte (4112377)</td>
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<td>23</td>
<td>Near Gordon Mtn., close to the town of Gasquet</td>
<td>Del Norte</td>
<td>Hurdygurdy Butte (4112377)</td>
<td>CCH, Jan 2017</td>
<td>13-Jun-1979</td>
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<td>Land Manager</td>
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<tr>
<td>24</td>
<td>Along the dirt road to Baldy Mountain Lookout (USFS # 17N11), 0.6 mile south of the junction of 17N23, on a ridge dividing Doolittle Creek and Little South Fork, about 3.5 miles north-northeast of the lookout</td>
<td>Siskiyou</td>
<td>Happy Camp (4112374)</td>
<td>CCH, Jan 2017 (CAS657826)</td>
<td>9-Aug-1978</td>
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<td>24</td>
<td>Along the dirt road to Baldy Mountain Lookout (USFS # 17N11), 0.6 mile south of the junction of 17N23, on a ridge dividing Doolittle Creek and Little South Fork, about 3.5 miles north-northeast of the lookout</td>
<td>Siskiyou</td>
<td>Baldy Mt.</td>
<td>CCH, Jan 2017 (SD53393)</td>
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<td>25</td>
<td>Peak 5148 near end of USFS Rd. 17N32 19 mi. from Indian Creek Rd.</td>
<td>Siskiyou</td>
<td>Preston Peak (4112375)</td>
<td>CCH, Jan 2017 (HSC77292)</td>
<td>7-Aug-1983</td>
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<td>26</td>
<td>Klamath National Forest, ridge just E of saddle, S of Rattlesnake Meadow</td>
<td>Siskiyou</td>
<td>Preston Peak (4112375)</td>
<td>CCH, Jan 2017 (HSC69044)</td>
<td>7-Aug-1980</td>
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<td>26</td>
<td>ridge s Preston Peak; Klamath National Forest, Preston Peak Quad.</td>
<td>Siskiyou</td>
<td>Preston Peak (4112375)</td>
<td>CCH, Jan 2017 (UC1483469)</td>
<td>7-Aug-1980</td>
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<tr>
<td>27</td>
<td>Preston Peak</td>
<td>Siskiyou</td>
<td>Preston Peak (4112375)</td>
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<td>28</td>
<td>Near Smith River, S Siskiyou Fork</td>
<td>Del Norte</td>
<td>Hurdygurdy Butte (4112377)</td>
<td>CCH, Jan 2017 (HSC74782)</td>
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<td>29</td>
<td>South fork Indian Creek to Elk Lick</td>
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<td>Preston Peak</td>
<td>CCH, Jan 2017 (DS207026)</td>
<td>20-Jul-1929</td>
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<td>El Capitan</td>
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<td>20-Jun-1968</td>
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<td>Ridge between Broken Rib Mtn and Wounded Knee Mtn</td>
<td>Del Norte</td>
<td>Broken Rib Mtn.</td>
<td>CCH, Jan 2017 (HSC102253)</td>
<td>12-Jul-2012</td>
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<td>trail from Illinois river to Black Butte</td>
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<td>Polar Bear Mtn.</td>
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<td>11-Sep-1912</td>
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<td>Trail from Illinois River to Black Butte</td>
<td>Del Norte</td>
<td>Polar Bear Mtn.</td>
<td>CCH, Jan 2017 (CAS131597)</td>
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<td>CCH, Jan 2017 (HSC53656)</td>
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<td>Near Broken Rib Mtn., close to the town of Gasquet</td>
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<td>34</td>
<td>7 miles NNE of Seiad Valley, SW of Cook and Gerrn Pass, 0.5 mile SE of red Butte.</td>
<td>Siskiyou</td>
<td>Kangaroo Mtn. (4112382)</td>
<td>CCH, Jan 2017 (RSA516402)</td>
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<td>35</td>
<td>9 mi. so. of Calif.-Ore. Line on Sanger Pk. Rd., Siskiyou Nat. Forest</td>
<td>Del Norte</td>
<td>Broken Rib Mtn. (4112386)</td>
<td>CCH, Jan 2017 (SD56699)</td>
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<td>9.0 miles south of California -Oregon state line on Sanger Peak Road, Siskiyou National Forest.</td>
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<td>High Divide, Siskiyou Mts.</td>
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<td>High Divide (4112481)</td>
<td>CCH, Jan 2017 (CAS374902)</td>
<td>10-Aug-1937</td>
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<td>High Divide, Siskiyou Mts.</td>
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<td>Siskiyou Mountains, High Divide.</td>
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<td>CCH, Jan 2017 (RSA21122)</td>
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<td>Siskiyou Mts., High Divide</td>
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<td>37</td>
<td>Alta Mine site</td>
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<td>High Divide (4112481)</td>
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<td>37</td>
<td>Low Divide, East of Smith River Village 7 miles</td>
<td>Del Norte</td>
<td>High Divide (4112481)</td>
<td>CCH, Jan 2017 (DS330924)</td>
<td>25-Jun-1938</td>
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<td>37</td>
<td>7 mi e Smith River Village (Low Divide); Low Divide</td>
<td>Del Norte</td>
<td>High Divide (4112481)</td>
<td>CCH, Jan 2017 (UC709315)</td>
<td>25-Jun-1938</td>
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<td>38</td>
<td>Six Rivers National Forest. Along Forest Route 18N07 to Sanger Lake.</td>
<td>Del Norte</td>
<td>Broken Rib Mtn. (4112386)</td>
<td>CCH, Jan 2017 (HSC102897)</td>
<td>18-Jul-2010</td>
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<td>39</td>
<td>Just off Forest Rd. 18N07 on a ridge heading up to Haystack Mtn.</td>
<td>Del Norte</td>
<td>Broken Rib Mtn. (4112386)</td>
<td>CCH, Jan 2017 (UCR39971)</td>
<td>7-Jul-1983</td>
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<td>40</td>
<td>Sanger Peak</td>
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<td>Broken Rib Mtn. (4112386)</td>
<td>CCH, Jan 2017 (HSC62065)</td>
<td>16-Aug-1962</td>
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<td>41</td>
<td>s Lily Pad Lake (trail up Kangaroo Peak; ca. 5 mi n of the town of Seiad Valley); Kangaroo Peak</td>
<td>Siskiyou</td>
<td>Kangaroo Mtn. (4112382)</td>
<td>CCH, Jan 2017 (JEPS84304)</td>
<td>17-Jul-1986</td>
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<td>42</td>
<td>ridge-top between Indian Creek and Illinois River drainage (Dunn Creek) (about 12 air mi nw of Happy Camp)</td>
<td>Siskiyou</td>
<td>Polar Bear Mtn. (4112385)</td>
<td>CCH, Jan 2017 (JEPS25875)</td>
<td>20-Jul-1960</td>
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<td>43</td>
<td>Poker Flat</td>
<td>Siskiyou</td>
<td>Polar Bear Mtn. (4112385)</td>
<td>CCH, Jan 2017 (HSC61799)</td>
<td>31-Jul-1938</td>
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### Eriogonum ternatum Howell

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<tr>
<td>43</td>
<td>Poker Flat - Twin Valley trail</td>
<td>Del Norte</td>
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<td>44</td>
<td>rock outcrop along trail to Lily Pad Lake (vicinity of Cook and Green Pass); Sisiyou Mts.</td>
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<td>Kangaroo Mtn. (4112382)</td>
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<td>Klamath Ranges. Siskiyou Mountains; crest of the mountain 1.3 air km east of Condrey Mountain</td>
<td>Siskiyou</td>
<td>Condrey Mtn. (4112288)</td>
<td>CCH, Jan 2017 (CHSC99718)</td>
<td>24-Jul-2008</td>
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<td>Rogue River NF</td>
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<td>46</td>
<td>Jaynes Cyn, Siskiyou Mtns</td>
<td>Siskiyou</td>
<td>Condrey Mtn. (4112288)</td>
<td>CCH, Jan 2017 (SBBG27992)</td>
<td>1-Sep-1934</td>
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<td>47</td>
<td>ca 1/2 mi se Red Butte (slope e of road; ca. 7 mi nne of Seiad Valley, sw of Cook and Green Pass)</td>
<td>Siskiyou</td>
<td>Kangaroo Mtn. (4112382)</td>
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<td>Siskiyou Mountains, Jaynes Canyon</td>
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<td>49</td>
<td>Along Holiday Rd. (315), 5.2 mi. from junction with Gasquet Toll Road</td>
<td>Del Norte</td>
<td>Shelly Creek Ridge (4112387)</td>
<td>CCH, Jan 2017 (HSC96153)</td>
<td>28-Jun-2004</td>
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<td>Near High Plateau Creek, close to the town of Gasquet</td>
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<td>High Plateau Mtn. (4112388)</td>
<td>CCH, Jan 2017 (HSC54760)</td>
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<td>Summit Crescent City-Grants Pass Road</td>
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<td>Oregon Mt.</td>
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<td>Shelly Creek Ridge (4112387)</td>
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<td>Sanger Peak road 6.5 miles south of north entrance to Siskiyou National Forest</td>
<td>Del Norte</td>
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<td>Sanger Peak Road 6.5 miles south of north entrance to Siskiyou National Forest</td>
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<td>CCH, Jan 2017 (HSC50030)</td>
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<td>Patrick Creek-O'Brien Road near state line</td>
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### Eriogonum ternatum Howell

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### Distribution on National Forest System (NFS) Lands:

(Please see Reference column of Locations table above for references pertaining to Record Numbers indicated on NFS lands.)

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<th>Non-CNDDB Records</th>
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**Demographic and Population Trends:** Total number of occurrences for this taxon were estimated using GIS tools and methods described by Green and Sims (2018), and later refined based upon the provided location information. There is minimal documentation regarding demographic and population trends associated with *E. ternatum* and its occurrences within.
California. A majority of occurrences (49/56; ~88%) are substantiated by historic records that were collected over 20 years ago (CCH 2017).

**Life History:** *Eriogonum ternatum* is an herbaceous, prostrate perennial that blooms from June through August (CNPS 2018). Caterpillars of lycaenid species in the genus *Euphilotes* are known to feed on *Eriogonum* taxa (Shields and Reveal 1988). Certain members of *Euphilotes* are known to carry out their entire life cycle restricted to some *Eriogonum* species complexes (Reveal 2005). *Eriogonum fasciculatum*, a taxon within subgenus *Eucycla*, is visited by generalist species of bees, flies, wasps, and beetles (Montalvo and Beyers 2010). *Eriogonum* species offer a small amount of nectar at the base of flowers, which attracts bees, flies, ants, and other insects. Also, ants (*Formica altipetens*) have been observed tending aphids on *E. umbellatum* (Anderson 2006). The involucre of *Eriogonum* inflorescences may function to deter herbivory or prevent damage to flowers in harsh conditions (Kempton 2012).

Mixed responses to fire are seen among species of *Eriogonum*. The low growing and fleshy perennial herb *E. elatum* was observed to resprout shortly after a prescribed burn. In contrast, the low growing and woody *E. umbellatum* demonstrated no response the season following a Spring prescribed burn. Plants sprouted and resumed growth during the following Spring growing season (Rau et al. 2008).

Adaptations to extreme conditions and impoverished substrates may allow species of *Eriogonum* to persist at the exclusion of more aggressive and competitive species (Anderson 2006). *Eriogonum ovalifolium* has a comparable stature and growth form to that of *E. ternatum*. The prostrate and low growing canopy of *E. ovalifolium* creates a sheltered habitat for seedling recruitment on barren and exposed substrates. Prostrate canopies also capture and retain seeds (Day and Wright 1989).

**Diversity:** *Eriogonum* is a species-rich group with phylogeographic patterns indicative of a recent radiation, filling myriad niches in xeric habitats across western North America (Stevens 2001, Raven and Axelrod 1978, Sanchez and Kron 2008; Kempton 2012). The involucre of eriogonoid inflorescences, and other specialized characters may have facilitated the rapid spread of plants into habitats with harsh conditions throughout the distribution of this group (Kempton 2012). Members of *Eriogonum* occur as far north as Alaska and extend south to central Mexico. Group-wide, *Eriogonum* taxa exhibit substantial niche breadth (Kostikova et al. 2013), growing in regions along the immediate coast, desert, and alpine habitats. Many rare taxa are restricted to localized areas and exhibit considerable adaptations to xeric conditions (CNPS 2018, Kostikova et al. 2013).

The genus *Eriogonum* is not monophyletic. Sanchez and Kron (2008) reconstructed a phylogeny of Polygonaceae, emphasizing the evolution of Eriogonoideae using three regions of cpDNA (*rbcL, matK, and ndhF*) and a single low-copy nuclear gene (second intron of *LEAFY*). Their robust dataset yielded phylogenies confidently resolving *Eriogonum* as a core member of Eriogonoideae, with the genera *Chorizanthe, Dedeckera,* and *Johanneshowellia* nested within its respective clade. With a different set of genes (*ITS, trnL-F, psbD-trnT*), a follow up study increased sampling within the tribe Eriogoneae, providing further evidence of nomenclature that
is incongruent with evolutionary processes. Diagnostic characters appear to have evolved in parallel, and, as a result, has misled generations of descriptive taxonomists (Kempton 2012). Such work corroborates the notion that *Eriogonum* is undergoing a radiation and that rare taxa restricted in distribution may be the product of recent speciation activity (Stebbins and Major 1965, Raven and Axelrod 1978; Kempton 2012).

**Habitat:** Gravelly to sandy substrates and often on serpentine slopes and outcrops. Plants are typically associated with lower montane coniferous forests, chaparral (*Arctostaphylos* spp.), and oak woodlands (CalPhotos 2018; CNPS 2018; Reveal 2011).

**Habitat Status or Trend:** Plants typically occupy openings and exposed habitat within lower montane coniferous forests of the Coast Ranges and Klamath Mountains (CalPhotos 2018; CNPS 2018; Reveal 2005). Fire suppression is linked to significant changes in size and spatial characteristics of openings within forests of the Klamath Mountains of California within the last century (Skinner 1995).

**Capacity for the Species to Disperse:** Members of the genus *Eriogonum* are dispersed by wind, rain, streams, and animals. Seeds have considerable oil content, allowing them to float and migrate with sheeting water during storms. This high oil content is attractive to ants, which are known to disperse seeds of some *Eriogonum* species (Anderson 2006). *Eriogonum* flowers have dry calyces that increase the surface area of fruit, which is thought to aid in wind dispersal (Montalvo and Beyers 2010). Seeds are also known to fall beneath parent plants (Anderson 2006).

**Threats:** Direct and outstanding threats to this taxon are unknown.

**Literature Cited**


[CDFG] California Department of Fish and Game. 2013. 24K Quads, SDE Feature Class. Index for 1:24,000-scale (24K), 7.5-minute by 7.5-minute, paper U.S. Geological Survey maps in California.
Eriogonum ternatum Howell


[CDF] California Department of Forestry and Fire Protection. 2009. 1:24,000 County Boundaries (cnty24k09_1_poly) [shapefile]. California Department of Forestry and Fire Protection, California Department of Fish and Game. Berkeley Library Geodata. Available at: https://geodata.lib.berkeley.edu/catalog/ark28722-s73w23 [10 December 2017].


Eriogonum ternatum Howell

http://www.arcgis.com/home/item.html?id=c61ad8ab017d49e1a82f580ee1298931 [8 December 2017].


Eriogonum ternatum Howell


Persons Contacted:
*Eriogonum ternatum* Howell


**Author(s) and Date:**
Steven Serkanic, Assistant Rare Plant Botanist, California Native Plant Society, (916) 447-2677 x218, sserkanic@cnps.org;

Aaron E. Sims, Rare Plant Botanist, California Native Plant Society, (916) 324-3816, asims@cnps.org. June 26, 2018.

**Reviewer(s) and Date:**
David Magney, Rare Plant Program Manager, California Native Plant Society, (916) 447-2677 ext. 205, dmagney@cnps.org. June 26, 2018.

Julie Ann Kierstead, USDA Forest Service Region 5 Ecosystem Planning, 1 December 2021.

**Formatting:** Form is set up as 508 compliant. Please use the “styles” if further formatting is necessary.

**Purpose:** This is to maintain the best available science on a species that could be used by the Forest Service in a variety of functions. Specifically, there would be additional steps and evaluations to determine whether or not this species would be considered a Species of Conservation Concern under the 2012 Planning Rule or a Sensitive Species under the 1982 Planning Rule.

**Additional Considerations at the Forest Level:** Habitat amount and juxtaposition of both the species and habitat locations.