



Nevada Natural Heritage Program

Department of Conservation and Natural Resources

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Animal and Plant Watch List

March 2007

The Nevada Natural Heritage Program (NNHP) systematically collects information on Nevada's at risk, rare, endangered, and threatened biological features, providing the best single source of information on Nevada's imperiled biodiversity. A multi-disciplinary team of scientists and data management specialists assimilates information from diverse sources such as field surveys, museum collections, resource management agencies, published and unpublished reports, and knowledgeable individuals. This comprehensive inventory is maintained in a system of computer databases, topographic maps, and manual files, and is continually updated, refined, and subjected to quality controls.

Nevada's health and economic well being depend upon its biodiversity and wise land stewardship. This challenge increases as population and land-use pressures continue to grow. Nevada is among the top 10 states in the nation for both the diversity and the vulnerability of its living heritage. With early planning and responsible development, economic growth and our biological resources can exist side by side. NNHP is a central source for information critical to achieving this balance. Management priorities for the State's imperiled biodiversity are continually assessed, providing opportunities to prevent population losses or elevations to endangered or threatened legal status through conservation actions.

NNHP also identifies and ranks areas of the State which sustain critical concentrations of taxa essential to conserving Nevada's biodiversity. For the most recent information, you may request our publication, *Scorecard – 2006: Highest Priority Conservation Sites*.

The attached *Animal and Plant Watch List* outlines taxa that could be declining in Nevada or across much of their range and/or less common than currently thought and, as a result, could become at-risk in the future. This list also contains taxa that were recently removed from the *List of At-Risk Animals and Plants* (available upon request) because they proved more abundant or widespread, or less vulnerable than previously thought. Watch List taxa are not actively inventoried by NNHP, although conservation concern exists and data are passively accumulated.

Taxa on the watch list are organized by major groups, then presented alphabetically. Currently, there are 177 taxa listed, of which 83 are plants, 27 are invertebrates, 3 are fishes, 3 are amphibians, 7 are reptiles, 34 are birds, and 20 are mammals.

Documentation of population status, locality information, other updates or corrections for any of the taxa on this list are always welcome. Literature citations with taxonomic revisions and descriptions of new taxa are also appreciated. The attached *Nevada Native Species Site Survey Form* is the preferred format for submitting information to the Program.

The Nevada Natural Heritage Program frequently modifies the *Animal and Plant Watch List*; please request revised editions periodically or visit our website at <http://heritage.nv.gov>. Other lists can also be found on the website including the *List of At-Risk Animals and Plants*, *Nevada Losses List*, the *Nevada Accidental List*, and checklists of various groups of taxa that occur in the state.

Nevada Natural Heritage Program

Plant and Animal Watch List

March 2007

Scientific Name	Common Name	Usfws	Blm	Usfs	Grank	Strank	State	End	Eors
Plants									
Mosses									
<i>Orthotrichum shevockii</i>	Shevock bristleless		C		G1	S1			1
Pteridophytes									
<i>Botrychium lineare</i> **	slender moonwort	C		C	G1	SNR			
Gymnosperms									
<i>Ephedra funerea</i>	Death Valley Mormon tea				G2	S2			3
Dicots									
<i>Abronia nana</i> var. <i>covillei</i>	Coville abronia			I	G4T3	S1?			5
<i>Agastache cusickii</i>	Cusick hyssop				G3G4	S2			5
<i>Arabis dispar</i>	pinyon rockcress			W	G3	S1S2			4
<i>Arabis fernaldiana</i> var. <i>feraldiana</i>	Fernald rockcress				G3G4T3T4	S3?			
<i>Arabis fernaldiana</i> var. <i>stylosa</i>	stylose rockcress			W	G3G4T3	S3		P	
<i>Arabis shockleyi</i>	Shockley rockcress			C,I	G3	S3			39
<i>Artemisia packardiae</i>	Packard mugwort				G3	S2			4
<i>Artemisia papposa</i>	Owyhee sagebrush				G4	S2			4
<i>Astragalus callithrix</i>	Callaway milkvetch				G3	S3			7
<i>Astragalus convallarius</i> var. <i>finitimus</i>	Pine Valley milkvetch				G5T3	S3			3
<i>Astragalus jejunus</i> var. <i>jejunus</i>	starveling milkvetch				G3T3	S2?			3
<i>Astragalus lentiginosus</i> var. <i>scorpionis</i>	scorpion milkvetch			S	G5T3?	S3?			
<i>Astragalus mohavensis</i> var. <i>mohavensis</i> *	Mojave milkvetch				G3G4T3T4	S2S3			37
<i>Astragalus porrectus</i>	Lahontan milkvetch				G3?	S3?		Y	29
<i>Astragalus pterocarpus</i>	winged milkvetch				G3	S3		Y	16
<i>Astragalus serenoii</i> var. <i>sordescens</i>	squalid milkvetch				G4T2	S2		Y	13
<i>Camissonia nevadensis</i>	Nevada suncup				G3	S3		Y	7
<i>Castilleja applegatei</i> ssp. 1	Clokey paintbrush				G5T3Q	S3			51
<i>Cryptantha tumulosa</i>	New York Mountains catseye			S	G4?	S2			10
<i>Cymopterus nivalis</i> *	snow wavewing			S	G5	S3			4
<i>Cymopterus ripleyi</i> var. <i>ripleyi</i>	Ripley biscuitroot				G3G4T2?Q	S2?		Y	15
<i>Draba cusickii</i> var. <i>pedicellata</i>	stalked whitlowcress				G3?	S3?		Y	7
<i>Draba sphaeroides</i>	Elko whitlowcress				G2G3	S2S3		Y	11
<i>Dudleya pulverulenta</i> ssp. <i>arizonica</i>	chalk liveforever				G4G5T4T5	S3			12
<i>Ericameria watsonii</i>	Watson goldenbush				G3G4	S3			23
<i>Erigeron uncialis</i> ssp. <i>conjugans</i>	Charleston fleabane				G3G4T2T4	S3?		Y	9
<i>Erigeron uncialis</i> ssp. <i>uncialis</i>	limestone daisy			S,I	G3G4T2?	S2?			3
<i>Eriogonum contiguum</i>	Amargosa buckwheat				G2?	S1			5
<i>Eriogonum darrovii</i>	Darrow buckwheat				G2	S2			8
<i>Eriogonum lemmonii</i>	Lemmon buckwheat				G3?	S3?		Y	19
<i>Eriogonum mensicola</i>	Pinyon Mesa buckwheat				G3?T2T3	S1			
<i>Eriogonum ovalifolium</i> var. <i>caelestinum</i>	heavenly buckwheat				G5T2T3	S2S3			5
<i>Eriogonum rubricaulae</i>	Lahontan Basin buckwheat				G3	S3		Y	3
<i>Eustoma exaltatum</i>	catchfly gentian		N		G4G5	S1			2
<i>Ferocactus cylindraceus</i> var. <i>lecontei</i>	Mojave barrel cactus			S	G5T4?Q	S4	CY		
<i>Galium hilendiae</i> ssp. <i>carneum</i>	Panamint Mountains bedstraw				G4T2	S1			2
<i>Gilia heterostyla</i>	Cochrane gilia				G3G4	S3S4		Y	4
<i>Gilia nyensis</i>	Nye gilia				G3	S3		Y	33
<i>Gilia ripleyi</i>	Ripley gilia				G3	S3			45
<i>Hackelia brevicula</i>	Poison Canyon stickseed			W	G2	SNR			
<i>Hackelia cusickii</i>	Cusick stickseed				G5?	S1			2
<i>Hackelia ophiobia</i>	rattlesnake stickseed				G3	S2			3
<i>Hackelia sharsmithii</i>	Sharsmith stickseed			W	G3	S2			5
<i>Lepidium nanum</i>	dwarf peppergrass				G3	S3			2
<i>Lesquerella goodrichii</i>	Goodrich bladderpod				G2G3Q	S1?			1
<i>Lesquerella hitchcockii</i>	Hitchcock bladderpod				G3	S3		Y	44
<i>Linanthus arenicola</i>	dune linanthus				G3G4	S3			1
<i>Loeflingia squarrosa</i> ssp. <i>artemisiarum</i>	sagebrush pygmyleaf		C		G5T2T3	S1S2			4
<i>Lomatium foeniculaceum</i> ssp. <i>inyoense</i>	Inyo Mountain parsley			W	G5T3	S1			
<i>Lomatium graveolens</i> var. <i>alpinum</i>	Alpine stinking lomatium				G5?T3?	S2S3			1

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<i>Lupinus malacophyllus</i>	soft lupine				G3?	S3?		Y	1
<i>Machaeranthera grindelioides</i> var. <i>depressa</i>	rayless tansy aster				G5T3T4	S3			31
<i>Mentzelia candelariae</i>	Candelaria blazingstar				G3?Q	S3?		Y	19
<i>Mirabilis pudica</i>	bashful four-o'clock				G3	S3		Y	1
<i>Oxytheca watsonii</i>	Watson spinecup				G3?	S3?			10
<i>Parthenium ligulatum</i>	low feverfew		N		G3	S1			1
<i>Pedicularis semibarbata</i> var. <i>charlestonensis</i>	Charleston pinewood lousewort				G4T3Q	S3		Y	14
<i>Penstemon sudans</i>	Susanville beardtongue		C		G2G3	S1			2
<i>Perideridia lemmonii</i>	tuni				G4?	S3?			
<i>Perityle megalcephala</i> var. <i>intricata</i>	desert rockdaisy				G3	S3		P	84
<i>Phacelia anelsonii</i>	Aven Nelson phacelia				G2G3	S1S2			2
<i>Phacelia glaberrima</i>	Reese River phacelia				G3?	S3?		Y	23
<i>Phacelia hastata</i> var. <i>charlestonensis</i>	Spring Mountains phacelia				G5T3T4	S3S4		Y	
<i>Phacelia lutea</i> var. <i>calva</i>	yellow scorpionflower				G4T3	S1			1
<i>Phacelia petrosa</i>	rock phacelia		P		G3G4	S2			3
<i>Phlox gladiiformis</i>	daggerleaf phlox				G3?	S3?			
<i>Pilostyles thurberi</i>	Thurber pilostyles				G5	S1			
<i>Plagiobothrys salsus</i>	salt marsh allocarya				G2G3	S2S3			
<i>Polygala heterorhyncha</i>	notch-beak milkwort				G3	S3			4
<i>Primula cusickiana</i>	Wallowa primrose				G4T4	S1			1
<i>Scutellaria holmgreniorum</i>	Ravendale skullcap				G3Q	S3			21
<i>Sphaeromeria argentea</i>	chickensage				G3G4	S1?			2
<i>Tonestus eximius</i>	Tahoe goldenhead				G3	S2			
<i>Trifolium lemmonii</i>	Lemmon clover				G4?	S1			5
Monocots									
<i>Agave utahensis</i> var. <i>eborispina</i>	ivory-spined agave				G4T3Q	S3			16
<i>Agave utahensis</i> var. <i>nevadensis</i>	Clark Mountain agave				G4T3Q	S3			3
<i>Calochortus leichtlinii</i>	Leichtlin mariposa lily				G4	S3			
<i>Calochortus panamintensis</i>	Panamint mariposa lily				G3	S1			1
<i>Elodea nevadensis</i>	Nevada waterweed				GHQ	SH		P	1
<i>Stipa shoshoneana</i>	cliff needlegrass				G2G3	S1			1
Invertebrates									
<i>Agabus rumppi</i>	Death Valley agabus diving beetle				G1G3	SNA			
<i>Aphodius</i> sp. 1	Big Dune aphodius scarab		N		G1?Q	S1?		Y	
<i>Aphodius</i> sp. 2	Crescent Dunes aphodius scarab		N		G1?Q	S1?		Y	
<i>Aphodius</i> sp. 3	Sand Mountain aphodius scarab		N		G1?Q	S1?		Y	
<i>Candona tahoensis</i>	endemic Tahoe ostracod				GNR	SNR			
<i>Dendrocoelopsis hymanae</i>	Lake Tahoe planarian				GNR	SNR			
<i>Euphilotes ellisi basinensis</i>	Great Basin Ellis blue				G4G5T2T3	S1			
<i>Euphydryas editha tahoensis</i>	Tahoe checkerspot				G5T2T3	S1			
<i>Glaucopsyche lygdamus minipunctum</i>	small spotted silvery blue				G5T3T4	S1			
<i>Haliplus eremicus</i>	Warm Springs crawling water beetle				GNR	SNR			1
<i>Hesperia uncas reeseorum</i>	Reese River skipper				G5T1T2	S1			
<i>Ochlodes yuma lutea</i>	Great Basin yuma skipper				G5TNR	S2			
<i>Pacifastacus gambelii</i>	crayfish				G4G5	S2			
<i>Petrophila confusalis</i>	aquatic moth				GNR	S1?			1
<i>Phagocata tahoena</i>	Lake Tahoe planarian				G4?	S2S3			
<i>Phyciodes pulchella vallis</i>	valley crescent spot				G5T4	S2			
<i>Rhyacodrilus brevidentatus</i>	endemic Tahoe annelid				GNR	SNR			
<i>Satyrrium saepium obscurifuscum</i>	dark hedgerow hairstreak				G5T1T2	S1			
<i>Speyeria mormonia artonis</i>	Artonis silverspot				G5T3T4	S1			
<i>Spirosperma beetoni</i>	endemic Tahoe annelid				GNR	SNR			
<i>Stenelmis occidentalis</i>	nearctic riffle beetle				G4	S1S2			3
<i>Stygobromus laticolus</i>	Tahoe cave obligate amphipod				G2G3	SNR			
<i>Stygobromus tahoensis</i>	Tahoe cave obligate amphipod				G2G3	SNR			
<i>Thermacarus nevadensis</i>	Nevada water mite				GH	SH		Y	2
<i>Utacapnia tahoensis</i>	endemic Tahoe stonefly				G3	S3			
<i>Varichaeta nevadana</i>	endemic Tahoe annelid				GNR	SNR			1

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<i>Varichaetadrilus minutus</i>	endemic Tahoe annelid				GNR	SNR			
Fishes									
<i>Catostomus ardens</i>	Utah sucker				G5	SU			1
<i>Gila bicolor pectinifer</i>	Lahontan Lake tui chub			L	G4T3	S3			
<i>Prosopium williamsoni</i>	mountain whitefish				G5	S3	YES		
Amphibians									
<i>Bufo boreas boreas</i>	boreal toad				G4T4	S3S4			
<i>Bufo boreas halophilus</i>	California toad				G4T4	S2S3			2
<i>Rana pipiens</i>	northern leopard frog		N	I,L	G5	S2S3			4
Reptiles									
<i>Actinemys marmorata marmorata</i>	northwestern pond turtle			C	G3G4T3Q	S3			11
<i>Charina bottae</i>	rubber boa				G5	S3S4			2
<i>Diadophis punctatus</i>	ringneck snake				G5	S3			
<i>Dipsosaurus dorsalis</i>	desert iguana				G5	S3			
<i>Phrynosoma douglasii</i>	pigmy short-horned lizard		N		G5	SNR			
<i>Sauromalus ater</i>	common chuckwalla		N		G5	S3			
<i>Thamnophis couchii</i>	Sierra garter snake				G4	S3			
Birds									
<i>Aquila chrysaetos</i> *	Golden Eagle		N		G5	S4	YES		2
<i>Asio flammeus</i> *	Short-eared Owl		N		G5	S4	YES		
<i>Asio otus</i> *	Long-eared Owl		N		G5	S4	YES		
<i>Athene cunicularia hypugaea</i>	Western Burrowing Owl		N,C		G4T4	S3B	YES		1
<i>Baeolophus ridgwayi</i> *	Juniper Titmouse		N		G5	S5B	YES		
<i>Buteo swainsoni</i>	Swainson's Hawk		N	I	G5	S2B	YES		21
<i>Centrocercus urophasianus</i>	Greater Sage-grouse		N,C		G4	S3S4	YES		
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover		N		G4T3	S3B	YES		28
<i>Chlidonias niger</i>	Black Tern		N		G4	S2S3B	YES		2
<i>Contopus cooperi</i>	Olive-sided Flycatcher				G4	S2B	YES		
<i>Cygnus buccinator</i>	Trumpeter Swan			S	G4	S1B	YES		3
<i>Dolichonyx oryzivorus</i>	Bobolink		N		G5	S3B	YES		
<i>Falco mexicanus</i> *	Prairie Falcon		N		G5	S4	YES		
<i>Gavia immer</i>	Common Loon			S	G5	S2N	YES		1
<i>Grus canadensis tabida</i>	Greater Sandhill Crane		N		G5T4	S2B,S3M	YES		
<i>Gymnorhinus cyanocephalus</i>	Pinyon Jay		N		G5	S3S4	YES		
<i>Icteria virens</i> *	Yellow-breasted Chat		N		G5	S3B	YES		
<i>Lanius ludovicianus</i> *	Loggerhead Shrike		N		G4	S4	YES		
<i>Leucosticte atrata</i>	Black Rosy-finch		N		G4	S3	YES		
<i>Melanerpes lewis</i> *	Lewis's Woodpecker		N		G4	S3	YES		
<i>Numenius americanus</i>	Long-billed Curlew		N		G5	S2S3B	YES		1
<i>Oreortyx pictus</i> *	Mountain Quail		N	S	G5	S3	YES		9
<i>Otus flammeolus</i> *	Flammulated Owl		N	S	G4	S4B	YES		3
<i>Pelecanus erythrorhynchos</i>	American White Pelican		P		G3	S2B	YES		8
<i>Pelecanus occidentalis</i> *	Brown Pelican		S		G4	S1N	YES		1
<i>Picoides albolarvatus</i>	White-headed Woodpecker			S	G4	S2	YES		2
<i>Picoides dorsalis</i> *	Three-toed Woodpecker			S	G5	S2	YES		
<i>Plegadis chihi</i>	White-faced Ibis		P		G5	S3B	YES		5
<i>Poocetes gramineus</i> *	Vesper Sparrow		N		G5	S4B	YES		
<i>Sphyrapicus nuchalis</i> *	Red-naped Sapsucker		N		G5	S4S5B	YES		
<i>Toxostoma crissale</i> *	Crissal Thrasher		N		G5	S3	YES		
<i>Vermivora luciae</i> *	Lucy's Warbler		N		G5	S2S3B	YES		
<i>Vireo bellii arizonae</i>	Arizona Bell's Vireo		P		G5T4	S2B	YES		
<i>Vireo vicinior</i> *	Gray Vireo		N,C		G4	S3B	YES		
Mammals									
<i>Antrozous pallidus</i>	pallid bat		N,C	I	G5	S3	YES		38
<i>Brachylagus idahoensis</i>	pygmy rabbit		N		G4	S3	YES		112
<i>Chaetodipus spinatus</i>	spiny pocket mouse				G5	S3			1
<i>Dipodomys deserti</i>	desert kangaroo rat				G5	S2S3			
<i>Glaucomys sabrinus</i>	northern flying squirrel				G5	S3	YES		2

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<i>Gulo gulo</i>	North American wolverine			S,I,L	G4	SH			
<i>Lasionycteris noctivagans</i>	silver-haired bat		N		G5	S3			25
<i>Lasiurus cinereus</i>	hoary bat		N		G5	S3			14
<i>Lemmiscus curtatus</i>	sagebrush vole				G5	S3			
<i>Lepus americanus tahoensis</i>	Sierra Nevada snowshoe hare				G5T3T4Q	S3	YES		2
<i>Myotis ciliolabrum</i>	western small-footed myotis		N,C		G5	S3			75
<i>Myotis lucifugus</i>	little brown myotis		N		G5	S3			9
<i>Neotamias senex</i>	Allen's chipmunk				G5	S2S3			
<i>Notiosorex crawfordi</i>	Crawford's desert shrew				G5	S3			2
<i>Sorex merriami</i>	Merriam's shrew				G5	S3			
<i>Sorex trowbridgii</i>	Trowbridge's shrew				G5	S2			2
<i>Tadarida brasiliensis</i>	Brazilian free-tailed bat		N		G5	S3S4	YES		23
<i>Thomomys monticola</i>	mountain pocket gopher				G5	S3			3
<i>Vulpes macrotis</i>	kit fox				G4	S3	YES		
<i>Vulpes vulpes necator</i>	Sierra Nevada red fox			I,L	G5T3	S3	YES		

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Key to Symbols used by Nevada Natural Heritage Program

U. S. Fish and Wildlife Service (Usfws) Categories for Listing under the Endangered Species Act:

LE	Listed Endangered - in danger of extinction in all or a significant portion of its range
LT	Listed Threatened - likely to be classified as Endangered in the foreseeable future if present trends continue
LENL/LTNL	Listed Endangered or Threatened in portions of its range, not listed in other portions of its range
PE	Proposed Endangered
PT	Proposed Threatened
C	Candidate
RI	Former Category 1 Candidate/proposed species, now species of concern for which there is insufficient evidence of vulnerability and threats
< _	Other former status as indicated, now species of concern
< CI	Former Category 1 Candidate, now species of concern
< C2	Former Category 2 Candidate, now species of concern
_SA	Similarity of appearance species

Bureau of Land Management (Blm) Species Classification:

S	Nevada Special Status Species - USFWS listed, proposed or candidate for listing, or protected by Nevada state law
N	Nevada Special Status Species - designated Sensitive by State Office
P	Proposed Nevada Special Status Species – designated proposed Sensitive by State Office
C	California Special Status Species (see definition S and N)

United States Forest Service (Usfs) Species Classification:

S	Region 4 (Humboldt-Toiyabe NF) sensitive species
I	Region 5 (Inyo NF) sensitive species
W	Region 5 (Inyo NF) watch species
L	Region 5 (Lake Tahoe Basin Management Unit) sensitive species
C	Region 5 sensitive species, not yet known from Inyo NF or Lake Tahoe Basin Management Unit
E	Region 4 and/or Region 5 Endangered species
T	Region 4 and/or Region 5 Threatened species

Nevada Natural Heritage Program Global (Grank) and State (Srank) Ranks for Threats and/or Vulnerability:

G	Global rank indicator, based on worldwide distribution at the species level
T	Global trinomial rank indicator, based on worldwide distribution at the infraspecific level
S	State rank indicator, based on distribution within Nevada at the lowest taxonomic level
1	Critically imperiled and especially vulnerable to extinction or extirpation due to extreme rarity, imminent threats, or other factors
2	Imperiled due to rarity or other demonstrable factors
3	Vulnerable to decline because rare and local throughout its range, or with very restricted range
4	Long-term concern, though now apparently secure; usually rare in parts of its range, especially at its periphery
5	Demonstrably secure, widespread, and abundant
_H	Historical; could be rediscovered
_P	Potential within Nevada
_Q	Taxonomic status uncertain
_NR	Taxon is not yet ranked
_NA	Rank is not applicable; Taxa is not a suitable target for conservation (usually due to accidental or exotic status)
_U	Unrankable
_X	Presumed extirpated or extinct
?	Assigned rank uncertain

For populations of migratory species, additional qualifiers added to rank include:

B_	Breeding status within Nevada
M_	Transient or migratory population
N_	Non-breeding status within Nevada

Nevada State Protected (State) Species Classification:

Fauna:

YES Species protected under NRS 501.

Flora:

CE Critically endangered - species whose survival requires assistance because of overexploitation, disease or other factors or because their habitat is threatened with destruction, drastic modification or severe curtailment (NRS 527.260-.300)

CE# Recommended for listing as critically endangered

CY Protected as a cactus, yucca, or Christmas tree (NRS 527.060-.120)

Endemic (End) Status:

Y Found only in Nevada

P Probable endemic of Nevada

Eors: The number of occurrences currently in the database.

NEVADA NATIVE SPECIES SITE SURVEY REPORT

rev. WXP-2005-09

SEND TO: NEVADA NATURAL HERITAGE PROGRAM, 901 South Stewart Street, suite 5002, Carson City, NV 89701-5245 (775) 684-2900

PLEASE ENTER ALL INFORMATION AVAILABLE TO YOU. USE THE BACK FOR COMMENTS IF NECESSARY. PLEASE INCLUDE GPS DATA, AND/OR ATTACH PRECISE MAP.

Data Sensitive?

OFFICE USE ONLY

Reference Code/ID: _____	Source ID: _____
Element Code/ID: _____	EO ID or # _____
Copies Sent to: _____	

Scientific name (no codes): _____
 Surveyor/Reporter (incl. e-mail if any): _____ Phone: (____) _____

Address: _____

Date of Survey: _____ day _____ month _____ year County: _____ Collection # _____ Museum/Herb.: _____

GPS (if used)	DATUM (NAD27 preferred, or NAD83, WGS84, other): _____	Projection/units (UTM Zone-11/meters preferred, decimal-degrees, dms, or other; specify any non-standard parameters): _____
	Differential correction applied (yes/no/unknown)?: _____	Equipment used: _____

LOCATION DESCRIPTION (please include or attach GPS coordinates and/or a precise map, showing species boundaries/points and routes/areas searched):

Map and/or GPS data estimated to depict true locations to within \pm _____ m/ft on the ground, and/or \pm _____ mm/in on paper map.

Map Name: _____ Field # _____ T _____ R _____ ¼ of _____ ¼ Sect. _____
 scale=1: _____ Elevation: _____ to _____ \pm _____ m/ft T _____ R _____ ¼ of _____ ¼ Sect. _____

Observed Area or Length Occupied: _____ Land Manager: _____

Extent of occurrence completely surveyed (Yes/No/Unknown)?: _____	if No, about: _____	% of potential habitat was surveyed at this occurrence: _____	The species occupied about: _____	% of area/length depicted by map or GPS data: _____
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Is this a new location record (Yes/No/Unknown)?: _____ a subsequent visit?: _____ Compared to last visit: ___ more ___ same ___ fewer

of individuals / stems: _____ census methods (if zero, reason): _____

of colonies / genets: _____ if different, explain: _____

Does this population occur naturally at this site (Yes/No/Partially/Unknown)?: _____ Is this population re-introduced (Yes/No/Partially/Unknown)?: _____

Phenologic Stages (plants): _____ % dormant _____ % vegetative _____ % budding _____ % flowering _____ % fruiting _____ % seeding

Age Structure (all): _____ % senescent _____ % adult/mature _____ % juvenile _____ % first-year _____ % newborn/seedling

Site Functions/Uses (animals): ___ breeding ___ foraging ___ wintering ___ roosting ___ denning ___ migrating _____ other

INTERACTIONS (disease, predation, competition, parasitism, symbiosis, pollination, hybridization, dispersal, etc.):

HABITAT DESCRIPTION (dominant species, associates, other rare species, moisture, substrate/soils, aspect/slope, light, air/water temperature, time, weather, etc.):

CURRENT SITE USE / Visible Disturbances and Impacts / Possible Threats:

Overall Occurrence Quality: _____ Excellent _____ Good _____ Fair _____ Poor (consider size, viability, condition, and landscape context)

COMMENTS ON QUALITY:

SHOULD/COULD THIS SITE BE PROTECTED? How?:

OTHER COMMENTS:

IDENTIFICATION OF TAXON (Fill in all applicable blanks): ID is about _____ % certain.

Keyed in reference: _____
 Compared w/photo/drawing in: _____
 Compared with specimen at: _____
 By another person (include below; name): _____
 By personal knowledge (yes/no): _____
 Other: _____

PHOTOGRAPHS (check all applicable):

Subject: _____	Type: _____
___ Diagnostic feature	___ Digital
___ Whole organism(s)	___ Slide
___ Habitat or site	___ Print
Attached (Yes/No)? _____	Other _____
May we obtain copies at our cost? _____	

OTHER KNOWLEDGEABLE PEOPLE (Name / Address / Phone / E-mail):