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**A DESCRIPTION OF THE
GRASSLAND COMMUNITIES
OF THE
WILDCAT HILLS REGION OF
NORTHWESTERN NEBRASKA
INCLUDING
SCOTTS BLUFF NATIONAL
MONUMENT**

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AND

**RARE PLANT SURVEY
OF THE
WILDCAT HILLS REGION OF
NORTHWESTERN NEBRASKA**

by
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**A Final Report to: Nebraska Game and Parks Commission
and
Midwest Regional Office of the National Park Service
Cooperative Agreement # 1443CA600095017**

VOLUME II



Executive Summary

Objectives:

This study resulted from a Cooperative Agreement between Nebraska Game and Parks Commission and the National Park Service (NPS), with funding provided by the Natural Resource Preservation Program of the NPS. Scotts Bluff National Monument was seeking to characterize the native grassland communities of the Wildcat Hills region in order to develop species composition models for prairie restoration of disturbed lands at the monument. Nebraska Game and Parks Commission needed similar information to refine community classification for the Wildcat Hills region, and to update rare plant species inventories. This report includes a description of the grassland communities and a rare plant survey of the Wildcat Hills region.

Volume I. A Description of the Grassland Communities of the Wildcat Hills Region of Northwestern Nebraska Including Scotts Bluff National Monument

Appendix A.	Topographic maps of Study Sites
Appendix B.	List of Vascular Plants Species by Community Type
Appendix C.	Mean Cover: Alphabetical Listing of Species by Soil Type
Appendix D.	Floristic Summaries - Community/Soil Type

Volume II. Rare Plant Survey of the Wildcat Hills Region of Northwestern Nebraska

Appendix E.	Preliminary List of Vascular Plants, Wildcat Ridge
Appendix F.	Nebraska Heritage Rare Plant Survey Forms

Volume III. Raw Data Sheets

Appendix G.	Chimney Rock Plots
Appendix H.	Buffalo Creek Plots
Appendix I.	Carter Canyon Plots
Appendix J.	Cedar Canyon Plots
Appendix K.	Myron's Ranch Plots
Appendix L.	Rattlesnake Bob's Ranch Plots
Appendix M.	Scotts Bluff National Monument Plots
Appendix N.	Forest/Woodland Plots
Appendix O.	Plant Species by Soil Type - Spreadsheet
Appendix P.	Plant Species over all Soil Types - Spreadsheet

Volume I.

Vegetation sampling was performed in the Wildcat Hills region of northwestern Nebraska in 1995 and 1996. Species composition and abundance levels of native grassland communities were determined, and community classifications of the region refined. Scotts Bluff National Monument was included in the study area. Pristine regions of the Wildcat Hills were identified and sampled. A pristine condition was defined for an area if: 1) exotic species levels were low to non-existent, 2) anthropogenic impact was minimal or non-existent, 3) past or present overgrazing was not evident, and 4) native species were well-represented. Continuums consisting of 50 meter lines were established with circular plots of ten square meters sampled at ten meter intervals. Soil type was identified for each continuum. Species present, abundance levels, species richness, percentages of unvegetated ground, and landscape features were resolved for each region and soil type sampled. Prairie restoration at Scotts Bluff National Monument has incorporated the result of this study into their efforts.

Volume II.

Between May and August of 1996, scattered regions of the Wildcat Hills were examined for federally and state monitored plant species. A variety of plant communities were examined. These included: *Stipa comuta*/*Carex filifolia* dominated prairie, sandstone and siltstone outcrops, *Artemisia filifolia* prairie, *Pinus ponderosa* woodlands and forests, *Pinus ponderosa*/*Cercocarpus montanus* woodlands, limestone outcrops, and riparian communities deep in forest draws and broad sandstone canyons. Fifteen days of field work at eleven tracts revealed 45 occurrences of 15 state monitored plant species. No federally monitored species were identified. Several state monitored species not previously known to occur in the Wildcat Hills region were located. These included: *Heracleum sphondylium*, *Apocynum androsaemifolium*, and *Delphinium nuttallianum*.

Volume III.

Raw data sheets of sampled regions in the Wildcat Hills and Scotts Bluff National Monument display information for each continuum. In addition to species and their abundance levels, topographic features, e.g. slope, aspect, slope position, elevation, soil descriptions, are identified. Directions to each plot, and a legal description are recorded. Notes include animal use, and natural or anthropogenic disturbances. Spreadsheets of all plots over all soil types complete the report.

VOLUME II.

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WILDCAT HILLS RARE PLANT SURVEY FINAL REPORT

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Fifteen days of field work in eleven sites scattered across the Wildcat Ridge were completed between May and August of 1996 and 45 occurrences of 15 plant species on the Nebraska Natural Heritage element list were found. Ten tracts of high quality (or otherwise noteworthy) native communities were identified.

SITE DESCRIPTIONS

Courthouse Rock (Morrill Co.) - Forms the east end of the Wildcat Ridge. The area is relatively small and includes Courthouse and Jail Rocks and some surrounding prairie and outcrops. The site contains extensive sandstone and siltstone outcroppings, *Carex/Stipa* mixed-grass prairie, and sand sage prairie. Although the area has not been grazed in a number of years, the communities are relatively weedy, and not particularly rich. Rydberg reportedly collected *Tripterocalyx micranthus* here in 1891, but I could not find it. No element occurrences.

Chimney Rock (Morrill Co.) - Is an 80 acre tract which includes Chimney Rock and surrounding communities which, to my knowledge, have not been botanized before. Good siltstone outcrops are represented on the north face of Chimney Rock and the outcrop to the southwest, which has a large population of *Stephanomeria runcinata*. High-quality *Carex/Stipa* prairie is found on the north side of Chimney Rock. Sand sage prairie is found between Chimney Rock and the outcrop to the south, and although it has not been grazed for some time, it is exceedingly weedy. *Chrysothamnus parryi* subsp. *howardii* (2 occ.), *Ipomopsis spicata* (2 occ.), and *Stephanomeria runcinata* (2 occ.) were found around the outcrops. Three community forms were filled out (two siltstone outcrops and the *Carex/Stipa* prairie).

Horn (Banner Co.) - A large, fairly rugged area of prairie and rocky outcrops with scattered pine trees. The site has not been grazed in two years and some high-quality prairie is present on ridgetops. One fairly interesting siltstone outcrop is present in the northeast part, otherwise most of the outcrops are of sandstone and/or relatively species poor. The canyon bottoms are fairly weedy, and much of the site consists of abandoned dryland cropfields. *Chrysothamnus parryi* ssp. *howardii* (2 occ.), *Ipomopsis spicata*, and *Stephanomeria runcinata* were found at the NE outcrop, but the site as a whole is not very botanically rich.

Brown (Banner Co.) - Is another large privately-owned tract along the west boundary of the Horn property. It is currently grazed, but fairly similar to the Horn tract, and was not surveyed beyond the initial visit. *Ipomopsis spicata* was observed on sandstone outcrops at Hubbard Gap, but an E.O. form was not filled out.

Smokestack Rock (Banner Co.) - Is located west of the Horn tract and has some interesting open pine-wooded canyons on the east end with lots of mountain mahogany. The west end has some deep pine-wooded canyons which are heavily grazed, but which still have a few well-preserved pine slopes tucked away here and there. The prairie interfluvies are grazed and not particularly interesting. *Ipomopsis spicata* was found on a sandstone exposure on one interfluvium. One community form filled out (*Cercocarpus* shrubland).

5 Bumps (Scotts Bluff Co.) - Is north of the Smokestack Rock tract and contains Castle, Table, Steamboat, Coyote, and the east part of Roundtop Rocks and environs. Extensive siltstone exposures and washes are found around all the rocks, and contain large populations of *Chrysothamnus parryi* subsp. *howardii* (5 occ.), *Lomatium nuttallii* (4 occ., all but Steamboat Rock), and *Stephanomeria runcinata* (1 occ., Castle Rock only - where it is abundant). *Ipomopsis spicata* is scattered on the lower slopes of Castle Rock. The largest and richest exposures are on the north sides of Castle and Table Rocks. Much of the surrounding prairie is fairly well-preserved, and a huge, rolling sand sage prairie remnant covering nearly an entire section is found on the north side and adjacent properties. Although it is somewhat weedy, it is probably the best sand sage seen in the Wildcats, and a population of *Chenopodium subglabrum* was found in a blowout north of Castle Rock. An unusual *Stipa comata* dominant prairie hillside was noted on the south side of Castle Rock. Four community forms filled out (2 siltstone outcrops, sand sage prairie, *Stipa* prairie).

Buffalo Creek (Scotts Bluff & Banner Co.'s) - An extensive and diverse area of pine woods, prairie, and rocky outcrops. An interesting siltstone area in the north part of the site containing *Lomatium nuttallii* and *Fritillaria atropurpurea* was recorded in 1995. Another siltstone outcrop to the south is covered with what appears to be *Lesquerella arenosa* var. *argillosa*. *Chrysothamnus parryi* subsp. *howardii* was found atop very irregular sandstone outcrops with scattered pine and mountain mahogany north of the fishing pond. Fairly interesting pine-wooded draws in the west and southeast parts were also surveyed. *Delphinium nuttallianum* (2 occ.) was found in both, and *Carex rossii* was found in the southeast draw, but is likely more common. Much of the prairie at the site is fairly disturbed, particularly in the valley bottoms, which are quite sandy and very weedy. More survey work is needed at this site.

Myron's (Scotts Bluff Co.) - This tract is located west of Buffalo Creek and consists mostly of ridgetop prairie with some sandstone outcrops, and a few grazed pine-wooded draws. The area was not surveyed beyond the initial visit. No element occurrences.

Wildcat SRA (Scotts Bluff Co.) - A small but very interesting area located south of Gering on Highway 71. The area has not been grazed in many years and a number of species are found that were not seen at other sites. The most interesting areas are a pair of deep, rich pine-wooded draws which merge just south of the north boundary, which are home to *Corallorhiza maculata* (2 occ.) and *Pterospora andromedea*. A population of *Plantanthera hyperborea* is found in more open areas in the draw near where the two forks converge (and is also present just north of the property boundary). *Carex rossii* is common in the upper end of the west canyon. The ridgetops are covered with much well-preserved prairie (though much Kentucky bluegrass is present) and extensive stands of mountain mahogany. One small sandstone outcrop at the north end of the interfluvium east of the pine draws contains *Leptodactylon caespitosum* and *Chrysothamnus parryi* subsp. *howardii*. Two community forms filled out (pine woods and sandstone outcrop).

Carter Canyon (Scotts Bluff Co.) - A very extensive pine-wooded canyon with several deep, rich draws on the south side. The west end of the canyon is fairly heavily-grazed, at least in the summer. East of the Cox property at the west end are two very deep, winding pine draws (Hampton/Enlow property) with many interesting species. *Delphinium nuttallianum* is abundant in these draws and probably through most of the canyon. *Carex rossii* (2 occ.) is relatively common in the upper ends of both draws and *Poa interior* was seen in a few places in the west draw. The bottom of this draw is fairly wide and well-preserved, and has several species not previously recorded from the Wildcats, such as *Heracleum sphondylium* and *Apocynum androsaemifolium*. The fern, *Cheilanthes feei*, is locally common on a few outcrops and boulders of limestone aggregate material in this bottom. The east draw is narrower and has a population of *Plantanthera hyperborea* along a small stream through a very narrow part of the canyon above a small waterfall. *Pterospora andromedea* is locally common on the slopes above. Neither of these draws were grazed during the survey period. The draws farther east are wider, more open, and more heavily grazed. The main canyon, bottom is also fairly heavily grazed, but contains a large population (including many large trees) of *Populus acuminata*, which Rydberg described from this site in 1891.

Kiowa Creek (Scotts Bluff Co.) - This site, just west of Carter Canyon, is near the west end of the Wildcat Ridge. It consists of low, rolling hills covered with *Carex/Stipa* prairie of variable quality and young pine woodland with little understory. The creek itself appears relatively undisturbed and unpolluted (at least early in the season, and flows through a broad canyon with fairly rocky, irregular sandstone outcroppings along its sides. *Eriogonum effusum* was found in ridgetop prairie on the west side of the site, and a few other species that are uncommon in the Wildcats are scattered on the outcrops. All in all, the area is not exceedingly rich. No element occurrences (although a small population of *Populus acuminata* is present along the creek just north of the property boundary).

ELEMENT OCCURRENCES

Table 1 details the state-monitored species identified during 1995 and 1996 surveys of the Wildcat Hills Region, Scotts Bluff National Monument inclusive. In addition to the species and its location, a brief description of its habitat, state range, and North American range is provided. For detailed plant descriptions, refer to Flora of the Great Plains (Great Plains Flora Association 1986). No federally-listed species were identified during the surveys.

Table 1. State-monitored plant species identified during 1995 and 1996 surveys of the Wildcat Hills region.

SPECIES	RANK		LOCATION		HABITAT / COMMUNITY DESCRIPTION	STATE RANGE	NORTH AMERICAN RANGE
	State	Global	SB	WH			
<i>Populus acuminata</i> Rydb.	S2	HYB		X	Along streams in broad canyon bottoms	Kiowa Creek Canyon and Carter Canyon in WC	w ND, MT & Alta., s to w NE, TX, sw NM, ne AZ, & se UT
<i>Pterospora andromedea</i> Nutt.	S2	G5		X	Steep pine-wooded slopes among pine needles	PR; WC, Niobrara	P.E.I. to NY to B.C., s to GP, Mex.
<i>Stephanomeria rimicola</i> Nutt.	S?	G5	X	X	Steep slopes & narrow ridges of N-facing silstone outcrops	SB, Morril & Banner Crys.	n GP, w in montane valleys of MT & WY

Abbreviations: n-north s-south e-east w-west Cty.-county nw-northwest sw-southwest ne-northeast Mo.-monument NG-National Grassland WC-Wildcat Hills PR-Pine Ridge SB-Scotts Bluff AZ-Arizona CO-Colorado ND-North Dakota WY-Wyoming MI-Michigan MN-Minnesota GA-Georgia NC-North Carolina AK-Alaska WA-Washington CA-California VT-Vermont NY-New York NE-Nebraska NM-New Mexico PA-Pennsylvania NV-Nevada SD-South Dakota TX-Texas UT-Utah Que.-Quebec Newf.-Newfoundland Alta.-Alberta P.I.E.-Prince Edward Island Grenl.-Greenland Man.-Manitoba B.C.-British Columbia Mex.-Mexico

**KEY TO THE CODES
FOR
NATURAL HERITAGE DATABASE
RANKING**

<u>Global Rank</u>	<u>State Rank</u>	<u>Definition (applied range-wide for global rank or state-wide for state rank)</u>
G1	S1	Critically imperiled because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
G2	S2	Imperiled because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
G3	S3	Either very rare and local throughout its range, or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21 - 100 occurrences.
G4	S4	Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
G5	S5	Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
G2G4 G2G3		Status unknown, but probably identifiable somewhere <u>between</u> these ranks.
T*		Refers to the ranking of the subspecies form; first rank, e.g. G5, refers to global rank for species and second, e.g. T5, refers to global ranking for that particular subspecies
HYB		Not globally ranked due to its existence as a hybridization between two other species

UNIQUE BOTANICAL RESOURCES OF SBNM

Most of the species found at Scotts Bluff National Monument that are not currently known elsewhere in the Wildcat Hills are western plants restricted to rock outcrops and badlands habitats which are much less extensive southward (in the main range of the Wildcats, these species are most common on the north side of the escarpment). Species restricted to rock outcrops and badlands at the monument include: *Artemisia cana*, *Eriogonum cernuum*, *Lappula cenchrusoides*, *Mentzelia albicaulis*, *Paronychia sessiliflora*, *Phacelia hastata*, *Physaria brassicoides*. Many other species are found in seep habitats, particularly the alkaline seep areas below the Gering canal. These include: *Atriplex subspicata*, *Carex hallii*, *Cicuta maculata*, *Elymus macounii*, *Vimbristylis puberula*, *Ranunculus macounii*, *Sisyrinchium montanum*, *Thelypodium integrifolium*, and *Triglochin maritimum*. Other native non-riparian species found only at the Monument, so far, include: *Astragalus pectinatus*, *Echinocystis lobata*, *Orobanche ludoviciana*, *Rumex triangulivalvis*, and *Woodsi oregana*.

Table 2. State-monitored plant species identified on Scotts Bluff National Monument during the 1995 survey. Refer to Map 1.									
SPECIES	T	R	SEC.	QTR.	ELEV.	DATE	GENERAL HABITAT DESCRIPTION	POPULATION COMMENTS	COMMENTS
	Township	Range	Section	Quarter	Elevation	Observed			
<i>Astragalus pectinatus</i>	22N	55W	27	NESE	1200 m	7/20/95	Developed prairie soils; often near siltstone outcrops	Scattered & uncommon	Few plants (1 - 5) fd. in one locale; also along bike trail
<i>Chrysothamnus parryi</i> ssp. <i>howardii</i>	22N	55W	33	SWSW	1280 m	7/16/95	Rock outcrops - on siltstone but often on sandstone	Common on SB & other outcrops; slopes various, but usually steeper	Various aspects
<i>Fritillaria atropurpurea</i>	22N	55W	33	SWSW	1250 m	6/15/95	Shallow-soil prairie w/ siltstone washes	3 populations; s of hwy. to Crown Rock & n of SB Mo.; near Oregon Trail w of rd. to visitor's center	Populations viable during 1995; sizes from 1 - 20 plants; nearly level to level shallow washes retaining moisture
<i>Lappula tenchrisoides</i>	22N	55W	27	NWSE	1210 m	7/20/95	Uncommon on margins of prairie islands between badlands N of SB	Only one specimen fd. & quite dry; but fruit (need to ID) present	Specimen @ U of Lincoln for further study; more searching needs to be done for this species
<i>Leptodactylon caespitosum</i>	22N	55W	33	SWSW	1390 m	7/16/95	On rock outcrops at SB	Often 1 - 5 plants fd at site; viability appears good	Common on rock outcrops on the monument; often with <i>Astragalus spatulatus</i> ; aspects various
<i>Lomatium nuttallii</i>	22N	55W	33	SWSW	1250 m	6/13/95	Siltstone outcrops	Plants are scattered along outcrops; vegetation sparse to barren	Common but local in distribution
<i>Paronychia sessiliflora</i>	21N	55W	4	SWNE	1400 m	7/26/95	Sandstone outcrops atop South Bluff	Scattered but common	Mounds may become quite large - up to 1/4 m square
<i>Phacelia hastata</i> var. <i>leucophylla</i>	21N	55W	4	SWNW	1260 m	7/18/95	Siltstone outcrops	On gently rolling siltstone outcrops with little or no soil development	Aspects are various; plants are scattered and inconspicuous
<i>Physaria brassicoides</i>	21N	55W	4	SWNW	1300 m	7/11/96	Badlands at base of n side of the s Bluff between Crown and Sentinel Rocks	Common on siltstone badlands	Plants are scattered but appear viable; aspects various
<i>Stephanomeria runcinata</i>	22N	55W	33	SWSW	1250 m	7/18/95	Steep slopes & narrow ridges of N-facing siltstone outcrops	Widely scattered but throughout	Aspect northerly; very sparsely vegetated

SB Monitored Plants

The vast majority of species found in the Wildcat Hills that are not also at the Monument are species of well-developed pine woodlands and moist canyon bottoms, habitats not present at the Monument. These include: *Agrimonia striata*, *Amelanchier alnifolia*, *Anemone cylindrica*, *Antennaria howellii* *neodioica*, *Apocynum androsaemifolium*, *Arabis hirsuta*, *Campanula rotundifolia*, *Carex aurea*, *C. heliophila*, *C. pellita*, *C. rossii*, *C. saximontana*, *C. sprengellii*, *Catabrosa aquatica*, *Cheilanthes feei*, *Corallorhiza maculata*, *Cornus sericea*, *Cystopteris fragilis*, *Delphinium nuttallianum*, *Elymus villosus*, *Equisetum hyemale*, *Galium boreale*, *G. triflorum*, *Geum aleppicum*, *G. canadense*, *Lactuca ludoviciana*, *Monarda fistulosa*, *Osmorhiza longistylis*, *Platanthera hyperborea*, *Poa interior*, *P. juncifolia*, *Populus acuminata*, *Sanicula canadensis*, *Scirpus pallidus*, *Thalictrum dasycarpum*, *Veronica americana*, *Viola canadensis*, and *V. missouriensis*. Many of the remaining are from sand dune prairie (*Amaranthus arenicola*, *Asclepias arenaria*, *Chenopodium subglabrum*, *Corispermum nitidum*, *Redfieldia flexuosa*) and rocky places (*Astragalus sericoleucus*, *Calylophus lavandulifolius*, *Eriogonum brevicaule*, *Ipomopsis spicata*, *Lesquerella arenosa argillosa*). Other species include: *Cucurbita foetidissima*, *Draba reptans*, *Eriogonum effusum*, *Microsteris gracilis*, *Polygala alba*, and *Spartina gracilis*.

Table 2 details information concerning state monitored species located at Scotts Bluff National Monument in the 1995 survey. All plants occurred on the Scotts Bluff National Monument survey site in Scotts Bluff county, state of Nebraska. Additionally, all were identified on the Scotts Bluff US Geological Survey 7.5 quadrangle.

Table 3 details information for the collected specimen of each species listed in Table 1. This includes: name, location found, collection number (if assigned), and location of the specimens. *Mentzelia albicaulis* and *Eriogonum cernuum* are not included due to the inability to locate historical populations.

Table 3. Location of state monitored specimens identified during the 1995 and 1996 surveys of the Wildcat Hills region. SB - identified at Scotts Bluff National Monument only WC - identified in Wildcat Hills only B - identified at Scotts Bluff National Monument & Wildcat Hills

<u>Species</u>	<u>Location Found</u>	<u>Collection #</u>	<u>Specimen Location</u>
<i>Astragalus pectinatus</i>	SB	11836	U. of NE - Lincoln SB Herbarium Smithsonian
<i>Carex rostrata</i>	WC	unassigned	U. of NE - Lincoln
<i>Cheilanthes feei</i>	WC	unassigned	U. of NE - Lincoln
<i>Chenopodium subglabrum</i>	WC	unassigned	U. of NE - Lincoln
<i>Chrysothamnus parryi</i> ssp. <i>howardii</i>	B	12637 (WC)	U. of NE - Lincoln SB Herbarium
<i>Corallorhiza maculata</i>	WC	unassigned	U. of NE - Lincoln
<i>Delphinium nuttallianum</i>	WC	unassigned	U. of NE - Lincoln
<i>Fritillaria atropurpurea</i>	B	2019 (WC)	SB Herbarium
<i>Lappula cenchroides</i>	SB	unassigned	U. of NE - Lincoln for further study
<i>Leptodactylon caespitosum</i>	B	11646 (SB)	U. of NE - Lincoln SB Herbarium Smithsonian
<i>Lesquerella arenosa</i> var. <i>argillosa</i>	WC	unassigned	U. of NE - Lincoln
<i>Lomatium nuttallii</i>	B	11650 (WC)	U. of NE - Lincoln SB Herbarium
<i>Paronychia sessiliflora</i>	SB	11877	U. of NE - Lincoln SB Herbarium

Table 3. (continued) Location of state monitored specimens identified during the 1995 and 1996 surveys of the Wildcat Hills region. SB - identified at Scotts Bluff National Monument only WC - identified in Wildcat Hills only B - identified at Scotts Bluff National Monument & Wildcat Hills

<i>Phacelia hastata</i> var. <i>leucophylla</i>	SB	unassigned	U. of NE - Lincoln SB Herbarium Smithsonian
<i>Physaria brassicoides</i>	SB	11771	U. of NE - Lincoln SB Herbarium Smithsonian
<i>Platanthera hyperborea</i>	WC	unassigned	U. of NE - Lincoln
<i>Poa interior</i>	WC	unassigned	U. of NE - Lincoln
<i>Populus x acuminata</i>	WC	unassigned	U. of NE - Lincoln
<i>Pterospora andromedea</i>	WC	unassigned	U. of NE - Lincoln
<i>Stephanomeria runcinata</i>	B	unassigned (WC)	U. of NE - Lincoln SB Herbarium Smithsonian

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SCOTTS BLUFF MONUMENT
STATE - MONITORED PLANT SPECIES

Lappula cerchnaoides
Astragalus pectoratus
Leptodactylon caespitosum
Paronychia sessilifolia
Chrysothamnus parryi howardii
Fritillaria atropurpurea
Stephanomeria runcinata
Physaria brassicaoides
Phacelia hastata var. *leucophylla*

1 mile = 6.67 cm (2.66 in.)
Contour Interval 6.1 m (20 ft.)

Map 1

SCOTTS BLUFF MONUMENT
STATE - MONITORED PLANT SPECIES

Lappula cerchnia
Astragalus pectoratus
Leptodactylon caespitosum
Paronychia sessilifolia
Chrysothamnus parryi
Fritillaria atropurpurea
Stephanomeria runcinata
Physaria brassicaoides
Phacelia hastata var. *leucophylla*

1 mile = 6.67 cm (2.66 in.)
Contour Interval 6.1 m (20 ft.)

Map 1

**SCOTTS BLUFF MONUMENT
STATE - MONITORED PLANT SPECIES**

Lappula cerchnaoides

Astragalus pectoratus

Leptodactylon caespitosum

Paronychia sessilifolia

Chrysothamnus parryi howardii

Lomatium nuttallii

Fritillaria atropurpurea

Stephanomeria runcinata

Physaria brassicaoides

Phacelia hastata var. *leucophylla*

1 mile = 6.67 cm (2.66 in.)
Contour Interval 6.1 m (20 ft.)

Map 1

**SCOTTS BLUFF MONUMENT
STATE - MONITORED PLANT SPECIES**

Lappula cerchnaoides

Astragalus pectoratus

Leptodactylon caespitosum

Paronychia sessilifolia

Chrysothamnus parryi howardii

Lomatium nuttallii

Fritillaria atropurpurea

Stephanomeria runcinata

Physaria brassicaoides

Phacelia hastata var. *leucophylla*

1 mile = 6.67 cm (2.66 in.)
Contour Interval 6.1 m (20 ft.)

Map 1

APPENDIX E
VASCULAR PLANTS
of the
WILDCAT HILLS REGION

PRELIMINARY LIST OF VASCULAR PLANTS WILDCAT RIDGE

The following list was compiled based on the Scott's Bluff National Monument species list, plot work, and additional species encountered in the Wildcat Hills. The list is not complete for all species in the Wildcat Ridge and is particularly under-represented for wetland and weed species. Many of the following are not documented by vouchers. ¹Species monitored by the Nebraska Natural Heritage Program - Nebraska Game and Parks Commission. * indicates an exotic species

ACERACEAE

<i>Acer nigrum</i> L. var. <i>interius</i> (Britt.) Sarg.	Box elder	Canyon bottoms
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AGAVACEAE

<i>Yucca glauca</i> Nutt.	Yucca	Sandy upland prairie
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ALISMATACEAE

<i>Sagittaria cuneata</i> Sheld.	Duck-potato arrowhead	Wet ground along streams
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AMARANTHACEAE

<i>Amaranthus albus</i> L.	Tumbleweed	Disturbed ground
<i>Amaranthus arenicola</i> I. M. Johnst.	Sandhill pigweed	Disturbed sand sage prairie
<i>Amaranthus blitoides</i> S. Wats. [<i>A. graecizans</i>]	Prostrate pigweed	Disturbed ground
<i>Amaranthus retroflexus</i> L.	Rough pigweed	Disturbed ground

ANACARDIACEAE

<i>Rhus aromatica</i> Ait. var. <i>trilobata</i> (Nutt.) Gray	Skunkbrush sumac	Common in ravines, on slopes, and rocky outcrops
<i>Toxicodendron rydbergii</i> (Small) Greene	Poison ivy	In draws and canyon bottoms

APIACEAE

<i>Berula erecta</i> (Huds.) Cov. var. <i>incisum</i> (Torr.) Cronq.	Water parsnip	Common in seep streams
<i>Circuta maculata</i> L.	Water hemlock	Seep areas
<i>Cymopterus acaulis</i> (Pursh) Rag.	Cymopterus	Rocky prairie slopes
<i>Cymopterus montanus</i> T. & G.	Cymopterus	Upland prairie
<i>Heracleum sphondylium</i> L. ssp. <i>montanum</i> (Schleich.) Briq.	Cow parsnip	Locally common in moist bottom of Carter Canyon
¹ <i>Lomatium nuttallii</i> (Gray) Macbr.	Dog parsley	Siltstone outcrops
<i>Musineon tenuifolium</i> Nutt.	Musineon	Rock outcrops
<i>Osmorhiza longistylis</i> (Torr.) DC.	Anise root	Locally common in the bottom of Carter Canyon
<i>Sanicula canadensis</i> L.	Black snakeroot	Occasional in moist pine canyon bottoms

APOCYNACEAE

<i>Apocynum androsaemifolium</i> L.	Spreading dogbane	Uncommon in canyon bottom, Carter Canyon
<i>Apocynum cannabinum</i> L.	Hemp dogbane	Low ground

ASCLEPIADACEAE

<i>Asclepias arenaria</i> Torr.	Sand milkweed	Around blowouts in sand sage prairie
<i>Asclepias engelmanniana</i> Woods	Engelmann's milkweed	Siltstone exposures and adjacent prairie
<i>Asclepias incarnata</i> L.	Swamp milkweed	Moist ground
<i>Asclepias pumila</i> (A. Gray) Vail	Dwarf milkweed	Upland prairie

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Asclepias speciosa</i> Torr.	Showy milkweed	Disturbed ground
<i>Asclepias viridiflora</i> Raf.	Green milkweed	Upland prairie
ASTERACEAE		
<i>Ambrosia psilostachya</i> DC.	Western ragweed	Upland prairie
<i>Ambrosia trifida</i> L.	Giant ragweed	Low ground
<i>Antennaria howellii</i> Greene ssp. <i>neodioica</i> (Greene) Bayer	Northern pussy-toes	Pine slopes
<i>Antennaria microphylla</i> Rybd.	Pink pussy-toes	Pine upper slopes at Scotts Bluff Monument
<i>Antennaria parvifolia</i> Nutt.	Rocky Mt. pussy-toes	Sandy prairie; open pine woods
<i>Artemisia campestris</i> L. var. <i>scouleriana</i> (Bess.) Cronq.	Perennial green sage	Rocky slopes of draws
<i>Artemisia cana</i> Pursh	Dwarf sagebrush	Badland draws at Scotts Bluff Monument
<i>Artemisia dracunculus</i> L.	Silky wormwood	Upland prairie
<i>Artemisia filifolia</i> Torr.	Sand sagebrush	Sandy prairie
<i>Artemisia frigida</i> Willd.	Fragrant sagebrush	Upland prairie
<i>Artemisia ludoviciana</i> Nutt.	White sage	Pine woodland
<i>Aster commutatus</i> (T. & G.) Gray	Heath aster	Upland prairie
<i>Aster pansus</i> (Blake) Cronq.	Aster	Low ground
<i>Brickellia grandiflora</i> (Hook.) Nutt.	Brickellia	Rocky siltstone slopes and open pine woods
<i>Carduus nutans</i> L.	Musk thistle	Disturbed ground
<i>Chrysothamnus nauseosus</i> (Pall.) Britt. ssp. <i>graveolens</i> (Nutt.) Piper	Rabbit brush	Disturbed prairie and badlands at Scotts Bluff Monument
¹ <i>Chrysothamnus parryi</i> (Gray) Greene ssp. <i>howardii</i> (Parry) Hall & Clem.	Low rabbit brush	Siltstone and sandstone Exposures, frequently on steep slopes
<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	Low disturbed ground
<i>Cirsium canescens</i> Nutt.	Platte thistle	Upland prairie
<i>Cirsium flodmanii</i> (Rydb.) Arthus	Flodman's thistle	Level prairie, often in canyon bottoms
<i>Cirsium ochrocentrum</i> Gray	Yellow-spine thistle	Level silty prairie
<i>Cirsium vulgare</i> (Savi) Ten.	Bull thistle	Moist ground in canyon bottom
<i>Coryza canadensis</i> (L.) Cronq.	Mare's tail	Disturbed ground
<i>Crepis atriobarba</i> Heller	Hawk's beard	Uncommon in open pine woods
<i>C. elachnaea xanthifolia</i> (Nutt.) Fresen. [<i>Iva xanthifolia</i>]	Marsh elder	Disturbed ground
<i>Dyssodia papposa</i> (Vent.) Hitchc.	Fetid marigold	Disturbed ground
<i>Erigeron bellidiastrum</i> Nutt.	Western fleabane	Common in sand sage prairie
<i>Erigeron canus</i> Gray	Fleabane	Upland prairie
<i>Erigeron pumilus</i> Nutt.	Fleabane	Upland prairie
<i>Euthamia gymnospermoides</i> (Greene)	Viscid goldenrod	Moist ground at Scotts Bluff Monument
<i>Grindelia squarrosa</i> (Pursh) Dun.	Gumweed	Disturbed ground
<i>Gutierrezia sarpyllae</i> (Pursh) Britt. & Rusby	Broom snakeweed	Common in uplands, usually where rocky
<i>Helianthus annuus</i> L.	Common sunflower	Disturbed places
<i>Helianthus maximiliani</i> Schrad.	Maximilian sunflower	Siltstone washes at Scotts Bluff Monument
<i>Helianthus petiolaris</i> Nutt.	Plains sunflower	Disturbed, sandy soil

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Heterotheca villosa</i> (Pursh) Shinnery var. <i>hispida</i> (Hook.) Harms [<i>Chrysopsis villosa</i> var. <i>hispida</i> , <i>C. horrida</i>]	Hairy golden aster	Upland prairie, often on ridgetops
<i>Heterotheca villosa</i> (Pursh) Shinnery var. <i>villosa</i> [<i>Chrysopsis villosa</i> var. <i>villosa</i>]	Golden aster	Upland prairie
<i>Hymenopappus filifolius</i> Hook. Var. <i>polycephalus</i> (Osterh.) B.L. Turner		Rocky places, prairie
<i>Iva axillaris</i> (Pursh) var. <i>robustior</i> Hook.	Poverty weed	Alkaline ground in badlands at Scotts Bluff Monument
<i>Kuhnia eupatorioides</i> L. var. <i>corymbulosa</i> T. & G.	False boneset	Prairie
<i>Lactuca ludoviciana</i> (Nutt.) Ridd.	Blue prairie lettuce	Pine canyons
<i>Lactuca oblongifolia</i> Nutt.	Blue lettuce	Prairie, disturbed places
* <i>Lactuca serriola</i> L.	Prickly lettuce	Disturbed ground
<i>Liatris punctata</i> Hook.	Dotted gayfeather	Prairie
<i>Lygodesmia juncea</i> (Pursh) Hook.	Skeleton plant	Prairie
<i>Machaeranthera canescens</i> (Pursh) A. Gray		Disturbed prairie
<i>Machaeranthera pinnatifida</i> (Hook.) Shinnery var. <i>pinnatifida</i> [<i>Haplopappus spinulosus</i> spp. <i>spinulosus</i>]	Cutleaf ironplant	Prairie
<i>Nothocalais cuspidata</i> (Pursh) Greene [<i>Microseris cuspidata</i>]	False dandelion	Prairie
<i>Onopordum acanthium</i> L.	Scotch thistle	Disturbed ground
<i>Ratibida columnifera</i> (Nutt.) Woot. & Standl.	Prairie coneflower	Prairie
<i>Senecio canus</i> Hook.	Gray ragwort	Rocky places
<i>Senecio integerrimus</i> Nutt. var. <i>integerrimus</i>	Lamb's ear groundsel	Prairie slopes, particularly near pine woods
<i>Senecio plattensis</i> Nutt.	Prairie ragwort	Sandy prairie
<i>Senecio riddellii</i> T. & G.	Riddell ragwort	Prairie slopes, often in loose, sandy soil
<i>Solidago canadensis</i> L.	Common goldenrod	Low ground
<i>Solidago missouriensis</i> Nutt.	Missouri goldenrod	Prairie, rocky places
<i>Solidago mollis</i> Bartl.	Soft goldenrod	Prairie
* <i>Stephanomeria runcinata</i> Nutt.	Wire lettuce	Siltstone outcrops on steep slopes and narrow ridges
* <i>Taraxacum officinale</i> Weber	Dandelion	Disturbed places
<i>Tetraneuris acaulis</i> (Pursh) Greene [<i>Hymenoxys acaulis</i>]	Hymenoxes	Rocky places
<i>Thelesperma megapotamicum</i> (Spreng.) O. Ktze.	Greenthread	Prairie, rocky places
<i>Townsendia grandiflora</i> Nutt.	Easter daisy	Rocky places
* <i>Tragopogon dubius</i> Scop.	Wild salsify	Disturbed places, common
<i>Xanthium strumarium</i> L.	Cocklebur	Disturbed ground
BORAGINACEAE		
<i>Cryptantha cana</i> (A. Nels.) Pays.	Cryptantha	Rocky places
<i>Cryptantha celosioides</i> (Eastw.) Pays.		Siltstone exposures
<i>Cryptantha minima</i> Rydb.		Disturbed places
<i>Cryptantha thyrsoflora</i> (Greene) Pays.		Sandy places near sandstone outcrops
<i>Lappula cenchrusoides</i> A. Nels.	Stickseed	Margins of badlands at Scotts Bluff Monument
<i>Lappula redowskii</i> (Hornem.) Greene		Disturbed prairie
<i>Lappula texana</i> (Scheele) Britt.		Disturbed prairie
<i>Lithospermum incisum</i> Lehm.	Gromwell	Prairie
BRASSICACEAE		
* <i>Alyssum desertorum</i> Stapf.	Alyssum	Disturbed places, common

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

* <i>Alyssum parviflorum</i> (Fisch.) Bieb. [<i>A. minus</i> var. <i>micrantha</i>]		Disturbed ground
<i>Arabis hirsuta</i> (L.) Scop. var. <i>pyncocarpa</i> (Hopkins)	Rock cress	Pine woods
	Rollins	
<i>Arabis holboellii</i> Hornem.	Rock cress	Open pine woods, prairie slopes
* <i>Camelina microcarpa</i> Andr. ex DC.	Small-seeded false flax	Disturbed ground
* <i>Descurainia pinnata</i> (Walt.) Britt.	Tansy mustard	Disturbed ground, prairie
* <i>Descurainia sophia</i> (L.) Webb	Flixweed	Disturbed ground
<i>Draba reptans</i> (Lam.) Fern.	Draba	Disturbed places in prairie
<i>Erysimum asperum</i> (Nutt.) DC.	Western wallflower	Prairie
<i>Lepidium densiflorum</i> Schrad.	Peppergrass	Disturbed prairie
¹ <i>Lesquerella arenosa</i> (Richards.) Rydb. var. <i>argillosa</i> Rollins & Shaw		Siltstone outcrops
<i>Lesquerella ludoviciana</i> S. Wats.	Bladderpod	Prairie
¹ <i>Physaria brassicoides</i> Rydb.	Double bladderpod	Siltstone outcrops at Scotts Bluff Monument
<i>Rorippa palustris</i> (L.) Bess.	Bog yellow cress	Moist ground
* <i>Sisymbrium altissimum</i> L.	Tumbling mustard	Common in disturbed ground
<i>Thelypodium integrifolium</i> (Nutt.) Endl.	Thelypody	Alkaline seepages at Scotts Bluff Monument
CACTACEAE		
<i>Coryphantha vivipara</i> (Nutt.) Britt. & Rose	Pincushion cactus	Prairie slopes
<i>Opuntia fragilis</i> (Nutt.) Haw.	Brittle prickly pear	Sandy prairie
<i>Opuntia macrorhiza</i> Engelm.	Plains prickly pear	Prairie
<i>Opuntia polyacantha</i> Haw.	Plains prickly pear	Prairie, often where rocky
CAMPANULACEAE		
<i>Campanula rotundifolia</i> L.	Harebell	Pine woods
CAPPARACEAE		
<i>Cleome serrulata</i> Pursh	Rocky Mt. bee plant	Disturbed ground
<i>Polanisia dodecandra</i> (L.) DC. ssp. <i>trachysperma</i> (T. & G.) Ilis	Clammyweed	Disturbed ground
CAPRIFOLIACEAE		
<i>Symphoricarpos occidentalis</i> Hook.	Western snowberry	Common on slopes and in ravines
CARYOPHYLLACEAE		
<i>Arenaria hookeri</i> Nutt. ex T. & G.	Desert sandwort	Rocky outcrops
<i>Paronychia depressa</i> (T. & G.) Nutt. ex A. Nels.	Nailwort	Rocky outcrops
<i>Paronychia sessiliflora</i> Nutt.	Nailwort	Rocky outcrops at Scotts Bluff Monument
<i>Silene drummondii</i> Hook.		Open pine slopes
CHENOPODIACEAE		
<i>Atriplex canescens</i> (Pursh) Nutt.	Saltbrush	Rocky prairie and badlands
<i>Atriplex heterosperma</i> Bunge		Disturbed ground at Scotts Bluff Monument
<i>Atriplex subspicata</i> (Nutt.) Rydb.		Alkaline seep at Scotts Bluff Monument
<i>Bassia scoparia</i> (L.) J. A. Scott [<i>Kochia scoparia</i>]	Kochia	Disturbed places, common
<i>Chenopodium berlandieri</i> Moq.	Pitseed goosefoot	Disturbed ground

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Chenopodium fremontii</i> S. Wats.	Fremont goosefoot	Disturbed ground under juniper
<i>Chenopodium pratericola</i> Rydb.	Narrow leaf goosefoot	Disturbed prairie
¹ <i>Chenopodium subglabrum</i> (S. Wats.) A. Nels.		Sand sage prairie
<i>Corispermum nitidum</i> Kit. ex Schultes		Disturbed sandy banks
<i>Krascheninnikovia lanata</i> (Pursh) Meeuse & Smit	Winterfat	Prairie
[<i>Ceratoides lanata</i>]		
* <i>Salsola collina</i> Pallas	Russian thistle	Disturbed ground
COMMELINACEAE		
<i>Evolvulus nuttallianus</i> R. & S.	Evolvulus	Prairie
<i>Ipomoea leptophylla</i> Torr.	Bush morning glory	Sandy prairie
<i>Tradescantia occidentalis</i> (Britt.) Smyth	Western spiderwort	Prairie
CORNACEAE		
<i>Cornus sericea</i> L. [<i>C. stolonifera</i>]	Red-twigged dogwood	Moist pine canyons
CUCURBITACEAE		
<i>Cucurbita foetidissima</i> H. B. K.	Buffalo gourd	Sandy disturbed prairie
<i>Echinocystis lobata</i> (Michx.) T. & G.	Wild cucumber	Ravines at Scotts Bluff Monument
CUPRESSACEAE		
<i>Juniperus scopulorum</i> Sarg.	Rocky Mt. juniper	Slopes and draws
CYPERACEAE		
<i>Carex aurea</i> Nutt.	Sedge	Along streams in pine canyon bottom
<i>Carex eleocharis</i> Bailey	Sedge	Prairie
<i>Carex filifolia</i> Nutt.	Sedge	Abundant in undisturbed prairie
<i>Carex hallii</i> Olney	Sedge	Uncommon in seep at Scotts Bluff Monument
<i>Carex heliophila</i> Mack.	Sedge	Upper pine slopes
<i>Carex nebraskensis</i> Dew.	Sedge	Wet ground of seepage streams
<i>Carex pellita</i> Muhl. [<i>C. lanuginosa</i> misapplied]	Sedge	Along streams and in canyon bottoms
<i>Carex praegracilis</i> W. Boott	Clustered field sedge	Meadows
¹ <i>Carex rossii</i> F. Boott	Sedge	Upper pine slopes
<i>Carex saximontana</i> Mack.	Sedge	Upper pine slopes
<i>Carex sprengei</i> Dew. ex Spreng.	Sedge	Moist pine canyons
<i>Eleocharis erythropoda</i> Steud.	Spikerush	Wet ground
<i>Fimbristylis puberula</i> (Michx.) Vahl. var. <i>interior</i> (Britt.) Kral		Alkaline seep at Scotts Bluff Monument
<i>Scirpus pallidus</i> (Britt.) Fern.	Dark green bulrush	Along streams in pine canyons
ELAEAGNACEAE		
<i>Shepherdia argentea</i> (Pursh) Nutt.	Buffaloberry	Slopes and draws
EQUISETACEAE		
<i>Equisetum arvense</i> L.	Field horsetail	Moist canyon bottoms

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Equisetum hyemale</i> L.	Scouring rush	Common along streams in pine canyons
<i>Equisetum laevigatum</i> A. Br.	Smooth scouring rush	Prairie
EUPHORBIACEAE		
<i>Croton texensis</i> (Kl.) Muell.-Arg.		Disturbed sandy ground
<i>Euphorbia dentata</i> Michx.	Toothed spurge	Disturbed ground
<i>Euphorbia ghysosperma</i> Engelm.	Ridge-seeded spurge	Disturbed prairie
<i>Euphorbia hexagona</i> Nutt.	Spurge	Disturbed ground
<i>Euphorbia missurica</i> Raf.	Prairie spurge	Sandy disturbed ground
<i>Euphorbia robusta</i> (Engelm.) Small		Rocky places
FABACEAE		
<i>Astragalus adsurgens</i> Pall. var. <i>robustior</i> Hook.	Milk-vetch	Rocky places
<i>Astragalus crassicaarpus</i> Nutt. var. <i>crassicaarpus</i>	Ground plum	Prairie
<i>Astragalus gracilis</i> Nutt.	Slender milk-vetch	Prairie
<i>Astragalus kentrophyta</i> Gray var. <i>kentrophyta</i>	Spiny milk-vetch	Disturbed silty soil and badlands
<i>Astragalus lotiflorus</i> Hook.	Lotus milk-vetch	Prairie
<i>Astragalus missouriensis</i> Nutt.	Milk-vetch	Prairie, often where rocky
<i>Astragalus mollissimus</i> Torr.	Wooly locoweed	Prairie
<i>Astragalus pectinatus</i> Doug. ex G. Don	Tine-leaved milk-vetch	Siltstone outcrops and badlands at Scotts Bluff Monument
<i>Astragalus sericoleucus</i> Gray	Silky orophaca	Rock outcrops above Kiowa Creek
<i>Astragalus spatulatus</i> Sheld.	Draba milk-vetch	Rocky places
<i>Dalea aurea</i> Nutt. ex Pursh	Golden prairie clover	Silty prairie slopes
<i>Dalea candida</i> Michx. ex Willd. Var. <i>oligophylla</i> (Torr.) Shinners	White prairie clover	Prairie and rocky places
<i>Dalea purpurea</i> Vent.	Purple prairie clover	Prairie
<i>Glycyrrhiza lepidota</i> Pursh	Wild licorice	Low ground, ravines floodplain
<i>Lathyrus polymorphus</i> Nutt. spp. <i>polymorphus</i>	Hoary vetchling	Prairie
<i>Lupinus pusillus</i> Pursh	Rusty lupine	Prairie
* <i>Melilotus albus</i> Medic.	White sweet-clover	Disturbed ground, rocky places
* <i>Melilotus officinalis</i> (L.) Pall.	Yellow sweet-clover	Disturbed ground
<i>Oxytropis lambertii</i> Pursh	Purple locoweed	Sandy prairie
<i>Oxytropis sericea</i> Nutt.	White locoweed	Rocky places
<i>Pedimelum argophyllum</i> (Pursh) Grimes [<i>Psoralea</i> <i>argophylla</i>]	Silvery scurf-pea	Prairie
<i>Pedimelum esculentum</i> (Pursh) Rydb. [<i>Psoralea esculenta</i>]	Breadroot scurf-pea	Prairie
<i>Pedimelum hypogaeum</i> (Nutt. ex T. & G.) Rydb. [<i>Psoralea hypogaea</i>]	Little breadroot scurf-pea	Uncommon in prairie
<i>Psoralidium lanceolatum</i> (Pursh) Rydb. [<i>Psoralea lanceolata</i>]	Lemon scurf-pea	Rocky and sandy places
<i>Psoralidium tenuiflorum</i> (Pursh) Rydb. [<i>Psoralea tenuiflora</i>]	Wild alfalfa	Prairie
<i>Thermopsis thombifolia</i> Nurr. ex Richards.	Sicklepod	Prairie slopes and rocky places
<i>Vicia americana</i> Muhl. ex Willd. var. <i>minor</i> Hook.	American vetch	Prairie
GROSSULARIACEAE		
<i>Ribes cereum</i> Dougl. var. <i>inebrians</i> (Lindl.) C. L. Hirchc.	Western red currant	Open pine slopes
<i>Ribes odoratum</i> Wendl.	Buffalo currant	Ravines and low places

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

HYDROPHYLLACEAE

<i>Ellisia nyctelea</i> L.	Waterpod	Scattered in prairie
¹ <i>Phacelia hastata</i> Dougl. ex Lehm. var. <i>leucophylla</i> (Torr.) Cronq.	Scorpionweed	Siltstone outcrops at Scotts Bluff Monument

IRIDACEAE

<i>Sisyrinchium montanum</i> Greene	Blue-eyed grass	Low, moist ground
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JUNCACEAE

<i>Juncus balticus</i> Willd.	Baltic rush	Wet ground
<i>Juncus interior</i> Wieg.	Rush	Moist ground

JUNCAGINACEAE

<i>Triglochin maritimu</i> L.	Arrow grass	Alkaline seeps at Scotts Bluff Monument
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LAMIACEAE

<i>Hedeoma drummondii</i> Benth.	False pennyroyal	Rocky places
<i>Hedeoma hispidum</i> Pursh	Rough false pennyroyal	Disturbed prairie
<i>Lycopus americanus</i> Muhl. ex Bart.	American bugleweed	Moist ground
<i>Marrubium vulgare</i> L.	Horehound	Moist ground
<i>Mentha arvensis</i> L.	Field mint	Moist ground
<i>Monarda fistulosa</i> L.	Wild bergamont	Moist canyon bottoms
<i>Monarda pectinata</i> Nutt.	Spotted beebalm	Disturbed sandy prairie
<i>Nepeta cataria</i> L.	Catnip	Draws, usually among shrubs
<i>Salvia reflexa</i> Hornem.	Lance leaved sage	Disturbed prairie

LILIACEAE

<i>Allium textile</i> A. Nels. & Machr.	Wild onion	Prairie
¹ <i>Fritillaria atropurpurea</i> Nutt.	Leopard lily	Prairie near siltstone outcrops
<i>Leucocrinum montanum</i> Nutt.	Mountain lily	Prairie
<i>Maianthemum stellatum</i> (L.) Link [<i>Smilacina stellata</i>]	False Solomon's seal	Low ground and wooded areas
<i>Zigadenus venenosus</i> S. Wats.	Death camas	Prairie

LINACEAE

<i>Linum rigidum</i> Pursh var. <i>compactum</i> (A. Nels.) Rogers	Wild flax	Prairie, often in silty soil
<i>Linum rigidum</i> Pursh var. <i>rigidum</i>	Wild flax	Sandy prairie

LOASACEAE

<i>Mentzelia decapetala</i> (Pursh) Urban & Gilg	Mentzelia	Rocky places, cliffs
<i>Mentzelia nuda</i> (Pursh) T. & G.	Stick leaf	Sandy prairie

MALVACEAE

<i>Malva neglecta</i> Wallr.	Common mallow	Disturbed ground
<i>Sphaeralcea coccinea</i> (Pursh) Rydb.	Globe mallow	Prairie

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

MONOTROPACEAE

¹*Pterospora andromedea* Nutt. Pinedrops Under dense pine

MORACEAE

Morus alba L. White mulberry Uncommon in draws

NYCTAGINACEAE

Abronia fragrans Nutt. ex Hook. Sweet sand verbenas Sandy prairie
Mirabilis hirsuta (Pursh) MacM. Hairy four-o'clock Prairie
Mirabilis linearis (Pursh) Heimerl. Narrow leaf four-o'clock Prairie

OLEACEAE

Fraxinus pennsylvanica Marsh. Green ash Canyon bottoms

ONAGRACEAE

Calylophus lavandulifolius (T. & G.) Raven Siltstone outcrops
Calylophus serrulatus (Nutt.) Raven Plains yellow primrose Prairie
Epilobium ciliatum Raf. Willow - herb Wet ground
Epilobium leptophyllum Raf. Narrow-leaved willow-herb Wet ground
Gaura coccinea Pursh Scarlet gaura Prairie
Gaura parviflora Dougl. Velvety gaura Disturbed ground
Oenothera caespitosa Nutt. ssp. *caespitosa* Gumbo lily Rocky places
Oenothera nuttallii Sweet White-stemmed evening primrose Sandy prairie
Oenothera villosa Thunb. Common evening primrose Disturbed ground

ORCHIDACEAE

¹*Corallorhiza maculata* Raf. Spotted coral root Pine canyons
¹*Platanthera hyperborea* (L.) Lindl. [*Habenaria hyperborea*] Northern green orchid Moist canyon bottoms

OROBANCHACEAE

Orobanche fasciculata Nutt. Broomrape Prairie and siltstone areas, parasitic, frequently on *Artemisia frigida*
Orobanche ludoviciana Nutt. Broomrape Rare in badlands at Scotts Bluff Monument

PAPAVERACEAE

Argemone polyanthemus (Fedde) G. Ownbey Prickly poppy Disturbed prairie

PINACEAE

Pinus ponderosa Laws. Ponderosa pine Slopes and deep draws

PLANTAGINACEAE

Plantago patagonica Jacq. var. *patagonica* Woolly plantain Disturbed ground

POACEAE

* *Agropyron cristatum* (L.) Gaertn. Crested wheatgrass Disturbed places
 * *Agropyron repens* (L.) Beauv. Quackgrass Disturbed places
 * *Agrostis stolonifera* L. Redtop Low moist ground near streams
Andropogon hallii Hack. Sand bluestem Prairie
Aristida purpurea Nutt. var. *longiseta* (Steud.) Vasey Red three-awn Rocky places

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Aristida purpurea</i> Nutt. var. <i>robusta</i> (Merrill) A. Holmgren & N. Holmgren	Red three-awn	Prairie
* <i>Avena fatua</i> L. var. <i>fatua</i>	Wild oats	Disturbed ground at
<i>Bouteloua curtipendula</i> (Michx.) Torr.	Sideoats grama	Prairie, often where rocky
<i>Bouteloua gracilis</i> (H.B.K.) Lag. ex Griffiths	Blue grama	Prairie, particularly common in shallow soil
* <i>Bromus inermis</i> Leyss.	Smooth brome	Disturbed ground
* <i>Bromus japonicus</i> Thunb. ex Murr.	Japanese brome	Disturbed ground, common
* <i>Bromus squarrosus</i> L.		Disturbed slopes
* <i>Bromus tectorum</i> L.	Downy brome	Disturbed ground
<i>Buchloe dactyloides</i> (Nutt.) Engelm.	Buffalo grass	Prairie
<i>Calamovilfa longifolia</i> (Hook.) Scribn.	Prairie sandreed	Prairie, particularly where sandy
<i>Catabrosa aquatica</i> (L.) Beauv.	Water grass	Streams
<i>Cenchrus longispinus</i> (Hack.) Fern.	Sandbur	Disturbed ground
<i>Distichlis spicata</i> (L.) Greene var. <i>stricta</i> (Torr.) Beetle	Inland saltgrass	Low alkaline spots
<i>Echinochloa muricata</i> (Beauv.) Fern. var. <i>microstachya</i> Wieg.	Barnyard grass	Disturbed ground
<i>Elymus canadensis</i> L.	Canada wildrye	Low ground
<i>Elymus elymoides</i> (Raf.) Swezey var. <i>brevifolius</i> (Sm.) Dorn	Squirreltail	Prairie and rocky places
[<i>Sitanion hystrix</i>]		
<i>Elymus lanceolatus</i> (Scribn. & Sm.) Gould		Prairie and rocky places
[<i>Agropyron dasystachyum</i>]		
* <i>Elymus macounii</i> Vasey [<i>Agrohordeum macounii</i>]		Badland washes at Scotts Bluff Monument
<i>Elymus trachycaulus</i> (Link) Gould ex Shinnars var. <i>trachycaulus</i> [<i>Agropyron caninum</i> ssp. <i>majus</i> var. <i>majus</i>]		Low, moist ground
<i>Elymus villosus</i> Muhl. ex Willd.		Moist pine canyons
* <i>Elytrigia elongata</i> (Host) Nevski [<i>Agropyron elongatum</i>]	Tall wheatgrass	Disturbed grassland
* <i>Elytrigia intermedia</i> (Host) Nevski [<i>Agropyron intermedium</i>]		Disturbed places
* <i>Eragrostis alianensis</i> (All.) E. Mosher	Stinkgrass	Disturbed ground
<i>Festuca octoflora</i> Walt.	Six-weeks fescue	Disturbed prairie
<i>Hordeum jubatum</i> L.	Foxtail barley	Low ground
<i>Koeleria macrantha</i> (Ledeb.) Scultes [<i>K. pyramidata</i>]	Junegrass	Prairie
<i>Leersia oryzoides</i> (L.) Sw.	Rice cutgrass	Wet ground
<i>Muhlenbergia asperifolia</i> (Nees & Mey. ex Trin.) Parodi	Alkali muhly	Low, moist ground
<i>Muhlenbergia cuspidata</i> (Torrey ex Hook.) Rydb.	Rock muhly	Rocky places
<i>Muhlenbergia mexicana</i> (L.) Trin.	Wirestem muhly	Low ground
<i>Muhlenbergia pungens</i> Thurb.	Sand muhly	Rocky places
<i>Muhlenbergia racemosa</i> (Michx.) B.S.P.	Marsh muhly	Ravine bottoms
<i>Munroa squarrosa</i> (Nutt.) Torr.	False buffalo grass	Disturbed ground
<i>Nasella viridula</i> (Trin.) Barkworth [<i>Stipa viridula</i>]	Green needle grass	Silty prairie
<i>Oryzopsis hymenoides</i> (R. & S.) Ricker ex Piper	Indian ricegrass	Rocky places, badlands
<i>Oryzopsis micrantha</i> (Trin. Rupr.) Thurb.	Little seed ricegrass	Pine woods, usually under juniper
<i>Panicum capillare</i> L.	Witchgrass	Disturbed prairie
<i>Panicum virgatum</i> L.	Switchgrass	Low ground, prairie
<i>Pascopyrum smithii</i> (Rydb.) Loeve [<i>Agropyron smithii</i>]	Western wheatgrass	Prairie
* <i>Phleum pratense</i> L.	Timothy	Moist ground
* <i>Poa compressa</i> L.	Canada bluegrass	Moist shaded places
¹ <i>Poa interior</i> Rydb.		Upper pine slopes in Carter Canyon

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

<i>Poa juncifolia</i> Scribn.	Alkali bluegrass	Upper pine slopes
* <i>Poa pratensis</i> L.	Kentucky bluegrass	Pine woodland
<i>Poa secunda</i> Presl.	Bluegrass	Rocky places, upper slopes of bluffs
* <i>Psathyrostachys junceus</i> (Fisch.) Nevski [<i>Elymus junceus</i>]	Russian wildrye	Disturbed ground at Scotts Bluff Monument
<i>Redfieldia flexuosa</i> (Thurb.) Vasey	Blowout grass	Sand sage prairie
<i>Schedonnardus paniculatus</i> (Nutt.) Trel.	Tumblegrass	Disturbed ground
<i>Schizachyrium scoparium</i> (Michx.) Nash [<i>Andropogon scoparius</i>]	Little bluestem	Prairie, often where rocky
* <i>Setaria viridis</i> (L.) Beauv.	Green foxtail	Disturbed ground
<i>Sorghastrum nutans</i> (L.) Nash	Indian grass	Level, silty prairie
<i>Spartina gracilis</i> Trin.	Alkali cordgrass	Along streams
<i>Spartina pectinata</i> Link	Prairie cordgrass	low ground along streams
<i>Sphenopholis obtusata</i> (Michx.) Scribn. var. <i>obtusata</i>	Prairie wedgegrass	Draws in prairie
<i>Sporobolus airoides</i> (Torr.) Torr.	Alkali sacaton	Low alkaline ground
<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	Sand dropseed	Prairie
<i>Stipa comata</i> Trin. & Rupr.	Needle and thread	Common in prairie
POLEMONIACEAE		
<i>Ipomopsis congesta</i> (Hook.) V. Grant	Ball head	Rocky places
<i>Ipomopsis spicata</i> (Nutt.) V. Grant		Disturbed places around rock outcrops
¹ <i>Leptodactylon caespitosum</i> Nutt.		Rocky places
<i>Microsteris gracilis</i> (Hook.) Greene var. <i>humilior</i> (Hook.) Cronq.		Disturbed prairie
<i>Phlox andicola</i> Nutt. ex A. Gray	Plains phlox	Prairie
<i>Phlox hoodii</i> Rich.		Rocky places
POLYGALACEAE		
<i>Polygala alba</i> Nutt.	White milkwort	Siltstone outcrops
POLYGONACEAE		
<i>Eriogonum ulatum</i> Torr.	Winged eriogonum	Rocky places, open pine woods
<i>Eriogonum annuum</i> Nutt.	Annual eriogonum	Sandy prairie and slopes
<i>Eriogonum brevicaulis</i> Nutt.		Collected by Rydberg on rocks above Kiowa Creek in 1891
<i>Eriogonum flavum</i> Nutt.	Yellow wild buckwheat	Rock outcrops
<i>Eriogonum pauciflorum</i> Pursh		Rock outcrops
<i>Polygonum achoreum</i> Blake	Knotweed	Disturbed ground
<i>Polygonum convolvulus</i> L.	Climbing false buckwheat	Disturbed ground
<i>Polygonum lapathifolium</i> L.	Pale smartweed	Wet ground
<i>Polygonum ramosissimum</i> Michx.	Tall knotweed	Disturbed prairie
* <i>Rumex crispus</i> L.	Curly dock	Moist ground
* <i>Rumex patientia</i> L. ssp. <i>patientia</i>	Patience dock	Low, disturbed areas
<i>Rumex triangulivalvis</i> (Danser) Rech. F.	Willow-leaved dock	Moist ground
<i>Rumex venosus</i> Pursh	Wild begonia	Sandy places

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

POLYPODIACEAE

¹*Cheilanthes feei* Moore

Cystopteris fragilis (L.) Bernh.

Woodsia oregana D.C. Eat.

Lip fern

Fragile fern

Oregon grape fern

On rocks in Carter Canyon

Pine slopes

Rare under pines at top of Scott's Bluff

POTAMOGETONACEAE

Potamogeton natans L.

Pondweed

Stream at Buffalo Creek

RANUNCULACEAE

Anemone cylindrica Gray

Ceratocephala testiculata Nutt.

¹*Delphinium nuttallianum* Pritz. ex Walpers

Ranunculus cymbalaria Pursh var. *cymbalaria*

Ranunculus macounii Britt.

Thalictrum dasycarpum Fisch. & Ave-Lall.

Candle anemone

Western clematis

Blue larkspur

Shore buttercup

Macoun's buttercup

Meadow rue

Canyon bottoms

Climbing on shrubs and trees in draws

Pine slopes and canyon bottoms

Seeps at Scotts Bluff Monument

Seeps at Scotts Bluff Monument

Moist canyon bottoms

ROSACEAE

Agrimonia striata Michx.

Amelanchier alnifolia Nutt.

Cercocarpus montanus Raf.

Geum aleppicum Jacq.

Geum canadense Jacq.

Potentilla pensylvanica L.

Prunus americana Marsh.

Prunus virginiana L.

Rosa woodsii Lindl.

Agrimony

Serviceberry

Mountain mahogany

Yellow avens

White avens

Cinquefoil

Wild plum

Chokecherry

Western wild rose

Moist canyon bottoms

Uncommon on pine slopes

Pine woods and rocky slopes

Moist canyon bottoms

Moist canyon bottoms

Sandy prairie

Canyon bottoms

Brushy draws

Brushy draws

RUBIACEAE

Galium aparine L.

Galium boreale L.

Galium triflorum Michx.

Carchweed bedstraw

Northern bedstraw

Sweet-scented bedstraw

Low ground

Moist canyon bottoms

Moist canyon bottoms

SALICACEAE

¹*Populus acuminata* Rydb.

Populus deltoides Marsh. ssp. *monilifera* (Ait.) Eckenw.

Salix amygdaloides Anderss.

Salix interior Rowlee

Cottonwood

Peachleaf willow

Sandbar willow

In bottom of Carter Canyon and along Kiowa Creek

Bottoms of wide draws, along streams

Low ground

Wet places near streams and seeps

SANTALACEAE

Comandra umbellata (L.) Nutt. ssp. *pallida* (A. DC.) Pichl Bastard toadflax

Rocky places

PRELIMINARY LIST OF VASCULAR PLANTS (cont.)

SCROPHULARIACEAE

<i>Mimulus glabratus</i> H.B.K. var. <i>fremontii</i> (Benth.) A.L. Grant	Roundleaf monkeyflower	Seeps and streams
<i>Penstemon albidus</i> Nutt.	White beardtongue	Prairie
<i>Penstemon angustifolius</i> Nutt. ex Pursh	Narrow beardtongue	Prairie
<i>Penstemon glaber</i> Pursh		Rocky places
* <i>Verbascum thapsus</i> L.	Common mullein	Disturbed ground
<i>Veronica americana</i> (Raf.) Schwein. ex Benth.	Brook speedwell	Streams
* <i>Veronica anagallis-aquatica</i> L.	Water speedwell	Streams

SOLANACEAE

<i>Physalis heterophylla</i> Grey var. <i>comta</i> (Rydb.) Waterfall	Ground cherry	Prairie
<i>Physalis hispida</i> (Waterfall) Cronq.	Ground cherry	Sandy prairie
<i>Physalis longifolia</i> Nutt.	Common ground cherry	Disturbed ground
<i>Solanum interius</i> Rydb.	Plains black nightshade	Low, disturbed ground
<i>Solanum rostratum</i> Dum.	Buffalo bur	Disturbed ground
<i>Solanum triflorum</i> Nutt.	Cut-leaved nightshade	Disturbed prairie

TYPHACEAE

<i>Typha latifolia</i> L.	Cat-tail	Wet ground along streams
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ULMACEAE

<i>Celtis occidentalis</i> L.	Hackberry	Draws
<i>Ulmus americana</i> L.	American elm	Low ground
* <i>Ulmus pumila</i> L.	Siberian elm	Disturbed ground in a variety of prairie

URTICACEAE

<i>Parietaria pennsylvanica</i> Muhl.	Pennsylvania pellitory	Shady places under trees and shrubs
<i>Urtica gracilis</i> Ait. [<i>U. dioica</i>]	Stinging nettle	Moist draws

VERBENACEAE

<i>Verbena bracteata</i> Lag. & Rodr.	Prostrate verbena	Disturbed places
<i>Verbena hastata</i> L.	Blue verbena	Low ground
<i>Verbena stricta</i> Vent.	Hoary verbena	Prairie

VIOLACEAE

<i>Viola canadensis</i> L. var. <i>rugulosa</i> (Greene) C.L.Hitchc.	Tall white violet	Pine canyon bottom
<i>Viola missouriensis</i> Greene		Along stream in Carter Canyon
<i>Viola nuttallii</i> Pursh	Yellow violet	Prairie

VITACEAE

<i>Parthenocissus vitacea</i> (Knerr) Hitchc.	Woodbine	Draws
<i>Vitis riparia</i> Michx.	Riverbank grape	Draws, bottoms, moist ground

ZYGOPHYLLACEAE

<i>Tribulus terrestris</i> L.	Puncture vine	Disturbed ground
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APPENDIX F
RARE PLANT FORMS

Wildcat Hills Element Occurrence Records
CAREX ROSSII

LOCODE: PMCYP03BN0*008*NE
SNAME: CAREX ROSSII
SCOMNAME: SHORT SEDGE
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WILDCAT MOUNTAIN	4110366	20	20

LAT: 414240N
LONG: 1034034W
TOWNRANGE: 020N055W SECTION: 17
TFRNOTE: NE4NE4.

DIRECTIONS: CANYON RUNNING N FROM CAMPING AREA .25 MI(?) - DRAW S OF PUMP HOUSE.

PHYS PROV: HP WATERSHED: 10180009
ELEV: 4400
LAST OBS: 1996-05-31
RODATA: 1996-05-31 POP AREA 1 ACRE+, 100+ INDIVIDUALS IN FLOWER,
FAIRLY COMMON HERE BUT VERY EASY TO OVERLOOK, MAY BE
THROUGHOUT THE WILDCATS, AT LEAST LOCALLY.

TERDESC: STEEP, ERODING SLOPES OF PINE-WOODED CANYONS WHERE SOIL HAS
FORMED OVER THE ROCK.

COMMENTS: DISTURBANCE OR THREATS: EROSION-PROBABLY TOO MUCH SEDGE TO
ENDANGER POPULATION.

BESTSOURCE: ROLFSMEIER, STEVEN B (12183). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12183). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CAREX ROSSII

LOCODE: PMCYP03BN0*017*NE
SNAME: CAREX ROSSII
SCOMNAME: SHORT SEDGE
URVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WILDCAT MOUNTAIN	4110366	20	20

LAT: 414240N

LONG: 1034034W

OWNRANGE: 020N055W SECTION: 17

RSNOTE: NE4NE4.

DIRECTIONS: CANYON RUNNING N FROM CAMPING AREA .25 MI(?) -DRAW S OF PUMP HOUSE.

PHYS PROV: HP WATERSHED: 10180009

LEV: 4400

LASTOBS: 1996-05-31

EODATA: 1996-05-31 POP AREA 1 ACRE+, 100+ INDIVIDUALS IN FLOWER,
FAIRLY COMMON HERE BUT VERY EASY TO OVERLOOK, MAY BE
THROUGHOUT THE WILDCATS, AT LEAST LOCALLY.

TENDESC: STEEP, ERODING SLOPES OF PINE-WOODED CANYONS WHERE SOIL HAS
FORMED OVER THE ROCK.

COMMENTS: DISTURBANCE OR THREATS: EROSION-PROBABLY TOO MUCH SEDGE TO
ENDANGER POPULATION.

BESTSOURCE: ROLFSMEIER, STEVEN B (12183). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12183). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CAREX ROSSII

LOCODE: PMCYP03BN0*011*NE
SNAME: CAREX ROSSII
SCOMNAME: SHORT SEDGE
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ROUBADEAU PASS	4110377	17	17

LAT: 414514N
LONG: 1034906W
TOWNRANGE: 021N056W SECTION: 33
TOWNSHIP: NW4NE4.

DIRECTIONS: UPPER END OF NARROW CANYON .5 MI SE OF RADIO TOWERS.

PHYSPROV: HP WATERSHED: 10180009
ELEV: 4800
LASTOBS: 1996-05-31
EODATA: 1996-05-31 POP. AREA 20 SQUARE METERS, 10+ INDIVIDUALS IN
FRUIT, VERY INCONSPICUOUS, SCATTERED.

GENDESC: SPARSELY-VEGETATED JUNIPER-PINE SLOPES ON UPPER ENDS OF DEEP
PINE CANYONS.

COMMENTS:

SOURCE: ROLFSMEIER, STEVEN B (12194). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12194). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CAREX ROSSII

EOCODE: PMCYP03BN0*009*NE
SNAME: CAREX ROSSII
SCOMNAME: SHORT SEDGE
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

QUAD MARG DOT
QUADNAME: CODE: NUM: NUM:
ROUBADEAU PASS 4110377 12 12

LAT: 414527N

LONG: 1034945W

TOWNRANGE: 021N056W SECTION: 29

TRSNOTE: SE4.

DIRECTIONS: UPPER END OF CARTER CANYON, E OF RADIO TOWERS.

PHYSPROV: HP WATERSHED: 10180012

ELEV: 4890

LASTOBS: 1996-05-31

EODATA: 1996-05-31 CA 100 INDIVIDUALS IN YOUNG FRUIT-ONE LOCAL
POPULATION SEEN, DOUBTLESSLY SCATTERED ELSEWHERE (SEEN IN
SCATTERED PLACES DOWN CANYON) BUT MOSTLY IN UPPER END.

GENDESC: DISTURBED ERODING LOWER CANYON WALLS IN PINE DRAWS.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVEN B (12184). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12184). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CAREX ROSSII

OCODE: PMCYP03BN0*010*NE
SNAME: CAREX ROSSII
COMNAME: SHORT SEDGE
URVEYSITE: BUFFALO CREEK

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
RIGHT GAP	4110365	18	16

LAT: 414057N
LONG: 1033433W
OWNRANGE: 020N054W SECTION: 29
TRSNOTE: NW4.

DIRECTIONS: W BRANCH OF DEEP PINE CANYON .25 MI S OF SE WINDMILL.

PHYS PROV: HP WATERSHED: 10180013
LEV: 4260
ASTOBS: 1996-06-01
EODATA: 1996-06-01 POP. AREA LESS THAN 1 METER SQUARE, 1 INDIVIDUAL
IN FRUIT, BUT LIKELY MORE PRESENT UP CANYON.

GENDESC: OPENING IN JUNIPER-WOODED LOWER CANYON SLOPE.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVEN B (12209). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12209). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHEILANTHES FEEI

LOCODE: PPADI09080*005*NE
SNAME: CHEILANTHES FEEI
SCOMNAME: FEE'S LIPFERN
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
BOUBADEAU PASS 4110377 13 13

LAT: 414530N
LONG: 1034930W

OWNRANGE: 021N056W SECTION: 28
TFRSNOTE: SW4.

DIRECTIONS: CA 100+ FT UP CANYON BRANCH, E OF JUNCTION, ROCKY OUTCROP ON
S SIDE OF STREAM, [CA .25 MI E OF RADIO TOWERS].

HYS PROV: HP WATERSHED: 10180009
LEV: 4800

LASTOBS: 1996-05-31
FODATA: 1996-05-31 POP. AREA 10 SQUARE METERS, 36 INDIVIDUALS (+
SEVERAL DEAD), VERY LOCAL ON UPPER HALF OF VERTICAL-
IRREGULAR OUTCROP, NOT SEEN ON OTHER OUTCROPS. SOME WITH
ONLY 1 OR 2 LIVING LEAVES, 7 MORE ON NE SIDE OF LIMESTONE
OUTCROP CA 100 FT DOWNSTREAM.

GENDESC: VERTICAL IRREGULAR ROCKY FACE CA 2 M TALL ON S-SIDE OF
STREAM IN CANYON BRANCH.

COMMENTS: OUTCROP IS NEXT TO WELL-TRAVALED COW PATH-FERNS SEEM SAFE.

ESTSOURCE: ROLFSMEIER, STEVEN B (12191). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12191). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHENOPODIUM SUBGLABRUM

LOCODE: PDCHE091G0*014*NE
SNAME: CHENOPODIUM SUBGLABRUM
COMNAME: SMOOTH GOOSEFOOT
SURVEYSITE: 5-BUMPS SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ICGREW	4110364	23	23

LAT: 414425N

LONG: 1032810W

TOWNRANGE: 020N053W SECTION: 06

TRSNOTE: NE4NE4.

DIRECTIONS: LARGE DEPRESSION SURROUNDED BY BLOWOUT CA 200 M N OF N FACE
OF CASTLE ROCK.

HYS PROV: HP WATERSHED: 10180009
LEV: 4020

LASTOBS: 1996-07-19

MODATA: 1996-07-19 POP. AREA .25 AC, 100-200 INDIVIDUALS MOST
MATURING AND DROPPING FRUIT.

GENDESC: BLOWOUTS AND AREAS OF LOOSE SAND ON CRESTS AND SLOPES OF
SAND SAGE PRAIRIE DUNES.

COMMENTS: THRIVES ON DISTURBANCE, BUT MANY PLANTS BROWSED.

ESTSOURCE: ROLFSMEIER, STEVEN B (12632). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12632). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOTHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*009*NE
SNAME: CHRYSOTHAMNUS PARRYI SSP HOWARDII
COMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ICREW	4110364	10	10

LAT: 414333N

LONG: 1032909W

OWNRANGE: 020N054W SECTION: 12

TRSNOTE: NE4.

DIRECTIONS: E SIDE OF COYOTE ROCK. 1 MI NW OF ROBERT'S HOUSE.

PHYSPROV: HP WATERSHED: 10180009

LEV: 4400

ASTOBS: 1996-05-22

EODATA: 1996-05-22 POP. AREA CA 2 AC. 100+ INDIVIDUALS,
PREFLOWERING, WIDELY SCATTERED AND FREQUENT ON ROCKS.

GENDESC: IRREGULAR ROCKY SILTSTONE OUTCROPS ATOP E SIDE COYOTE ROCK.

COMMENTS: IDENTIFICATION PROBLEM: NEED TO CHECK ID WHEN IN FLOWER-OK
SPECIMEN # 12637. [AREA BORDERED IN YELLOW].

ESTSOURCE: ROLF SMIER, STEVEN B. (12120). 1996. SPECIMEN #12637. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLF SMIER, STEVEN B. (12120). 1996. SPECIMEN #12637. UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*011*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
COMNAME: HOWARD RABBIT BRUSH
URVEYSITE: HORN-SITE

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
CGREW	4110364	14	14

LAT: 414033N
LONG: 1032342W
OWNRANGE: 020N053W SECTION: 26
TRSNOTE: NW4SE4.

DIRECTIONS: UPPER MIDDLE SLOPES OF SILTSTONE/BADLANDS OUTCROP ON N END
OF RIDGE, 0.5 MI ENE ABANDONED HOUSE.

HYS PROV: HP WATERSHED: 10180009
LEV: 4200
LAST OBS: 1996-07-16
PODATA: 1996-07-16 POP. AREA 1-2 AC, 50-100 INDIVIDUALS, IN LEAF
STAGE SCATTERED BUT NOT OVER ENTIRE BLUFF.

GENDESC: MODERATELY STEEP SILTSTONE OUTCROP SLOPES ON UPPER-MIDDLE
SLOPES.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12599A). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12599A). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*016*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
URVEYSITE: HORN-SITE

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
CGREW	4110364	24	24

LAT: 413940N

LONG: 1032423W

OWNRANGE: 020N053W SECTION: 34

RSNOTE: E2.

DIRECTIONS: TOP OF LARGE, FLAT ROCK OUTCROP ON N END OF RIDGE (S PART OF OUTCROP).

THYSPROV: HP WATERSHED: 10180009

LEV: 4200

LASTOBS: 1996-07-16

FOODATA: 1996-07-16 POP. AREA 0.5 AC, 10-20 INDIVIDUALS ALL
PRE-FLOWERING, WIDELY SCATTERED.

GENDESC: IRREGULAR SLOPES, TOP OF ROCKY SANDSTONE OUTCROP OFTEN ON
VERY PRECARIOUS, STEEP SLOPES, SANDSTONE WITH NO SOIL
DEVELOPMENT.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVEN B (12602A). 1996. SPECIMEN #----.UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12602A). 1996. SPECIMEN #----.UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*010*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
URVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

QUAD MARG DOT
QUADNAME: CODE: NUM: NUM:
CGREW 4110364 12 12

LAT: 414403N
LONG: 1032855W

OWNRANGE: 020N053W SECTION: 6
LRSNOTE: NW4SW4.

DIRECTIONS: N END OF TABLE ROCK-SILTSTONE OUTCROPS AND BADLANDS.

PHYSPROV: HP WATERSHED: 10180009
ELEV: 4200

ASTOBS: 1996-07-19
EODATA: 1996-07-19 POP. AREA 10-15 AC, 300-500 INDIVIDUALS ALL
PRE-FLOWERING, SCATTERED OVER ROCK, A FEW STARTING TO
FLOWER.

GENDESC: SILTSTONE OUTCROPS AND ERODED BADLANDS SPARSELY VEGETATED.

COMMENTS: [AREA BORDERED IN YELLOW]. LOMATIUM NUTTALLII NEARBY.

PESTSOURCE: ROLFSMEIER, STEVEN B (12629). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12629). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*013*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
URVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
CGREW 4110364 20 20

LAT: 414305N

LONG: 1032915W

OWNRANGE: 020N054W SECTION: 12

RSNOTE: SE4.

DIRECTIONS: BADLANDS ON E END OF ROUNDTOP.

PHYS PROV: HP WATERSHED: 10180009

ELEV: 4400

ASTOBS: 1996-07-19

MODATA: 1996-07-19 POP. AREA 2-3 AC, CA 200-300 INDIVIDUALS IN LEAF
AND BUD SCATTERED ON SILTSTONE.

LENDESC: IRREGULAR ERODING SILTSTONE OUTCROP, SPARSELY VEGETATED.
MOSTLY ON BARE SILTSTONE W/ LITTLE SOIL DEVELOPMENT.

COMMENTS:

PESTSOURCE: ROLFSMEIER, STEVEN B (12639). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12639). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOTHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*014*NE
SNAME: CHRYSOTHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
MCGREW	4110364	22	22

LAT: 414447N
LONG: 1032913W
OWNRANGE: 020N054W SECTION: 01
RSNOTE: SE4.

DIRECTIONS: BADLANDS SLOPES BELOW N END OF STEAMBOAT ROCK.

PHYSPROV: HP WATERSHED: 10180009
ELEV: 4314
ASTOBS: 1996-07-19
EODATA: 1996-07-19 POP. AREA 4-5 AC, 10000+ INDIVIDUALS IN LEAF
STAGE, QUITE COMMON AT SITE.

LENDESC: ERODING SILTSTONE BLUFFS AND BADLANDS ON N SIDE OF STEAMBOAT
ROCK. MOSTLY ON BARE SILTSTONE W/ LITTLE SOIL DEVELOPMENT.

COMMENTS: NO SPECIMEN COLLECTED.

PESTSOURCE: ROLFSMEIER, STEVEN B. 1996. SURVEY OF THE 1996 WILDCAT HILLS
PROJECT.

SOURCECODE: R96ROL01NEUS

PECIMENS:

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*012*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
COMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ICGREW	4110364	18	17

LAT: 414420N

LONG: 1032816W

OWNRANGE: 020N053W SECTION: 6

TRSNOTE: NE4.

DIRECTIONS: SILTSTONE SLOPES OF CASTLE ROCK. MOSTLY ON THE LEFT SIDE.

PHYSPROV: HP WATERSHED: 10180009

LEV: 4474

ASTOBS: 1996-07-19

EODATA: 1996-07-19 POP. AREA 15-20 AC, 10000+ INDIVIDUALS IN LEAF.

ENDESC: IRREGULAR ERODED SILTSTONE ON SLOPES AND AT BASE OF CASTLE ROCK.

COMMENTS: [AREA BORDERED IN YELLOW]. NO SPECIMEN COLLECTED.

BESTSOURCE: ROLFSMEIER, STEVEN B., AND M. CLAUSEN. 1995-1996. SURVEY OF THE WILDCAT HILLS PROJECT.

SOURCECODE: R96ROL01NEUS

SPECIMENS:

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*008*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: CHIMNEY ROCK HS-CHIMNEY ROCK

COUNTY NAME: Morrill

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SOUTH BAYARD	4110363	28	01

LAT: 414213N
LONG: 1032052W
TOWNRANGE: 020N052W SECTION: 17
LRSNOTE: SW4.

DIRECTIONS: N FACE OF CHIMNEY ROCK.

PHYS PROV: HP WATERSHED: 10180009
ELEV: 3900
LAST OBS: 1996-08-13
EODATA: 1996-08-23 POP. AREA 3-5 AC, 50-100 INDIVIDUALS IN BUD AND
FLOWER, SCATTERED. MOSTLY IN BUD STAGE.

LENDISC: STEEP IRREGULAR SILTSTONE SLOPES.

COMMENTS: STEEP IRREGULAR SILTSTONE SLOPES.

BESTSOURCE: ROLFSMEIER, STEVEN B (12690). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12690). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOTHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*015*NE
SNAME: CHRYSOTHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
WILDCAT MOUNTAIN 4110366 19 19

LAT: 414250N
LONG: 1034023W
OWNRANGE: 020N055W SECTION: 09
LRSNOTE: SW4.

DIRECTIONS: N END OF RIDGE (W SIDE) N FROM PICNIC TABLE ON E SIDE OF
SRA.

PHYS PROV: HP WATERSHED: 10180009
LEV: 4400
LASTOBS: 1996-08-13
EODATA: 1996-08-13 POP. AREA 250 SQUARE METERS, 20-30 INDIVIDUALS
MOSTLY IN BUD, SCATTERED BUT FAIRLY LOCAL.

GENDESC: IRREGULAR, ROCKY UPPER SLOPES OF RIDGES, SPARSELY VEGETATED
WITH SCATTERED CERCOCARPUS MONTANUS.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12695). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12695). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*017*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
URVEYSITE: BUFFALO CREEK WMA-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
RIGHT GAP	4110365	20	20

LAT: 454201N
LONG: 1034547W
OWNRANGE: 020N054W SECTION: 18
LRSNOTE: SW4.

DIRECTIONS: TOP OF ROCKY BLUFF NW OF IMPOUNDMENT AT BUFFALO CREEK WMA.

PHYS PROV: HP WATERSHED: 10180009
ELEV: 4300
ASTOBS: 1996-08-13
EODATA: 1996-08-13 POP. AREA 1500 SQUARE METERS, CA 20 INDIVIDUALS
MOSTLY IN BUD, A FEW BEGINNING TO FLOWER.

GENDESC: IRREGULAR ROCKY SUMMITS OF SANDSTONE BLUFFS. SPARSELY
VEGETATED, SPARSELY WOODED WITH STUNTED PINES.

COMMENTS:

PESTSOURCE: ROLFSMEIER, STEVEN B (12691). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12691). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

LOCODE: PDAST2C094*007*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
SCOMNAME: HOWARD RABBIT BRUSH
SURVEYSITE: CHIMNEY ROCK HS

COUNTY NAME: Morrill

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SOUTH BAYARD	4110363	24	23

LAT: 414152N

LONG: 1032043W

TOWNRANGE: 020N052W SECTION: 17

RSNOTE: SW4.

DIRECTIONS: SILTSTONE OUTCROP S OF CHIMNEY ROCK .25 MI W OF CHIMNEY ROCK CEMETERY.

PHYS PROV: HP WATERSHED: 10180009

LEV: 3900

LASTOBS: 1996-08-13

EODATA: 1996-08-13 POP AREA 1-2 AC, 50-100 INDIVIDUALS SCATTERED ON UPPER SLOPES MOSTLY IN FLOWER OR BUD, SOME APPARENTLY WITH FRUIT.

ENDESC: STEEP ERODING SILTSTONE BLUFF, SPARSELY VEGETATED WITH SCATTERED SHRUBS AND DICOT HERBS.

COMMENTS: [SE CORNER OF CHIMNEY ROCK HISTORICAL SITE].

BESTSOURCE: ROLFSMEIER, STEVEN B (12685). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12685). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
CORALLORRHIZA MACULATA

LOCODE: PMORCOM010*013*NE
SNAME: CORALLORRHIZA MACULATA
SCOMNAME: SPOTTED CORALROOT
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WILDCAT MOUNTAIN	4110366	21	20

LAT: 414240N

LONG: 1034034W

OWNRANGE: 020N055W SECTION: 17

RSNOTE: NE4NE4.

DIRECTIONS: CANYON BOTTOM-BEGINNING ABOUT 50 M DOWN FROM PUMP HOUSE AND
CONTINUING TO WHERE EQUISETUM HYEMALE BECOMES COMMON-ALSO
TRAIL GOING DOWNSLOPE TO PUMP HOUSE.

HYS PROV: HP WATERSHED: 10180009

ELEV: 4400

LAST OBS: 1996-05-31

ODATA: 1996-05-31 POP. AREA 500 SQUARE METERS, 14 SEEN (NO DOUBT
MORE HERE), MOST CLUMPS WITH AT LEAST ONE STALK W/ FLOWERS,
POPULATION SCATTERED ON LOW SLOPES AND BOTTOM-MUCH DEBRIS ON
LOW SLOPE MAKES MANY OF THE CLUMPS HARD TO SEE.

GENDESC: LOW SLOPES AND BOTTOM OF BROAD CANYON, JUST ABOVE POINT WERE
IT BECOMES WET (SPRING)

COMMENTS: DISTURBANCES: SOME CANADA THISTLE IN AREA-APPARENTLY LOTS OF
TRAFFIC BY VISITORS WHO CARVE THEIR NAMES IN ROCKS IN PART
OF CANYON, THOUGH MOST ORCHIDS ARE WELL HIDDEN ENOUGH THEY
ARE LIKELY SAFE. [THERE IS ALSO AN OCCURENCE N OF THIS ONE].

ESTSOURCE: ROLFSMEIER, STEVEN B (12185). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12185). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CORALLORRHIZA MACULATA

LOCODE: PMORCOM010*012*NE
SNAME: CORALLORRHIZA MACULATA
SCOMNAME: SPOTTED CORALROOT
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
WILDCAT MOUNTAIN CODE: NUM: NUM:
4110366 17 17

LAT: 414245N

LONG: 1034024W

OWNRANGE: 020N055W SECTION: 9

RSNOTE: SW4.

DIRECTIONS: BOTTOM OF CANYON STARTING BELOW STONE PICNIC SHELTER ON E
SIDE OF SRA-CA 20 M UPSTREAM FROM WHERE BOTTOM GETS MESIC.

PHYS PROV: HP WATERSHED: 10180009

LEV: 4400

LASTOBS: 1996-05-28

RODATA: 1996-05-28 POP. AREA 100 SQUARE METERS, 10-20 CLUMPS IN BUD,
SOME NEARLY IN FLOWER, SOME BARELY EMERGENT FROM SHEATHS TWO
SMALL POPULATIONS. CA 10 M APART, MULTI-STEMMED CLUMPS AND
NEAR WET AREA AND SCATTERED DOWNSTREAM.

ENDESC: CANYON BOTTOM UNDER LARGE JUNIPERUS SCAPULARUM, SPARSLEY
VEGETATED, W SIDE OF STREAMBED, SOME LARGE ACER NEGUNDO IN
VINCINIY.

COMMENTS: IDENTIFICATION PROBLEMS STILL IN BUD BUT LIKLY THIS SPECIES.
(DEFINITELY O.K.-ROLFSMEIER).

ESTSOURCE: ROLFSMEIER, STEVEN B (12152). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12152). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
DELPHINIUM NUTTALLIANUM

OCODE: PDRAN0B170*015*NE
SNAME: DELPHINIUM NUTTALLIANUM
SCOMNAME: NUTTALL LARKSPUR
URVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
POBADEAUX PASS	4110377	15	15

LAT: 414549N
LONG: 1034940W
OWNRANGE: 021N056W SECTION: 28
RSNOTE: S2NW4.

DIRECTIONS: CARTER CANON CA .75 MI E OF SUMMIT RANCH HOUSE. [S OF CARTER CANYON RD].

PHYS PROV: HP WATERSHED: 10180009

LEV: 4600

LAST OBS: 1996-05-22

EO DATA: 1996-05-22 100 OR MORE INDIVIDUALS SCATTERED, MOSTLY IN FLOWER OR EARLY FLOWER VERY WIDESPREAD IN CANYON. SOMETIMES IN OPEN, OFTEN AMONG SHRUBS.

ENDESC: GENTLE SLOPES OF OPEN-DECIDUOUS WOODS IN PINE WOODED CANYON BOTTOM TERRACE ABOVE STREAM.

COMMENTS: SURVEYORS STEVEN ROLFSMEIER, T. HILDEBRAND AND GERRY STEINAUER. PHOTO TAKEN BY T. HILDEBRAND.

BESTSOURCE: ROLFSMEIER, STEVEN B (12114). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12114). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
DELPHINIUM NUTTALLIANUM

LOCODE: PDRAN0B170*016*NE
SNAME: DELPHINIUM NUTTALLIANUM
SCOMNAME: NUTTALL LARKSPUR
SURVEYSITE: BUFFALO CREEK

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WRIGHT GAP	4110365	15	15

LAT: 414148N
LONG: 1033607W

TOWNRANGE: 020N055W SECTION: 24
TOWNSHIP: NE4.

DIRECTIONS: PINE-WOODED DRAW S OF "WILDLIFE FOOD PLOT 5" SIGN W OF LAKE.

PHYSPROV: HP WATERSHED: 10180013

ELEV: 4340

ASTOBS: 1996-05-30

MODATA: 1996-05-30 POP. SIZE 200 SQUARE METERS, CA 12 INDIVIDUALS IN
FLOWER-A FEW PLANTS SEEN, VERY LOCAL, BUT SCATTERED IN AREA,
7 WERE SEEN AT THIS SITE, AND CA 5 MORE ON SCATTERED
N-SLOPES DOWNSTREAM.

TENDESC: ERODING S-FACING OPENING OF JUNIPER-PINE DRAW.

COMMENTS: MUCH EROSION FROM SLOPES ABOVE, LIKELY-IN PART-TO DEER
TRAFFIC.

BESTSOURCE: ROLFSMEIER, STEVEN B (12176). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12176). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
DELPHINIUM NUTTALLIANUM

LOCODE: PDRAN0B170*014*NE
SNAME: DELPHINIUM NUTTALLIANUM
SCOMNAME: NUTTALL LARKSPUR
URVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
POUBADEAU PASS	4110377	14	12

LAT: 414527N
LONG: 1034945W
OWNRANGE: 021N056W
021N056W SECTION: 29
28
RSNOTE: SE4.
SW4.

DIRECTIONS: UPPER END OF CARTER CANYON E OF RADIO TOWERS, DOWN TO BASE
OF CANYON.

PHYS PROV: HP WATERSHED: 10180012
LEV: 4890
LAST OBS: 1996-05-31
ECODATA: 1996-05-31 LARGE POPULATION, 1000+ INDIVIDUALS IN FULL
FLOWER, MANY DAMAGED BY HAILSTORM OF PREVIOUS EVENING, MOST
COMMON IN UPPER END OF CANYON, SCATTERED DOWNSTREAM.

GENDESC: STEEP, SOMEWHAT MESIC SLOPES, UPPER PART OF CARTER CANYON,
OFTEN WHERE AT LEAST PARTLY SUNNY, LESS COMMON IN MESIC
BOTTOMS.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVEN B (12187). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12187). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
DELPHINIUM NUTTALLIANUM

OCODE: PDRAN0B170*017*NE
SNAME: DELPHINIUM NUTTALLIANUM
SCOMNAME: NUTTALL LARKSPUR
URVEYSITE: BUFFALO CREEK

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
RIGHT GAP	4110365	16	16

LAT: 414057N
LONG: 1033433W
DOWNRANGE: 020N054W SECTION: 29
RSNOTE: NW4.

DIRECTIONS: UP W BRANCH OF DEEP PINE CANYON .25 MI S OF SE WINDMILL.

PHYS PROV: HP WATERSHED: 10180013
ELEV: 4260
ASTOBS: 1996-06-01
EODATA: 1996-06-01 POP. AREA 500 SQUARE METERS, 20-50 INDIVIDUALS IN
FLOWER AND FRUIT, HARD TO ESTIMATE AS MOST PLANTS WERE
HEAVILY HAIL-DAMAGED.

GENDESC: STEEP SEMI-OPEN PINE WOODED CANYON SLOPES.

COMMENTS:

TESTSOURCE: ROLFSMEIER, STEVEN B (12208). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12208). 1996. SPECIMEN #----UL.

NEBRASKA HERITAGE RARE PLANT SURVEY FORM

Project Name: Wildcat Hills Vegetation Sampling

Survey Date: 15 June, 1995

Survey Site: Buffalo Creek WMA

Source Code: R95HIL01NEUS

Surveyors: S. Rolfsmeier, G. Steinauer, T. Hildebrand

Quad Name: Wright Gap

Quad Code: 4110365

Field Margin #: 1

County: Scotts Bluff **T** 20 N **R** 54 W $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW **Section** 17

GPS Readings:

Directions to Site: Take road to Buffalo Creek WMA; park just north of drainage north of parking area; walk westerly to north facing badlands

Landowner: State of Nebraska

Owner Information:

Species Name: *Fritillaria atropurpurea*

Vernacular Name: Leopard lily

EI Code:

EO #:

EOR Form Completed: ☐ Yes ☐ No

Number of Individuals: 7

Population Area Size: 1 sq. meter

Plant Phenology: ☐ leaf

☐ bud

☒ flower

☒ fruit

☐ dormant

Population/Phenology Comments: Three mature plants; one with 3 flowers, other two with one flower; fruits just beginning to develop

Habitat/Landscape Description: Located on grassy knoll in-between badland drainages

Slope (%): 35

Aspect (°): 360

Light conditions: Open, full light

Slope position (e.g. upper, mid, lower): midslope

Slope shape (e.g. concave, convex, irregular et al.): irregular, steep

Soil taxon and description: Mitchell Silt Loam

Associated Species: *Thermopsis rhombifolia*, *Lomatium nuttallii*, *Zigadenus venenosus*, grasses

Disturbance or Threats: Erosion from slope

EO Rank:

☐ A

☒ AB

☐ B

☐ BC

☐ C

☐ CD

☐ D

Estimated Potential Habitat Size: < 1 acre

Specimen Collected:

☒ Yes

☐ No

Collection #: 2019

Museum: Private

Collector: T. Hildebrand

Photographs:

☒ Yes ☐ No

Identification Problems: None

BUFFALO CREEK WMA WILDCAT HILLS

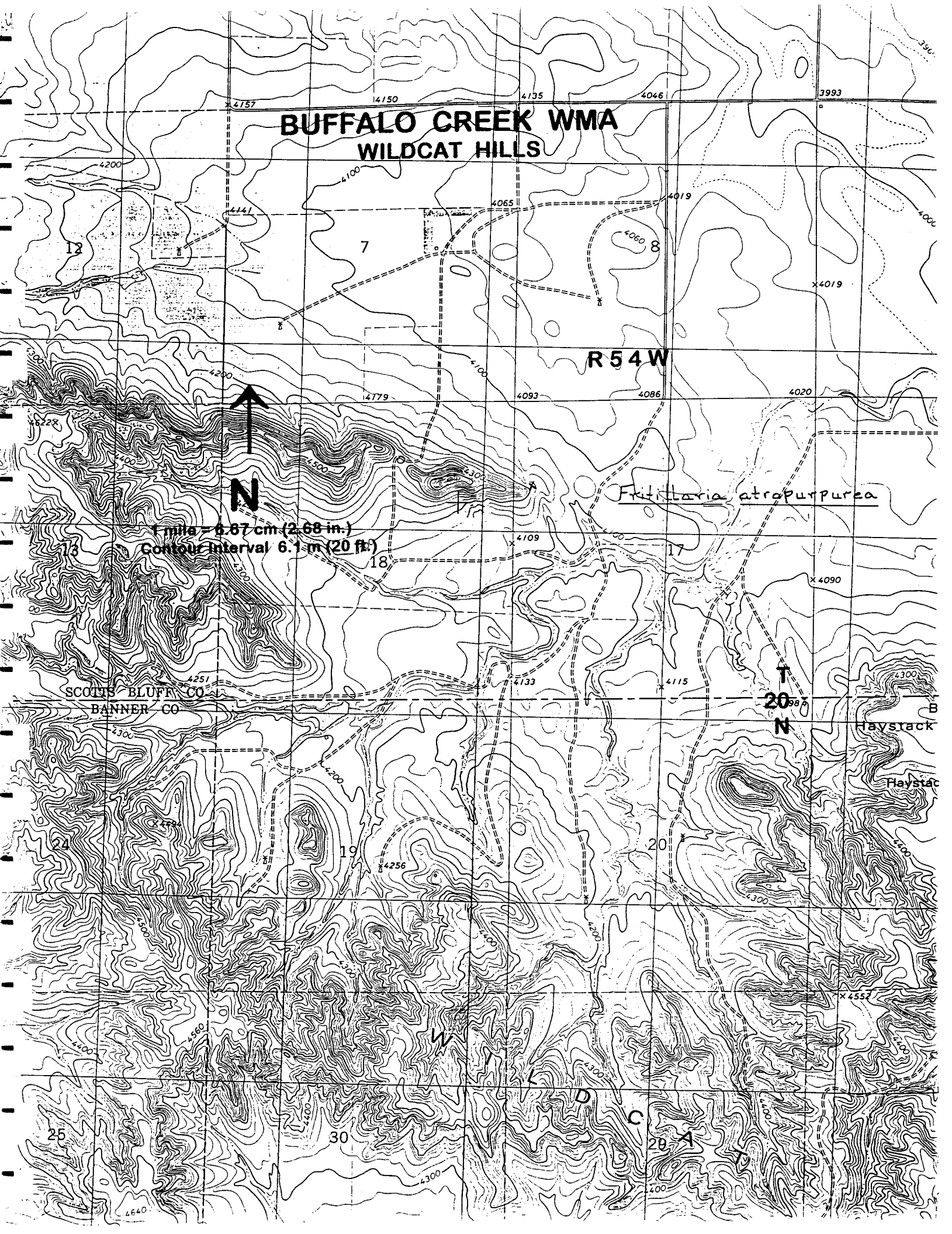
R 54 W

Fritillaria atropurpurea

1 mile = 6.87 cm (2.68 in.)
Contour Interval 6.1 m (20 ft.)

SCOTT'S BLUFF CO.
BANNER CO.

Haystack
Haystack



Wildcat Hills Element Occurrence Records
LEPTODACTYLON CAESPITOSUM

LOCODE: PDPLM08010*003*NE
SNAME: LEPTODACTYLON CAESPITOSUM
SCOMNAME: MATTED PRICKLY-PHLOX
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
WILDCAT MOUNTAIN 4110366 18 18

LAT: 414252N

LONG: 1034028W

OWNRANGE: 020N055W SECTION: 9

RSNOTE: SW4.

DIRECTIONS: FOLLOW TRAIL AT END OF ROAD ON E SIDE OF SRA N-WARD ACROSS
RIDGE TO ROCKY OUTCROPS ON N END.

HYSPROV: HP WATERSHED: 10180009

LEV: 4400

LASTOBS: 1996-05-28

FODATA: 1996-05-28 POPULATION AREA 150-200 SQUARE METERS, CA 50
INDIVIDUALS, ALL PLANTS COPIOUSLY FLOWERING.

GENDESC: VERY IRREGULAR ROCKY OUTCROP, INTERGRADING W/ CAREX-STIPA
PRAIRIE, AND CERCOCARPUS SHRUBLAND.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12154). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12154). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
LESQUERELLA ARENOSA VAR ARGILLOSA

OCODE: PDBRA1N042*016*NE
SNAME: LESQUERELLA ARENOSA VAR ARGILLOSA
COMNAME: SECUND BLADDERPOD
URVEYSITE: BUFFALO CREEK

COUNTY NAME: Banner

QUADNAME:	QUAD	MARG	DOT
RIGHT GAP	CODE:	NUM:	NUM:
	4110365	19	19

LAT: 414131N

LONG: 1043442W

OWNRANGE: 020N054W SECTION: 20

RSNOTE: SW4NW4.

DIRECTIONS: E SIDE OF LOW SILTSTONE HILL, W OF ROAD, S FROM PARKING LOT
.75 MI.

HYS PROV: HP WATERSHED: 10180013

LEV: 4200

LASTOBS: 1996-07-18

RODATA: 1996-07-18 POP. AREA .25AC, CA 500 INDIVIDUALS ALL WELL PAST
FRUIT, COMMON OVER MUCH OF OUTCROP.

GENDESC: IRREGULAR, ERODING SILTSTONE OUTCROPS.

OMMENTS: CAN NOT JUDGE RANK, SOME QUESTIONS ABOUT I.D.

BESTSOURCE: ROLFSMEIER, STEVEN B (12626A). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12626A). 1996. SPECIMEN #----. UL.

NEBRASKA HERITAGE RARE PLANT SURVEY FORM

Project Name: Wildcat Hills Vegetation Sampling

Survey Date: 15 June, 1995

Survey Site: Buffalo Creek WMA

Source Code: R95HIL01NEUS

Surveyors: S. Rolfsmeier, G. Steinauer, T. Hildebrand

Quad Name: Wright Gap

Quad Code: 4110365

Field Margin #: 1

County: Scotts Bluff T 20N R54W ¼ nw ¼ SW ¼ NW Section 17

GPS Readings:

Directions to Site: Take road to Buffalo Creek WMA; park just north of drainage north of parking area; walk westerly to north facing badlands

Landowner: State of Nebraska

Owner Information:

Species Name: *Lomatium nuttallii*

Vernacular Name: Dog parsley

El Code:

EO #:

EOR Form Completed: ☐ Yes ☐ No

Number of Individuals: 100+

Population Area Size: 100 sq. meters - 1 hectare

Plant Phenology: ☐ leaf ☐ bud ☐ flower ☒ fruit ☐ dormant

Population/Phenology Comments: Probably over 100 individuals scattered throughout badland slopes

Habitat/Landscape Description: Steep, irregular badlands with isolated grassy patches

Slope (%): 35

Aspect (°): 360

Light conditions: Open, full light

Slope position (e.g. upper, mid, lower): mid and lower slope

Slope shape (e.g. concave, convex, irregular et al.): irregular

Soil taxon and description: Mitchell Silt Loam

Associated Species: *Eriogonum pauciflorum*, *Zigadenus venenosus*, *Cryptantha cana*, *Hymenoxys scaposa*

Disturbance or Threats: Erosion

EO Rank: ☐ A ☒ AB ☐ B ☐ BC ☐ C ☐ CD ☐ D

Estimated Potential Habitat Size: Several acres

Specimen Collected: ☒ Yes ☐ No

Collection #: 11650

Museum:

Collector: S. Rolfsmeier

Photographs: ☒ Yes ☐ No

Identification Problems: None

BUFFALO CREEK WMA WILDCAT HILLS

R 54 W

Lomatium nuttallii

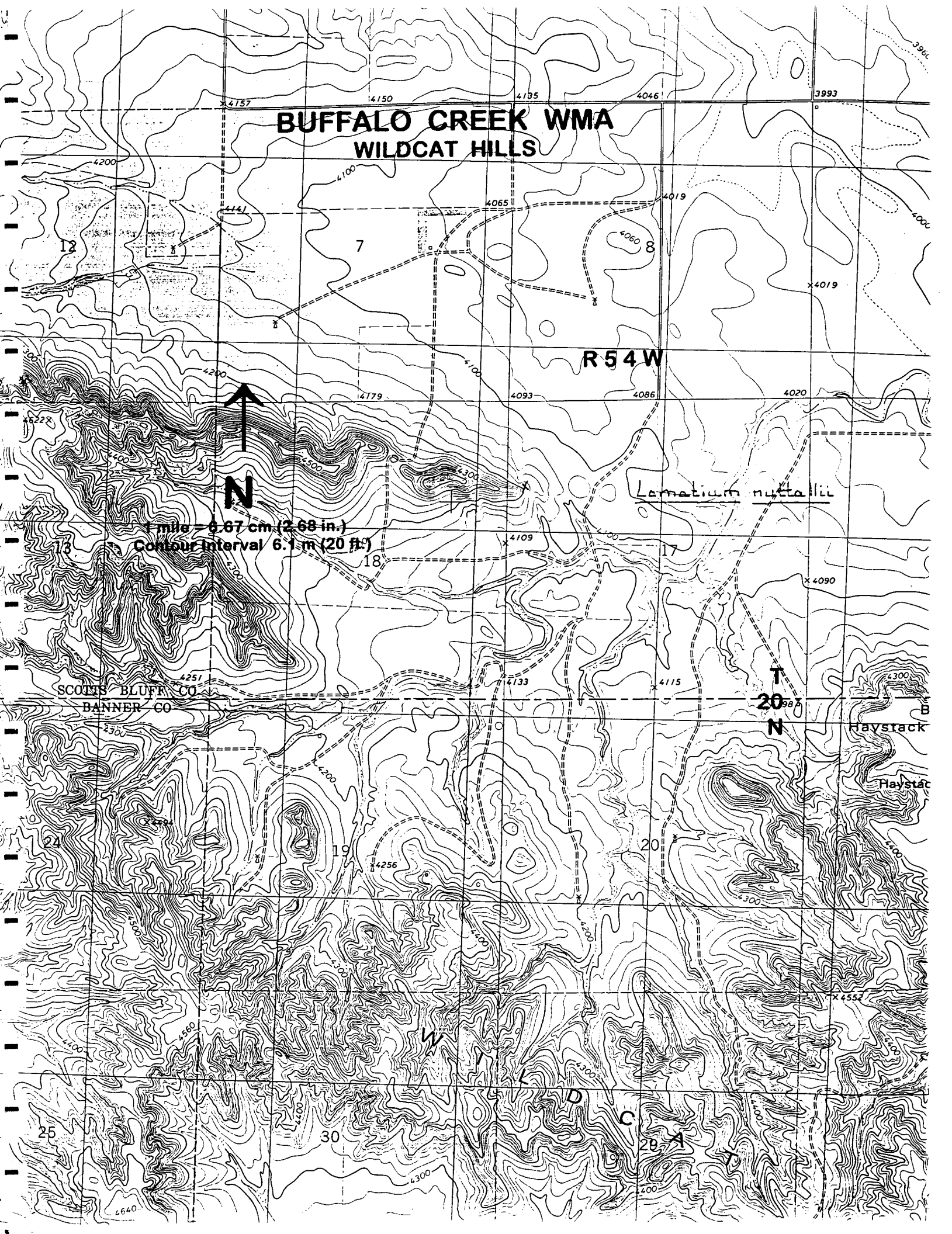
1 mile = 6.67 cm (2.68 in.)
Contour Interval 6.1 m (20 ft)

SCOTT'S BLUFF CO
BANNER CO

T
20
N

Haystack

Haystack



Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAP11B1B0*007*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WICGREW	4110364	21	20

LAT: 414305N
LONG: 1032915W
TOWNRANGE: 020N054W SECTION: 12
RANGE: SE4.

DIRECTIONS: BADLANDS ON E END OF ROUNDTOP.

PHYSPROV: HP WATERSHED: 10180009
ELEV: 4400

ASTOBS: 1996-07-19
EODATA: 1996-07-19 POP AREA 1 AC, 200-300 INDIVIDUALS ALL POST
FRUITING SCATTERED AND NOT AS COMMON AS ON ROCKS TO N.

GENDESC: IRREGULAR ERODING SILTSTONE SLOPES, SPARSELY VEGETATED.

COMMENTS: SOMEWHAT ACCESSIBLE TO CATTLE-BUT NOT EVIDENTLY BROWSED AT
SITE.

TESTSOURCE: ROLFSMEIER, STEVEN B. (12638). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B. (12638). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAP11B1B0*006*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: 5-BUMPS

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
MCGREW	4110364	19	17

LAT: 414420N

LONG: 1032816W

TOWNRANGE: 020N053W SECTION: 6

RSNOTE: NE4.

DIRECTIONS: N FACE OF CASTLE ROCK.

PHYSPROV: HP WATERSHED: 10180009

ELEV: 4474

ASTOBS: 1996-07-19

MODATA: 1996-07-19 POP. AREA 10-20 AC, 10000+ INDIVIDUALS MOSTLY
PAST FRUITING.

ENDESC: SILTSTONE BADLAND SLOPES, SPARSELY VEGATATED.

COMMENTS: MOSTLY INACCESSIBLE TO CATTLE. [AREA BORDERED IN YELLOW].

BESTSOURCE: ROLFSMEIER, STEVEN B (12631). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12631). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAP11B1B0*005*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: 5-BUMPS

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ICGREW	4110364	13	12

LAT: 414403N

LONG: 1032855W

TOWNRANGE: 020N053W SECTION: 6

RSNOTE: NW4SW4.

DIRECTIONS: N EAST END OF TABLE ROCK-SLOPES OF ROCKS AND BADLAND DRAWS
BELOW.

PHYS PROV: HP WATERSHED: 10180009

LEV: 4200

LASTOBS: 1996-07-19

ECODATA: 1996-07-19 POP. AREA 10-15 AC, 1000+ INDIVIDUALS MOSTLY IN
LATE STAGE OF FRUITING, LOCALLY COMMON ON BADLANDS SLOPES.

GENDESC: ON SILTSTONE OUTCROPS AND ERODED BADLANDS BELOW.

COMMENTS: [AREA BORDERED IN YELLOW]. CHRYSOTHAMNUS PARRYII NEARBY.

TESTSOURCE: ROLFSMEIER, STEVEN B (12628). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12628). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAP11B1B0*004*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: 5 BUMPS-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
MCGREW	4110364	11	10

LAT: 414333N
LONG: 1032909W

OWNRANGE: 020N054W SECTION: 12
ARSNOTE: NE4.

DIRECTIONS: E SIDE OF COYOTE ROCK CA 1 M NW OF ROBERT'S HOUSE.

PHYSPROV: HP WATERSHED: 10180009

ELEV: 4400

ASTOBS: 1996-05-22

EODATA: 1996-05-22 POP AREA 2000 SQUARE METERS, 30-50+ INDIVIDUALS
MANY NON-FLOWERING, A FEW IN FLOWER, SCATTERED AMONG ROCKS.

GENDESC: IRREGULAR, ERODING N-FACING SILTSTONE SLOPE AND ATOP ROCKS.

COMMENTS: NOT REALLY COMMON. [AREA BORDERED IN YELLOW].

BESTSOURCE: ROLFSMEIER, STEVEN B (12119). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12119). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
PLATANThERA HYPERBOREA

JO CODE: PMORC1Y0B0*032*NE
SNAME: PLATANThERA HYPERBOREA
SCOMNAME: NORTHERN GREEN ORCHID
SURVEYSITE: WILDCAT HILLS SRA-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
WILDCAT MOUNTAIN	4110366	23	23

LAT: 414252N
LONG: 1034040W
TOWNRANGE: 020N055W SECTION: 8
TOWNSHIP: SE4SE4.

DIRECTIONS: DOWN CANYON FROM PUMPHOUSE CA .25 MILES. WILDCAT HILLS SRA.

PHYS PROV: HP WATERSHED: 10180009
ELEV: 4400
LAST OBS: 1996-07-18
EODATA: 1996-07-18 POP. AREA 4 SQUARE METERS, 25 INDIVIDUALS, 10 IN
FLOWER, 15 ROSETTES COUNTED, APPARENTLY VERY LOCAL + 2 MORE
SEEN DOWNSTREAM IN FLOWER.

GENDESC: MESIC MEADOWS ALONG CANYON BOTTOM STREAM, S SIDE OF CLEARING
WHERE CANYON BOTTOM BEGINS TO WIDEN.

COMMENTS: DISTURBANCES: EROSION UPSTREAM IN CANYON COULD EVENTUALLY
THREATEN POPULATION. [ANOTHER OCCURRENCE IS LOCATED N OF
THIS ONE].

BESTSOURCE: ROLFSMEIER, STEVEN B (12625). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12625). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
PLATANThERA HYPERBOREA

LOCODE: PMORC1Y0B0*031*NE
SNAME: PLATANThERA HYPERBOREA
SCOMNAME: NORTHERN GREEN ORCHID
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
ROUBADEAU PASS 4110377 11 09

LAT: 414530N
LONG: 1034905W

TOWNRANGE: 021N056W SECTION: 28
TRSNOTE: SW4SE4.

DIRECTIONS: UP E FORK OF CANYON S FROM CARTER CANYON RANCH JUST ABOVE
WATERFALL.

PHYS PROV: HP WATERSHED: 10180009

LEV: 4500

LASTOBS: 1996-07-20

EODATA: 1996-07-20 POP. AREA 50 SQUARE METERS, 28 INDIVIDUALS-18 IN
FLOWER, 10 BASAL ROSSETTES COUNTED, MORE LIKELY.

GENDESC: NARROW PINE WOODED CANYON BOTTOM ALONG NARROW STREAM ABOVE
WATERFALL.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12649). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12649). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
POA INTERIOR

LOCODE: PMPOA4Z170*009*NE
SNAME: POA INTERIOR
SCOMNAME: INLAND BLUEGRASS
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ROUBADEAU PASS	4110377	10	10

LAT: 414531N
LONG: 1034941W
TOWNRANGE: 021N056W SECTION: 28
LRSNOTE: W2.

DIRECTIONS: FIRST PINE CANYON E OF RADIO TOWERS, W PART OF CANYON JUST E
OF ENLOW PROPERTY LINE (JUST BEFORE CLIFF).

PHYS PROV: HP WATERSHED: 10190015
LEV: 4700
LAST OBS: 1996-07-20
EODATA: 1996-07-20 POP. AREA 20 SQUARE METERS, CA 10 INDIVIDUAL
LOCALLY COMMON, ALL IN FLOWER.

GENDESC: SHADED N-FACING STEEP JUNIPER PINE BANK IN UPPER END OF PINE
CANYON.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12641). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12641). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
POPULUS X ACUMINATA

LOCODE: PDSAL010E0*008*NE
SNAME: POPULUS X ACUMINATA
SCOMNAME: HYBRID
SURVEYSITE: KIOWA CREEK

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
STEGALL	4110378	04	04

LAT: 414618N
LONG: 1035230W
TOWNRANGE: 021N057W SECTION: 24
RANGE: SE4SW4.

DIRECTIONS: W SIDE OF KIOWA CREEK N OF FENCE.

PHYSPROV: HP WATERSHED: 10180012
ELEV: 4600
ASTOBS: 1996-05-29
EODATA: 1996-05-29 POP. AREA 1000 SQUARE METERS, 5-10 SEEN IN LEAF
AND FRUIT, A FEW TREES OF VARIOUS STAGES OF MATURITY, AT
LEAST ONE IN FRUIT.

GENDESC: MOIST STREAM BOTTOM, WEEDY.

COMMENTS:

PESTSOURCE: ROLFSMEIER, STEVEN B (12167). 1996. SPECIMEN #----UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12167). 1996. SPECIMEN #----UL.

Wildcat Hills Element Occurrence Records
POPULUS X ACUMINATA

LOCODE: PDSAL010E0*007*NE
SNAME: POPULUS X ACUMINATA
SCOMNAME: HYBRID
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
TOUBADEAU PASS	4110377	16	16

LAT: 414554N
LONG: 1034905W
TOWNRANGE: 021N056W
021N056W SECTION: 29
28
RSNOTE:

DIRECTIONS: BOTTOM OF CARTER CANYON ALONG ROAD NEAR BRIDGE, SCATTERED
FROM HERE DOWNSTREAM, ALSO AT LEAST ONE TREE .5 MI UPSTREAM.

PHYSPROV: HP WATERSHED: 10180009
LEV: 4500
LASTOBS: 1996-05-31
EODATA: 1996-05-31 POP. AREA SEVERAL ACRES, CA 10-20 INDIVIDUALS,
MANY IN FRUIT, MOSTLY CONCENTRATED IN LOWER PART OF CANYON
NEAR ROAD, NOT SEEN IN SIDE CANYONS.

GENDESC: WIDE, MOIST CANYON BOTTOM ALONG STREAM.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12195). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12195). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
PTEROSPORA ANDROMEDEA

DCODE: PDMON07010*014*NE
SNAME: PTEROSPORA ANDROMEDEA
COMNAME: GIANT PINEDROPS
SURVEYSITE: WILDCAT HILLS SRA SITE

COUNTY NAME: Scotts Bluff

QUAD MARG DOT
QUADNAME: CODE: NUM: NUM:
WILDCAT MOUNTAIN 4110366 22 20

LAT: 414240N

LONG: 1034034W

DWRANGE: 020N055W SECTION: 17

RSNOTE: NE4NE4.

DIRECTIONS: CANYON BOOTOM CA 65M DOWN FROM PUMPHOUSE-LEFT (W) SIDE OF
CANYON FLOOR, JUST N OF PILES OF CONCRETE DEBRIS.

HYSPROV: HP WATERSHED: 10180009

LEV: 4400

LASTOBS: 1996-05-31

FODATA: 1996-05-31 POP. AREA 1 SQUARE METER, 1 INDIVIDUAL, ON VERY
LARGE STEM FROM PREVIOUS YEAR SEEN, MORE SEEN SCATTERED
THROUGH DRAW IN JULY.

ENDESC: LOW SLOPE OF CANYON BOTTOM, DISTURBED.

COMMENTS: DISTURBANCES: EROSION, PEDESTRIAN TRAFFIC, DANGER NOT
TERRIBLY HIGH THOUGH. [THERE IS ALSO AN OCCURENCE N OF THIS
ONE].

BESTSOURCE: ROLFSMEIER, STEVEN B (12186). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12186). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
PTEROSPORA ANDROMEDEA

LOCODE: PDMON07010*015*NE
SNAME: PTEROSPORA ANDROMEDEA
SCOMNAME: GIANT PINEDROPS
SURVEYSITE: CARTER CANYON

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ROUBADEAU PASS	4110377	09	09

LAT: 414530N

LONG: 1034905W

TOWNRANGE: 021N056W SECTION: 28

TRSNOTE: SW4SE4.

DIRECTIONS: UP E FORK CANYON S FROM CARTER CANYON RANCH JUST ABOVE WATER
FALL. [S OF CARTER CANYON ROAD].

PHYS PROV: HP WATERSHED: 10180009

LEV: 4500

LAST OBS: 1996-07-20

FO DATA: 1996-07-20 POP. AREA .5 AC, 10 INDIVIDUALS- 3 CLUMPS, 6
STEMS SEEN (1 FROM LAST YEAR) ALL IN BUD, 7 MORE SEEN 20 M S
UPSLOPE-3 THIS YEAR 4 LAST.

GENDESC: NARROW PINE CANYON ON LOW SLOPES ABOVE SMALL STREAM ALSO
UPPER MIDDLE SLOPES-USUALLY WHERE SPARSELY VEGETATED.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVEN B (12650). 1996. SPECIMEN #---UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

PECIMENS: ROLFSMEIER, STEVEN B (12650). 1996. SPECIMEN #---UL.

Wildcat Hills Element Occurrence Records
STEPHANOMERIA RUNCINATA

OCODE: PDAST8U0C0*004*NE
SNAME: STEPHANOMERIA RUNCINATA
COMNAME: DESERT SKELETONPLANT
URVEYSITE: CHIMNEY ROCK HS

COUNTY NAME: Morrill

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
OUTH BAYARD	4110363	27	01

LAT: 414213N
LONG: 1032052W

OWNRANGE: 020N052W SECTION: 17
RSNOTE: SW4.

DIRECTIONS: ABOVE PRAIRIE SLOPES ON N FACE OF CHIMNEY ROCK.

PHYSPROV: HP WATERSHED: 10180009

LEV: 3900

ASTOBS: 1996-07-15

EODATA: 1996-07-15 POP. AREA 20 SQUARE METERS, 20-30 INDIVIDUALS,
SCATTERED BUT LOCAL-APPARENTLY MOSTLY IN LATE FLOWER.

GENDESC: VERY STEEP, MOSTLY INACCESSABLE, N-FACING ERODING SILTSTONE
BLUFF, CHIMNEY ROCK.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12592). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12592). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
STEPHANOMERIA RUNCINATA

LOCODE: PDAST8U0C0*003*NE
SNAME: STEPHANOMERIA RUNCINATA
COMNAME: DESERT SKELETONPLANT
SURVEYSITE: CHIMNEY ROCK HS

COUNTY NAME: Morrill

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SOUTH BAYARD	4110363	23	23

LAT: 414152N

LONG: 1032043W

TOWNRANGE: 020N052W SECTION: 17

TRSNOTE: SW4.

DIRECTIONS: LOWER SLOPES-E SIDE OF SILTSTONE OUTCROP ON N-FACING
HILLSIDE SSE OF CHIMNEY ROCK. .25 MI W OF CHIMNEY ROCK
CEMETARY.

HYSPROV: HP WATERSHED: 10180009

ELEV: 3900

LASTOBS: 1996-07-15

MODATA: 1996-07-15 POP. AREA 200 SQUARE METERS, 300-400 INDIVIDUALS
MOSTLY LATE FLOWER, A FEW FLOWERS OPEN, VERY LOCAL, COMMON
ON UPPER SLOPES FARTHER W.

GENDESC: STEEP SLOPES ON AND BELOW NARROW RIDGES ON SILTSTONE
OUTCROP. SILTSTONE OUTCROPS IN AREAS W/ NO SOIL DEVELOPMENT.

COMMENTS: [SE CORNER OF CHIMNEY ROCK HS].

BESTSOURCE: ROLFSMEIER, STEVEN B (12589). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12589). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
STEPHANOMERIA RUNCINATA

OCODE: PDAST8U0C0*005*NE
SNAME: STEPHANOMERIA RUNCINATA
COMNAME: DESERT SKELETONPLANT
URVEYSITE: HORN-SITE

COUNTY NAME: Banner

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
ICGREW	4110364	15	14

LAT: 414033N

LONG: 1032342W

OWNRANGE: 020N053W SECTION: 26

IRSNOTE: NW4SE4.

DIRECTIONS: NE SIDE OF RIDGE ABOVE DRAW ON UPPER MID SLOPE .25 ENE OF
ABANDONED HOUSE.

HYS PROV: HP WATERSHED: 10180009

LEV: 4200

LASTOBS: 1996-07-16

PODATA: 1996-07-16 POP. AREA 12 SQUARE METERS, CA 20 INDIVIDUALS IN
LEAF STAGE, VERY LOCAL.

GENDESC: STEEP SILTSTONE BLUFF ABOVE YOUNG BADLANDS AREA, VERY
SPARSELY VEGETATED.

COMMENTS:

ESTSOURCE: ROLFSMEIER, STEVEN B (12590). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12590). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
STEPHANOMERIA RUNCINATA

OCODE: PDAST8U0C0*006*NE
SNAME: STEPHANOMERIA RUNCINATA
COMNAME: DESERT SKELETONPLANT
URVEYSITE: 5-BUMPS

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
CGREW	4110364	17	17

LAT: 414420N
LONG: 1032816W
OWNRANGE: 020N053W SECTION: 6
RSNOTE: NW4NE4.

DIRECTIONS: N END CASTLE ROCK (W END OF N FACE) MIDWAY UP ROCK (BELOW
VERTICLE CLIFFS).

HYSPROV: HP WATERSHED: 10180009
LEV: 4474
LASTOBS: 1996-07-19
FODATA: 1996-07-19 POP. AREA 10 AC+, 500-1000 INDIVIDUALS MOSTLY IN
FRUIT.

GENDESC: USUALLY STEEP UPPER SLOPES OF SILTSTONE EXPOSURES BELOW
VERTICLE SILTSTONE CLIFFS-CONFINED IN NARROW RIDGES AND
STEEP SLOPES, BUT ALSO ON LESS STEEP SITES BELOW.

COMMENTS: [AREA BORDERED IN YELLOW].

BESTSOURCE: ROLFSMEIER, STEVEN B (12630). 1996. SPECIMEN #----. UL.

SOURCECODE: S96ROLULNEUS
R96ROL01NEUS

SPECIMENS: ROLFSMEIER, STEVEN B (12630). 1996. SPECIMEN #----. UL.

Wildcat Hills Element Occurrence Records
CHRYSOETHAMNUS PARRYI SSP HOWARDII

OCODE: PDAST2C094*005*NE
SNAME: CHRYSOETHAMNUS PARRYI SSP HOWARDII
COMNAME: HOWARD RABBIT BRUSH
URVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUAD MARG DOT
QUADNAME: CODE: NUM: NUM:
SCOTTSBLUFF SOUTH 4110376 21

LAT: 415016N

LONG: 1034230W

OWNRANGE: 022N055W SECTION: 33

RSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, VEGETATION MANAGEMENT UNIT
#8.

HYS PROV: HP WATERSHED: 10180009

LEV:
LASTOBS: 1987-09-27
FO DATA: SCATTERED, FLOWERS LIGHT YELLOW, SPECIMEN COLLECTED IN LATE
FLOWER-FRUIT (WEEDON, 1983); SCATTERED, SHRUB TO 2 FT HIGH
SPECIMEN COLLECTED POST FRUITING (HARDY, 1984); LOCALLY
COMMON, FLOWERS VERY LIGHT YELLOW TO CREAM, SPECIMEN
COLLECTED IN FRUIT (WEEDON, 1987).

GENDESC: ON LOWER TO MID AND UPPER SLOPES OF HILLS IN CLAY LOAM SOIL
(WEEDON, 1983); BOTTOM OF BADLANDS (HARDY, 1984); N UPPER
BARE SLOPES OF BUTTE, ESPECIALLY ON N FACING SLOPES, W OF S
BLUFF AREA, STEEP BARE CLAY SLOPES, HIGH DRAINAGE (WEEDON,
1987).

COMMENTS:

ESTSOURCE: WEEDON, RONALD R. (9419). 1987. SPECIMEN #----. CS.

SOURCECODE: S83WEECSNEUS
S84HARCSNEUS
S87WEECSNEUS

SPECIMENS: WEEDON, RONALD R., AND J.P. HARDY (9419). 1987. SPECIMEN
#----. CS.
WEEDON, RONALD R., J.P. HARDY (8369). 1983. SPECIMEN #----.
CS.
WEEDON, RONALD R. 1983. (8535). CS.
HARDY, J.P., G.M. AHRENS (1224). 1984. SPECIMEN #----. CS.

Wildcat Hills Element Occurrence Records
FRITILLARIA ATROPURPUREA

LOCODE: PMLILOV020*004*NE
SNAME: FRITILLARIA ATROPURPUREA
SCOMNAME: PURPLE MISSION-BELLS
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SCOTTSBLUFF SOUTH	4110376	10	

LAT: 415016N
LONG: 1034230W
OWNRANGE: 022N055W SECTION: 33
RSNOTE:

DIRECTIONS: SCOTTS BLUFF.

PHYS PROV: HP WATERSHED: 10180009
LEV:
ASTOBS: 1891-07-23
EODATA:

ENDESC:

COMMENTS: SPECIMEN IN FRUIT.

ESTSOURCE: RYDBERG, P.A. (376). 1891. SPECIMEN #169323. UL.

SOURCECODE: S91RYDULNEUS

SPECIMENS:

Wildcat Hills Element Occurrence Records
FRITILLARIA ATROPURPUREA

ECODE: PMLILOV020*009*NE
SNAME: FRITILLARIA ATROPURPUREA
SCOMNAME: PURPLE MISSION-BELLS
SURVEYSITE: SCOTTS BLUFF NM-SOUTH BLUFF

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
SCOTTSBLUFF SOUTH 4110376 16

LAT: 414923N

LONG: 1034331W

TOWNRANGE: 021N055W SECTION: 05

RSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, N SIDE OF RIDGE RUNNING W
FROM SOUTH BLUFF.

PHYS PROV: HP WATERSHED: 10180009

ELEV:

LASTOBS: 1966-06-22

FOODATA: SPECIMEN IN FRUIT.

GENDESC: DRY AREA, IN WEEDY, GRASSY, SANDY-CLAY SOIL.

COMMENTS:

BESTSOURCE: STEPHENS, STEVE. 1966. (5385). KU.

SOURCECODE: S66STEKUNEUS

SPECIMENS:

Wildcat Hills Element Occurrence Records
LEPTODACTYLON CAESPITOSUM

LOCODE: PDPLM08010*001*NE
SNAME: LEPTODACTYLON CAESPITOSUM
SCOMNAME: MATTED PRICKLY-PHLOX
SURVEYSITE: SCOTT'S BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SCOTT'S BLUFF SOUTH	4110376	30	08

LAT: 415016N

LONG: 1034230W

TOWNRANGE: 022N055W SECTION: 33

TRSNOTE: MIDDLE OF SECTION.

DIRECTIONS: SCOTT'S BLUFF NATIONAL MONUMENT [VEGETATION MANAGEMENT UNIT
#8 (COLLECTION 9036), VEGETATION MANAGEMENT UNIT #8
(COLLECTION 9054)].

HYSPROV: HP WATERSHED: 10180009

ELEV: 4100

LASTOBS: 1985-05-05

MODATA: 1985-05-05 SPECIMEN COLLECTED WITH CREAM YELLOW FLOWERS BY
R.R. WEEDON, J.P. HARDY, AND G. AHRENS; 1891-07-25 SPECIMEN
COLLECTED NEAR SCOTT'S BLUFF BY P.A. RYDBERG.

WENDESC: SCATTERED ON OPEN BANKS OF BADLANDS, ALSO ON TOP OF BLUFF ON
BARE AREAS WITH ASTRAGALUS SPATULATUS.

COMMENTS:

RESTSOURCE: WEEDON, R.R., J.P. HARDY, AND G. AHRENS (9036). 1985.
SPECIMEN #----. CS.

SOURCECODE: S85WEECSNEUS
S91RYDCONEUS
S91RYDULNEUS

SPECIMENS: WEEDON, R.R., J.P. HARDY, AND G. AHRENS (9036). 1985. SPECIMEN
#----. CS.
RYDBERG, P.A. (243). 1891. SPECIMEN #60597. CO.
RYDBERG, P.A. (143). 1891. SPECIMEN #183285. UL.

Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAPI1B1B0*002*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUADNAME:	QUAD	MARG	DOT
	CODE:	NUM:	NUM:
SCOTTSBLUFF SOUTH	4110376	17	

LAT: 414923N

LONG: 1034331W

OWNRANGE: 021N055W SECTION: 05

IRSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, NORTH SIDE OF RIDGE RUNNING
W FROM SOUTH BLUFF.

HYS PROV: HP WATERSHED: 10180009

LEV:

LASTOBS: 1966-06-22

FO DATA: 1966-06-27 SPECIMEN (5411) WAS IN YOUNG FRUIT, SPECIMEN
(5412) WAS IN FRUIT; 1931 SPECIMEN COLLECTED IN POST-FRUIT
BY J.M. WINTER.

ENDESC: STEEP, SANDY, WEEDY CLAY SOIL (SPECIMEN 5411); WEEDY, SANDY
AREA NEAR ROAD (5412).

COMMENTS: STEPHENS COLLECTED BOTH SPECIMENS 5411 AND 5412 ON THE SAME
DAY, APPARENTLY VERY NEAR EACH OTHER, SO THEY WERE MAPPED
TOGETHER. SPECIMEN 5411 WAS IDENTIFIED IN 1973.

ESTSOURCE: STEPHENS, STEVE. 1966. (5411, 5412). KU.

SOURCECODE: S66STEKUNEUS
S31WINS DNEUS

SPECIMENS: STEPHENS, STEVE. 1966. (5411, 5412). KU.
WINTER, J.M. (S.N.). 1931. SPECIMEN #03390. SD.

Wildcat Hills Element Occurrence Records
LOMATIUM NUTTALLII

LOCODE: PDAP11B1B0*003*NE
SNAME: LOMATIUM NUTTALLII
SCOMNAME: NUTTALL DESERT-PARSLEY
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUADNAME:	QUAD CODE:	MARG NUM:	DOT NUM:
SCOTTSBLUFF SOUTH	4110376	25	

LAT: 414937N

LONG: 1034226W

OWNRANGE: 021N055W SECTION: 04

TRSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT: VEGETATION MANAGEMENT UNIT
8, S OF VISITOR CENTER (CS 1219, HARDY 1984).

HYS PROV: HP WATERSHED: 10180009
LEV:

LASTOBS: 1985-05-05

FO DATA: 1984-06-27 LOCALLY COMMON ON BARE AREAS OF BADLANDS, PALE
CREAM FLOWERS, FRUIT ALSO PRESENT; 1985-05-05 ABUNDANT,
YELLOW FLOWERS; 1891-07-22 SPECIMEN COLLECTED IN FLOWER BY
P.A. RYDBERG; 1951-05-27 SPECIMEN COLLECTED NEAR GERING BY
WALTER KIENER; 1925-09-26 SPECIMEN COLLECTED NEAR MITCHELL'S
PASS BY GERING BY J.M. BATES; 1891-07-22 SPECIMEN COLLECTED
NEAR SCOTT'S BLUFF BY P.A. RYDBERG.

ENDESC: BADLANDS, CLAY SOIL.

COMMENTS: THIS EOR CONSISTS OF 2 COLLECTIONS. BOTH ARE IN VEGETATION
MANAGEMENT UNIT 8, IN BADLANDS. HARDY'S COLLECTION WAS FROM
S OF VISITOR CENTER, WHILE WEEDON'S COLLECTION HAD NO OTHER
DIRECTIONS.

ESTSOURCE: WEEDON, RONALD R. 1985. (9046). CS.

SOURCECODE: S85WEECSNEUS
S84HARCSNEUS
S91RYDSSNEUS
S91RYDULNEUS
S51KIEULNEUS
S25BATULNEUS

SPECIMENS: RYDBERG, P.A. (129). 1891. SPECIMEN #6288. SS.
WEEDON, RONALD R. 1985. (9046). CS.
RYDBERG, P.A. (129). 1891. SPECIMEN #181619. UL.
KIENER, WALTER (26976). 1951. SPECIMEN #247809. UL.
BATES, J.M. (7249). 1925. SPECIMEN #181632, #181631. UL.

Wildcat Hills Element Occurrence Records
MENTZELIA ALBICAULIS

LOCODE: PDLOA03030*001*NE
SNAME: MENTZELIA ALBICAULIS
SCOMNAME: WHITE-STEM STICKLEAF
SURVEYSITE: SCOTT'S BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUADNAME: QUAD MARG DOT
CODE: NUM: NUM:
SCOTT'S BLUFF SOUTH 4110376 32 19

LAT: 415038N

LONG: 1034148W

TOWNRANGE: 022N055W SECTION: 28

TRSNOTE:

DIRECTIONS: NORTH SIDE OF SCOTT'S BLUFF NM.

PHYSPROV: HP WATERSHED: 10180009

LEV: 4100

ASTOBS: 1891-07-23

EODATA: 1891-07-23 SPECIMEN COLLECTED N OF SCOTT'S BLUFF NM BY P.A.
RYDBERG.

GENDESC:

COMMENTS:

BESTSOURCE: RYDBERG, P.A. (121). 1891. SPECIMEN #180076, #180438,
#180439, #180437. UL.

SOURCECODE: S91RYDULNEUS

SPECIMENS: RYDBERG, P.A. (121). 1891. SPECIMEN #180076, #180438,
#180439, #180437. UL.

Wildcat Hills Element Occurrence Records
PHACELIA HASTATA VAR LEUCOPHYLLA

LOCODE: PDHYD0C1Z8*002*NE
SNAME: PHACELIA HASTATA VAR LEUCOPHYLLA
SCOMNAME:
SURVEYSITE: SCOTTS BLUFF NM-SOUTH BLUFF

COUNTY NAME: Scotts Bluff

QUADNAME:	QUAD	MARG	DOT
	CODE:	NUM:	NUM:
SCOTTSBLUFF SOUTH	4110376	18	

LAT: 414923N
LONG: 1034331W
TOWNRANGE: 021N055W SECTION: 05
FIRSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, BARREN WEST SIDE OF SOUTH BLUFF.

PHYS PROV: HP WATERSHED: 10180009
LEV:

LASTOBS: 1968-07-17
FODATA: SPECIMENS IN FLOWER (STEPHENS, 1968); SPECIMEN COLLECTED IN FLOWER-FRUIT BY P.A. RYDBERG IN 1891-07-22.

GENDESC: SEMI-BARREN TO BARREN SIDE OF WEST-FACING SLOPE IN DRY, SANDY, CLAY SOIL AT SCOTTSBLUFF NM.

COMMENTS: STEPHENS MADE 2 COLLECTIONS ON 1966-06-22 (KU-5404, KU-5392).

BESTSOURCE: STEPHENS, STEVE AND RALPH BROOKS. 1968. (24749). KU.

SOURCECODE: S68STEKUNEUS
S66STEKUNEUS
S91RYDRMWYUS
S91RYDULNEUS

SPECIMENS: RYDBERG, P.A. (247). 1891. SPECIMEN #238975. RM.
STEPHENS, STEVE AND RALPH BROOKS. 1968. (24749). KU.
RYDBERG, P.A. (247). 1891. SPECIMEN #207886, #183555, #183571. UL.

Wildcat Hills Element Occurrence Records
PHACELIA HASTATA VAR LEUCOPHYLLA

OCODE: PDHYD0C1Z8*007*NE
SNAME: PHACELIA HASTATA VAR LEUCOPHYLLA
COMNAME:
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUADNAME:	QUAD	MARG	DOT
	CODE:	NUM:	NUM:
SCOTTSBLUFF SOUTH	4110376	20	

LAT: 415038N
LONG: 1034158W
TOWNRANGE: 022N055W SECTION: 28
TFRNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, VEGETATION MANAGEMENT UNIT
8, UPPER PORTION.

HYS PROV: HP WATERSHED: 10180009
LEV:
LASTOBS: 1985-07-17
PODATA: SPECIMEN FRUITING.

GENDESC: BARE BADLANDS SLOPES.

COMMENTS:

BESTSOURCE: WEEDON, RONALD R. 1985. (9108). CS.

SOURCECODE: S85WEECSNEUS

SPECIMENS:

Wildcat Hills Element Occurrence Records
PARONYCHIA SESSILIFLORA

OCODE: PDCAR0L0Q0*001*NE
SNAME: PARONYCHIA SESSILIFLORA
COMNAME:
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SCOTTS BLUFF SOUTH	4110376	34	34

LAT: 414937N

LONG: 1034242W

TOWNRANGE: 021N055W SECTION: 04

TRSNOTE:

DIRECTIONS: SCOTTS BLUFF NM, W SIDE OF SUMMIT OF SOUTH BLUFF, S OF
SENTINEL ROCK.

HYS PROV: HP WATERSHED: 10180009

LEV:

LAST OBS: 1995-07-26

FO DATA: 1995-07-26 ROLFSMEIER REPORTED THE PLANT LOCALLY COMMON ON
SANDSTONE OUTCROPS.

GENDESC: BLUFFS AT SCOTTS BLUFF NM.

COMMENTS: DUPLICATE SPECIMEN IN NEBRASKA GAME AND PARKS COMMISSION
HERBARIUM.

ESTSOURCE: ROLFSMEIER, STEVE (11877). 1995. SPECIMEN #----. SB.

SOURCECODE: S95ROLNGNEUS
S95ROLSBNEUS

SPECIMENS: ROLFSMEIER, STEVE (11877). 1995. SPECIMEN #----. SB.

Wildcat Hills Element Occurrence Records
PHYSARIA BRASSICOIDES

DCODE: PDBRA22040*001*NE
SNAME: PHYSARIA BRASSICOIDES
SCOMNAME:
URVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

QUAD MARG DOT
QUADNAME: CODE: NUM: NUM:
SCOTTS BLUFF SOUTH 4110376 35 33

LAT: 414703N
LONG: 1034225W
DOWNRANGE: 021N055W SECTION: 04
RSNOTE:

DIRECTIONS: SCOTTS BLUFF NM, BADLANDS AT BASE OF N SIDE OF THE SOUTH
BLUFF BETWEEN CROWN ROCK AND SENTINEL ROCK.

HYSPROV: HP WATERSHED: 10180009
LEV:
LASTOBS: 1995-07-11
FODATA: 1995-07-11 COMMON ON SILTSTONE BADLANDS.
GENDESC: BADLANDS.

COMMENTS:

BESTSOURCE: ROLFSMEIER, STEVE (11711). 1995. SPECIMEN #----. GP.

SOURCECODE: S95ROLNGNEUS
S95ROLSBNEUS

SPECIMENS: ROLFSMEIER, STEVE (11711). 1995. SPECIMEN #----. GP.
ROLFSMEIER, STEVE (11711). 1995. SPECIMEN #----. SB.

Wildcat Hills Element Occurrence Records
STEPHANOMERIA RUNCINATA

LOCODE: PDAST8U0C0*001*NE
SNAME: STEPHANOMERIA RUNCINATA
SCOMNAME: DESERT SKELETONPLANT
SURVEYSITE: SCOTTS BLUFF NM-SITE

COUNTY NAME: Scotts Bluff

	QUAD	MARG	DOT
QUADNAME:	CODE:	NUM:	NUM:
SCOTTSBLUFF SOUTH	4110376	8	

LAT: 414937N

LONG: 1034257W

TOWNRANGE: 022N055W SECTION: 32

RSNOTE:

DIRECTIONS: SCOTTS BLUFF NATIONAL MONUMENT, TOP OF RIDGE RUNNING W FROM SCOTTSBLUFF (1966); ALSO VEGETATION MANAGEMENT UNIT 8, ON UPPER VERY OPEN BARE CLIFF SLOPES OF STEEP HILLS. 1987 W SIDE OF S BLUFF AREA, S SIDE OF MITCHELL PASS.

PHYSPROV: HP WATERSHED: 10180009

ELEV: 4200

ASTOBS: 1987-09-27

MODATA: 1966-02-22 PINK FLOWER; 1983-09-10 SCATTERED, FLOWERS PINK TO BRIGHT PURPLE WITH MILKY JUICE; 1987-09-27 WIDELY SCATTERED, ONLY A FEW PLANTS SEEN ON STEEP BARE SLOPES, SPECIMEN COLLECTED IN FRUIT BY R.R. WEEDON; 1891-07-22 SPECIMEN COLLECTED BY P.A. RYDBERG.

ENDESC: DRY, SANDY, CLAY SOIL.

COMMENTS: SPECIMEN IN EARLY FLOWER.

TESTSOURCE: WEEDON, R.R. (9418). 1987. SPECIMEN #----. CS.

SOURCECODE: S66STEKUNEUS
S83WEECSNEUS
S87WEECSNEUS
S91RYDCONEUS

SPECIMENS: WEEDON, R.R. (9418). 1987. SPECIMEN #----. CS.
STEPHENS, STEVE (5413). 1966. KU.
RYDBERG, P.A. (219). 1891. SPECIMEN #CSU-23510. CO.
RYDBERG, P.A. (2252). 1891. SPECIMEN #2252. CO.

1	species	coll.	m	n	u
ISM	Sagittaria cuneata	11930	x	x	
PA	Amaranthus albus	11890	x	x	
PA	Amaranthus blitoides	11884	x		
PIAC	Serula erecta	11889	x	x	
PIAC	Cicuta maculata	11890	x		
LE	Asclepias incarnata	11899	x		
LE	Asclepias viridiflora	11794	x	x	
STER	Ambrosia artemisiifolia	11906	x		
IR	Antennaria microphylla	11648	x	x	
IR	Antennaria parvifolia	11645	x		
STER	Artemisia campestris caudata	11919	x	x	
IR	Artemisia cana cana	11822	x	x	
IR	Artemisia cana cana	11947	x	x	
STER	Artemisia dracunculus	11796		x	
STER	Artemisia dracunculus	11945	x	x	
IR	Artemisia ludoviciana ludoviciana	11918	x	x	
IR	Brickellia grandiflora	11941	x	x	
STER	Cirsium ochrocentrum	11934	x		
IR	Cirsium vulgare	11897	x		
IR	Crepis atriobarba	11795	x	x	x
STER	Elymus macdonii	11846	x	x	
IR	Erigeron bellidiastrum	11790	x		
IR	Euthamia gymnospermoides	11968	x		
STER	Euthamia occidentalis	11965	x		
STER	Helianthus maximilianii	11972	x		
IR	Heterotheca villosa hispida	11787	x	x	x
STER	Heterotheca villosa hispida	11935	x	x	x
STER	Heterotheca villosa hispida	11936	x	x	
IR	Iva axillaris robustior	11885			x
IR	Iva axillaris robustior	11886	x	x	
STER	Senecio canus	11642	x		
IR	Senecio plattensis	11643	x	x	
IR	Sonchus asper	11931	x	x	
CRAG	Evolvulus nuttallianus	11783	x	x	
PA	Lepidium latifolium	11913	x	x	
ASS	Physaria brassicoides	11647	x	x	
ASS	Physaria brassicoides	11771	x	x	x
RASS	Rorippa sinuata	11911	x	x	
A	Opuntia fragilis	11831	x	x	
RYO	Paronychia sessiliflora	11877	x	x	x
ENO	Atriplex canescens	11967	x	x	
IO	Atriplex heterosperma	11935	x	x	
NO	Atriplex prostrata	11909		x	
ENO	Atriplex prostrata	11928	x		
O	Atriplex subspicata	11970	x		
IO	Chenopodium glaucum	11912		x	
ENO	Chenopodium glaucum	11921	x		
ENO	Salsola collina	11948	x		
O	Salsola tragus	11970	x		
CUR	Echinocystis lobata	11950	x	x	
PER	Carex brevior	11903	x	x	
IR	Carex nebrascensis	11896	x	x	
ER	Carex parryana hallii	11798	x	x	

Family species	coll.	m	n	u
CYPER Cyperus squarrosus	11920	x	x	
CY ER Eleocharis erythropoda	11924	x	x	
CYPER Fimbristylis puberula interior	11898	x	x	x
EQUIS Equisetum arvense	11930	x	x	
EL HO Euphorbia serpyllifolia	11904	x	x	x
EL HO Euphorbia spathulata	11785	x	x	
FABAC Astragalus kentrophyta	11887	x	x	x
FABAC Astragalus lotiflorus	11779	x		
FABAC Astragalus lotiflorus	11883	x	x	
FABAC Astragalus mollissimus	11882	x	x	x
FABAC Astragalus pectinatus	11836	x	x	x
FABAC Dalea aurea	11938	x	x	
FABAC Oxytropis lambertii	11644	x	x	
FABAC Robinia pseudoacacia	11944	x	x	
FF DA Sisyrinchium montanum	11799	x	x	
FLLA Juglans nigra	11829	x	x	
FUNCG Triglochin maritimum	11891	x	x	
LA IA Hebeoma hispidum	11797	x	x	
LA IA Mentha arvensis	11966	x		
LAMIA Teucrium canadense occidentale	11915	x	x	
LINAC Linum rigidum compactum	11784	x		
MY TA Mirabilis hirsuta	11792	x		
MYCTA Mirabilis hirsuta	11940	x	x	
MYCTA Mirabilis nyctaginea	11917	x		
ON GR Epilobium ciliatum	11902	x	x	
ON-GR Epilobium leptophyllum	11894	x	x	
ONAGR Oenothera nuttallii	11949	x	x	x
OR BA Orobanche ludoviciana	11945	x		
PO CE Agrostis stolonifera	11825	x		
POACE Agrostis stolonifera	11927	x		
POACE Aristida purpurea robusta	11823	x	x	x
PO CE Avena fatua fatua	11827	x	x	x
POACE Bromus squarrosus	11775	x	x	x
POACE Distichlis spicata stricta	11788	x	x	
PO CE Elymus trachycaulus trachycaulus	11895	x	x	
POACE Eragrostis cilianensis	11907	x		
POACE Eragrostis pectinacea	11922	x		
PO CE Oryzopsis micrantha	11942	x	x	
PO CE Phragmites australis	11905	x	x	
POACE Poa secunda	11832	x		
POACE Poa secunda	11834	x	x	
PO CE Schedonnardus paniculatus	11881	x		
POACE Sorghastrum nutans	11951	x	x	
POACE Spheopholis obtusata obtusata	11876	x	x	x
PO EM Leptodactylon caespitosum	11646	x	x	
POLGO Eriogonum flavum	11833	x	x	
POLGO Polygonum achoreum	11789	x	x	
PO GO Rumex patientia patientia	11826	x	x	
PO GO Rumex triangulivalvis	11824	x	x	
PORTU Portulaca oleracea	11908	x		
RANUN Ranunculus macounii	11892	x	x	
RH MN Rhamnus cathartica	11964	x	x	
ROSAC Potentilla pensylvanica	11793	x	x	

NEBRASKA HERITAGE COMMUNITY SURVEY FORM

Project Name: Wildcat Hills Vegetation Sampling

Survey Date: 15 June, 1995

Survey Site: Buffalo Creek WMA

Source Code: R95HIL01NEUS

Surveyors: S. Rolfsmeier, G. Steinauer, T. Hildebrand

Quad Name: Wright Gap

Quad Code: 4110365

Field Margin #: 1

County: Scotts Bluff T 20N R54W ¼ ¼ ¼ NW Section 17

GPS Readings:

Directions to Site: Take road to Buffalo Creek WMA; park just north of drainage north of parking area; walk westerly to badland area

Landowner: State of Nebraska

Owner Information:

Community Name: Badlands

EI Code:

EO #:

EOR Form Completed: ☐ Yes ☐ No

Community/Landscape Description: Badlands on north & east slopes below steep bluff; soils are formed from Mitchell siltstone; typical badland characteristics, small grassy patches on slopes; mixed grass prairie below

Slope (%): 0-40

Aspect (0): 360,90

Light conditions: Open, full light

Slope position (e.g. upper, mid, lower): All

Slope shape (e.g. concave, convex, irregular et al.): Various

Soil taxon and description: Mitchell Silt Loam

Dominant Species (by strata): *Yucca glauca*, *Atriplex canescens* [shrub]

Eriogonum pauciflorum, *Cryptantha cana*, *Arenaria hookeri* [forb]

Stipa comata, *Carex filifolia* [grass]

Characteristic Species: *Lomatium nuttallii*, *Eriogonum pauciflorum*, *Cryptantha cana*

Disturbance or Threats: None at present

EO Rank: ☒ A ☐ AB ☐ B ☐ BC ☐ C ☐ CD ☐ D

Site Quality Comment: Good forb composition; exotics non-existent

Community Size: ca. 1 hectare

Plot Work Completed: ☐ Yes ☒ No

Photographs: ☐ Yes ☒ No

Form Code:

**BUFFALO CREEK WMA
WILDCAT HILLS**

R54W

Bedlands Community

1 mile = 6.67 cm (2.68 in.)
Contour interval 6.1 m (20 ft.)

SCOTT BLUFF CO
BANNER CO

**T
20
N**

Haystack

Haystack

