	MSP - 2017 Ra	are Plant Occurren	nce Monito	oring Form				Page 1	
Scientific Name:				Со	mmon Name:				
MSP Occurrence I	D:			Existing MS	P Occurrence?	Yes:,	No:	_, Unknown:	
Occurrence Name.		CND	DB EO#:		I ranslocated?	Yes:	, No:	, Unknown:_	
Preserve:				MSP Man	agement Unit:				
Land Owner:				L	and Manager:	Vaa	No	Unknown	
Sample Piol #:	tion			EXISUI	y Sample Plot?	res:,	NO:	_, UNKNOWN:	
Surveyors & Annia	1011:				Timo Start:				
	FORMATION Coun	t # nlants in hahitat n	nt see n A	for category	definitions for nhe	nology herh	ivorv dise	ase & stunted a	rowth
Record notes on p. 3		i » piants in nabitat pi	ы, эсс р. ч	tor category		nology, neroi	vory, uisc	use a stanica gi	owin.
# Plants/Habitat Plot		Evact: F	stimato	Uncortai	ntv2		Habitat	nlot radius	m
For both exact count	s and estimates indica		d indiv plar	Uncertain	OR Counted/est	timated clust	ers of plan	piot radius	
For goophytos: are c	ounts of floworing or w	nce. Counced/estimate	Eloworing	No					
				VC		-			
Phenology in Habitat	Plot (Categories 1-6):	vegetative:	Flowerin	g:	_ Fruiting:	Dead:			
Evidence in Habitat F	lot (Categories 1-6) of	: Herbivory:	Dis	sease:	Stunted	Growth:			
Is Habitat Plot within	Current Mapped Exter	nt? Yes _	N	lo					
II. HABITAT PLOT I	OCATION & SITE PH	IOTOMONITORING	- consult SE	DMMP list of	GPS coordinates f	for plot cente	r and phot	o locations.	
Enter here only if new	v habitat plot location c	or to make a correctio	n to coordir	nates in list pi	rovided.	•			
GPS/Smartphone Ac	curacy: +/ m / f	t (circle one) Datum:		(	Coord. Syst: UTM:	State Pla	ane: O	ther:	
Center of Plot Coord:	E:	N:			No (	Change:	_ New:	Correction:_	
Camera type:	Phot	oCoord: E:	î	N:	No	Change:	_ New:	Correction:_	
Location 1:									
Dire	ection (facing)	Height (m)		Camera Angle	e U	lp or Down		Photo #	
E:	N:								
	1 2 [Coordinates]	Direct	ion (facing)	Height (m)	Camera Angle	Up	or Down	Pl od using Con Did	noto #
III. HABITAT PLUT	ASSESSMENT - ASS OM 2012) in office or f	ess nabitat covariates	s In <b>IUm ra</b> d Species" (	aius naditat data - Soo na	plot. Vegetation	alliance can i activity cotog	orios Dog	ed using San Die ord any notos o	ego nn 2
			i species i	iala. See pa	ye 4 lui mammai a	activity categ	UHES. REC	oru ariy notes or	τ <i>μ. </i> σ.
SANDAG 2012 Vege	tation Alliance/Associa	1110N:	F00(), F (F(	0/ to .750/)	( (> 750()				
Cover Classes: 1 (07	b); 2 (>0 - <10%); 3 (10	) 10 <25%); 4 (25 10 <	:50%); 5 (50	1% 10 <15%);	0(2/5%)				
Сгур	otogamic Crust Cover:	(cate	egory)	Thatch Cove	r:	(category)			
Thatch Depth catego	ries: 1 (no thatch); 2	(<1 cm); 3 (1 to <5 ci	m); 4 (5 to <	:10 cm); 5 (10	0 to <15 cm); 6 (15	5 to < 20 cm),	: 7 (≥ 20 c	:m)	
Tha	ch Depth: Ave	(category)	-	Fhatch Depth	: Max:	cm			
Dead Standing Biom	ass? Ves: No:	If ves snecies.			Cover Cl	ass (1-6) <sup>,</sup>	Δν	e Height	cm
Dead Standing Dom	155: 105100	II yes, species.				uss (1 0)	/\/	c. neight	_ 011
Mammal Species Act	ivity Categories (1-4):	Feral Pig Activity:		Ground Sq	uirrel Activity:		Gopher Ac	ctivity:	
Habitat plot represen	tative of maximum exte	ent? Yes:N	No:	If no, not	e differences on P	age 3.			
IV ASSOCIATED	SPECIES IN HABIT	AT PLOT Record	absolute c	over estimat	e not cover cate	aorv See %	6 cover dia	aaram n 5 Reci	ord
substrate, total veg &	total cover at bottom.	Total cover should e	aual ≥100%	6 cover to ac	count for entire pla	ot. Record ad	ditional da	ita & anv notes d	on p. 3.
Nonnative? Spe	cies		% Cover	Nonnative?	Species			<u> </u>	% Cover
Bare Ground:	Litter:	Rock:W	ater:	_ Total Ve	g Cov:		ov:	(∑≥10	0%)
									/

MSP - 2017 Rare Plant Habitat and Threats Assessment Fo
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MSP - 2017 Rare	Plant Habitat and Threats Assessment	Form Page 2
Scientific Name:	MSP Occurren	ce ID:
Preserve:	Occurrence Na	me:
Date:	Time Start:	Time Finish:
Surveyors & Affiliation/Agency:		
V. CURRENT MAPPED EXTENT INFOR perimeter mapping or visual mapping on aeria	MATION. Count or estimate number of plants in m I photo in the office.	apped extent. Area can be calculated based on GIS
# Plants/Current Mapped Extent:	, Exact Count:, Estimate (100	0s, 10k):, Uncertainty?
For both exact counts and estimates, indicate:	Counted/estimated individual plants: Counted/estimated individual plants	OR Counted/estimated clusters of plants:
For geophytes: are counts of flowering or vege	tative individuals? Flowering: Vegetative:_	
Area of Current Mapped Extent:	Units: Exa	ct (GPS mapping): Estimate:
Perimeter of current extent determined by walk	king it or estimated by other means (mapped on aer	ials)? Walked: Other (describe p. 3):
Species in Maximum Extent? Yes: No:	If not, why:	
VI. THREATS ASSESSMENT IN MAXIM of monitoring) plus 10-m surrounding buffe	<b>UM EXTENT</b> - Assess threats within the <b>occurre</b> r. Record notes on p. 3.	ence's maximum extent (cumulative extent over years
Surrounding Land Use/Activity at or Adjacent t	o Site:	
Disturbance Classes (rank each threat as 1-7) 3 = disturbance occurs in >0 % to <10% of are 50% of maximum extent, 6 = disturbance occu	: 1 = no sign of disturbance, 2 = disturbance in 10m a within maximum extent, 4 = disturbance in 10% to rs within 50 to <75% of maximum exent, and 7 = di	surrounding buffer but not within maximum extent, o <25% of maximum extent, 5 = disturbance in 25 to < sturbance occurs within ≥75% of maximum extent.
Non-Native Forbs	Feral Pig Activity	Erosion
Non-Native Grasses	Trampling	Urban Runoff
Non-Native Woody Plants	Vandalism	Slope Movement
Competitive Native Plants	Grazing (Y/N/UNK)	Soil Compaction
Dumping/Trash	Historic Agriculture (Y/N/Unk)	
Encampments	Altered Hydrology	
Fuel Modification Zone/Fire Break	-	1
Road Construction/Maintenance	If Observed, Briefly Describe:	
Vegetation Clearing	If Observed, Briefly Describe:	
Brush Management/Restoration	If Observed, Briefly Describe:	
ORV Activity	If Observed, List Type(s) of ORV Activity:	
Evidence of Recent Fire	If Sign of Recent Fire: Year Burned?	OR Unknown Burn Year?
Disturbance from Trails (authorized & unauthorized	prized)	
If Trails are Present, are they Authorized (circl	e one)? Yes / No / Both / Unknown	
Type of Trail Use (Yes/No)? Hiking:	Biking: Equestrian:	Dog: Service Vehicles:
Other (Describe):		
Illegal Trail Use? Yes: No: L	Inknown: Describe:	
Other Disturbance? List & Rank:		
Collection? Yes: No: Col	lector:	
Collection #: Herbarium:	Species Collec	ted:
Collection 2, Collector:		(enter additional collections on p. 3)
Collection #: Herbarium:	Species Collec	ted:

Occurrence ID: Species	Date:
VII. MANAGEMENT ACTIONS IN LAST YEAR	
VIII. CNDDB SPECIES DETECTED & NOTES	
List any sensitive plant or animal species to add to the CNDDB:	

# MSP - 2017 Rare Plant Monitoring, Habitat, and Threats Assessment Category Definitions Page 4

Categories of % Individuals in Habitat Plot for Phenological Stages (Vegetative, Flowering, Fruiting & Dead) and for Evidence of Herbivory, Disease and Stunted Growth.

- 1 = 0% (not detected)
- 2 = >0% to <10%
- 3 = 10% to <25%
- 4 = 25% to <50%
- 5 = 50% to <75%
- 6 = ≥75%

## % Cover Class Definitions within Habitat Plot for Cryptogamic Crust and Thatch.

See page 5 for illustrations of different cover classes.

- 1 = 0% cover (not detected)
- 2 = >0% to <10% cover
- 3 = 10% to <25% cover
- 4 = 25% to <50% cover
- 5 = 50% to <75% cover
- 6 = ≥75% cover

## Feral Pig Activity within Habitat Plot:

1 = No feral pig activity (rooting, wallowing, vegetation destruction, tracks, scat, pig) detected.

- 2 = Signs of pig activity (rooting, wallowing, vegetation destruction) in Habitat Plot appear months old.
- 3 = Signs of recent pig activity (rooting, wallowing, vegetation destruction, tracks, scat, pig) in adjacent area but not within Habitat Plot.

4 = Recent signs of pig activity (rooting, wallowing, vegetation destruction, tracks, scat, pigs) within Habitat Plot.

## Ground Squirrel Activity within Habitat Plot:

- 1 = No ground squirrel burrows detected.
- 2 = Burrows and/or ground squirrels observed in adjacent area but not within Habitat Plot.
- 3 = Single squirrel or burrow seen within Habitat Plot.
- 4 = Multiple burrows and/or squirrels seen within Habitat Plot.

## Botta's Pocket Gopher Activity within Habitat Plot:

- 1 = No pocket gopher mounds detected.
- 2 = Mounds or gophers observed in adjacent area but not within Habitat Plot.
- 3 = <10 mounds observed within Habitat Plot.
- $4 = \ge 10$  mounds or one or more gophers seen within Habitat Plot.

### Disturbance Categories within the Maximum Extent:

- 1 = No sign of disturbance within maximum extent or in adjacent 10 m buffer.
- 2 = Disturbance does not occur within maximum extent but is detected within the surrounding 10 m buffer area.
- 3 = Disturbance present in >0% to <10% of area within maximum extent.
- 4 = Disturbance occurs in 10% to <25% of area within maximum extent.
- 5 = Disturbance occurs in 25% to <50% of area within maximum extent.
- 6 = Disturbance occurs 50% to <75% of area within maximum extent.
- 7 = Disturbance occurs ≥75% of area within maximum extent.



50%