Scientific Name: *Common Name:*

MSP Occurrence ID: *Existing MSP Occurrence?* ☐ Yes ☐ No ☐ Unknown

CNDDB EO#: *Translocated?*

Preserve:

Land Owner: *Land Manager:*

Occurrence Name: *Sample Point #:*

Surveyors & Affiliation:

Date: *Time Start:* *Time Finish:*

I. OCCURRENCE STATUS - *Assess # plants in both species-specific sampling area (typically 10-m radius circle) & in current mapped extent. See p. 4 for cat. definitions describing phenology, evidence of herbivory, disease & stunted growth within sampling area. Record notes on p 3.*

Plants/Current Mapped Extent:_____ ☐ Exact Count ☐ Estimate (1,000s, 10k's) Uncertainty?_____

For both exact counts and estimates, indicate: ☐ Counted/estimated indiv. plants OR ☐ Counted/estimated clusters of plants

Are counts/estimates of flowering individuals, or of vegetative individuals? (latter applies primarily to geophytes) ☐ flowering ☐ vegetative

Area of Current Mapped Extent:_____ _____ units ☐ Exact (GPS mapping) ☐ Estimate

Was perimeter of current extent determined by walking it, or estimated by other means (GIS, aerials)? ☐ walked ☐ other (describe p. 3)

Species Found in Maximum Extent? ☐ Yes ☐ No If not, why? (known or suspected) _____

Plants/Sampling Area:_____ ☐ Exact ☐ Estimate Uncertainty?_____ Sample Area Radius_____m

For both exact counts and estimates, indicate: ☐ Counted/estimated indiv. plants OR ☐ Counted/estimated clusters of plants

Are counts/estimates of flowering individuals, or of vegetative individuals? (latter applies primarily to geophytes) ☐ flowering ☐ vegetative

Phenology in Sampling Area (Categories 1-6): Vegetative: _____ Flowering:_____ Fruiting:_____ Flowering & Fruiting:_____ Dead:_____

Evidence in Sampling Area (Categories 1-6) of: Herbivory: _____ Disease:_____ Stunted Growth:_____

Is Sampling Area within Current Mapped Extent? ☐ Yes ☐ No

Collection (if not collected previously)? ☐ Yes ☐ No ☐ Collected Previously

If yes, Collector: _____ Collection #_____ Museum/Herbar. _____

II. SAMPLING AREA LOCATION & SITE PHOTOMONITORING--*consult provided list of GPS coordinates for plot center and photo locations. Enter here only if new sampling location or to make a correction to coordinates in list provided.*

GPS or Smartphone Accuracy: +/- _____ ☐ meters ☐ feet Datum: _____ ☐ State Plane ☐ UTM Other:_____

Center of Plot Coord.: E: _____ N:_____ ☐ no change ☐ new location ☐ correction

Camera type: _____ Photo Pt Coord: E: _____ N: _____ ☐ no change ☐ new ☐ correction

	Direction (facing)	Height (m)	Camera Angle	Photo #	File location
Location 1 (see Center of Plot coord.'s above					
E:_____ N:_____ Location 2 [Coordinates]					

III. ASSOCIATED SPECIES IN SAMPLING AREA *If need more room, record additional data and any notes on page 3.*

Nonnative?	Species/Substrate	% Cover	Coll?/	Coll. #/	Nonnative?	Species/Substrate	% Cover	Coll?/	Coll. #/
					Bare Ground:				
					Litter:				
					Rock:				

Total % Cover: _____ % Herb Cover: _____ % Shrub Cover:_____ % Tree Cover:_____

Scientific Name: *MSP Occurrence ID:*

Preserve: *Occurrence Name:*

Date: *Time Start:* *Time Finish:*

Surveyors & Affiliation/Agency:

IV. HABITAT ASSESSMENT IN SAMPLING AREA - *Assess habitat covariates within* ***species-specific sampling area (typically 10-m radius circle)****. Vegetation alliance/association can be assigned using San Diego vegetation key (AECOM 2012) in the office or field, using "Associated Species" data from page 1. See page 4 for definitions of habitat assessment categories. Record any notes on page 3.*

SANDAG 2012 Vegetation Alliance/Association: _____

_____

Cover Classes: 1 (0%); 2 (>0 - <10%); 3 (10 to <25%); 4 (25 to <50%); 5 (50% to <75%); 6 (≥75%)

Cryptogamic Crust Cover: _____ (category) Thatch Cover: _____ (category)

Thatch Depth categories: 1 (no thatch); 2 (<1 cm); 3 (1 to <5 cm); 4 (5 to <10 cm); 5 (10 to <15 cm); 6 (15 to < 20 cm); 7 (>= to 25 cm)

Thatch Depth: Ave. _____ (category) Thatch Depth: Max: _____ cm

Dead Standing Biomass? ☐ Yes ☐ No If Yes, Species/Cover Class: _____ Ave. Height? _____ cm

Mammal Species Activity Categories (1-4): Feral Pig Activity:_____ Ground Squirrel Activity:_____ Gopher Activity: _____

Sampling Area Representative of Maximum Extent? ☐ Yes ☐ No If No, Note Differences on Page 3.

V. THREATS ASSESSMENT IN MAXIMUM EXTENT - *Assess threats within the* ***occurrence's maximum extent*** *(cumulative extent over years of monitoring)* ***plus 10-m surrounding buffer****. See page 4 for definitions of threat assessment categories. Record notes on page 3. See Argentine Ant Protocol (USGS 2015) for setting up the bait station and instructions on recording data.*

Surrounding Land Use/Activity at or Adjacent to Site: _____

_____

Disturbances (rank each as 1-7):

Non-Native Forbs _____	Feral Pig Activity _____	Altered Hydrology _____
Non-Native Grasses _____	Trampling _____	Erosion _____
Non-Native Woody Plants _____	Vandalism _____	Urban Runoff _____
Competitive Native Plants _____	Current Grazing _____	Slope Movement _____
Dumping/Trash _____	Historic Grazing _____	Soil Compaction _____
Encampments _____	Historic Agriculture _____	

Fuel Modification Zone/Fire Break _____

Road Construction/Maintenance _____ If Observed, Briefly Describe: _____

Illegal 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? _____ Unknown Burn Year? _____

If Trails are Present, are they Authorized? Yes / No / Unknown

Type of Trail Use? Hiking _____ Biking _____ Equestrian _____ Dog _____ Service Vehicles _____ Other_____

Illegal Trail Use? List & Rank: _____

Other Disturbance? List & Rank: _____

Occurrence ID:_____ Species:_____ Date:_____

VI. MANAGEMENT RECOMMENDATIONS

VII. MANAGEMENT ACTIONS IN LAST YEAR

VIII. CNDDB SPECIES DETECTED & NOTES

List any sensitive plant or animal species to add to the CNDDB:

% Categories for phenological stages (vegetative, flowering, fruiting & dead)
& evidence of herbivory, disease & stunted growth.

Categories: 1 (0%); 2 (>0% to <10%); 3 (10% to <25%); 4 (25% to <50%); 5 (50% to <75%); 6 (≥75%)

Cover class definitions within sampling area for Cryptogamic Crust Cover, Thatch Cover.
See page 4 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%

5 = 50% to <75% cover

6 = ≥75% cover

Feral pig activity within sampling area:

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

2 = Signs of pig activity (rooting, wallowing, vegetation destruction) in sampling area appear months old.

3 = Signs of recent pig activity (rooting, wallowing, vegetation destruction, tracks, scat, pig) in adjacent area but not within sampling area.

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

Ground squirrel activity within sampling area:

1 = No ground squirrel burrows detected.

2 = Burrows and/or ground squirrels observed adjacent to sampling area but not within sampling area.

3 = Single squirrel or burrow seen within sampling area.

4 = Multiple burrows and/or squirrels seen within sampling area.

Gopher activity within sampling area:

1 = No pocket gopher mounds detected.

2 = Mounds or gophers observed adjacent to sampling area but not within sampling area.

3 = <10 mounds observed within sampling area.

4 = ≥10 mounds or one or more gophers seen within sampling area.

Estimated Argentine Ant Abundance at Bait Station:

1 = No ants detected at bait station or in vicinity.

2 = 1-50 ants detected at bait station.

3 = 51-100 ants detected at bait station.

4 = ≥100 ants detected at bait station.

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.

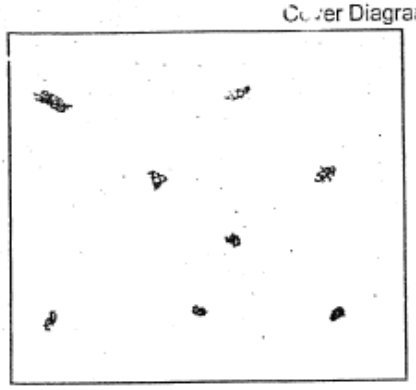
4 = Disturbance occurs in 10% to <25% of area within maximum extent.

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.

Cover Diagrams from CNPS



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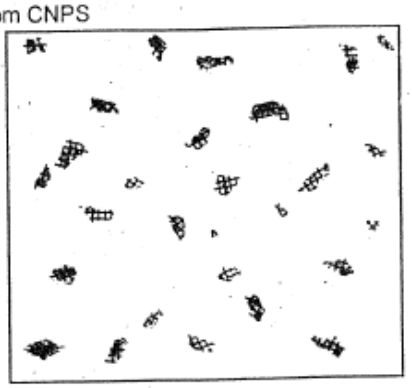

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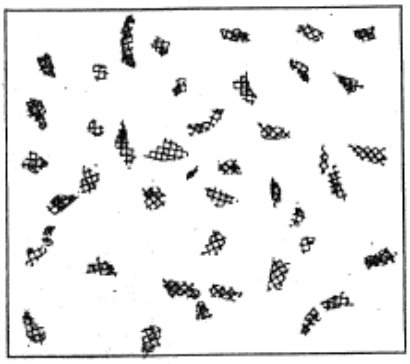

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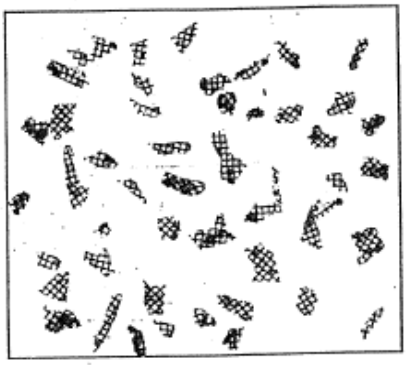

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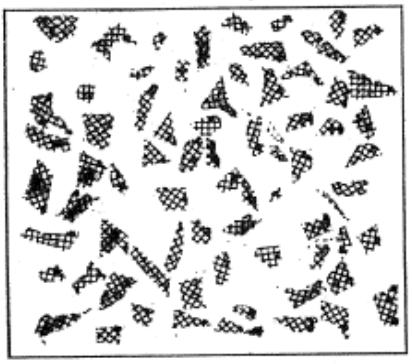

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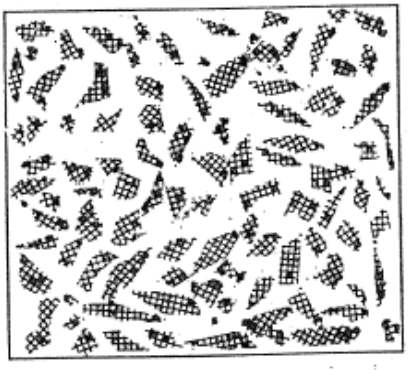

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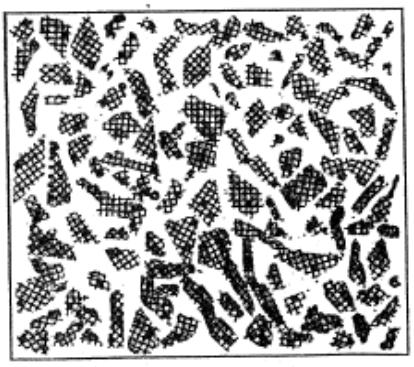

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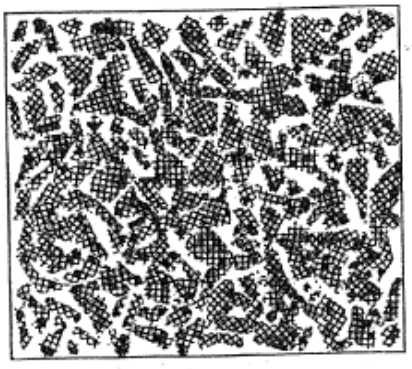

75%