



Finding rare plants



Two approaches:

- does this area have rare plants?
- can I find more of this rare plant?





Are there rare plants here?





Are there rare plants here?





Are there rare plants here?





Are there rare plants here?





# New Mexico Rare Plants

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## Rare Plant County Search

Click on a county to select it. Use ctrl-click to select multiple counties.

County:

BERNALILLO  
CATRON  
CHAVES  
CIBOLA  
COLFAX  
CURRY  
DE BACA  
**DONA ANA**  
EDDY  
GRANT

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“montane slopes and rocky canyons in piñon-juniper woodland or lower montane coniferous forest”





“sandy areas, particularly semi-stabilized sand dunes among open Chihuahuan desert scrub”





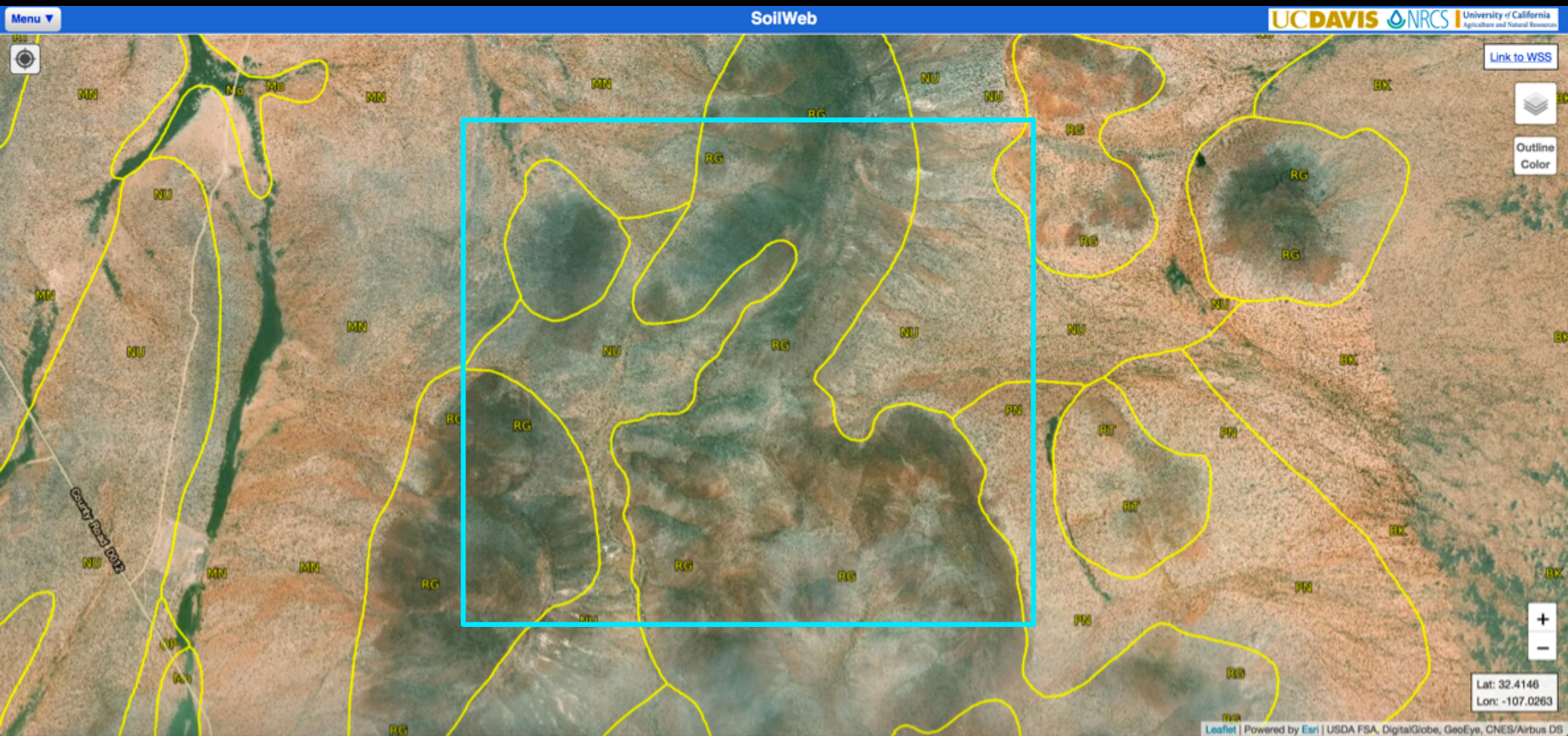
“sandy to silty gravelly soils in gently broken to level terrain in desert grassland or Chihuahuan desert scrub”





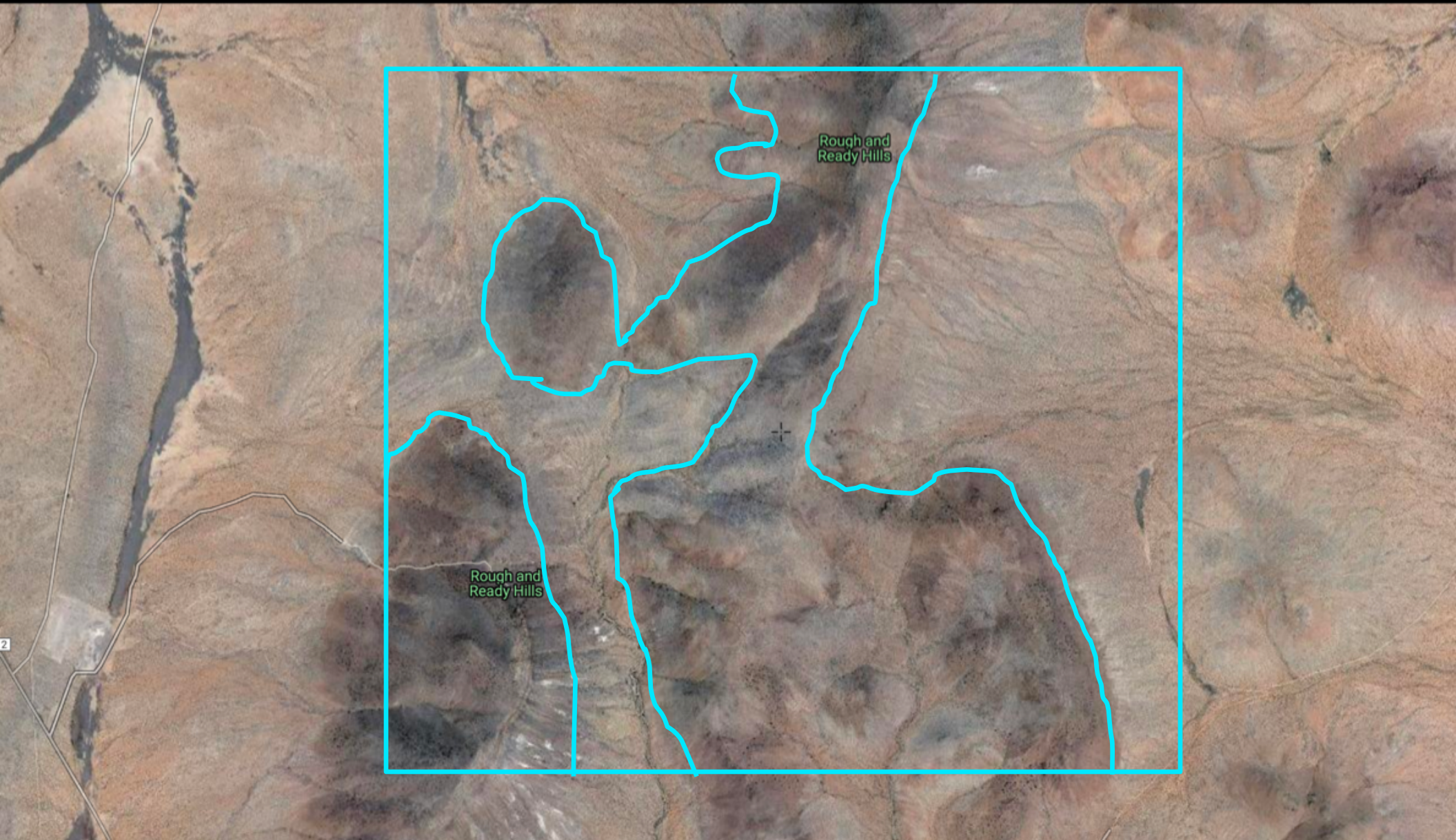
What parts of this square could have night-blooming cereus?





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What season should we do surveys?





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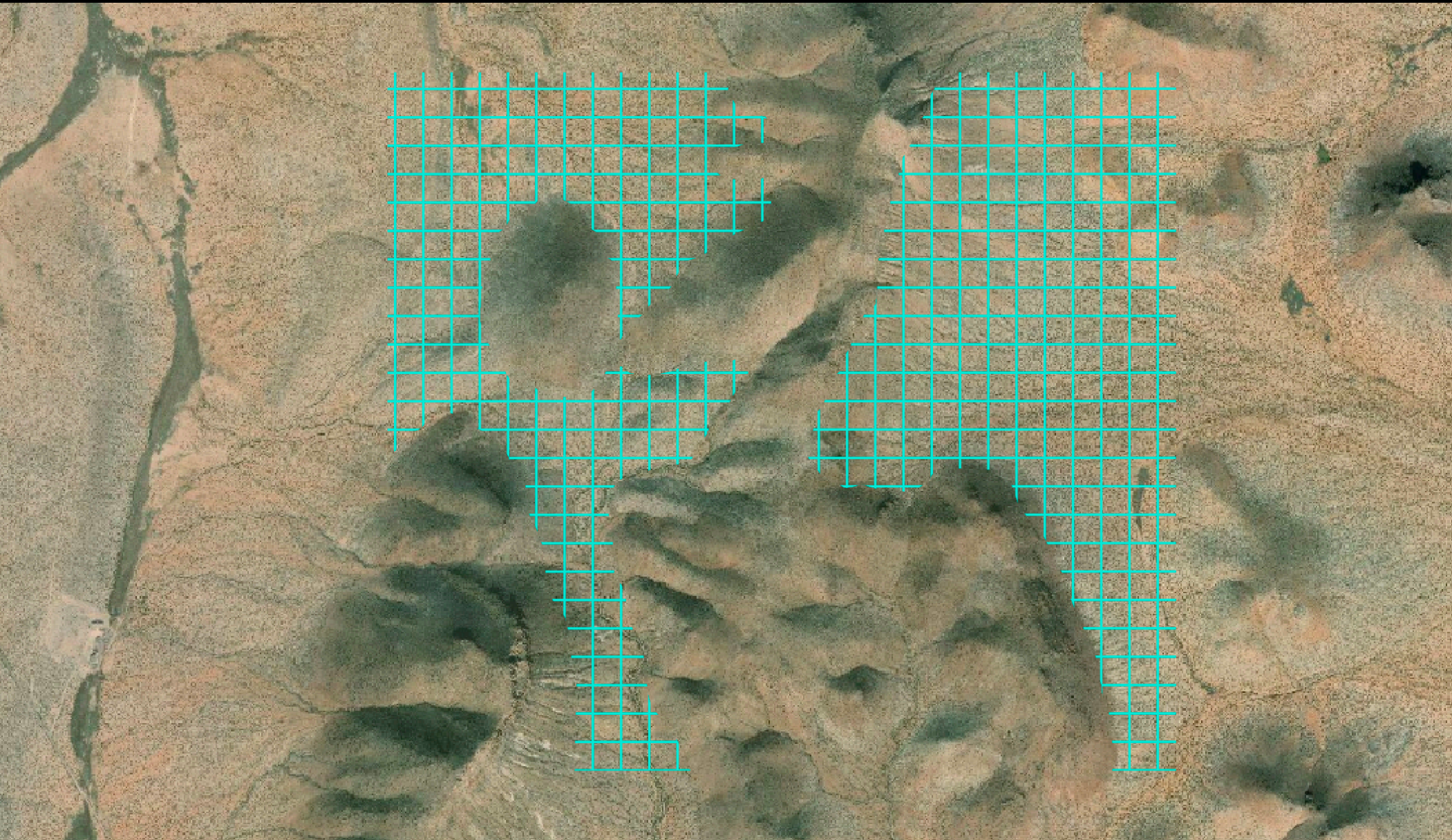
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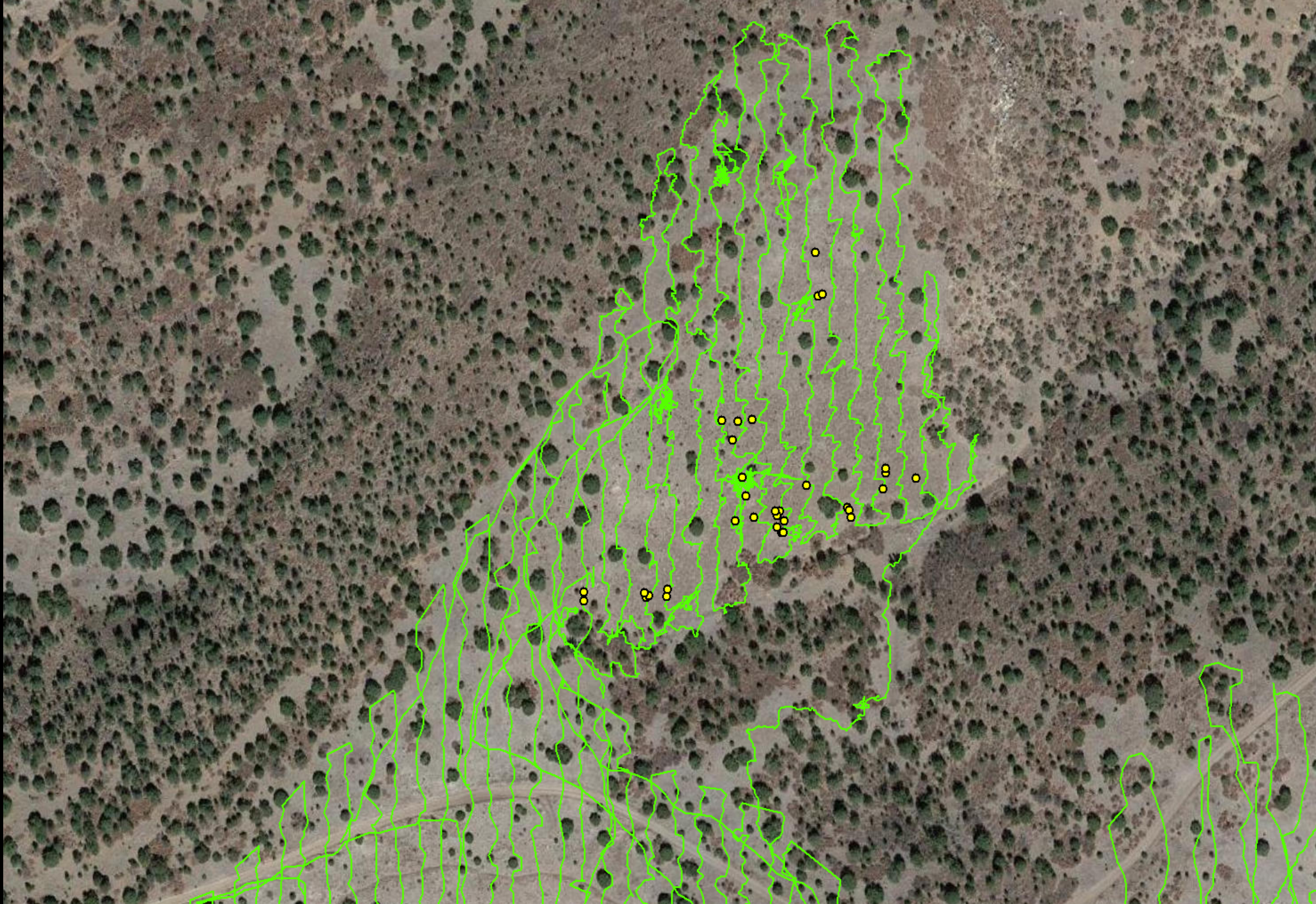
What do we need to know?





What do we need to know?



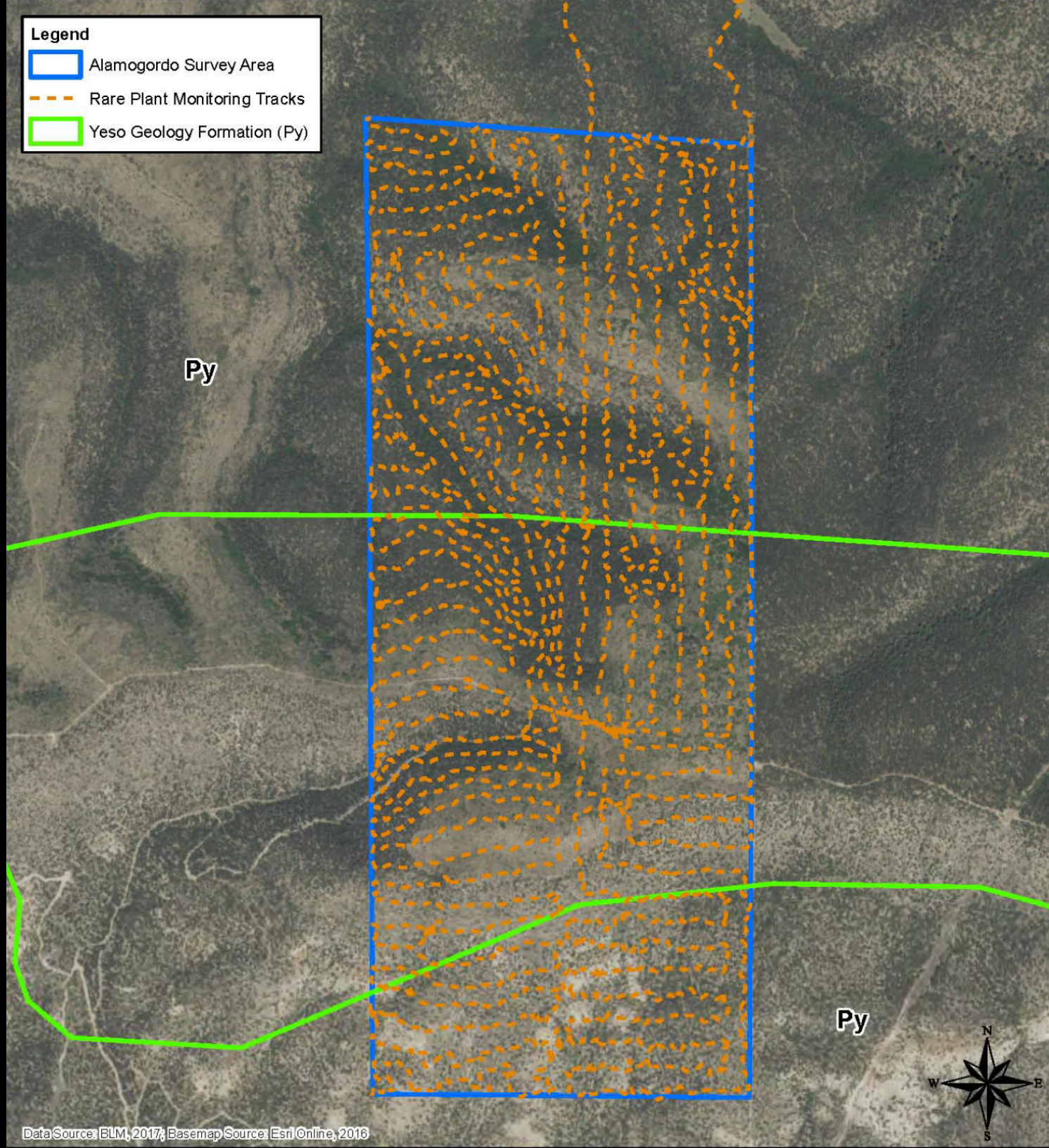


What do we need to know?



**Legend**

-  Alamogordo Survey Area
-  Rare Plant Monitoring Tracks
-  Yeso Geology Formation (Py)







Where is this plant? *Coryphantha sneedii* var. *sneedii* (Sneed's pincushion)









Where is this plant? *Coryphantha sneedii* var. *sneedii* (Sneed's pincushion)





Where is this plant?

*Peniocereus greggii* var. *greggii* (night-blooming cereus)





Where is this plant?

*Peniocereus greggii* var. *greggii* (night-blooming cereus)





Where is this plant?

*Peniocereus greggii* var. *greggii* (night-blooming cereus)





Can we use the other plants growing nearby? If so, how?



# What plants do we see most often near night-blooming cereus?

| Common name         | Scientific name                              | USDA code | With PEGRG |
|---------------------|----------------------------------------------|-----------|------------|
| creosote            | <i>Larrea tridentata</i>                     | LATR2     | 87%        |
| fluffgrass          | <i>Dasyochloa pulchella</i>                  | DAPU7     | 77%        |
| bush muhly          | <i>Muhlenbergia porteri</i>                  | MUPO2     | 68%        |
| sixweeks threeawn   | <i>Aristida adscensionis</i>                 | ARAD      | 57%        |
| tarbush             | <i>Flourensia cernua</i>                     | FLCE      | 51%        |
| sixweeks grama      | <i>Bouteloua barbata</i> var. <i>barbata</i> | BOBA2     | 49%        |
| mariola             | <i>Parthenium incanum</i>                    | PAIN2     | 47%        |
| hairyseed bahia     | <i>Bahia absinthifolia</i>                   | BAAB      | 45%        |
| desert zinnia       | <i>Zinnia acerosa</i>                        | ZIAC      | 43%        |
| desert-holly        | <i>Acourtia nana</i>                         | ACNA2     | 38%        |
| Gordon's bladderpod | <i>Physaria gordonii</i>                     | LEGO      | 32%        |
| honey mesquite      | <i>Prosopis glandulosa</i>                   | PRGL2     | 28%        |
| leatherweed         | <i>Croton pottsii</i>                        | CRPO5     | 26%        |



What if we flip that around?

- if we see night-blooming cereus, we are likely to see [...]  
 $\text{Pr ( creosote bush | night-blooming cereus )}$
- if we see [...] we are likely to see night-blooming cereus  
 $\text{Pr ( night-blooming cereus | creosote bush )}$



# What about associated species?

| associate                      | sensitivity | precision |
|--------------------------------|-------------|-----------|
| <i>Linum puberulum</i>         | 0.048       | 0.500     |
| <i>Ditaxis neomexicana</i>     | 0.087       | 0.375     |
| <i>Boerhavia wrightii</i>      | 0.125       | 0.186     |
| <i>Sisymbrium irio</i>         | 0.125       | 0.100     |
| <i>Thymophylla pentachaeta</i> | 0.163       | 0.077     |
| <i>Tiquilia canescens</i>      | 0.221       | 0.089     |
| <i>Zinnia acerosa</i>          | 0.452       | 0.059     |
| <i>Flourensia cernua</i>       | 0.490       | 0.043     |
| <i>Dasyochloa pulchella</i>    | 0.779       | 0.034     |
| <i>Gutierrezia sarothrae</i>   | 0.144       | 0.006     |
| <i>Larrea tridentata</i>       | 0.875       | 0.033     |

Pr ( creosote bush | night-blooming cereus ) -> sensitivity

Pr ( night-blooming cereus | creosote bush ) -> precision





Where is this plant? *Pediomelum pentaphyllum* (Chihuahuascurfpea)





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# What about associated species?

| associate                                  | sensitivity | precision |
|--------------------------------------------|-------------|-----------|
| <i>Munroa squarrosa</i>                    | 0.236       | 0.833     |
| <i>Chamaesyce parryi</i>                   | 0.179       | 0.792     |
| <i>Boerhavia spicata</i>                   | 0.198       | 0.583     |
| <i>Dalea lanata</i> var. <i>terminalis</i> | 0.217       | 0.575     |
| <i>Amaranthus acanthochiton</i>            | 0.406       | 0.551     |
| <i>Pectis angustifolia</i>                 | 0.462       | 0.445     |
| <i>Artemisia filifolia</i>                 | 0.330       | 0.427     |
| <i>Boerhavia torreyana</i>                 | 0.575       | 0.407     |
| <i>Sporobolus flexuosus</i>                | 0.689       | 0.380     |
| <i>Chamaesyce micromera</i>                | 0.368       | 0.315     |
| <i>Atriplex canescens</i>                  | 0.613       | 0.275     |
| <i>Portulaca oleracea</i>                  | 0.160       | 0.258     |
| <i>Dimorphocarpa wislizeni</i>             | 0.368       | 0.205     |
| <i>Ipomopsis longifolia</i>                | 0.179       | 0.151     |

Pr ( Parry's sandmat | Chihuahua scurfpea ) -> sensitivity

Pr ( Chihuahua scurfpea | Parry's sandmat ) -> precision



