Gradient of 3 by 3 sites

Panoche - north, south, plateau ie PAN1,2,3

Cuyama - sites 1, 3, 6

Site one: Pistachio farm.

Site 3: On highway 166, not far off road

Mojave region - Barstow, heart of mojave, sheephole

30 shrub open pairs per shrub species per site (most dominant: Ephedra, atriplex, larrea, matchweed)

|  |  |
| --- | --- |
| x | x1 - was measured as the longest diameter of the shrub plant |
| x | x2 - was the diameter directly perpendicular to diameter x1 |
| h | h - was measured as the tallest branch with leaves |
| methods | Quadrat sampling was conducted with a 50 cm X 50 cm quadrat construction from white PVC pipe |
| methods | Shrubs for each site were chosen within ten meters of one another in a generally linear pattern |
| methods | Open plots were placed approximately two meters from the shrub exterior |
| methods | Quadrats were placed close to the base of the shrub plant such that it was underneath as much of shrub cover as possible. |
| methods | Two soil cores 5 cm in depth were taken at all shrub/open pairs and place into separate coin envelopes. |
| methods | Shrub cores were taken close to shrub base and open cores were taken in center. |
| # sp | Plant species were delineated during the first sampling event by visually obvious differences |
| total seed mass | mass of seeds/mass of sand |
| 2013 census | 1 = Jan 20, 2 = Feb 20 |
| 2014 census | 3 = Mar 25, 28 |
| 2015 census | March |
| 2016 census | March |
| 2017 census | April |

Chose shrubs using transects. Open areas 2+ m away. North side of shrubs.

In each microsite record: Plant height, (more variables).

**Burrows:** presence/absence, #, entrance diameter x, y.

Shrub x, y, z. Species.

Clip RDM near ground within transect. Place over beat sheet and shake out arthropods for 30 seconds. Collect arthropods and place in vials. -> 540 vials

Put RDM in paper bags, label.

**Pitfalls**

For 20 shrub/open pairs per species per site (360 vials total if one species per site?). Dig into ground, parallel to surface. Fill halfway with a 50% propylene gycol/water mix with a few drops of soap. Leave out for approximately 72 hours. Check traps daily if possible to ensure no verts are trapped and to top up liquid levels. Pick up and collect remaining RDM etc.

Ship back to Canada