**Table S1**: The abundance of individual winter annual and herbaceous perennial species in the research enclosures depending on treatment. Values for season treatments reflect species abundances for spring-dominant or winter-dominant cool-season rain across both the LOW and HIGH treatments. Values for quantity treatments reflect species abundances for LOW and HIGH treatments across both seasonal treatments.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Rainfall Treatment |
|  |  |  | Season |  | Quantity |
|  | Common Name | Latin Name | Spring | Winter |  | LOW | HIGH |
| **Native** | Desert Marigold | *Baileya multiradiata* | - | 9 |  | 1 | 8 |
|  | Booths' Evening Primrose | *Eremothera boothii* | - | 10 |  | 3 | 7 |
|  | Brittle Spineflower | *Chorizanthe brevicornu* | - | 5 |  | 4 | 1 |
|  | Parry's Spineflower | *Chorizanthe parryi* | 1 | - |  | 1 | - |
|  | Devil's Spineflower | *Chorizanthe rigida* | - | 5 |  | - | 5 |
|  | Winged Nut Forget Me Not | *Cryptantha pterocarya* | 2 | 19 |  | 8 | 13 |
|  | Pepperweed | *Lapidium* spp. | 2 | 9 |  | 5 | 6 |
|  | Parry's Linanthus | *Linanthus parryae* | - | 3 |  | 2 | 1 |
|  | Desert Dandelion | *Malacothrix glabrata* | - | 5 |  | - | 5 |
|  | Whitestem Blazing Star | *Mentzelia albicaulis* | - | 1 |  | - | 1 |
|  | Blond Psyllium | *Plantago ovata* | - | 10 |  | 2 | 8 |
|  | Combseed | *Pectocarya* spp*.* | - | 10 |  | 2 | 8 |
|  | Desert Globemallow | *Sphaeralcea ambigua* | - | 2 |  | - | 2 |
|  |  |  |  |  |  |  |
| **Invasive** | Redstem Filaree | *Erodium cicutarium* | 2 | 9 |  | 3 | 8 |
|  | Mediterranean Grass | *Schismus barbatus* | 11 | 32 |  | 19 | 24 |
| **TOTAL - SPECIES** |  |  | **5** | **14** |  | **11** | **14** |
| **TOTAL - ABUNDANCE** |  |  | **18** | **129** |  | **50** | **97** |