**Metadata for *Dryad* for: ‘Trait-mediated community assembly: distinguishing the signatures of biotic and abiotic filters’**

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**File 1**

16\_01\_2017\_Traitdata.csv

Functional trait data for transplants and individuals of the resident community within each block. Blocks consisted of a “no competition plot”, a “competition plot”, and a control plot of the resident community and varied in their soil moisture. The traits measured include specific leaf area, leaf dry matter content, height, stem specific density, and plant biomass. All traits were measured at the end of the growing season.

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| Column header | Units | Description |
| Block |  | Unique number for each block of three treatment plots |
| Plot.treatment |  | Plot treatment: 1 = no competition, 2= competition, 3 = control (resident community plot) |
| Plot.soil.moisture | % | Average percent soil moisture of each plot, with measurements taken every two weeks throughout the growing season. |
| Species |  | Plant species: As= *Ascelpias syriaca,* At= *Ascelpias tuberosa*, Bi= *Bromus inermis,* Cc= *Conyza canadensis,* Em= *Eupatorium maculatum,* Hc= *Hieracium caespitosum,* La = *Liatris aspera,* Mf= *Monarda fistulosa*, Pv= *Panicum virgatum,* Rh= *Rudbeckia hirta,* Sc= *Solidago canadensis*, Vs= *Vicia sativa* |
| Height | cm | Distance from the ground to terminal leaf  |
| SLA | mm2/mg | Specific leaf area: leaf area (mm2) divided by dry mass (mg) |
| LDMC | mg/g | Leaf dry matter content: leaf dry mass (mg) divided by fresh mass (g) |
| SSD | mg/mm3 | Stem specific density: the dry mass (mg) of a 10 cm segment of stem divided by the fresh volume of the segment (mm3) |
| Biomass | g | Dry mass of aboveground plant tissue. |

**File 2**

16\_01\_2017\_relative\_abundance\_of\_established\_community.csv

Relative abundance of species within the control, resident community plot. Values were used to weight the per-individual biomass in our calculations of community weighted means.

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| Column header | Description |
| Block | Unique number for each block |
| As | Relative abundance of *Ascelpias syriaca* within our 1 m2 control plots |
| Bi | Relative abundance of *Bromus inermis* within our 1 m2 control plots |
| Em | Relative abundance of *Eupatorium maculatum* within our 1 m2 control plots |
| Cc | Relative abundance of *Conyza canadensis* within our 1 m2 control plots |
| Hc | Relative abundance of *Hieracium caespitosum* within our 1 m2 control plots |
| Rh | Relative abundance of *Rudbeckia hirta* within our 1 m2 control plots |
| Sc | Relative abundance of *Solidago canadensis* within our 1 m2 control plots |