Metadata for Hahn et al. 2018. Effects of short- and long-term variation in resource conditions on soil fungal communities and plant responses to soil biota. Frontiers in Plant Science.

**Dataset:** Hahn\_FPS\_PlantTraitDATA.csv

**Details:** Contains data on plant traits collected from the greenhouse experiment. Please refer to the manuscript for additional details. All data were collected by the authors.

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| **Variable** | **Description** |
| Soil | Soil origin: WA=Washington (or Montana) USA; MN=Minnesota (or North Dakota) USA |
| Water | Watering treatment: W=wet (or high water); D=Dry (or low water) |
| Microbes | Soil biota treatment: L=live; S=sterilized via autoclaving |
| Pop | Plant population, each letter represents a different population |
| Plant | Plant rep number |
| Fam | Plant family, same family indicates full-siblings collected from the same follicle from a single mother plant |
| Height | Plant stem height (cm) |
| Trichome | Trichome density (# trichomes per 33 mm2) |
| LeafDryWt | Leaf dry weight (g) |
| Area\_cm | Leaf area (cm2) |
| latex | Mass of latex exuded from leaf (mg) |
| Shootmass | Mass of aboveground plant tissue (includes the mass of the leaf removed for SLA) (mg) |
| Root | Mass of belowground plant tissue (mg) |
| totbm | Total plant biomass (mg) |
| rootshoot | Root:shoot ratio |
| sla | Specific leaf area (leaf area cm2/dry leaf mass g) |
| Thrip | Heavy thrip damage is indicated by 1 |

**Dataset:** Hahn\_FPS\_AMFColDATA.csv

**Details:** Contains data on colonization of roots by mycorrhizae fungi (AMF) structures in the greenhouse experiment. All plants were in the 'live' soil microbial treatment. Please refer to the manuscript for additional details. All data were collected by the authors.

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| **Variable** | **Description** |
| Soil | Soil origin: WA=Washington (or Montana) USA; MN=Minnesota (or North Dakota) USA |
| Water | Watering treatment: W=wet (or high water); D=Dry (or low water) |
| Pop | Plant population, each letter represents a different population |
| Fam | Plant family, same family indicates full-siblings collected from the same follicle from a single mother plant |
| Plant | Plant rep number |
| AM\_perc | Percent colonization of AMF hyphae |
| P\_Vesicles | Percent colonization of AMF vesicles |
| P\_Arbuscules | Percept colonization of AMF arbuscules |
| P\_nonAMF | Percent colonization of non-AMF hyphae |