Greenhouse pots used: bleach sterilized pots (164 mL, Ray Leach “Cone-tainer” SC10 pots, Stuewe and Sons, Oregon USA) filled with autoclave sterilized sand and vermiculite (50:50) before inocula was added.

Inocula:

* SDS product:
  + Commercial product (<https://www.tainio.com/product/spectrum-ds-biological-soil-inoculant/>)
  + Mix product as directed (50g product/14.2 L water)
  + Added 20mL of this product to each pot
* Spectrum DS “Product Microbes”:
  + We mixed up Spectrum DS at 100x the recommend amount (so added 0.5g product into 142mL autoclaved, nanopure water)
  + Plated this in 20-fold dilutions (50uL/plate) on to LB, Saltwater LB, and R2A media
  + Counted CFUs and identified morphotypes of bacteria
    - Morph1 – small white circle
    - Morph2 – smooth edge white, larger than morph1
    - Morph3 – feathered edges, big white circle
    - Morph 4 – smaller dot, pale yellow with smooth edges and orange in center
    - Morph 5 – white circle with crater shape in the middle
* Good Isolates (drought tolerant):
  + Isolated bacteria and fungi from KBS soil by Kevin Dougherty that were identified as drought tolerant through desiccation and heat stress assays. Identified to species level with Sanger sequencing.
    - 3 fungi:
      * *Penicillium griseofulvum* isolate M12
      * *Mucor fragilis*
      * *Penicillium brasilianum*
    - 3 bacteria:
      * *Bacillus megaterium strain A1127*
      * *Bacillus stratosphericus strain*
      * *Bacillus mycoides strain YPS22*
  + Tried to add 106 CFUS/pot….this equated to 100uL of each strain in liquid medium being added to 2L of autoclaved nanopure water.
  + We added 20mL of this inocula to each pot
* Bad Isolates (drought sensitive):
  + Isolated bacteria and fungi from KBS soil by Kevin Dougherty that were identified as drought sensitive through desiccation and heat stress assays. Identified to species level with Sanger sequencing.
    - 3 fungi:
      * *Fusarium sp. NRRL 34039*
      * *Mortierella alpina strain C1-2*
      * *Talaromyces sp. OTU028 AN-2016*
    - 3 bacteria:
      * *Stenotrophomonas sp. JCM 28649*
      * *Lysinibacillus xylanilyticus strain JSM 05182041*
      * *Lysinibacillus fusiformis strain GDUTAN4*
  + Tried to add 106 CFUS/pot….this equated to 100uL of each strain in liquid medium being added to 2L of autoclaved nanopure water.
  + We added 20mL of this inocula to each pot
* Sterile
  + 20mL of autoclaved nanopure water added as control inoculant