Plan for data analysis

Variation by isolate:

Create dot plot and average for each of the four experiments

Color-code dots so it’s clear which are Brazillian isolates and which are USA isolates

DLB will be on the same scale – using only evals at 48 hrs

Straw test will be on a rating scale – plot both together using two vertical axes

Lesser priority: Summarize AUDPC on DLB data from IAC-Alvorada

Summarize AUDPC on straw test data from G122

\*\* secondary analysis:

Data analysis – find isolates in common between the 2 DLB and 2 straw test experiments

10-15 isolates shared – create single table?

Variation by cultivar

Soybean cultivars – Just the disease lesion size at 48hrs

Remove outliers on a per-isolate basis

Test for significant difference by experiment before combining

Average lesion area by cultivar – could be box plots or table of avg +/- SD

Test for significant difference ???

Potentially assign groups to cultivars as highly susceptible to lower susceptible

Dry bean – DLB – -- do we get the same order of cultivars using DLB vs. Straw test???

Isolate 2B only – calculate AUDPC for 5 evals

Maybe also compare at 48hrs – but not a priority <<

Table of AUDPC avg +/- SD by cultivar

Test for significant difference??

Dry bean – Straw test

Isolate 2D

Data are on rating scale – ordinal type of categorical data

Add values to table for DLB – avg +/- SD by cultivar

Soybean cultivars => box plot

Dry bean cultivars => 1 table with both DLB and Straw test