**Brassica Spring broadcasted Cover crops in Organic NT soybean/cereal stubble**

**Summer 2022**

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(loose guidance and project introduction given by S Wayman; otherwise this was a completely RA-driven project)

Link to original file from Google Drive: <https://docs.google.com/document/d/1_LKcHOfNG5qICDVLKUizIweY_GkavPmTEuDPvc0Js-g/edit>

**Site Location:**

Musgrave Field E4

**Hypothesis:**

**Data Collection:**

***Random Representative Quadrat Sampling Protocol:***

1. Place the 0.25m2 quadrat in such a way that represents all species within the plot and their relative densities.
2. Drop quadrat
3. Cut all target biomass within the quadrat at the soil surface and place it in the plant’s assigned paper bag.
4. Cut weed species at the soil surface and place them into separate bags.

**Note:** Only sample plants if they exceed 2 inches. Control plots should only be assigned one bag for the plant biomass within it.

***Canopeo Percent Cover Protocol:***

1. Approximate the center of the plot.
2. Use a meter stick to standardize the distance from which the percent cover will be analyzed.
3. Using the app, *Canopeo*, determine the percent cover of the plot by placing your phone on top of the meter stick (vertical) and record results.

***Speculative Percent Cover Protocol:***

1. Have team members align themselves on either side of the plot.
2. Give each other enough time (20-30 seconds) to determine the percent cover of the target crop, excluding the weed species, within the plot but DO NOT tell the others.
3. Once everybody has determined the percent cover, announce this value on the count of three (For example: “Three, two, one, 35% ”).
4. Using all of the team members' answers, decide amongst eachother the most accurate estimate and record this collectively determined value.