



Winter Lettuce Trial

(Study conducted by RD4AG, a third-party contract research organization)

Trial Description

Two rates of Impello's Continuum™ (1 qt/a and 2 qt/a) were applied as treatments to Lettuce during the Fall/Winter of 2022. The treatments were applied 1x per month. Additionally, negative and positive controls were also applied. The negative control was an untreated lettuce block, and a "growers standard" (Toggle, Acadian's seaweed formulation for the region) was used as the positive control.



Treatment: UTC 1 qt / a 2 qt / a Toggle

Trial Results

Both rates of Continuum™ increased the compactness of each cultivar, compared to the untreated control. The lower rate (1qt/a) increased cultivar compactness compared to the higher rate, as well as both controls (Fig 1). Furthermore, we can see that the application of Continuum™ also increased the percent of lettuce marketable stand, compared to the untreated control (Fig 2).

Conclusions from Grower on Trial

- This was a combination of slightly improved stands and a bit more harvestable crop. Added together, there was a minor rate response trend, a trend to be better than Toggle (Acadian's seaweed formulation for the region) and clearly better than the check.
- There was also a good definition for "Greenness" in the summed NDVI evals. That is, we added up the data from the 4 counts, and the "season" total showed that the Impello and Toggle were greener than the check (UTC). This implies that there is more chlorophyll/nitrogen present, and the crop is happier.
- The total pounds of lettuce harvested per acre was consistent with the same trends as the two data points above, but not significantly.
- The Percent marketable, based on internal quality, as with the total pounds, followed the same trends as the boxes per acre. That is, a low rate was almost as good as the high rate, both better than the check and the Toggle. Not significantly at the probability used, but corroborating to be sure.

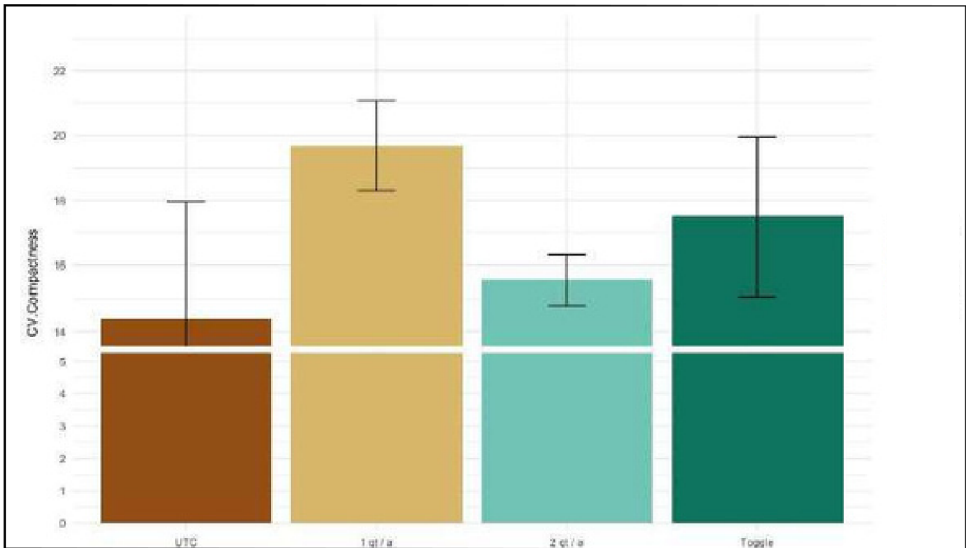


Fig.1: Cultivar Compactness

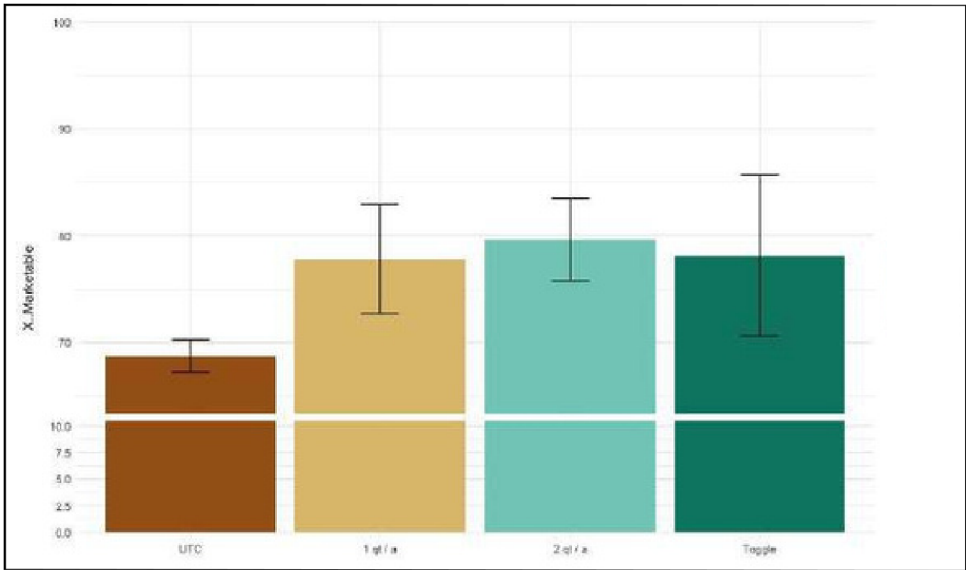


Fig.2: %-Marketable Stand