

ROTATIONS AND FERTILITY RECOMMENDATIONS BASED UPON THE HANEY SOIL TEST RESULTS - 2020

Canola

Overview: CS 2300 Canola plots received three levels of nitrogen fertilization rates in accordance to the Haney soil analysis. Of the three canola trials carried out in 2020, this trial produced the greatest yields; albeit, still low.

0%, 30%, and 100% of the recommended nitrogen was applied to the respective plots and end yields compared.

Conclusion: There was no significant difference in canola yield when subject to either 0%, 30%, or 100% of the Haney soil test recommended fertilization levels ($P=0.13$). Applying 0% of the recommended nitrogen led to the lowest yield of 6.8 bu/ac; applying 100% led to the highest, 8.3 bu/ac. The C.V. is 54.8, too high for results to be accepted as reliable. As with other experiments, this is likely due to weather-induced stress.

Seeding Date: May 18

Seeding Depth: 1 in.

Seeding Rate: 10 plants/sq. ft.

Harvest Date: Oct. 07

Applications:

May 13: Glyphosate - 0.66 L/ac

Heat - 0.059 L/ac

Merge - 0.2 L/ac

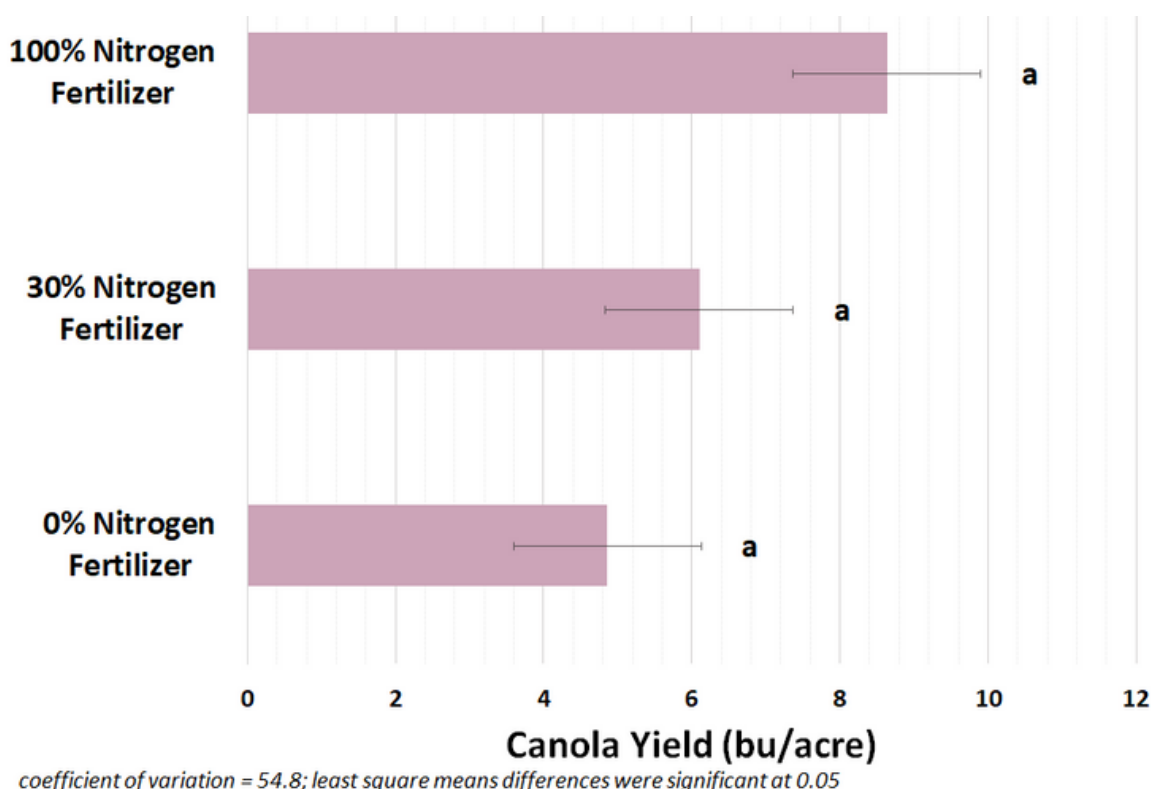
May 15: Glyphosate - 0.66 L/ac

May 18: 13-33-0-15S - 120 lb/ac

June 1: Eclipse A - 0.118 L/ac

Eclipse B - 0.338 L/ac

Sept. 26: Reglone - 0.69 L/ac



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Field Pea

Overview: As with canola, AAC Lacombe pea plots received three levels of fertilization rates in accordance to the Haney soil analysis recommendations. 0%, 30%, and 100% of the recommended nitrogen was applied to respective pea plots and the end yields compared.

Conclusion: Treatment yields all fell within the range of 6-9 bu/acre. There was no significant difference in pea yields when subject to either 0%, 30%, or 100% of the Haney soil test nitrogen recommendations ($P=0.4$). As with canola, the coefficient of variation coinciding with the pea yield analysis was high at 28.4. Consequently, the results are unlikely to be indicative of true treatment effects.

Seeding Date: May 13

Seeding Depth: 1.5 in.

Seeding Rate: 10 plants/sq. ft.

Harvest Date: Sept. 09

Applications:

May 13: Glyphosate - 0.66 L/ac

Heat - 0.059 L/ac

Merge - 0.2 L/ac

May 13: 13-33-0-15S - 120 lb/ac

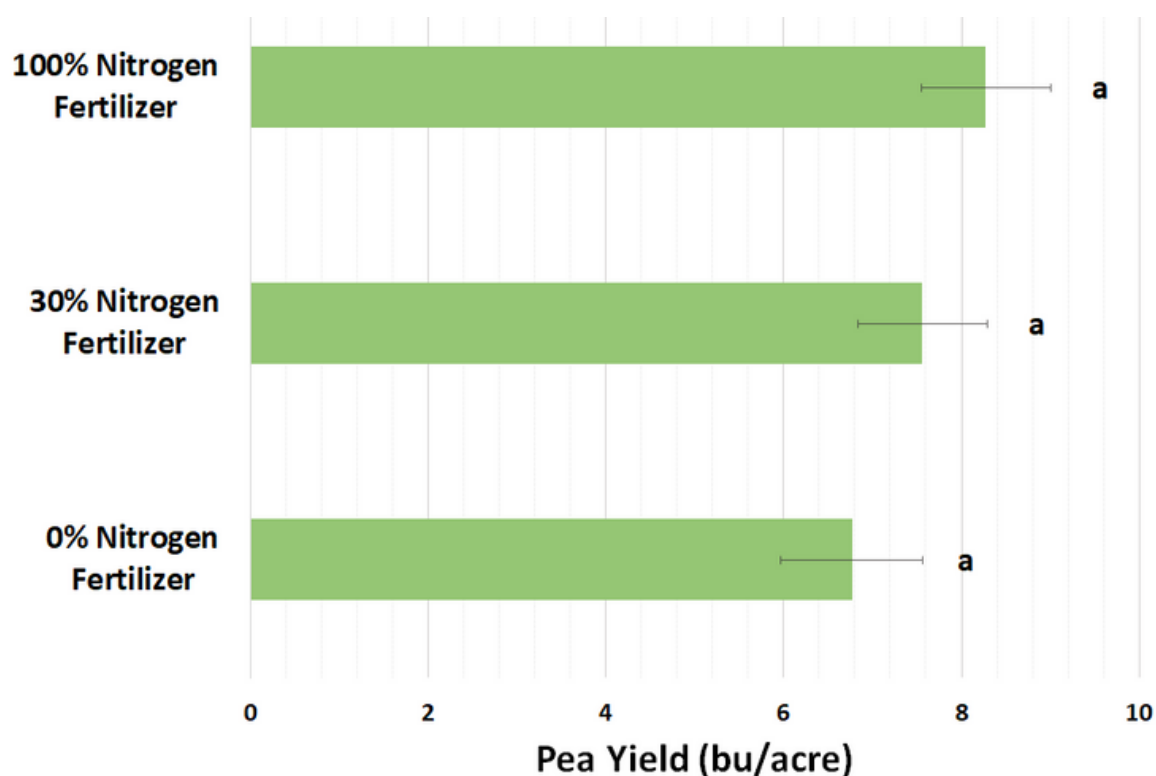
May 15: Glyphosate - 0.66 L/ac

May 18: 13-33-0-15S - 120 lb/ac

June 10: Viper - 0.434 L/ac

UAN - 0.81 L/ac

Aug. 11: Reglone - 0.69 L/ac



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Spring Wheat

Overview: AC Stettler wheat crop recieved three levels of nitrogen application in accordance to recommendations by the Haney soil test; that is, 0%, 30%, and 100% of the recommended nitrogen levels. This trial exhibited the highest wheat yields on the farm in 2020.

Conclusion: The mean weight yields from each of the three treatments spanned two bushels/acre (50 bu/ac to 52 bu/acre). Similarly, test weight values for each treatment were nearly the same, 63-64 lb/bu. There was no significant difference in wheat yield regardless of the level of nitrogen applied ($P=0.98$). Likewise, test weight values were not significantly different ($P=0.47$), nor were protein contents ($P=0.85$).

Seeding Date: May 15

Seeding Depth: 1 in.

Seeding Rate: 30 plants/sq. ft.

Harvest Date: Sept. 30

Applications:

May 13: Glyphosate - 0.66 L/ac

Heat - 0.059 L/ac

Merge - 0.2 L/ac

May 15: Glyphosate - 0.66 L/ac

May 15: 13-33-0-15S - 120 lb/ac

June 5: Prestige A - 0.32 L/ac

Prestige B - 0.81 L/ac



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