



Wheatland Conservation Area Inc.

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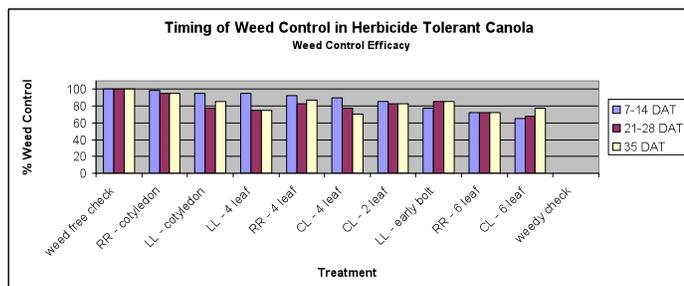
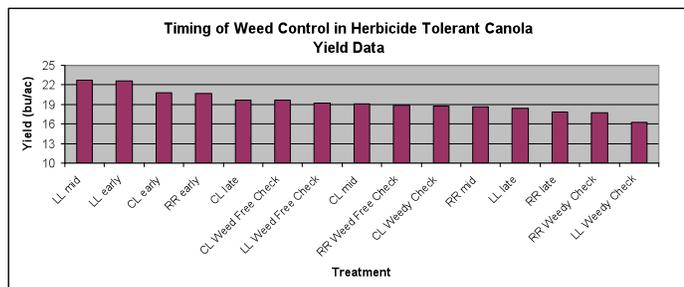
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Timing of Weed Control in Herbicide Tolerant Canola

This project was set up to demonstrate to producers how timing of weed removal in herbicide tolerant canola affects plant stand and yield. Three herbicide tolerant canola varieties were sprayed with their respective herbicide type at three different recommended stages to show differences in weed control efficiency, plant stand development, and yield. Weedy checks with no weed control were included to compare any effects of weeds and hand weeded checks included to compare any effects related to crop tolerance. The project was seeded over two reps to provide added consistency of the demonstrated treatments.

Overall results from this demonstration suggests a higher yield trend in most cases by applying the early application of herbicide regardless of which system was used. This was most likely due to the early season control of emerged weed populations which, if not sprayed, would have competed with the young crop. Weed free checks were lower in yield than the early herbicide treatments, possibly due to canola being sensitive to weed pressure at early growth stages where small weeds may have competed with the crop before reaching a size where they could be seen and easily picked. Mid and late herbicide applications, although resulting in lower yields than the early herbicide treatments, were comparable to yields from the weed free check providing good control of weeds. The weedy checks were lowest yielding overall compared to their corresponding herbicide system applications.

When looking at the weed control efficacy, early and mid applications of the three herbicide systems had excellent weed control 7-14 days after treatment enabling the crop to get ahead of any other emerging weeds. The late applied herbicide treatments tended to show less control at 7-14 days interval due to the time needed for the chemical to move through the larger plants. Under all three herbicide systems there was no observed plant damage and delay in plant maturity.



Acknowledgements

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