

## Objective:

To understand how straight cutting and pre-harvest aids effect harvest efficiency and seed characteristics

## Treatments:

- Reglone
- Heat & glyphosate
- Glyphosate
- Naturally Ripened
- Swathed

Five replications of each treatment on Bayer L233P (shatter-resistant)

## Comparisons:

- Ground Speed (GPS)
- Yield (weigh wagon)
- Fuel consumption
- Engine power
- Productivity (bu/hr)
- Efficiency (bu/L)
- Seed characteristics (size, oil content, green seed, dockage)
- Time to harvest

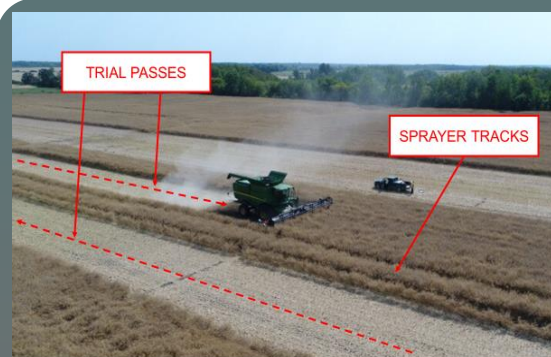


Figure 1: Harvesting strip trials between sprayer tracks (photo credit: Bayer)

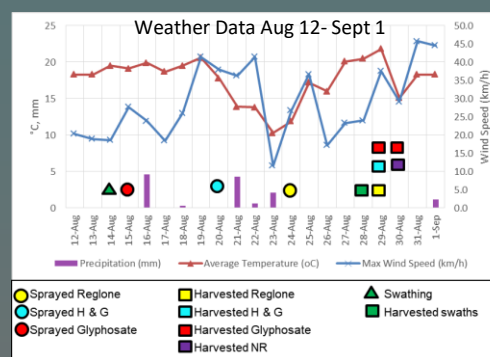
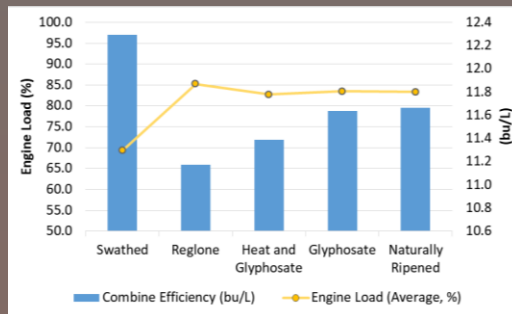


Figure 2: Weather and harvest data for the 2017 season

Cost of Production (compared to swathing)			
Reglone	Heat & Glyphosate	Glyphosate	Natural Ripening
\$19.71	\$21.02	\$8.92	-\$6.62

## Significant Effects :

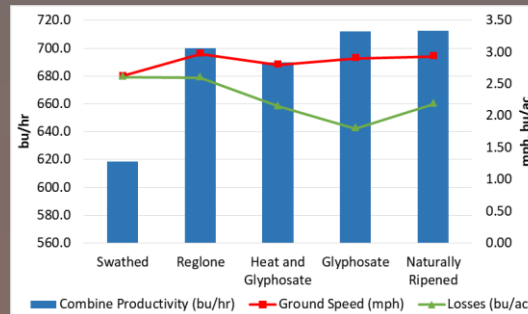
Productivity (bu/hr), efficiency (bu/L), fuel consumption (L/hr), engine load, harvest speed, and threshing losses.\*



## Non- Significant Effects

(no difference between treatments):

Yield, engine speed, dockage, oil content, green seed, seed weight, shatter losses, time to harvest.



\*All significant differences were between swathing and straight cut methods. There were no significant differences between any straight cut treatments, other than threshing losses where glyphosate treatments were lower than swathed and Reglone treatments.

## Conclusions:

- In good harvest conditions, straight cut methods are equally effective but vary in cost.
- In poor conditions (2016) harvest method can have a significant effect on harvest efficiency, ease, timing, weed control and economics
- It is advisable to make in-season decisions as to harvest method based on environmental conditions and crop stand
- Threshing losses are best controlled through combine settings and monitoring
- Shatter-tolerant varieties can significantly mitigate risk for straight cut harvest in canola, or late swathing

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