

Soybean Rolling Trial

Trial ID: 2020-SR01 – R.M. of Brokenhead

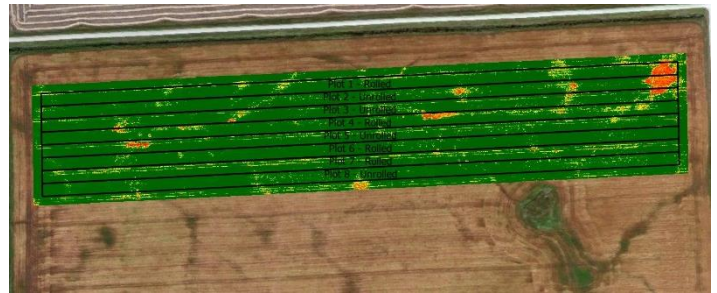
Objective: Quantify the agronomic and economic impacts of rolling in soybeans

Summary: There was no significant yield difference between rolled and unrolled soybeans. Although the cost of rolling was not paid for with an increase in yield, there is potential economic gain from rolling as a preventative measure for combine damage.

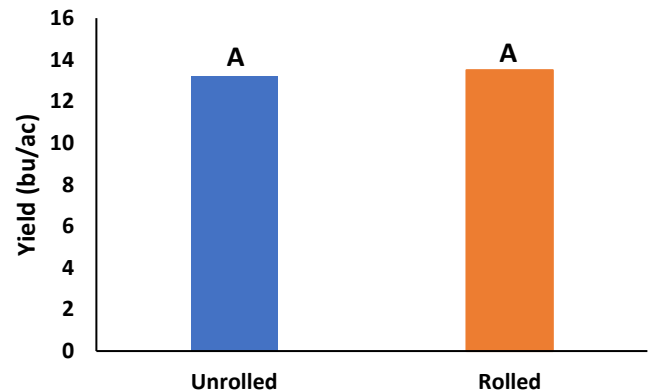
Trial Information

Treatment	Rolling (pre-emergence)
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional
Seeding Equipment	Air Drill
Seeding Date	June 12
Variety	OAC Prudence
Row Spacing	9"
Plant Stand @ V1	160 000 plants/ac
Harvest Date	November 2

NDVI Field Image August 19



Yield by Treatment



Precipitation (mm)

	May	June	July	August
Normal	54	89.9	73.4	72.6
Rainfall	11.3	74.9	49.8	110.7

Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Rolled	13.2	\$5/ac	-\$5/ac
Unrolled	13.5		
Yield Difference	-0.3		
P-Value	0.7616		
CV	10.0%		
Significance	No	Economic	No*

† Based on estimated cost of rolling

†† Because yields were not significantly different, there is no increased income to offset the cost of rolling

*Note: even though there was no increase in yield to offset the cost of rolling, the cost may be justified based on individual producer's risk tolerance and field conditions as a preventative measure for combine damage