Soybean Row Spacing Trial

Trial ID: 2020_SRS04 – R.M. of Louise

Objective: Quantify the agronomic and economic impacts of different row spacings on soybean production

Summary: Yield significantly increased by 2.4 bu/ac at 7.5" spacing compared to 15" spacing. Late season weed pressure was higher in the wider row spacing compared to the narrower spacing.

Trial Information ǂ

Treatment	7.5" vs 15" Row Spacing
Soil Texture	Clay Loam
Previous Crop	Barley
Tillage	Zero Till
Seeding Equipment	30 ft Disc Drill
Seeding Date	May 29
Variety	S0009-M2
Seeding Rate	191 000 seeds/ac
Harvest Date	September 24

ǂ Previously a perennial stand, high weed/volunteer pressure throughout the season, unable to collect accurate canopy closure data as a result. Weed Pressure evident in the true colour image

Precipitation (mm)

	May	June	July	August
Normal	61.1	89.8	68.3	72.3
Rainfall	46.4	107.9	102.8	30

Plant Stand (plants/ac)

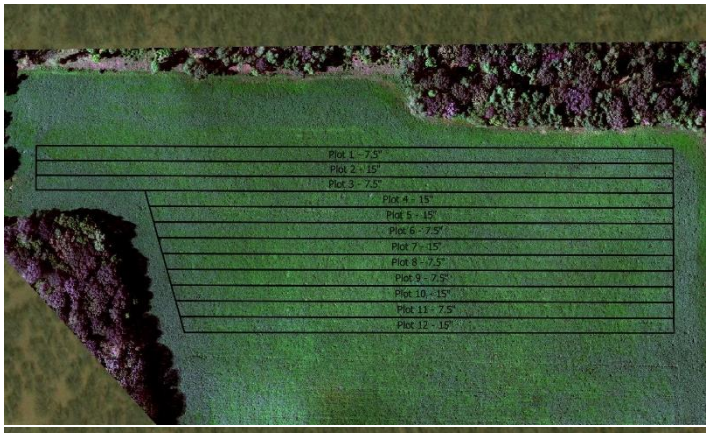
	V1	R8
7.5"	145,000	135,500
15"	158,000	138,000

Late Season Weed Pressure (R5) ǂ

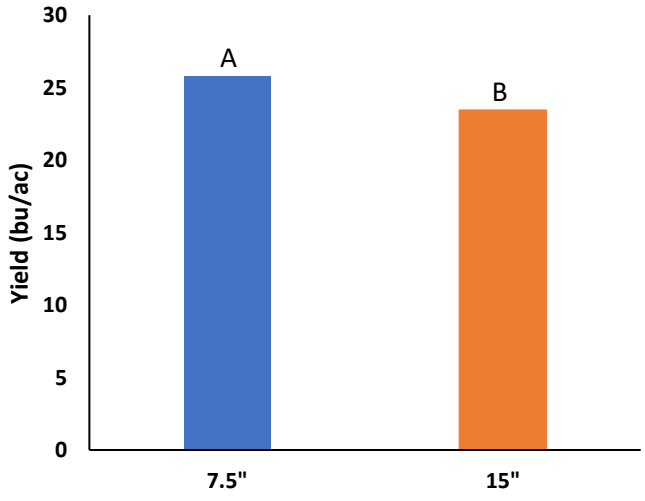
	Average # of Weeds/0.5m^2
7.5"	4.9
15"	8.9

ǂ Higher late season weed pressure in the 15" spacing compared to 30" spacing

Field Images August 15



Yield by Treatment



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Overall Yield & Economics

	Mean (bu/ac)	Change in Profit (@ soybean price of $10 - $12/bu) ǂ
7.5”	25.8	+$24 to +$29/ac
15”	23.4	
Yield Difference	2.4	
P-Value	0.0383	
CV	8.7%	
Significance	**Yes**	**Economic** **Yes**

ǂ Does not account for any equipment/operating cost differences between spacings; profit reflects increase in income with the increase in yield for soybeans on 7.5” spacing compared to soybeans on 15” spacing

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