

Dry Bean Tillage Trial

Trial ID: 2020-DBT01 - R.M. of Roland

Objective: Quantify the agronomic and economic impacts of strip-till vs. conventional till systems for dry bean production

Summary: There was no significant yield difference between tillage systems, however, pinto beans in strip-till plots were less affected by spring sandblasting than pinto beans in conventional till plots. Spring sandblasting can have economic consequences if re-seeding is necessary.

Trial Information[†]

Treatment	Strip vs Conventional Till	
Rural Municipality	Roland	
Soil Texture	Very Fine Sandy Loam / Clay	
Previous Crop	Canola	
Seeding Date	May 18	
Variety	SV6139R Pinto	
Seeding Rate	71 000 seeds/ac	
Row Spacing	30"	
Plant Stand @ V8	51 000 plants/ac	
Harvest Date	August 29	
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+A 70-30-0-5 fertilizer blend was banded 6" below the seed in the strip-till treatment and broadcast/incorporated in the conventional till treatment

Precipitation (mm)

	May	June	July	August
Normal	53.8	80.6	65.7	71
Rainfall	29.1	69.1	59	26.7

Early Season Observations





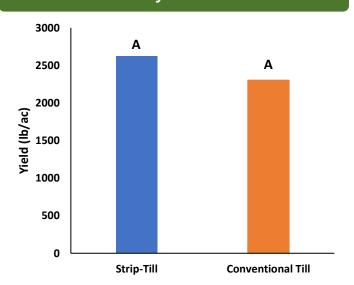
<u>Left:</u> sandblasted pinto beans in conventional till plot in early June

Right: strip-till plots were less affected by sandblasting in early June

NDVI Field Image July 25



Yield by Treatment







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Overall Yield & Economics

	Mean (lb/ac)
Strip-Till	2629
Conventional Till	2304
Yield Difference	325
P-Value	0.1468
CV	10.4%
Significance	No

Important economic consideration:

- Re-seed due to sandblasting in conventional tilled areas of the trial
- Re-seed operation in dry beans can be in the neighbourhood of **\$80/ac**