

Triticale maximum yield experiment

WRITTEN BY

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Location: Balldale

Growing season rainfall:

Annual: 355mm (avg 504mm)

GSR: 135mm (avg 312mm)

Stored moisture: 72mm

Soil:

Type: Red chromosol

pH (CaCl₂): 5.1

Colwell P: 82mg/kg

Deep soil N: 73kg/ha

Sowing information:

Sowing date: 23 May 2008

Fertiliser: 90kg/ha MAP

Varieties: Tobruk/Kosciusko

Row spacing: 18cm

Paddock history:

2007 — wheat

2006 — canola

Plot size: 1.5 x 16m

Replicates: 3

KEY POINTS

- Triticale responded to nitrogen during 2008.
- Triticale did not respond significantly to fungicide during 2008.
- The variety Kosciusko yielded better than the variety Tobruk. Kosciusko did not respond significantly to fungicide.

Aim

To assess the level of input required to maximise the yields of triticales grown after wheat.

Method

A replicated experiment was established using differing levels of post-emergent nitrogen and fungicide to assess yield.

Results

See Table 1.

Observations and comments

The addition of 20kg/ha of nitrogen significantly increased the yield of triticales. However, the addition of fungicide did not significantly increase yield.

The most economic treatment (gross margin) was 20kg/ha of nitrogen with or without fungicide.

Kosciusko yielded better than Tobruk with fungicide. Neither Tobruk or Kosciusko responded to fungicide.

Sponsors:

GRDC, Mr C Cay, Mrs S Cay. ✓

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TABLE 1 Summary of 2008 grain yield and gross margin results for Triticale

Treatment	Yield (t/ha)	Gross Margin (\$/ha)
0 N	0.8	130
20 N ¹	1.3	274
40 N	1.6	351
60 N	1.5	300
80 N	1.2	170
100 N	1.5	259
Fungicide ² 0 N	1.2	129
Fungicide 20 N	1.5	377
Fungicide 40 N	1.5	326
Fungicide 60 N	1.4	275
Fungicide 80 N	0.9	91
Fungicide 100 N	1.2	180
Kosciusko + 40 N	1.7	348
Kosciusko + 40 N+ Fungicide	2.0	407
Average	1.4	
LSD	0.32	
CV	14.8%	

¹ Rate of post-emergent nitrogen applied at Z31. ² Two applications of 500ml/ha of 125g/L Triademefon fungicide at Z30 & Z39.
GM based on triticale delivered at harvest to local silo at \$220/t excl GST

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