

Murtoa chickpea demonstration

Method:

Four chickpea varieties were sown at 100kg/ha using the nearest neighbour design with Kaniva as the control variety. 40kg/ha Granulock 10Z was applied at sowing.

Chemical:

1L/ha Glyphosate 450, 75ml/ha Goal® (29th June)
800ml Triflur 480® (7th July)
590g Simazine 900, 290g Atrazine 900 (8th July)
250ml Gallant® west, 550g Chlorothalonil (18th Sept)
550g Chlorothalonil (5th Oct)

Results:

Table 1: Chickpea yield and quality results, Murtoa.

Location
Paul and Tim Petering
Murtoa
Growing Season Rainfall
Ave: 278mm
2004: 234mm
Soil
Type: Grey Clay
pH (H₂O): 8.1
Sowing Date
7th July 2004
Paddock History
2003: Wheat
2002: Lentils
2001: Canola

Variety	Yield (t/ha)	Defective Approx %	Poor colour Approx %	Foreign material Approx %
Flip94-090C	1.1	3.5	2	5
Kaniva*	1.1	0.9	2	4
Flip94-509C	1.0	3.4	87	9
Flip94-508C	0.9	4.0	79	2
LSD (5%)	0.6			
CV %	11.5			

* Control variety – results presented are average for the control plots at the site.

Interpretation:

- There were no significant yield differences in this trial with all of the new chickpea lines producing equivalent yields to Kaniva under low disease pressure.
- Flip94-509C and Flip94-508C were very dark in colour compared to Flip94-090C and Kaniva.
- Improved ascochyta resistance will make management of these new varieties a lot easier than over the past five years, however quality and marketing will be the key to profitability with many of Australia's markets for desi chickpeas now supplied by alternative sources.

Variety Summary

Flip94-090C will be marketed this year as **Genesis 090**. It is a kabuli type with good ascochyta blight resistance. Its yield is equivalent to Howzat but has superior ascochyta resistance. There is potential for this variety to be grown in place of Howzat to produce similar quality chickpeas for the desi market but with only one fungicide required during podding. Seed is available for the 2005 season through Australian Agricultural Commodities (AAC).

Flip94-508C will be marketed this year as **Genesis 508**. It is a late flowering, desi variety suited to longer season areas of the Wimmera. It has good ascochyta blight resistance and is likely to only require one fungicide application during podding. Genesis508 is lower yielding than Howzat in low rainfall regions. Seed is available for the 2005 season through AAC.

Flip94-509C is a kabuli type that will likely to replace Genesis508 in 2007. It has similar ascochyta resistance and quality to Genesis 508 but much higher and more stable yields.

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