

# Late Seeded Sunflower Performance

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# Reasons for Late Planting

- Late spring
  - Cool season crops planted first
  - Warm season crops generally wait to be planted second
- Field conditions
  - Extended precipitation
  - Dry, wait for precipitation
- Equipment breakdowns
- Scheduling custom applications
- Replanting because of crop injury



# Previous Late Planting Studies ND

- Schneiter and Hussain 1990
  - Carrington and Prosper
  - Planting dates early, mid, late June and 15 July
  - Dwarf, semidwarf, and conventional oilseed hybrids
- Ashley, Eriksmoen, and Whitney 2002
  - Bowman
  - Planting dates late April to mid June
  - NuSun



## RCBD with four replicates

- Prosper, ND
- Mycogen 8N272
- 22,000 plants / acre
- Planting dates
  - **29 June**
  - **6 July**
  - **13 July**



Prosper

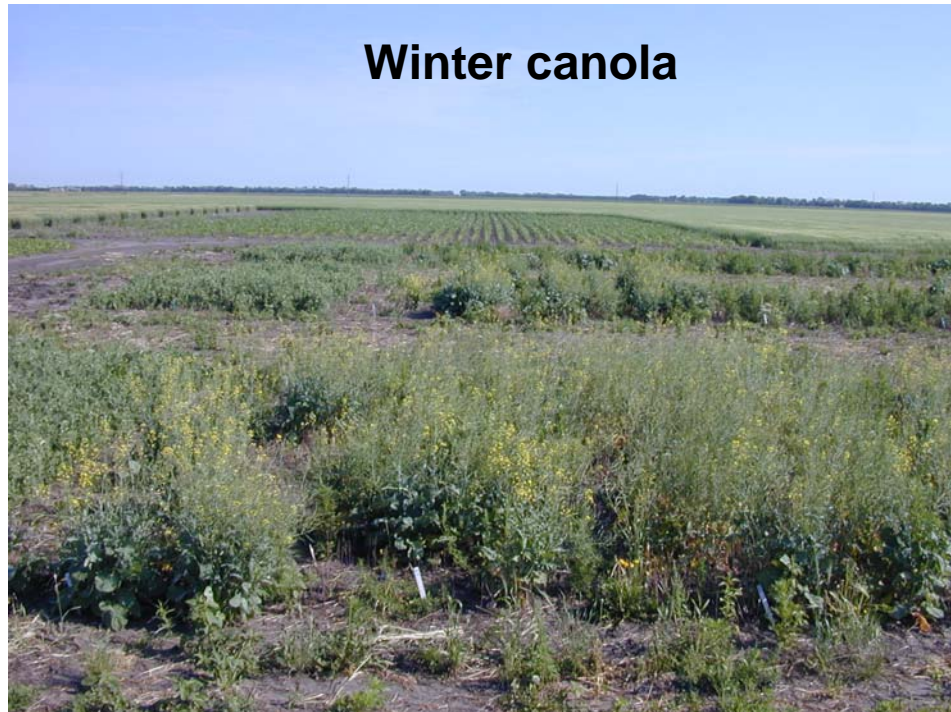




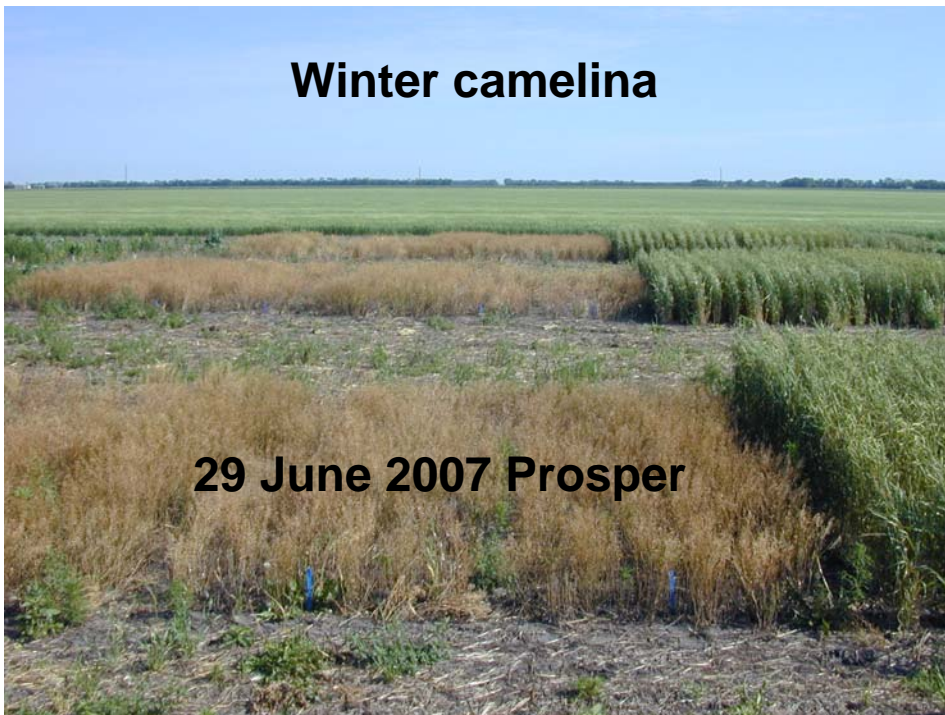
**Winter pea**



**Winter canola**



**Winter camelina**



**Winter speltz**





# Reasons for late planting (cont.)

- Double crop – Winter camelina followed by sunflower and soybean





**Planting date**

**D1 = 29 June**

**25 August 2007  
Double crop**



**26 Sept. 2007  
Double crop**







## Planting dates

**D1 = 29 June**

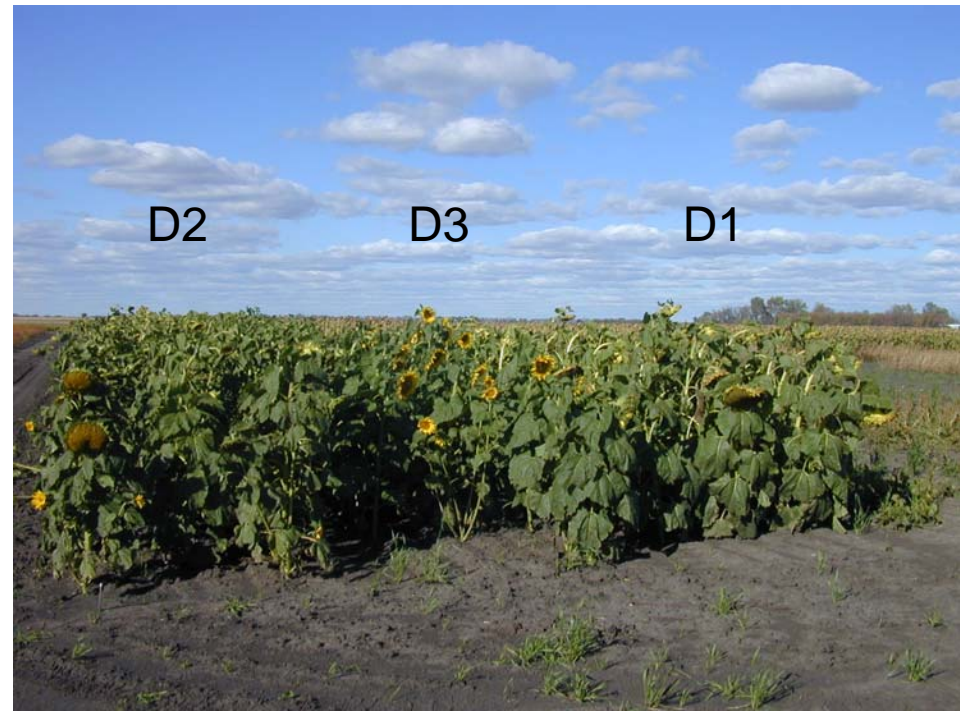
**D2 = 6 July**

**D3 = 13 July**

**25 August 2007  
Sole crop**



**26 Sept. 2007 Sole crop**





**D1**



**D2**



**13 Oct. 2007 Sole crop**



**D3 Killing frost on Oct. 27 @ 22 °F**





Mean flowering date and yield (lb/A) for Mygogen 8N272 at three planting dates and two cropping systems.



	Planting date	Flower R5.1	Seed yield
Sole	29 June	27 Aug.	2100
Sole	6 July	7 Sept.	1740
Sole	13 July	23 Sept.	†
Double crop	29 June	27 Aug.	1850

† stands compromised by rabbits





# Summary

- Planting in early July with an early hybrid (Sole) gave good yield performance
- Double cropping an early hybrid after winter camelina (planting 29 June) gave good yield performance
- Other short season crops may also show potential for double cropping after winter camelina





# Questions

