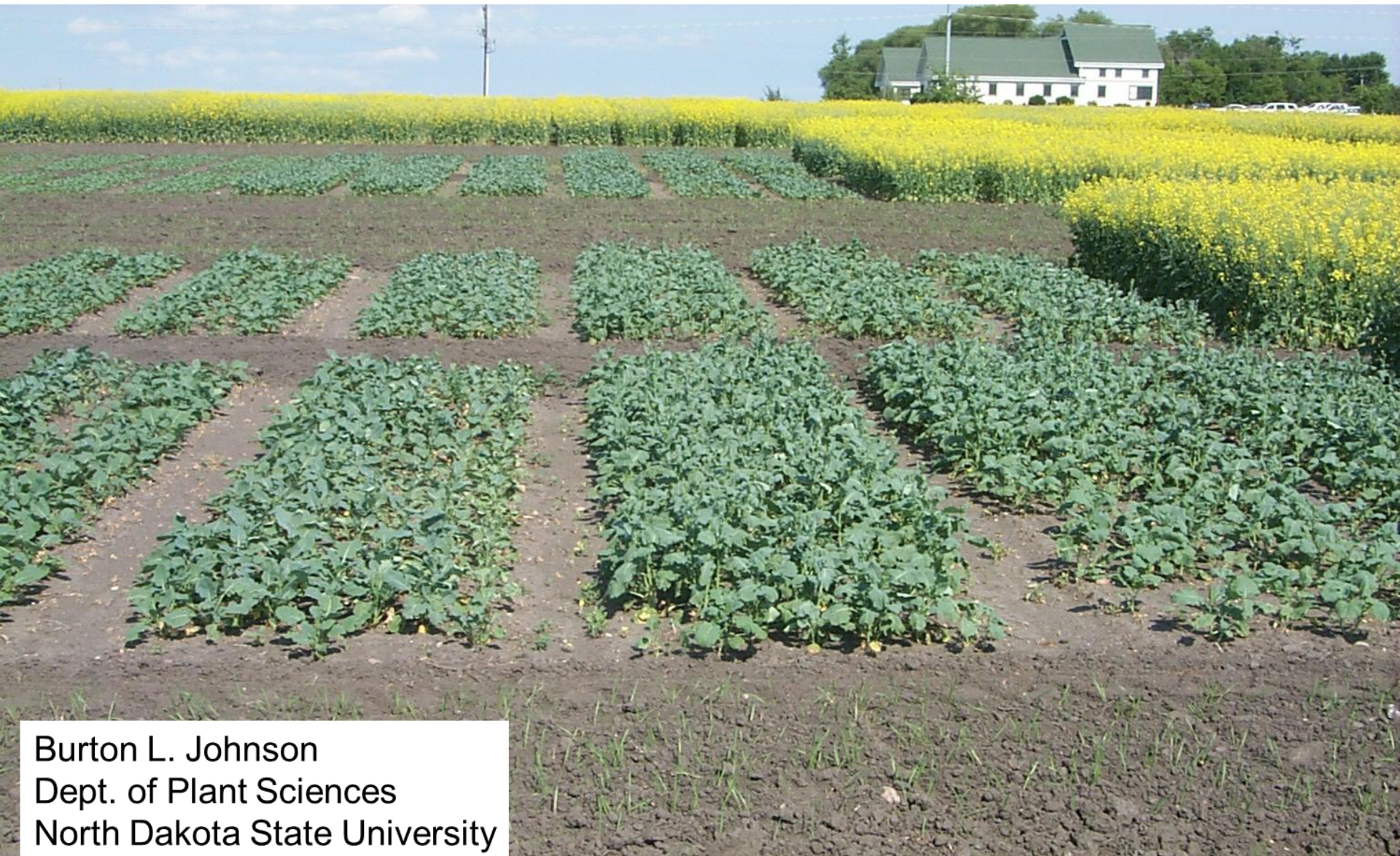


# Canola Seeding Date Study 2012



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# Spring canola seeding date study

- i.) Evaluate seeding date effect on  
Herbicide Resistant Canola Systems
- ii.) Compare net returns of the  
Herbicide Resistant Canola Systems
- iii.) Investigate seeding date of the  
Herbicide Resistant Canola Systems  
Notill  
Conventional till



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**Notill** - Western  
Conventional till - Eastern

# Experimental Design

- **RCBD with split plot arrangement, 4 replicates**
  - Main plot – Seeding date
    - 5 dates space about 10 days
    - 1<sup>st</sup> date close to when producers are 1<sup>st</sup> planting
  - Subplot – Hybrid
    - DKL30-42 Roundup Ready
    - Invigor 8440 Liberty Link

# Traits Evaluated



- Stand
- Weed pressure
- Flowering
- Plant height
- Plant lodging
- Test weight
- Seed yield ✓
- Seed oil content
- Oil composition
- Net return

# Canola seeding dates at four North Dakota locations in 2012.

Seeding date	Carrington	Prosper	Langdon	Minot
Date 0	April 5	-	-	-
Date 1	April 24	May 3	April 27	April 25
Date 2	May 7	May 11	May 9	May 3
Date 3	May 21	May 18	May 21	May 15
Date 4	June 4	May 31	June 1	May 25
Date 5	June 19	June 13	June 12	June 5

# Canola seed yield (lb/A) at three North Dakota locations in 2012.

Seeding date	Carrington	Prosper	Langdon	Minot
Date 1	1523a	1734a	2214a	Not available
Date 2	1325a	1382b	1929b	-
Date 3	1492a	1644ab	2068ab	-
Date 4	883b	770c	1259c	-
Date 5	625c	742c	1361c	-
LSD(0.05)	221	295	212	

# Canola seed yield (% of Date 1) at three North Dakota locations in 2012.

Seeding date	Carrington	Prosper	Langdon	Minot
Date 1	100	100	100	Not available
Date 2	87	80	87	-
Date 3	98	95	93	-
Date 4	58	44	57	-
Date 5	41	43	61	-



Canola seed yield (lb/A) at Langdon, North Dakota  
in 2010, 2011, and 2012.

Seeding date	Year 2010	Year 2011	Year 2012	Flower 2012
Date 1	2970	2840	2214	June 21
Date 2	3110	3240	1929	June 28
Date 3	3560	2950	2068	July 2
Date 4	3080	3300	1259	July 10
Date 5	3160	3430	1361	July 18

Record of Climatological observation								
Langdon, ND								
		Precipitation		Dep. from		Temperature		Dep. from
		Normal	2012	Normal		Normal	2012	Normal
April		1.24	0.87	-0.37		38.3	42.9	+4.6
May		2.26	1.76	-0.50		51.5	53.0	+1.5
June		3.24	4.65	+1.41		60.8	62.9	+2.1
July		2.87	3.94	+1.07		66.4	70.8	+4.6
August		2.61	1.73	-0.88		64.4	65.8	+1.4
Totals		12.22	12.95	+0.73		56.3	59.1	+2.8



Canola growing degree days at Langdon in 2012.			
Month	AGDD	Dep. 2011	Difference
July	885	754	131
August	750	735	15
Total	1635	1489	146



# Questions?



## **Acknowledgements**

Appreciation is extended to the  
National Canola Research Program for study funding