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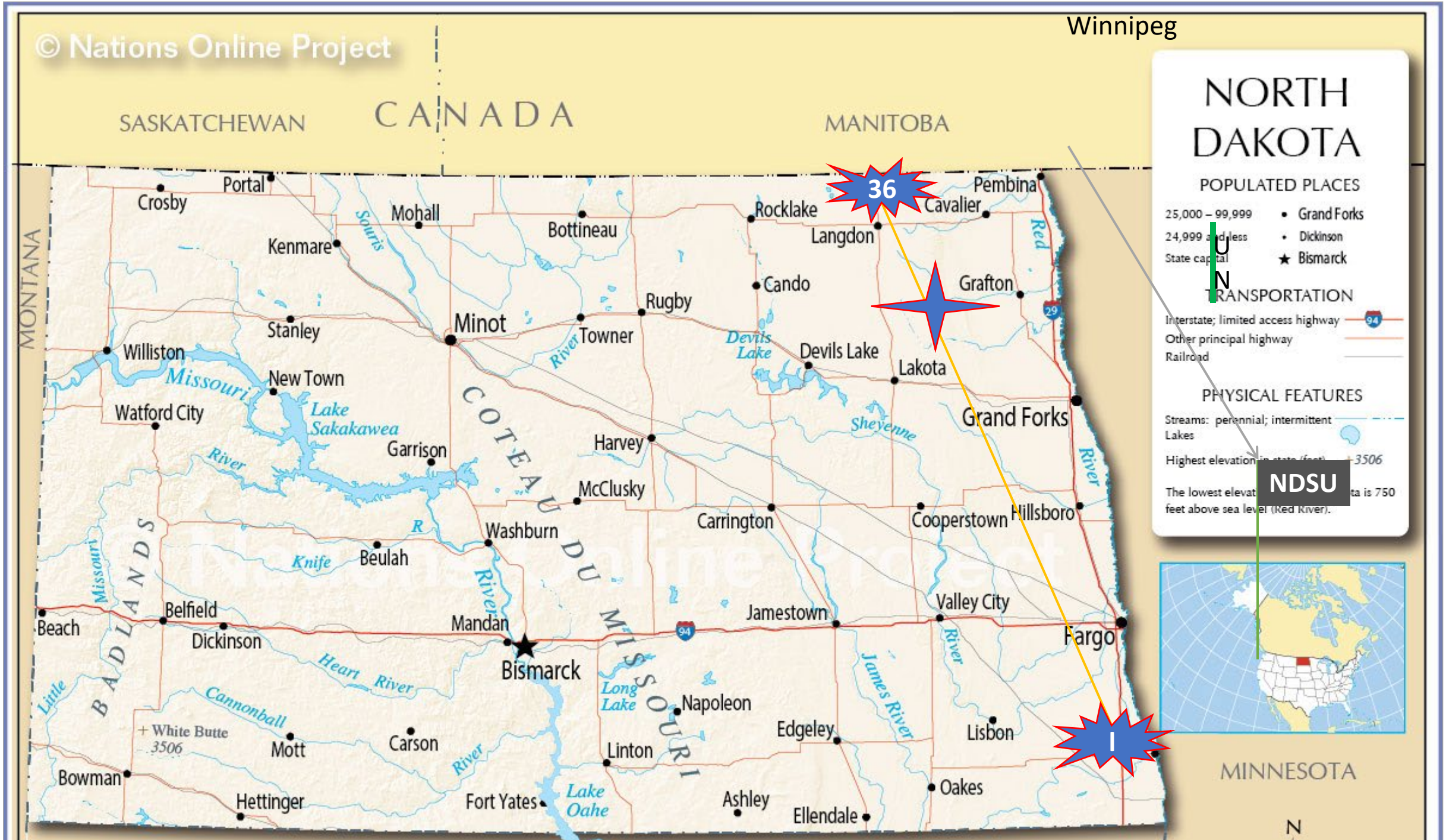
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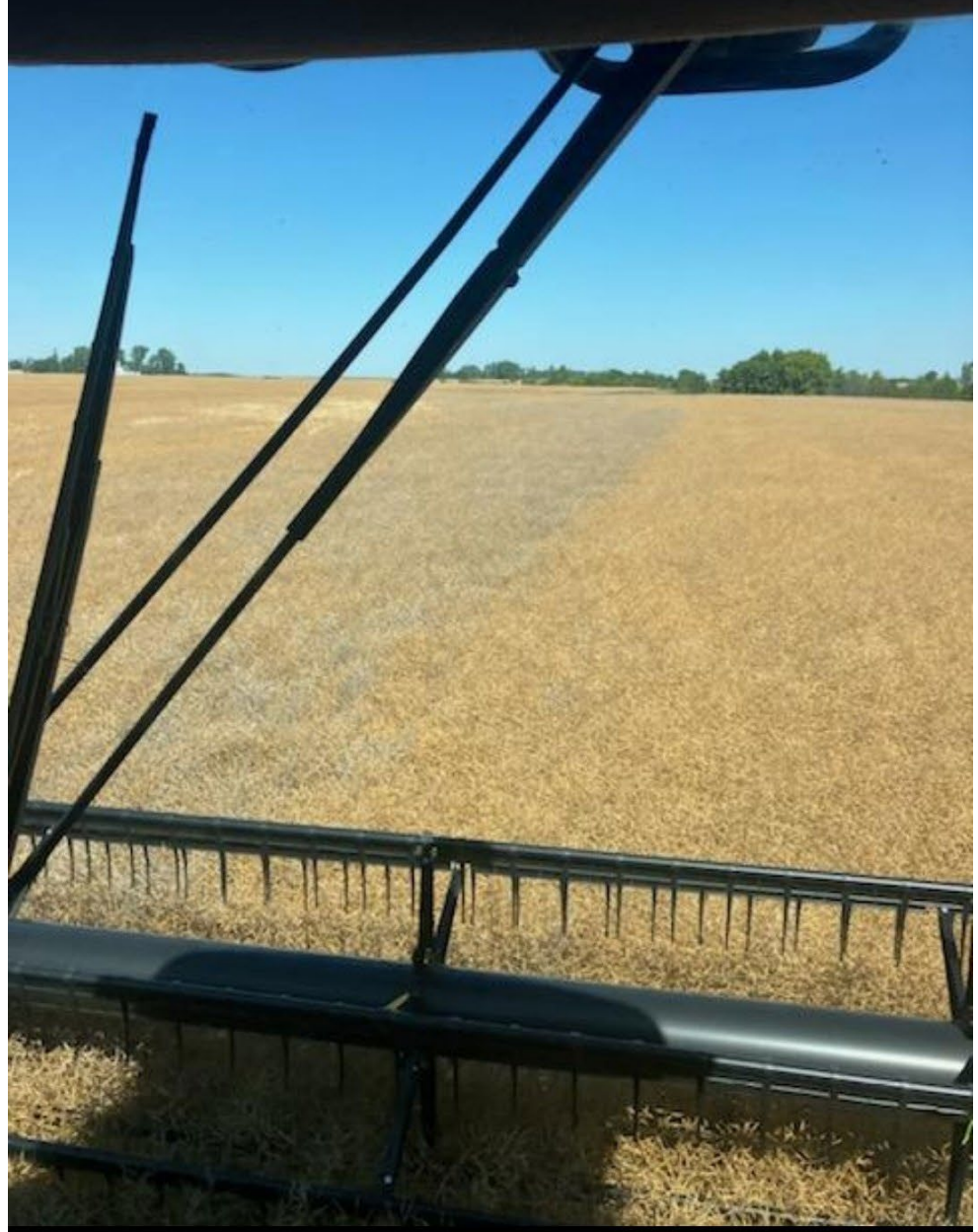
Winnipeg
CANADA
SASKATCHEWAN
MANITOBA
MONTANA
MINNESOTA
NORTH DAKOTA
POPULATED PLACES
25,000 – 99,999
Grand Forks
24,999 and less
Dickinson
State capital
Bismarck
TRANSPORTATION
Interstate; limited access highway
Other principal highway
Railroad
PHYSICAL FEATURES
Streams: perennial; intermittent
Lakes
Highest elevation in state (feet) 3506
The lowest elevation in North Dakota is 750 feet above sea level (Red River).
36
I
NDSU
Portal
Crosby
Mohall
Bottineau
Rocklake
Pembina
Cavalier
Langdon
Kenmare
Souris
Red
Cando
Grafton
Rugby
Minot
Stanley
Towner
Devils Lake
Devils Lake
Lakota
Williston
Missouri
New Town
Grand Forks
Watford City
Lake Sakakawea
Sheyenne
River
Garrison
Harvey
COTEAU DU MISSOURI
McClusky
Carrington
Cooperstown
Hillsboro
Washburn
Knife
Beulah
Missouri
BADLANDS
Belfield
Valley City
Beach
Dickinson
Mandan
Jamestown
Fargo
Heart River
Bismarck
Long Lake
Napoleon
Little
Cannonball
James River
Edgeley
Lisbon
White Butte
3506
Mott
Carson
Linton
Bowman
Hettinger
Fort Yates
Lake Oahe
Ashley
Oakes
Ellendale
N

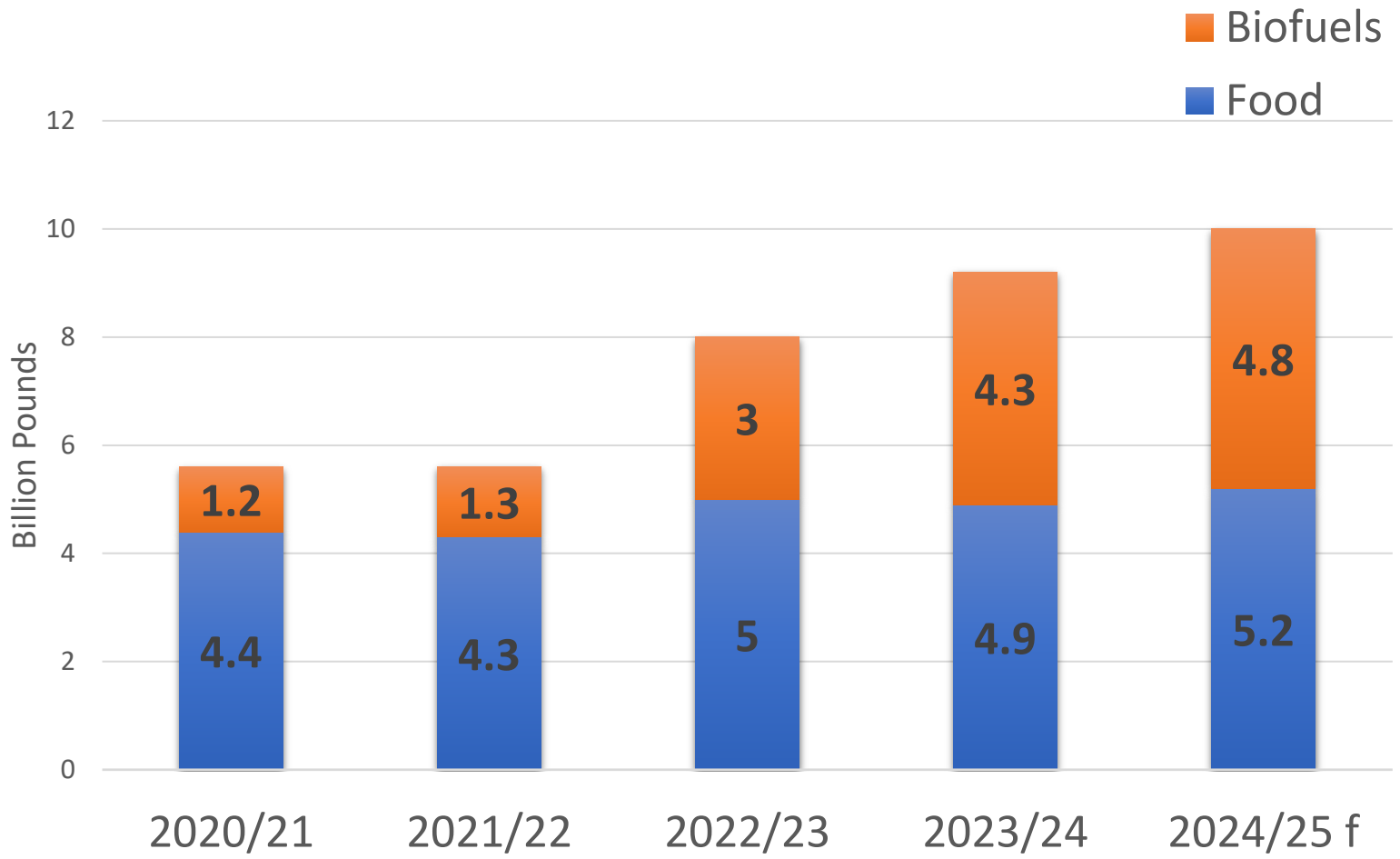


Canola Acres 2024

- **2.15 Million (+11%)**
- **4 Billion Pounds (+15%)**
- **U.S. – 4.9 Billion lbs.**
- **U.S. – 2.76 Million Acres**

Northern CANOLA GROWERS Association

Canola Oil – Domestic Use
2020-2025

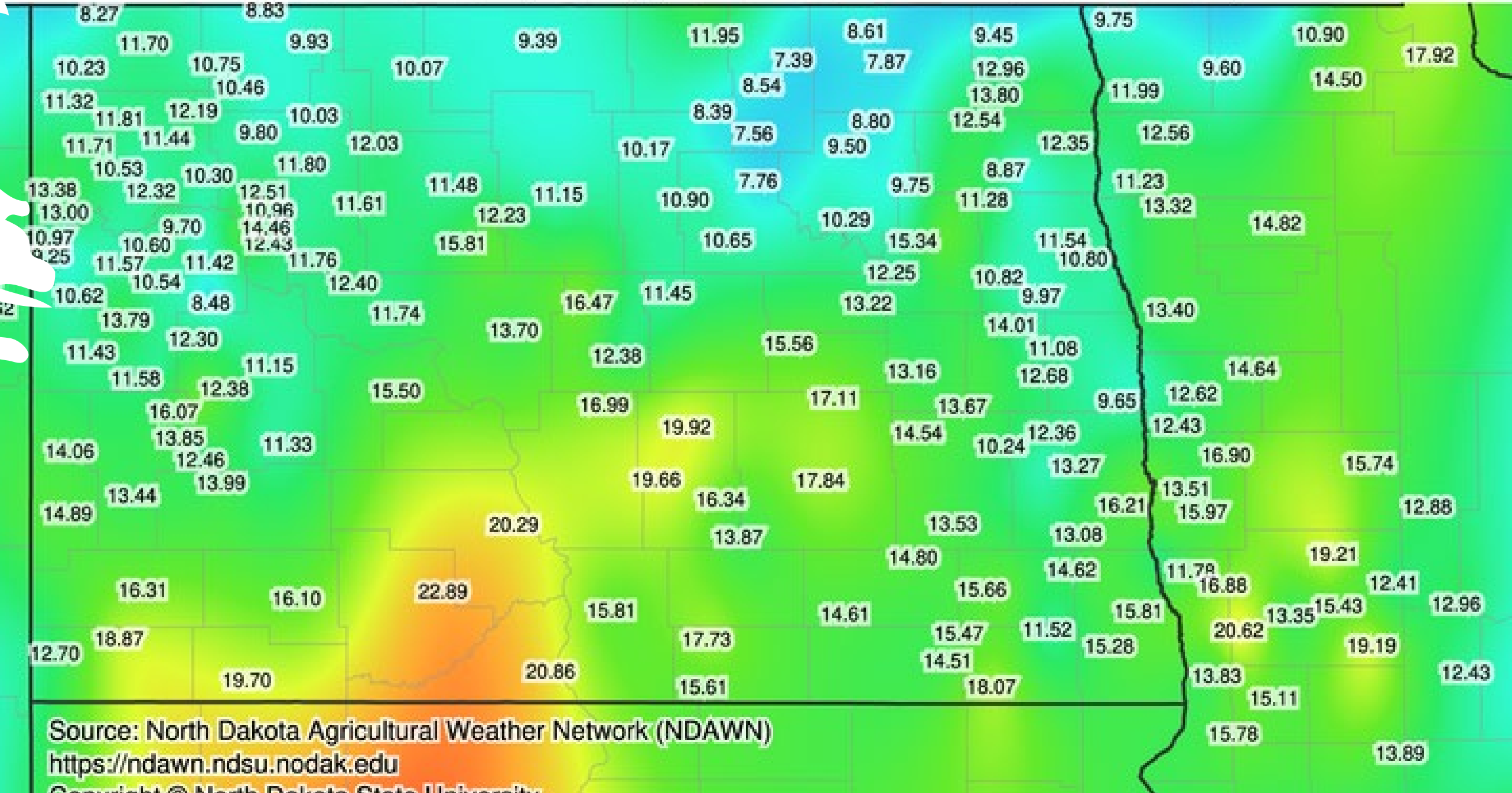


Northern CANOLA GROWERS Association

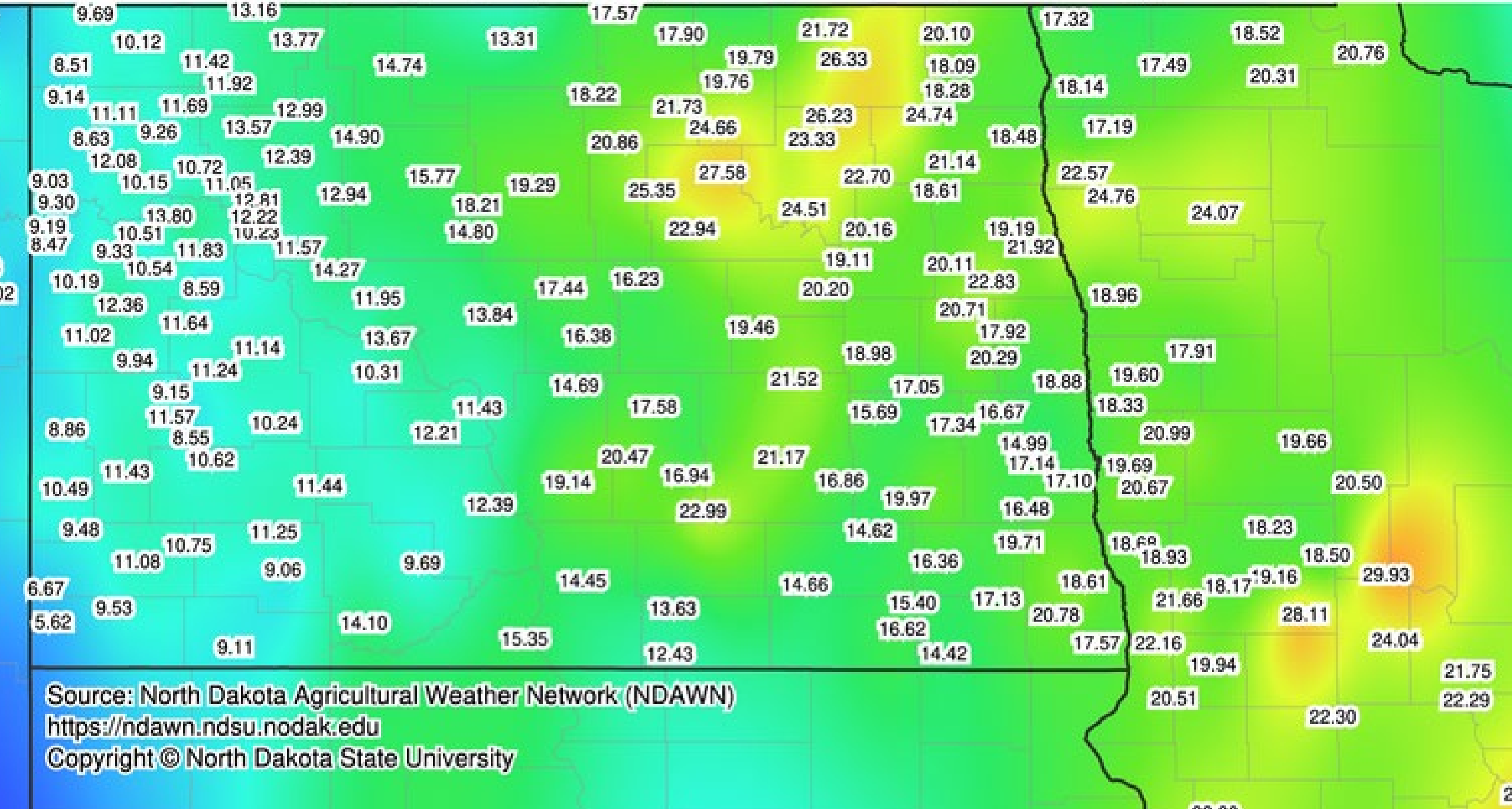
KEEP EVERYTHING IN PERSPECTIVE!


7/29/2011

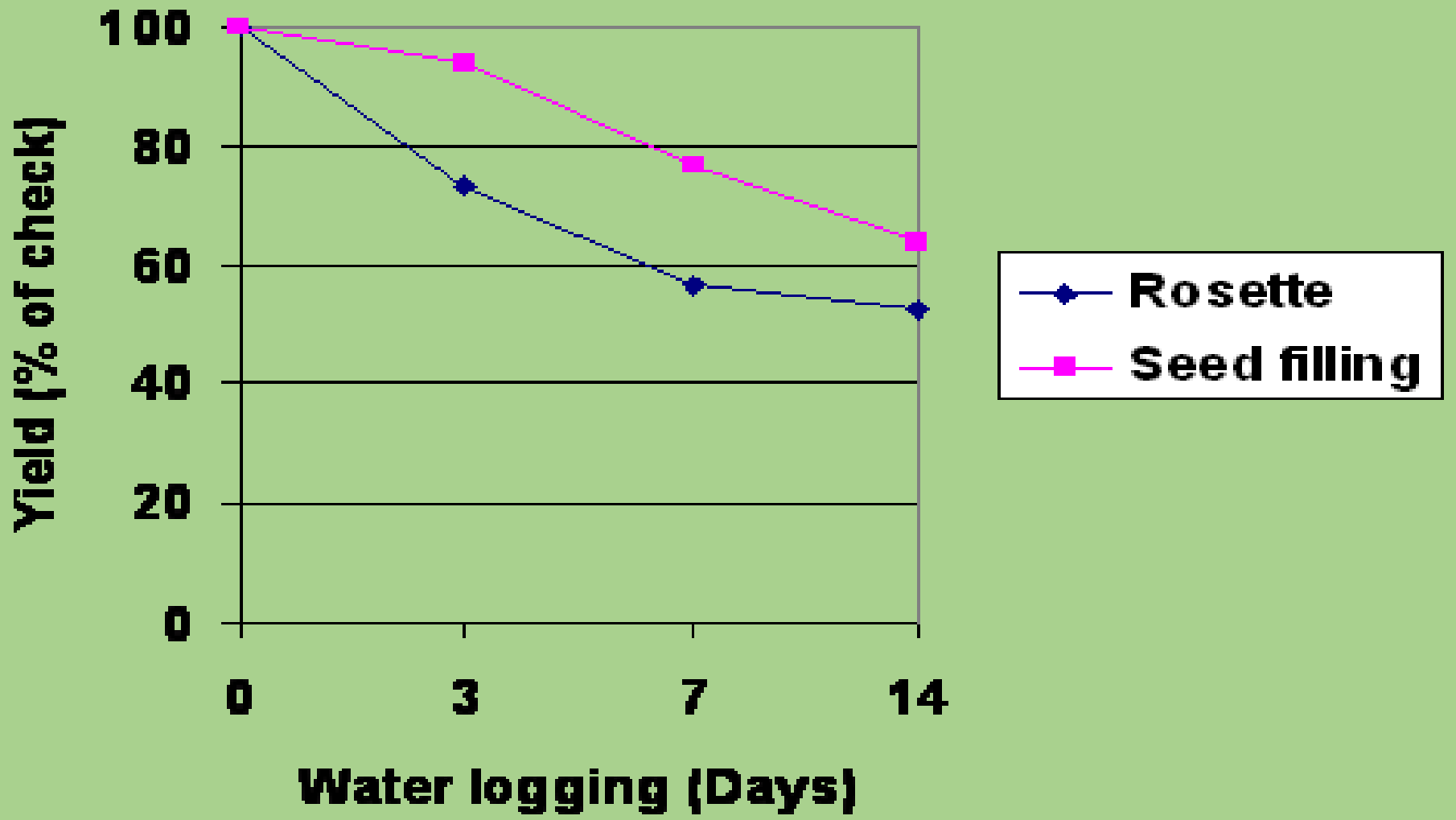
Total Rainfall (inch) (2023-05-01 – 2023-10-31)



Total Rainfall (inch) (2024-04-15 - 2024-10-29)



Effect of Water Logging on Yield




400# Loss (1 seed/sq. in. = 50#)


Harvest losses

HAIR-PINNING DIAGRAM


48 hours

Seed rates and depths?

Seed beds? Trash? Bare ground?

Planter type? **Reduce travel speeds!!**

Seed singulation! (Ideal)

8-12 plants/sq. foot **(originally 610,000 PLS)**

5-7 plants/sq. foot established (2-3/sq.ft)

(225,000-425,000 plants/acre)

Typically **60-70%** establishment rate?

Seeding Depths-----.5-----1.5+?

2010 Planting Date Trial -

DATE	8.5% M Yield lbs/a	Stand Rating 0-100	1st Flower DAP	End Flower DAP	Maturity DAP	HT in	Lodging 0-9
29-Apr	2967.6	**52.5**	52.3	72.1	97.8	40.8	2.5
10-May	3107.8	**37.5**	44.5	68.1	94.0	42.4	1.0
21-May	**3559**	**26.3**	43.5	64.8	94.0	42.4	1.8
1-Jun	3079.6	**93.1**	38.6	58.9	**86.9**	42.1	1.9
9-Jun	3160.9	**85.6**	38.5	61.9	87.3	43.9	4.3
LSD 5%	NA	**21.8**	0.5	1.0	0.8	NA	1.2

Row spacing?

Broadcast – can work -rain

6”/7.5” conventional **(can reduce rates)**

15” better stand ability (less seed cost)

20/22” some very successful growers **(valley)**

(early weed control critical)

Wider the rows **must** reduce seeding rates

(inter-row competition-lodging)

Larger plants-big stems-less lodging!


9430

Sulfur (Sulfate….)

AMS $450/ton (21-0-0-24) Sulfur 10-40#/acre

10# S $4.50/acre

15#S $6.75/acre

20#S $9.00/acre

25# S $11.25

Sulfur deficiency -200-500# yield loss - can exceed 1000# +++++ (short pods/poor fill)–

N:S/ratio 7:1


9-22-21
Consider power strips!!

Canola Diseases

-Sclerotinia (white mold) forecast models)

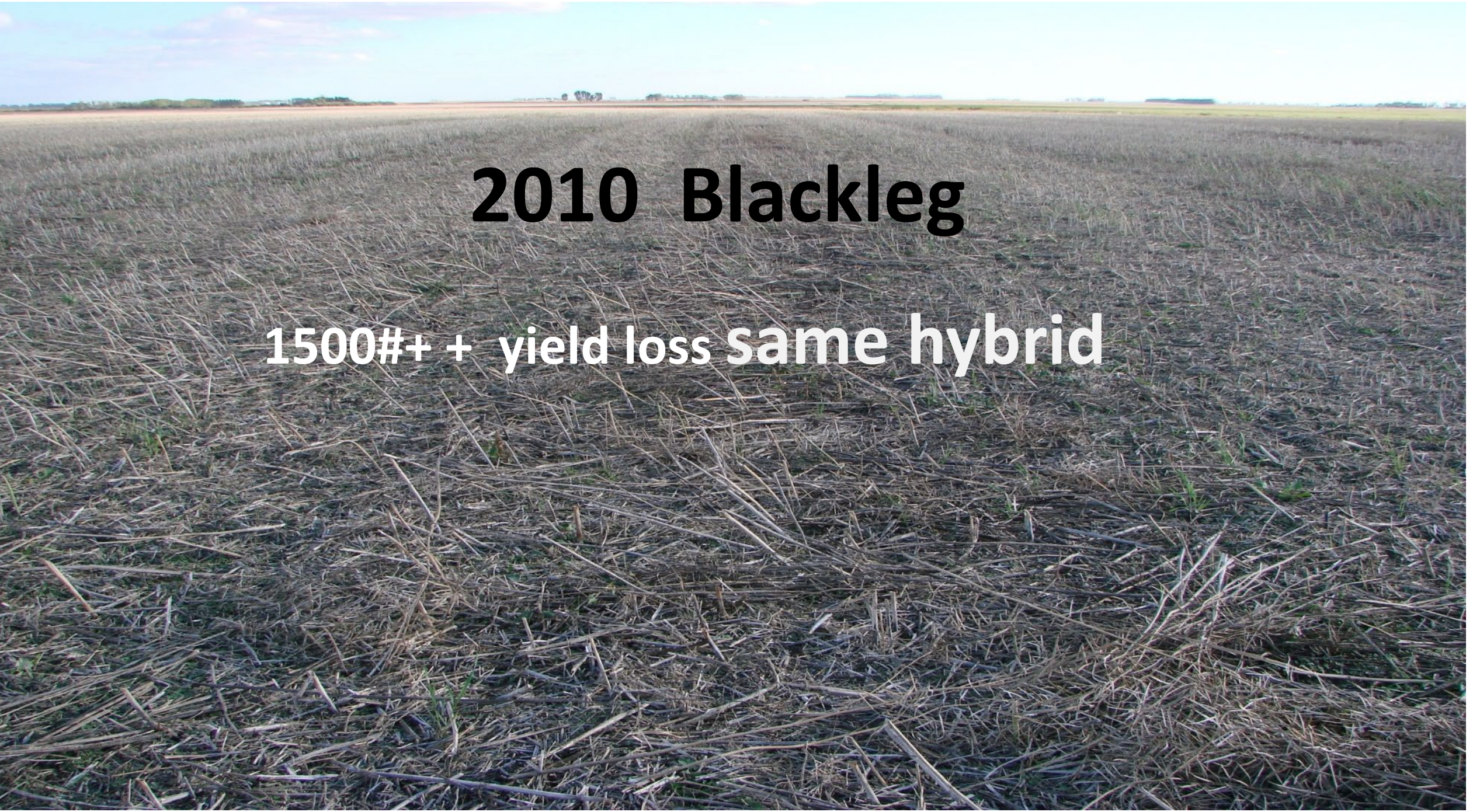
-Clubroot (new 2013) Soil with **low PH**

-Blackleg (issue every-year) 4-year good

-Verticillium stripe (2014)

-Aster Yellows (**2007, 2012**, 2024


7/9/2012


2010 Blackleg
1500#+ + yield loss same hybrid


Verticillium stripe/blackleg?