

Links you should know about

• https://www.youtube.com/watch?v=ultCzE6b1J0

• https://www.ndsu.edu/agriculture/sites/default/files/2023-03/sf1122.pdf

• https://www.canolacouncil.org/canola-encyclopedia/fertility/

People you should know and follow

- John Heard- soil fertility specialist with Manitoba Agriculture
- Jason Voogt- independent crop consultant Manitoba
- Brunel Sabourin -independent crop consultant/researcher Manitoba
- Naeem Kalwar-Soil Health specialist Langdon
- Kristie Sundeen- Pioneer agronomist
- Jordan Varberg-BASF researcher
- Brady Goettl-NDSU extension soil specialist
- John Breker- Agvise



Resources

• Dr. Franzen eastern ND

Cap N at 150 lbs/A for

- Agvise
 - 2000 lb/A yield goal
 - 2400 lb/A yield goal
 - 2800 lb/A yield goal

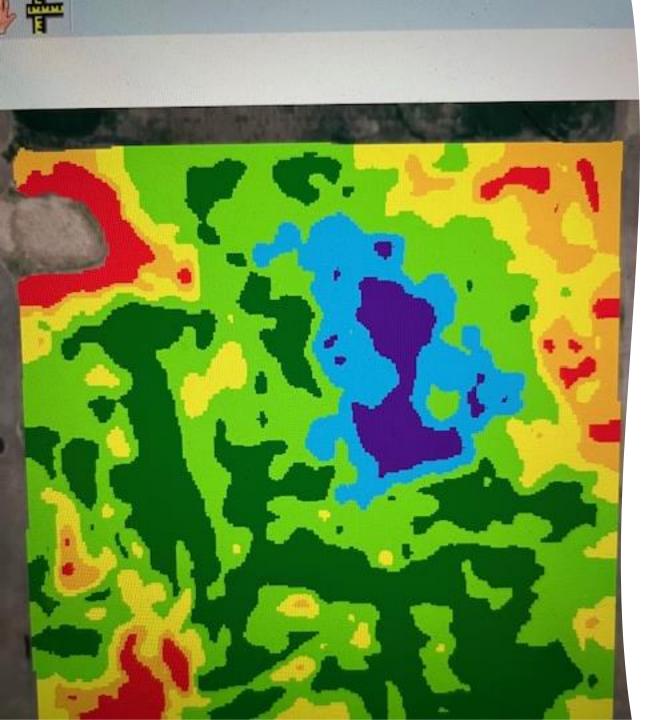
140 N total

170 N total

195 N total

• John Heard

3.3 lbs N/bushel of yield



Farmer harvested 2200 lb/acre canolagoing to wheat

• Composite Soil Sample 101 lbs/A N

• Zone Sample results

•	Dark Green		42
	lbs/A	N	
•	Light Green		68
	lbs/A	N	
•	Blue		
	147 lbs/A	N	

• Red/Orange 337 lbs/A N



Sulfur

 Most important nutrient outside of N

• NDSU recommends 15-30 lbs/A as sulfate

• 24-30 lbs/A for todays hybrids seems good

Nitrogen and Sulfur application

- Spring > Fall for sulfur application
- Spring has become the market for spring urea with canola
- Broadcast > Band (unless strip till)
- Trying to get all your sulfur needs in a starter is hard due to N amount

- Use 21-0-0-24 or ATS as main source
 - If using starters that contain elemental sulfur/sulfate sulfur- count the sulfate portion

Guidelines for seed-placed nitrogen with canola

	1" spread*				" spread		3" spread*					
	(Disc or knife)**			(S	poon or ho	е)	(Sweep)					
				F	Row spacino	9						
	6"	9"	12"	6"	9"	12"	6"	9"	12"			
	Seedbed utilization											
	17%	11%	8%	33%	22%	17%	50%	33%	25%			
Light soil (sandy loam)	10 (0)	5 (0)	0 (0)	20 (10)	15 (0)	10 (0)	30 (20)	20 (10)	15 (0)			
Medium soil (loam to clay loam)	15 (0)	10 (0)	5 (0)	30 (20)	20 (10)	15 (0)	40 (30)	30 (20)	20 (10)			
Heavy soil (clay to heavy clay)	20 (10)	15 (0)	10 (0)	40 (30)	30 (20)	20 (10)	50 (40)	40 (30)	30 (20)			

The first number in each yellow box is the safe seed-row placed nitrogen rate, in lb./ac. of actual N, for Alberta and Saskatchewan. Numbers in (brackets) are Manitoba recommendations.

Source: Canada Canola Council

^{*}Width of spacing varies with air flow, moisture level, soil type, amount of residue and other soil conditions.

^{**}Some openers give less than 1" spread.



Phosphorus

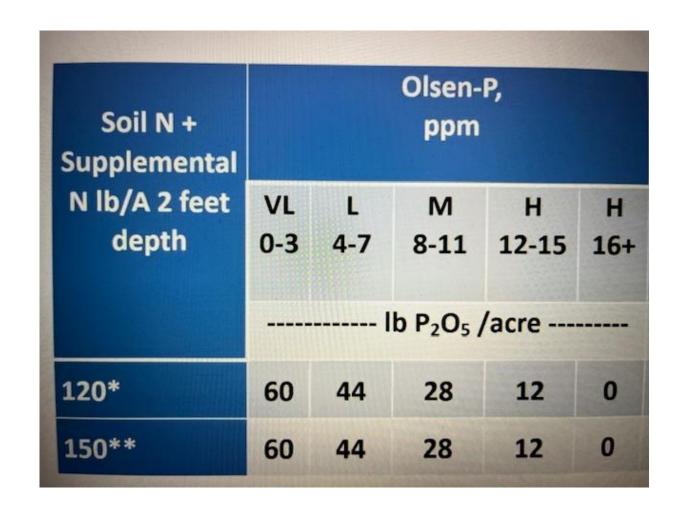
- It is important to get some on with the starter but mostly limited to 30-50 lbs of MAP
- Canola very good at scavenging for P due to many small hairs on roots

AGVISE Phosphorus recs

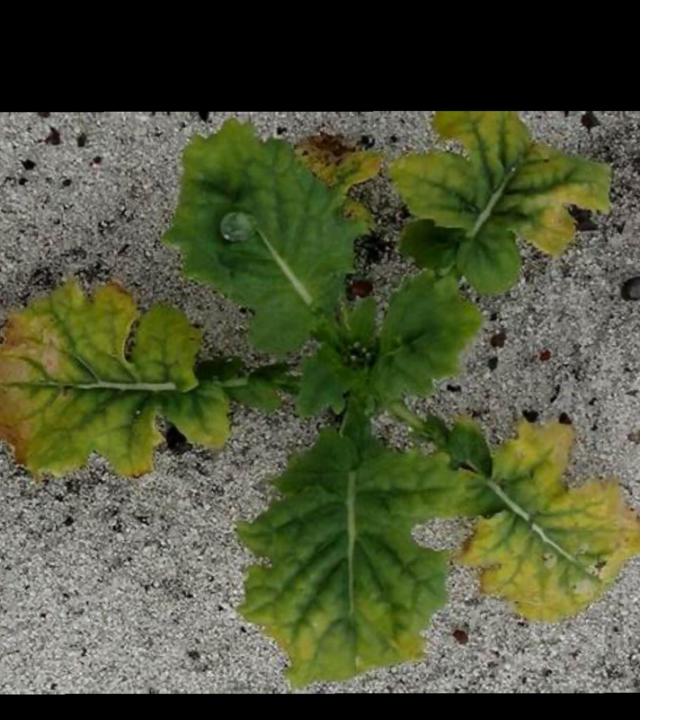
7	Yield	Nitroger	Olsen	O 4						۸ ۵ ۱	//CE E) d						
			0-	3 4-	/ {	8-12-	15			AGV	ISE E	sand						
	800	55	2	0 1	5 1	0 10*	10*	10*	10*	0	25	20	10	5	0	0	0	0
	1200	85	3	0 2	5 2	0 15	10*	10*	10*	0	35	25	20	10	0	0	0	0
	1600	110	3	5 3) 2	5 20	10	10*	10*	0	50	35	25	10	0	0	0	0
	2000	140	4	5 4	3 3	25	15	10*	10*	0	60	45	30	15	0	0	0	0
	2400	170	5	5 4	5 3	5 25	20	10*	10*	0	75	55	35	15	0	0	0	0

Source: Agvise Labs

NDSU Phosphorus recs



Source: 2024 Getting It Right Canola



Potassium

•All sources: unless you are less than 120 ppm K soil test levels, doesn't pay to put it on.



Micros

- NDSU and Manitoba don't recommend any micros with canola
- If there is one that would have the most potential it is boron



Want 5-8 live plants per square foot. 4 plants is bare minimum

• https://www.ag.ndsu.edu/langdonrec/archive/documents/crop-production-management/row-spacing-and-seeding-production-management/row-spacing-and-seeding-rate-influence-on-spring-canola-performance-in-the-northern-great-plains

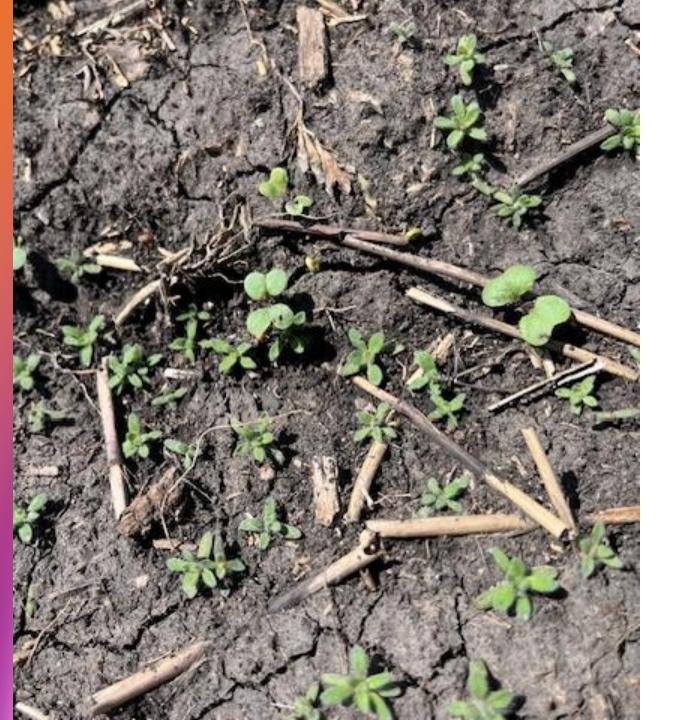
- Air Seeder vs Planter
- Row width considerations
- Seeding depth







	SEED SIZE RANGE								
	Α	В	C	D					
RECOMMENDED SEEDING RATE to achieve ~ 10 Seeds/ft²	4.2 Lbs./Acre	4.7 Lbs./Acre	5.2 Lbs./Acre	5.7 Lbs./Acre					
SEED SIZE (range midpoint)	108,000 Seeds/Lb.	98,000 Seeds/Lb.	88,000 Seeds/Lb.	80,000 Seeds/Lb.					
UNIT BAG WEIGHT	42.2 Lbs.	47.0 Lbs.	51.8 Lbs.	56.7 Lbs.					
SEEDS PER UNIT	4.25 Million Seeds (Minimum)								
ACRES SEEDED PER UNIT	APPROXIMATELY 10 ACRES								

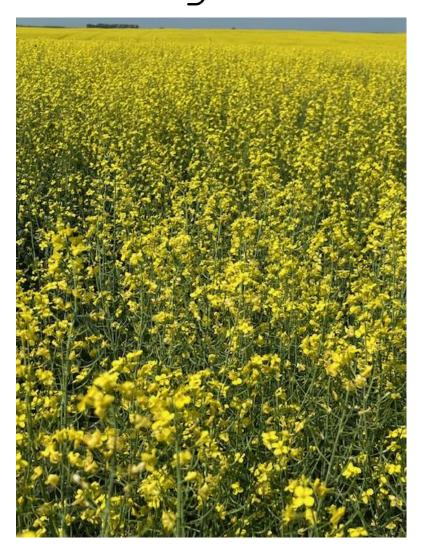


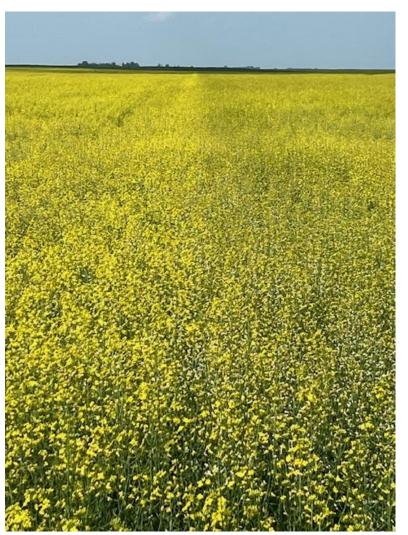
Weed control considerations

- Fall post harvest burndown with Gly + Dicamba
- Sonalan/Treflan as PPI
- Spring burndown options
 - Gly + Aim
 - Paraquat
- Glufosinate + clethodim in-crop (LL)
- Stinger for perennials*
- Diquat as a desiccant



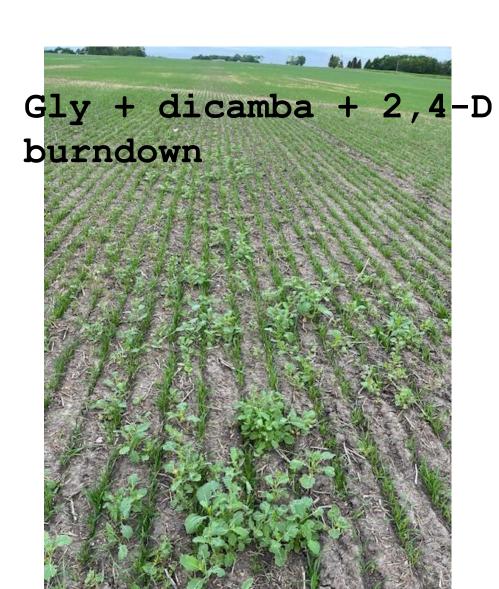
Clethodim- rates and timing make a big difference







Burndowns and residuals



Metribuzin + Sulfentrazone PRE

Canola is the gift that keeps on giving



Canola susceptible to many products Groups 2,4,5,6, 9,10,14,22,27)





Group 9 Group 27

Sprayer cleanout super important



Desiccation







Harvest



@rocknrollagr nmy

- SnapChat
- X
- Instagram
- Tik Tok

- @AgMafiaLLC on X, IG, Tik Tok and FB
- @agmafia_snap
- Agronomists Happy Hour podcast