

SFP Establishing nitrogen and seed rate recommendations for hybrid brown mustard



**WHEATLAND
CONSERVATION AREA**



SFP Establishing nitrogen and seed rate recommendations for hybrid brown mustard

2020-2022

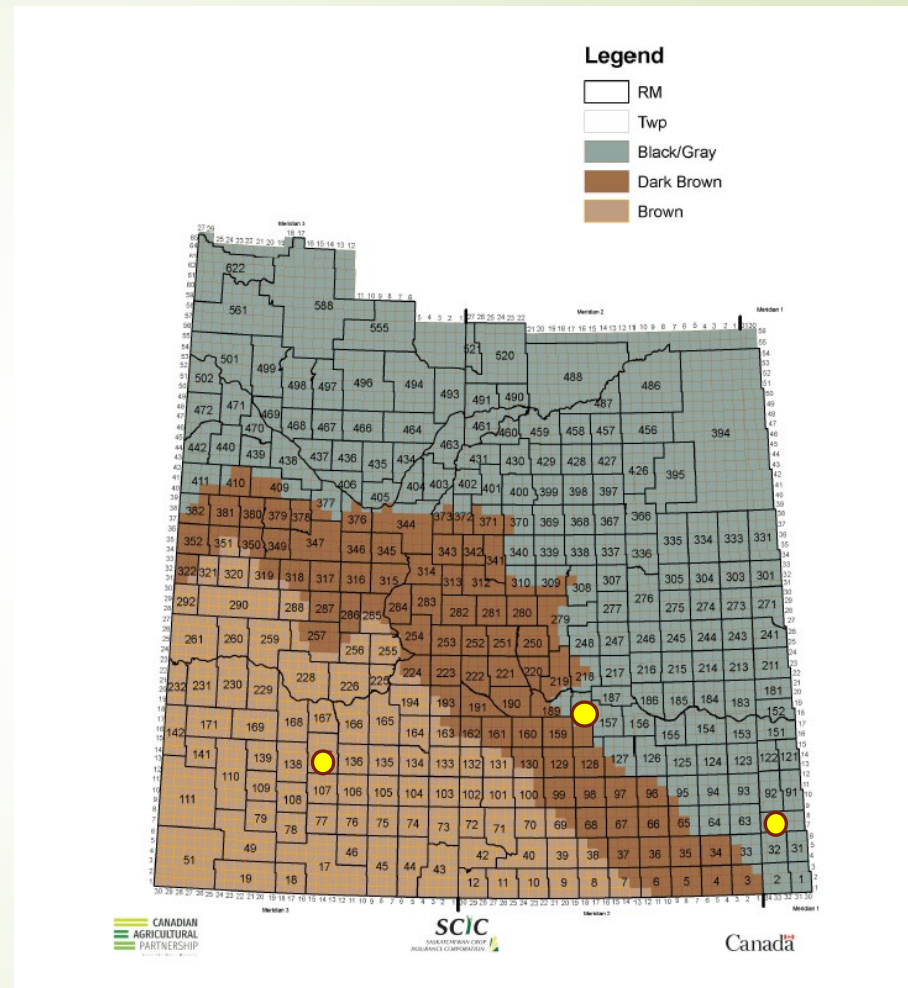


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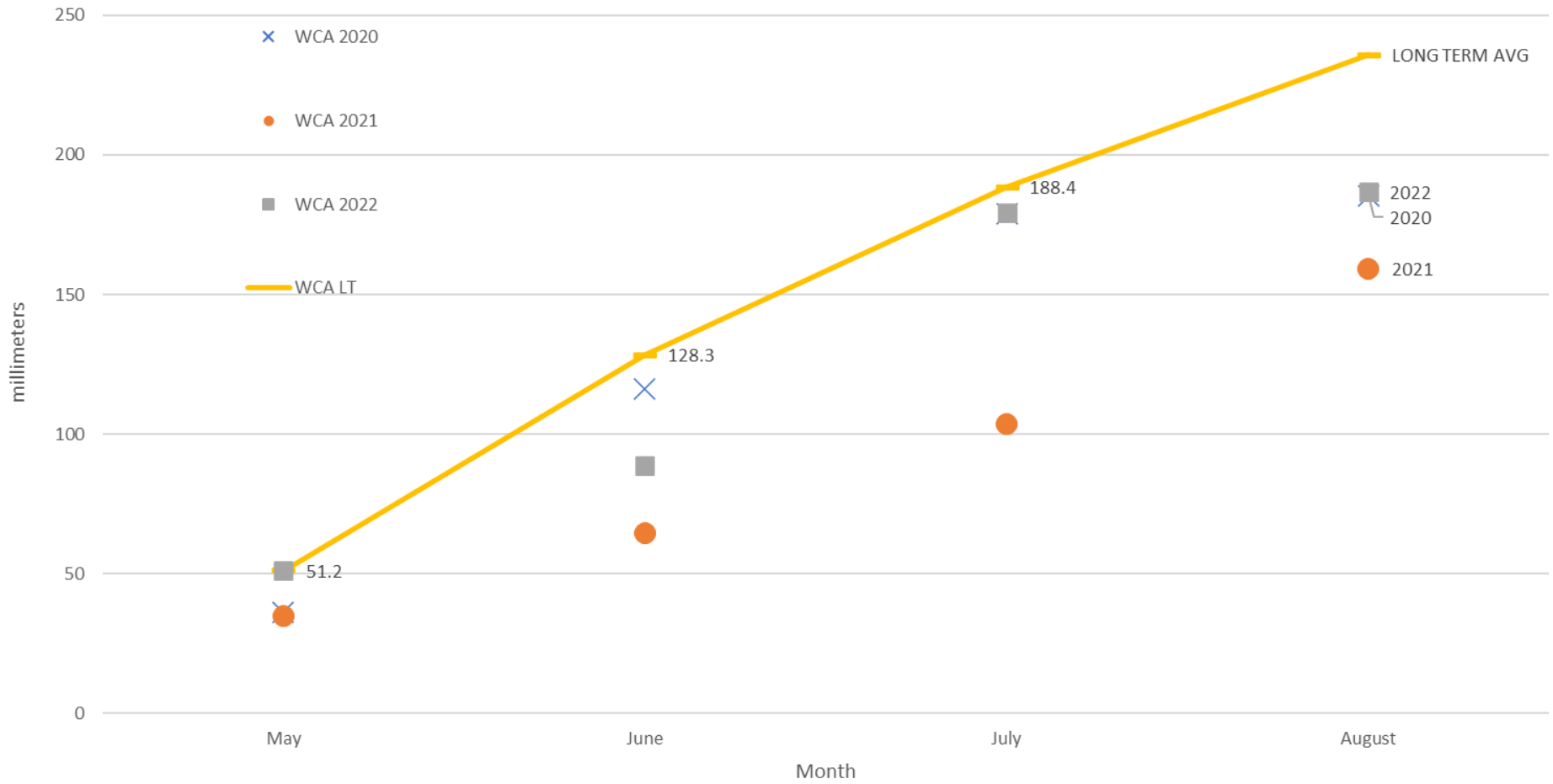


Site Locations

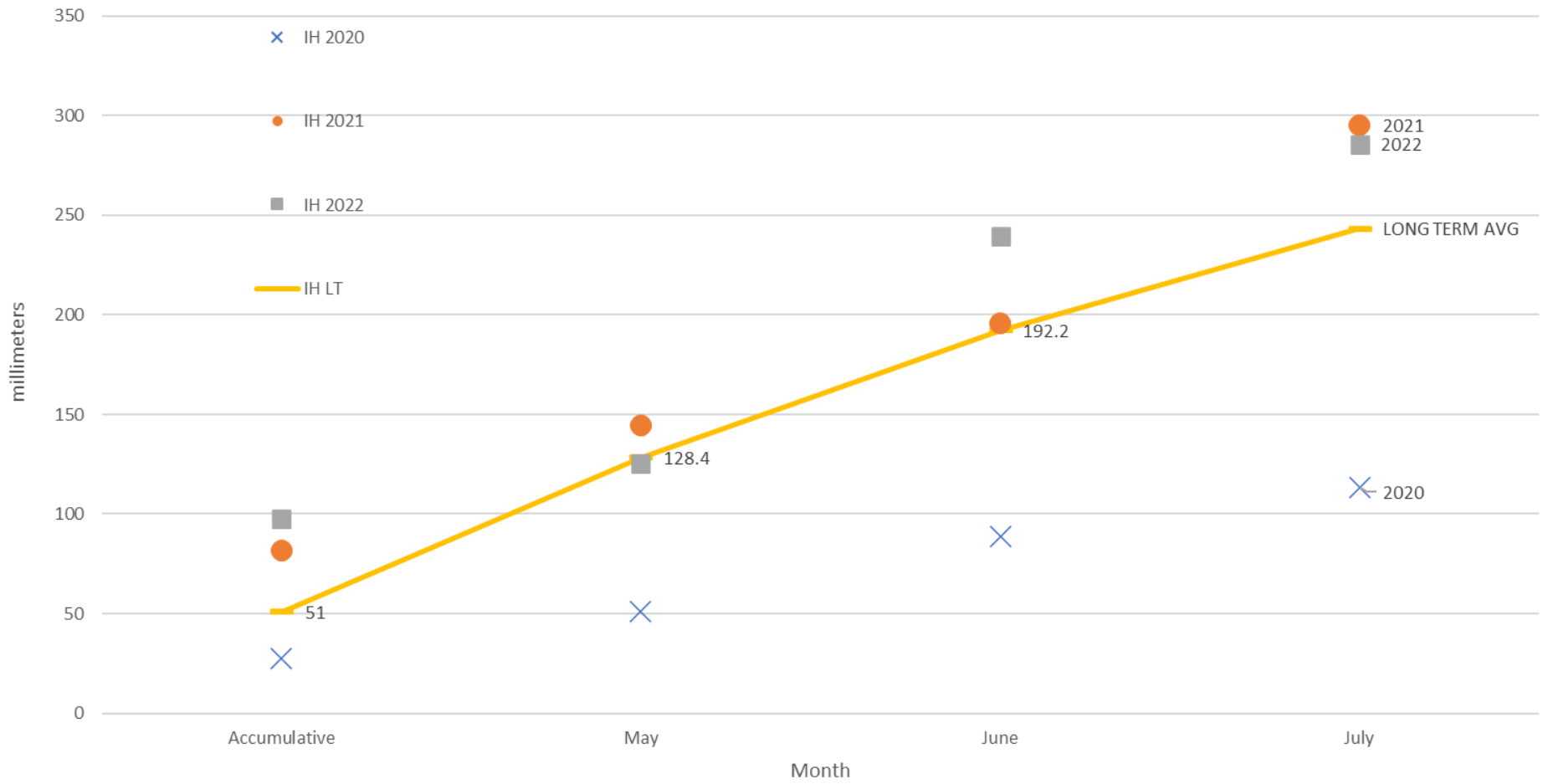
- Swift Current (WCA)
 - Dry Brown
- Redvers (SERF)
 - Black – long season
- Indian Head (IHARF)
 - Black



SC-Accumulative Monthly Totals



IH-Accumulative Monthly Totals



RD-Accumulative Monthly Totals



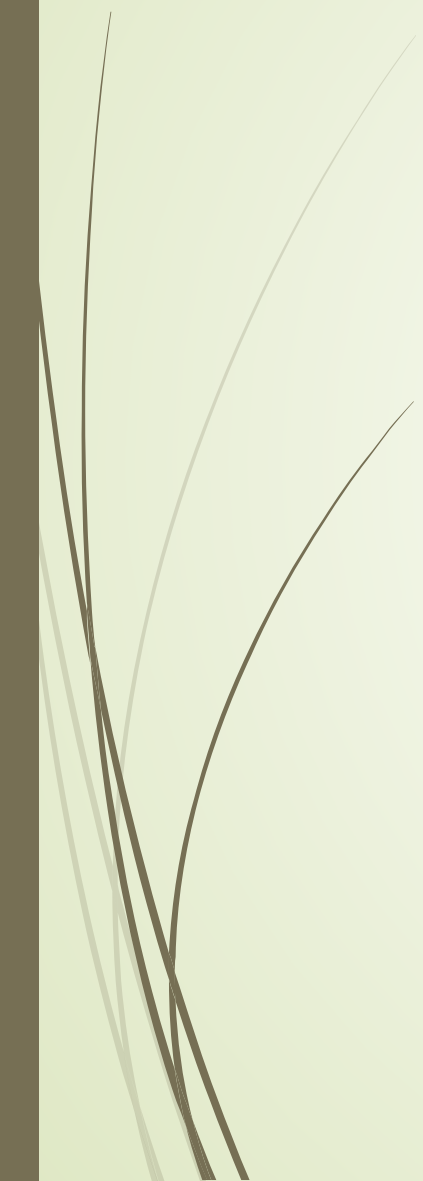
Part 1: Nitrogen Trial		Total Nitrogen	seeds/ft2
TRT #	Variety		
1	Hybrid Brown	0	22
2	Hybrid Brown	60	22
3	Hybrid Brown	80	22
4	Hybrid Brown	100	22
5	Hybrid Brown	120	22
6	Hybrid Brown	140	22
7	Hybrid Brown	160	22
8	Centennial Brown	0	22
9	Centennial Brown	60	22
10	Centennial Brown	80	22
11	Centennial Brown	100	22
12	Centennial Brown	120	22
13	Centennial Brown	140	22
14	Centennial Brown	160	22



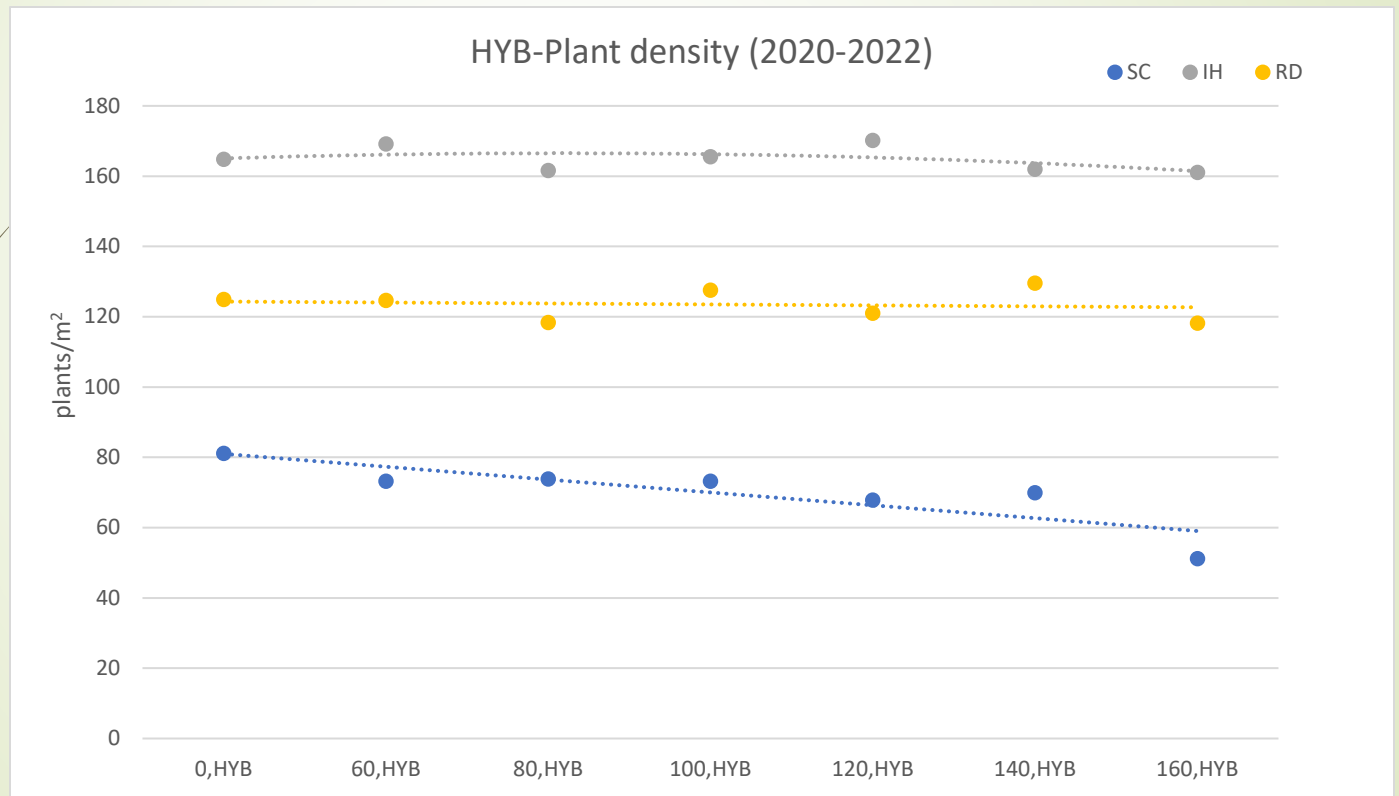
OP Soil N



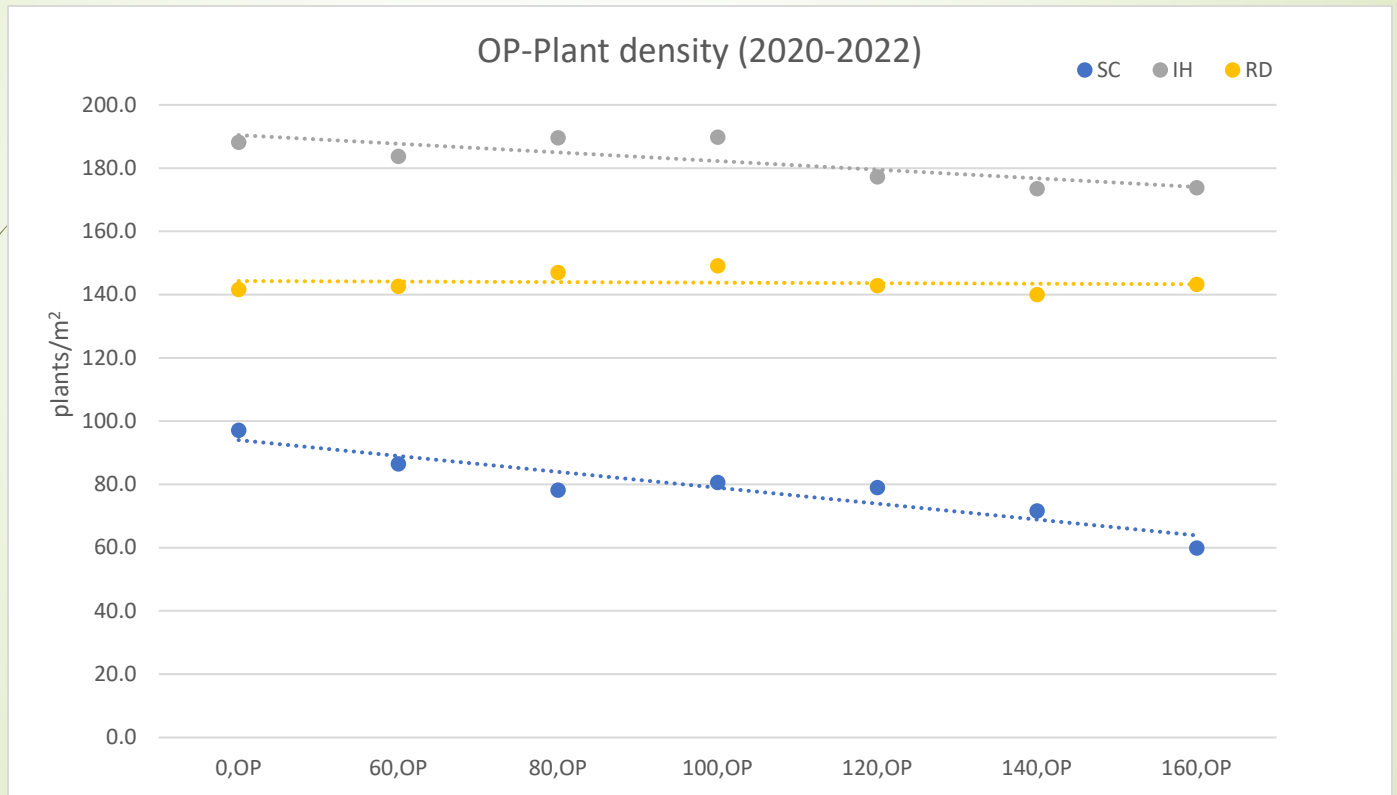
Data Collection

- Plant density
 - Vigor ratings (2-4 leaf and bolting)
 - Height
 - Lodging
 - Maturity
 - Yield
- 

AAC Brown 18 Plant Density



Centennial Plant Density



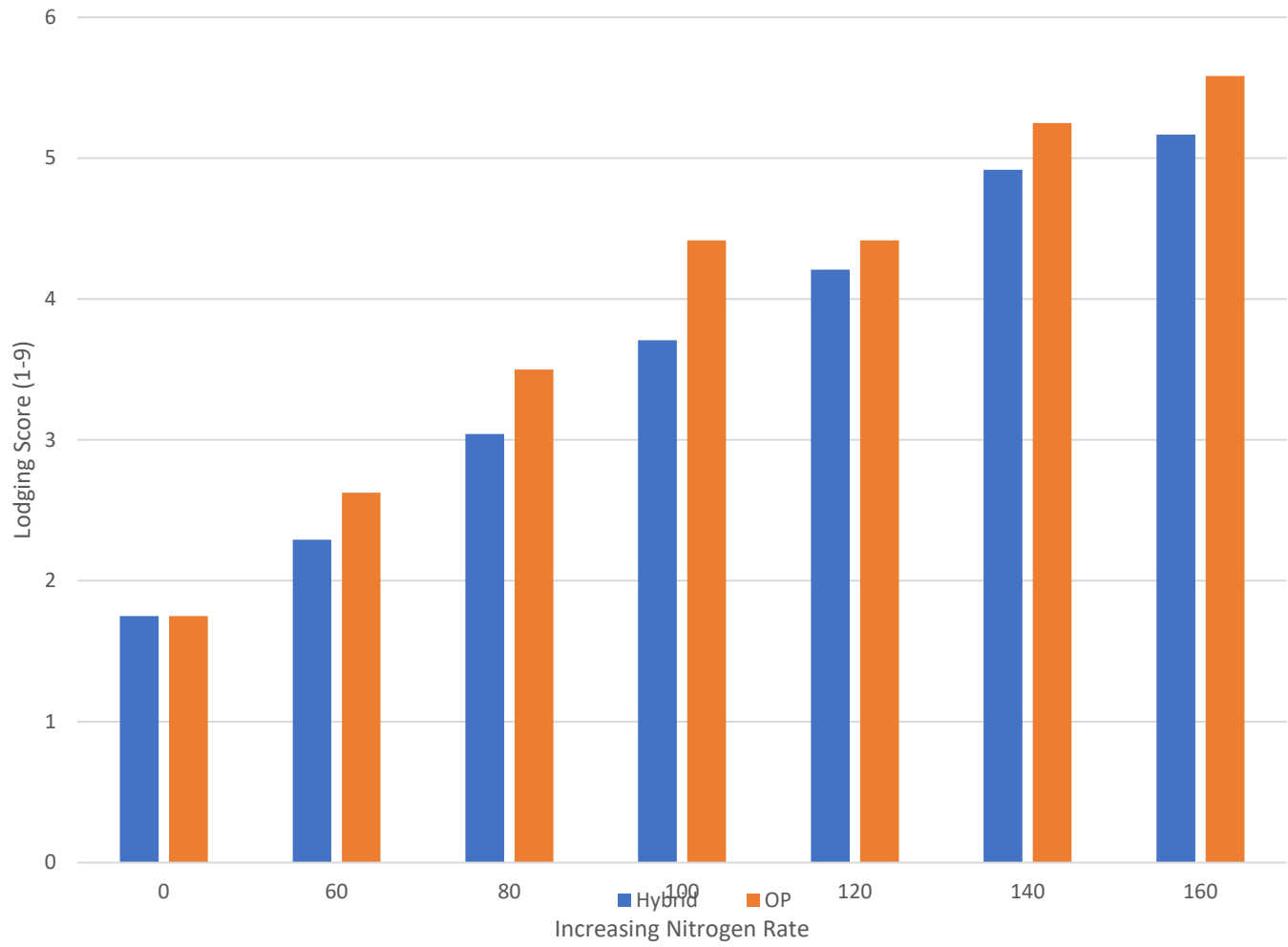
Dark Green are the hybrid plots



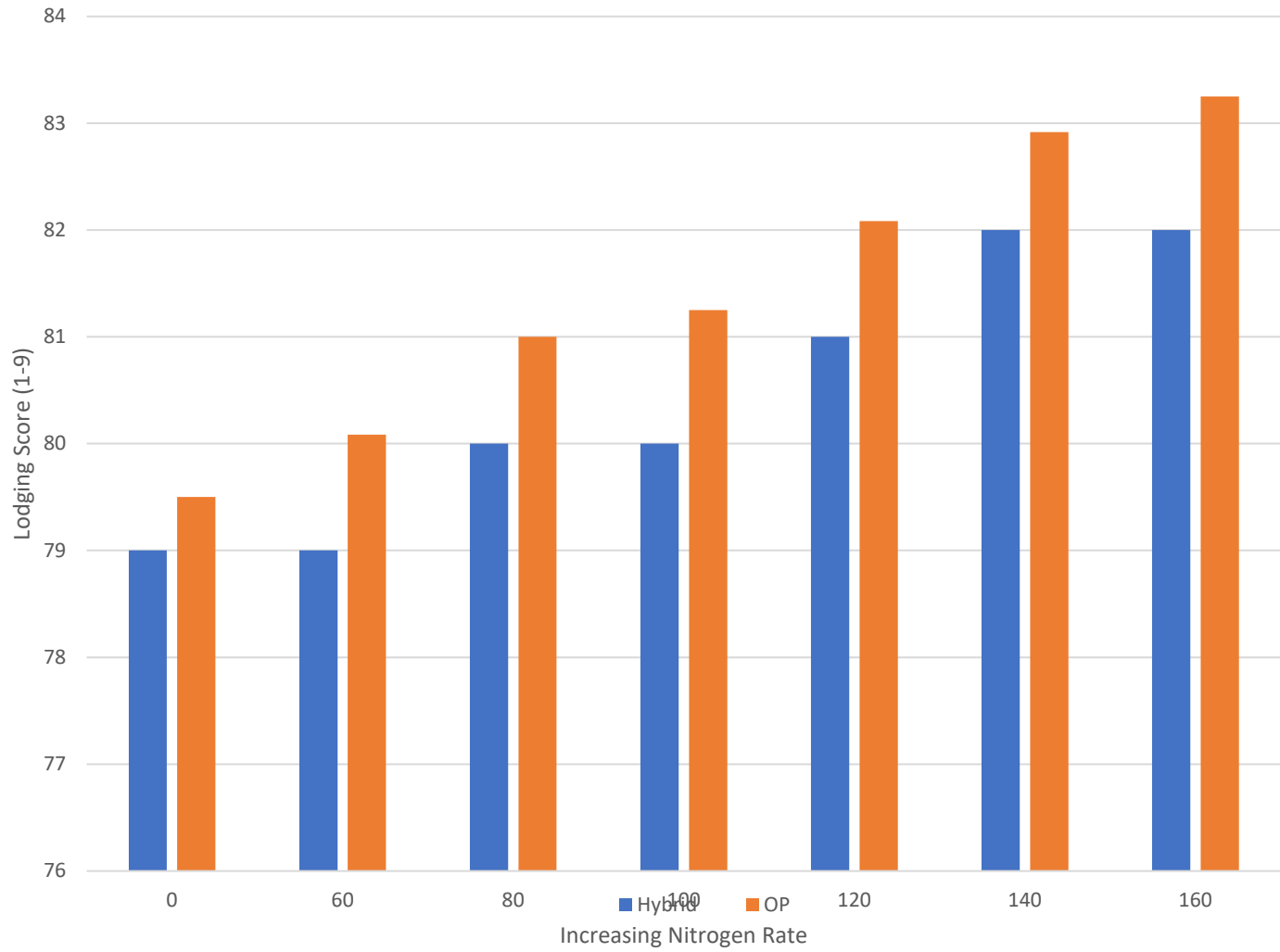
June 18, 2021
Nitrogen Rate
trial

5 weeks after
seeding

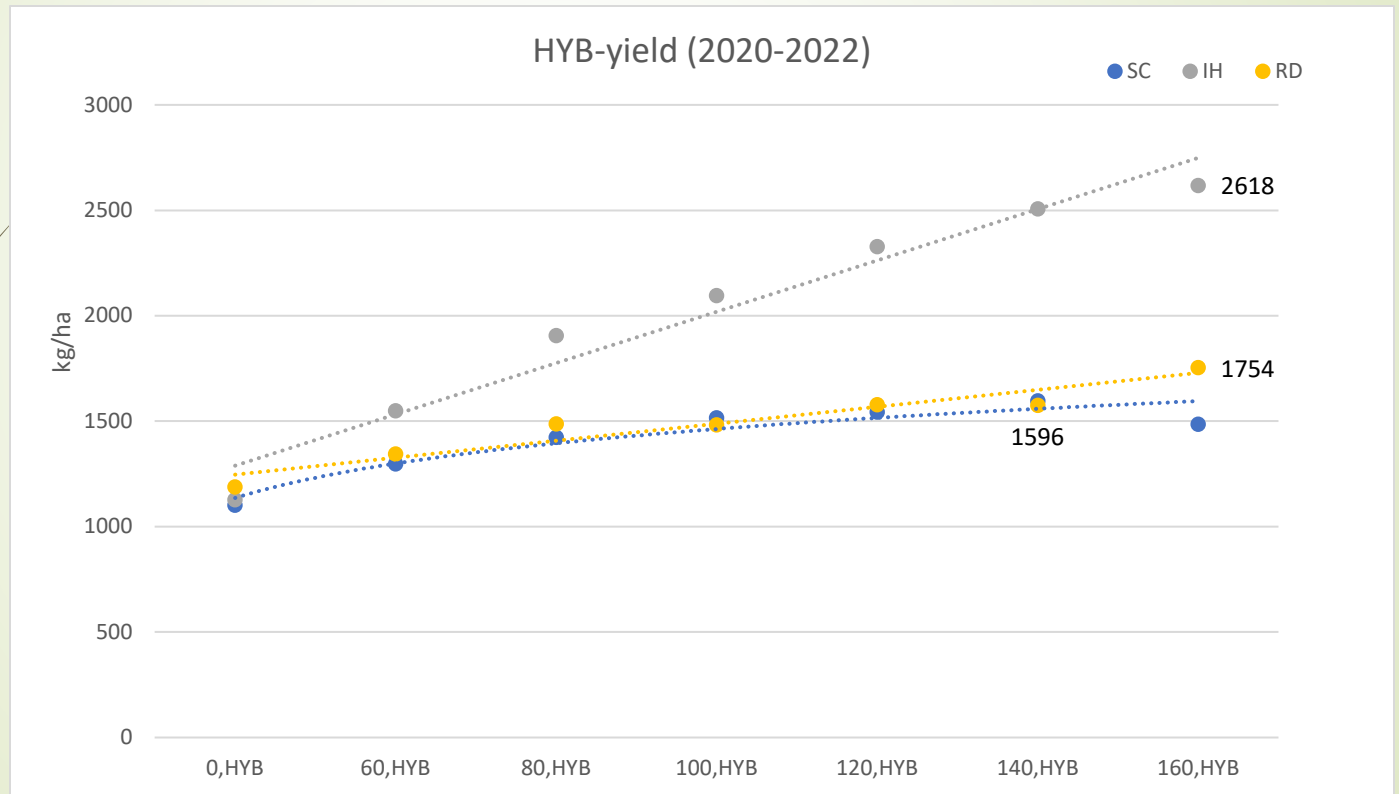
IH-HYB vs OP Lodging



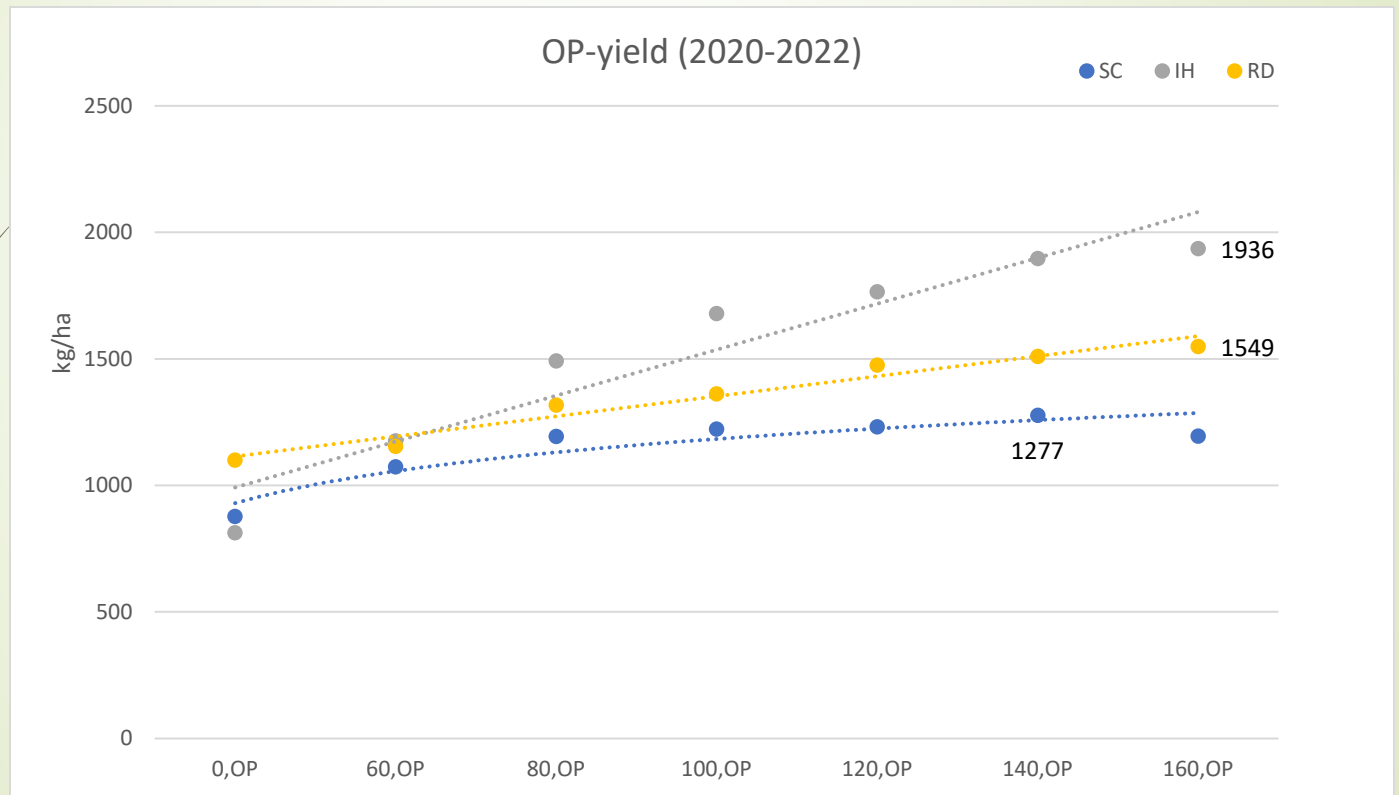
IH-HYB vs OP Days to Maturity



AAC Brown 18 Yield



Centennial Yield





Notes:

- Height varied across sites (significant difference at WCA and SERF and increased with N)
- 



Centennial 80N



Hybrid 80N



June 19, 2020





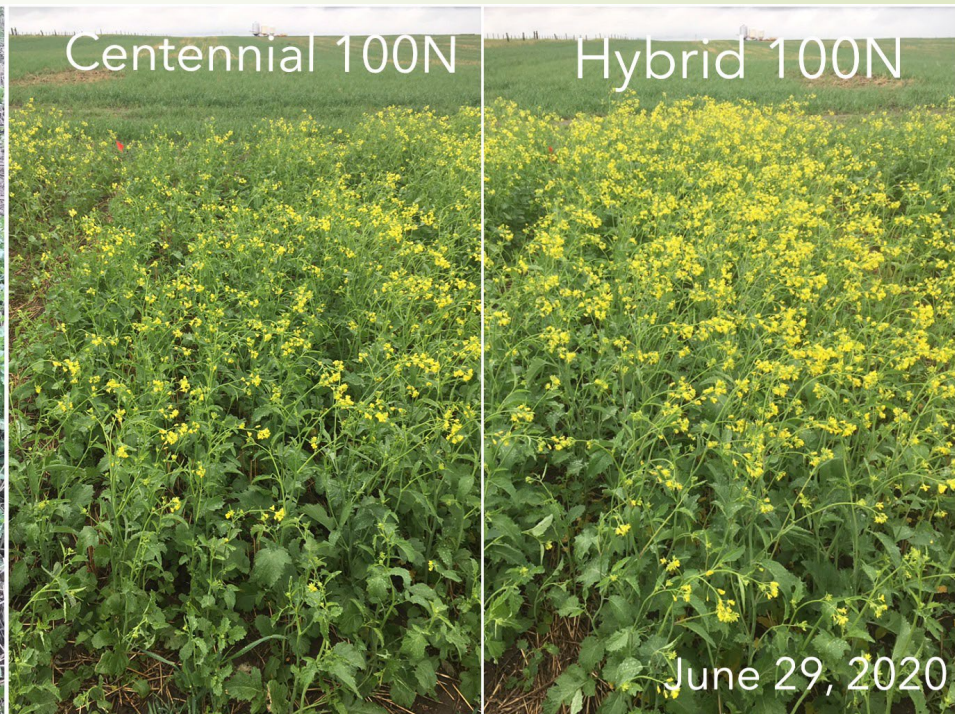
Centennial 120N



Hybrid 120N

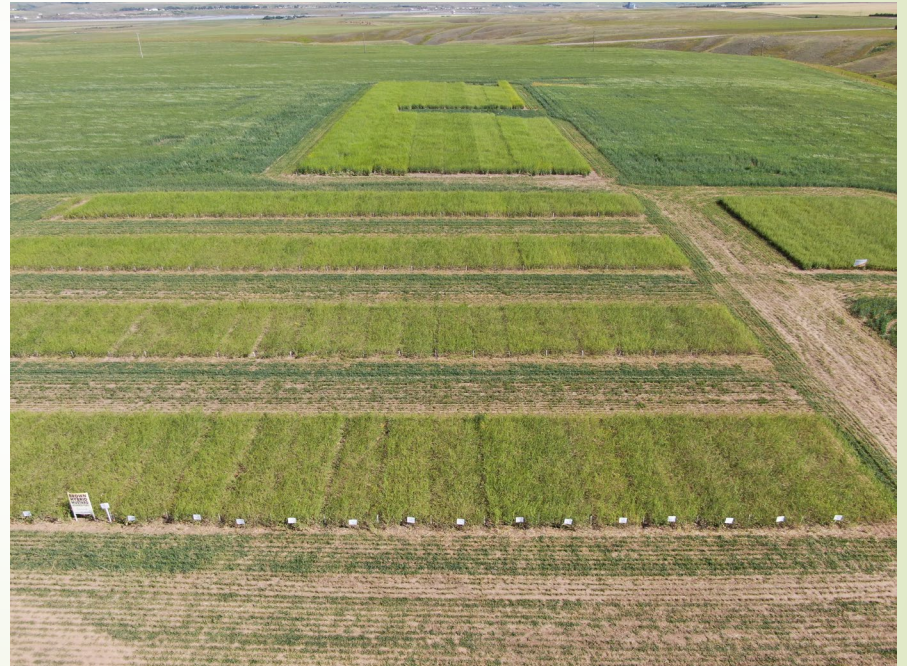


June 19, 2020





Nitrogen Rate July 22, 2022





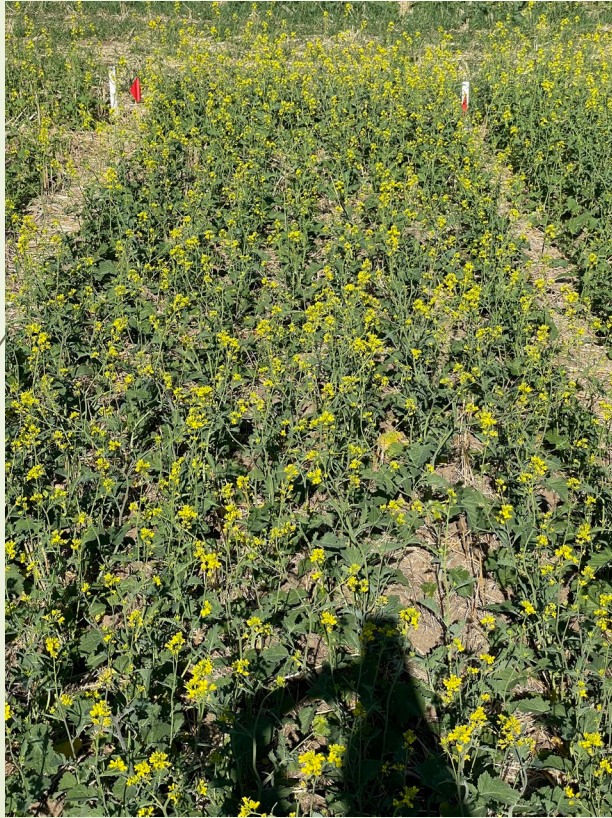
Hybrid 120N



OP 120N



Hyb 140 vs. OP 140N



HYB 100 vs. OP 100N



HYB 0N vs. OP 0N



OP 140N June 21, 2022



Hybrid 160N (left), OP 160N (right)



Final report available in FEB

- Yield varied by location and environmental conditions





ADOPT Project – Growing hybrid/composite mustard under irrigation

- Outlook, SK
- AAC Brown 18
- AAC Yellow 80
- L233P
- All grown under irrigation

July 27th Hybrid Brown 18



July 27th 2022 Yellow 80



L233P Canola July 27th 2022



Pod Zone was 24 to 26 inches long



ICDC Site August 4th Hybrid Brown 18



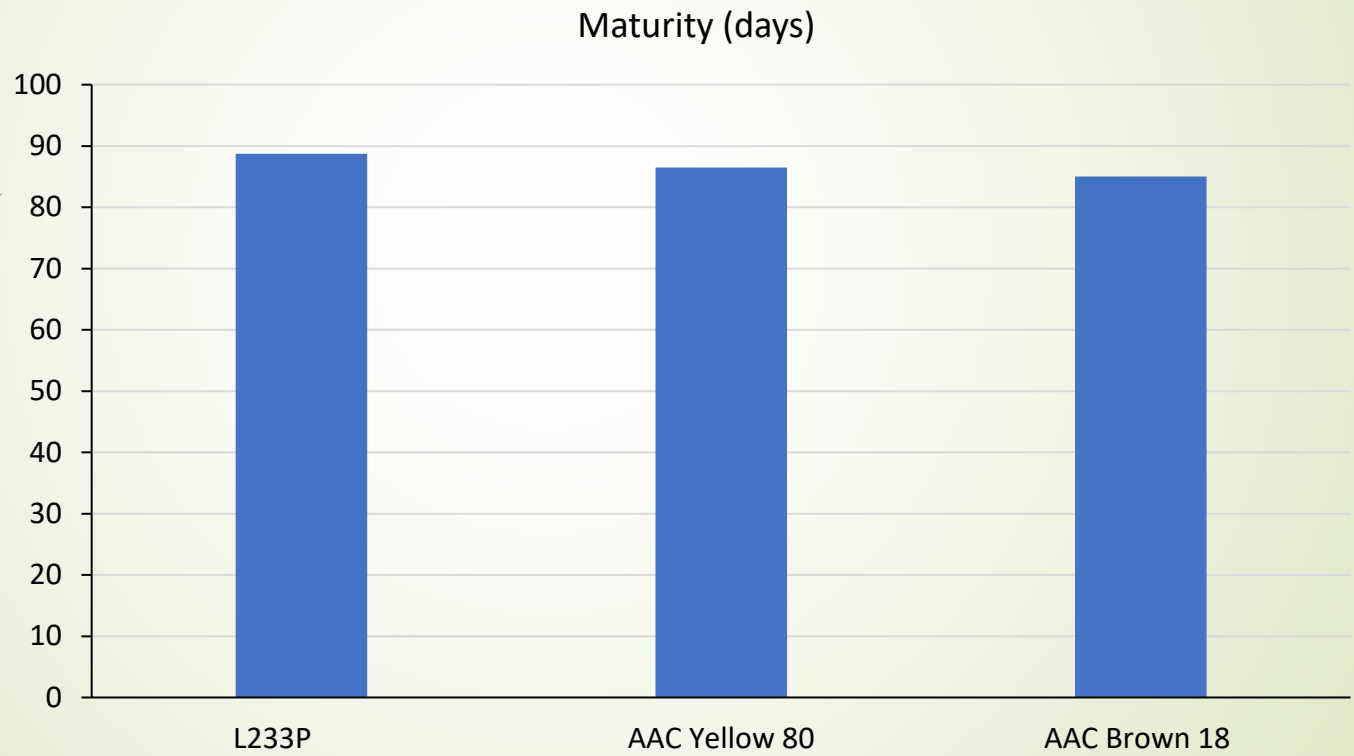
ICDC Site August 4th AAC Yellow 80



ICDC Site August 4th – L233P



Maturity



Yield

