

yield

2024

MANITOBA

YIELD MANITOBA / 2024

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Yields burst expectations in 2023 / 4

Increasing profits using 4R / 10

AgrilInsurance coverage and hail / 12

Nitrogen placement can affect yield / 14

Climate Maps & Statistics / 20

MASC Management Plus Yield Data / 33

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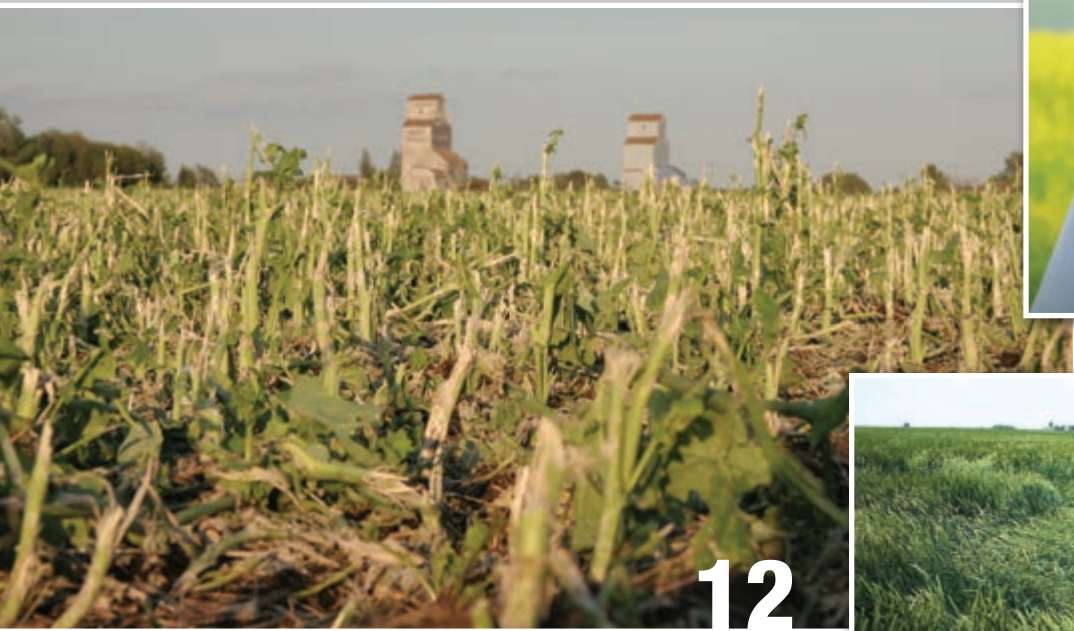
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contents

YIELD MANITOBA / 2024

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Yields burst expectations in 2023	4
Increasing profits on the farm using 4R	10
How hail affects AgriInsurance coverage	12
Nitrogen placement can affect yield	14
Lodging remains major economic loss in wheat production	18
Weather conditions an unpredictable lottery	20
MASC Risk Area Map	32

Variety Yield Tables	
Manitoba	33
• Risk Area 1	36
• Risk Area 2	38
• Risk Area 3	40
• Risk Area 4	40
• Risk Area 5	42
• Risk Area 6	43
• Risk Area 7	44
• Risk Area 8	46
• Risk Area 9	46
• Risk Area 10	48
• Risk Area 11	49
• Risk Area 12	50
• Risk Area 14	53
• Risk Area 15	54
• Risk Area 16	55

Agroclimatic Maps	
Per cent of Water Holding Capacity (0-120) . . .	25
Amount of Available Soil Moisture (0-120) . . .	25
Per cent of Water Holding Capacity (0-30) . . .	26
Amount of Available Soil Moisture (0-30) . . .	26
Per cent of Water Holding Capacity (30-120) . .	27
Amount of Available Soil Moisture (30-120) . .	27
Per cent of Normal Accumulated Precipitation	28
Total Accumulation of Precipitation	28
Per cent of Normal Corn Heat Units	29
Total Accumulated Corn Heat Units	29
Per cent of Normal Accumulated Growing Degree Days	30
Total Accumulated Growing Degree Days . . .	30

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Yields burst expectations in 2023

HARVEST 2023: Manitoba's crop turned out better than expected, including a few record-breakers

By Allan Dawson, Yield Manitoba contributor

Note: All data in this story is based on fields insured through the Manitoba Agricultural Services Corporation (MASC). More than 90 per cent of Manitoba's annual crops are covered by crop insurance, and data is aggregated to protect farmer privacy. Yield and variety information by municipality must come from at least three farmers involving a minimum of 500 acres.

While MASC's yield collection was complete at the time of writing, reported figures may still be subject to revision.

Manitoba's 2023 crop was a pleasant surprise for most, despite a generally dry growing season. Canola insured through AgriInsurance, for example, averaged a record 48 bushels an acre (bu./acre), based on MASC data as of Dec. 29, 2023.

That broke the previous record for the province, set in 2017 when canola growers got average yields of 47 bu./acre. Compared to the previous year, canola yield was 17 per cent higher than 2022's 41 bu./acre and overtook both the five-year and 10-year average, each also 41 bu./acre.

Starbuck farmer Chuck Fossay was expecting a high provincial canola yield based on what farmers were telling him, but not necessarily a record 48 bushels an acre.

Some producers reported 60 bushels an acre or more coming off the field, said Fossay, who is a director of the Manitoba Canola Growers Association and vice-president of the Canola Council of Canada.

Manitoba's weather in July was cool, he noted, which was good for flowering canola.

"I think there were only two days in the month of July when the crop was flowering that was over 30 C, so that's a real key factor in your yield, not having all that heat blast on your flowers," he said. "And even though it was dry, we were getting — most places at least — little shots of rain here, little shots of rain there, so it just kind of kept the crop growing."

Out of 102 municipalities, MASC data shows 49 had canola yields averaging 50 bu./acre or more.

The RM of St. François Xavier averaged 62 bu./acre, albeit from just 532 acres (see Table 2).

TABLE 1: 2023 YIELDS OF SELECTED INSURED MANITOBA CROPS

Crop	2023 yield bushels/acre	2022 yield bushels/acre	% change	10- year average	% difference	New record in 2023	Previous record yield	Year of previous record
Argentine Canola	48	41	17	41	17	YES	47	2017
Red Spring Wheat	63	61.2	3	58	9	NO	67	2017
Winter Wheat	55	50.6	9	62.5	-12	NO	72	2016
Northern Hard Red Wheat*	70	70.5	-1	69.1	1	NO	81	2017
Soybeans	38	44.8	-15	35.1	8	NO	42	2016
Barley	84	75.4	11	74	14	NO	87	2017
Oats	100	122.1	-18	105	-5	NO	128	2017
Grain Corn	136	153.9	-12	128.5	6	NO	153.9	2022
Field Peas	54	52.3	3	45.3	19	YES	53	2017, 2019
Flax	26	33.5	-22	23.8	9	NO	29	2017
White Pea Beans	1,945 lbs/acre	2,079 lbs/acre	-6	1,675 lbs/acre	16	NO	2,214 lbs/acre	2013
Non-oil Sunflowers	2,131 lbs/acre	1,660 lbs/acre	28	1,743 lbs/acre	22	YES	2,117 lbs/acre	2017
Oil Sunflowers	2,401 lbs/acre	1,841 lbs/acre	30	1,914 lbs/acre	25	YES	2,021 lbs/acre	2017

Source: Manitoba Agricultural Services Corporation (MASC), Management Plus and necessary calculations.

This table is based on MASC data as of Dec. 29, 2023, and while considered complete, may be subject to future revision resulting in possible changes. These data include insured pedigreed seed crops but not organic crops. To protect farmers' privacy MASC data are aggregated. Yield and variety information by municipality must come from at least three farmers involving a minimum of 500 acres.

* Most varieties in this new category were formally in the feed wheat category

Canola took up less real estate in Manitoba compared to 2022, slipping from 3.1 million acres to 3 million in 2023 (see Table 3).

Per acre, however, the province is producing more canola than in previous years. The recent five year average (2022-18) canola yield of 41 bushels an acre is 52 per cent higher than five year average 25 years ago (1993-98) of 27.

General jumps

The oilseed wasn't the only crop to leave yield records in the rear-view mirror. Of the 13 crops analyzed for Yield Manitoba 2024, records were also set in field peas (54 bu./acre), non-oil sunflowers (2,131 pounds an acre) and oil sunflowers (2,401 pounds an acre).

In total, seven of the 13 crops yielded higher than in 2022, and 11 were above the 10-year average (see Table 1).

"I think I was surprised with some of the yields because, mainly, during the summer there was lots of discussion about the dry conditions in different areas and there was lots of variability," said Dennis Lange, Manitoba Agriculture's pulse crop specialist and weekly crop report editor. "I think that's the biggest word all season — variability. Field A would get rainfall and field B two miles away wouldn't.

"I think, for the most part, most people are pretty pleased with the yield overall and what they got this year."

RED SPRING WHEAT

Red spring wheat acres, covering varieties in the premium Canada Western Red Spring class, jumped 12 per cent in 2023 to 2.8 million. That's 17 per cent higher than the 10-year average of 2.4 million.

The provincial average yield was 63 bu./acre, up three per cent from 2022 and nine per cent higher than the 10-year average of 58.

Lange described red spring wheat yields in 2023 as "amazing."

Seventeen municipalities had yields averaging 70 bu./acre or above.

Highlights included the AAC Elie variety, which averaged 85 bu./acre across 2,035 acres in the RM of Lac du Bonnet. All varieties averaged 78 bu./acre from almost 35,000 acres in the RM of Elton.

The lowest average yield, 23 bu./acre, was in the RM of St. Laurent.

The most recent five-year average — 62 bu./acre — is 94 per cent higher than the same figure 25 years ago (between 1993 and 1998), when producers grew 32 bu./acre.

NORTHERN HARD RED WHEAT

True to form the higher yielding, lower protein varieties in this category dominated by Faller and Prosper, continued to provide a yield boost over Red Spring Wheat averaging 70 bushels an acre on almost 150,000 acres across Manitoba.

Of the 45 municipalities with sufficient data to report, 23 averaged 70 bu./acre. or more

The 2023 yield was one per cent lower than in 2022 and one per cent higher than the 10-year average.

Acreage was up 31 per cent from 2022, but down six per cent from the 10-year average.

This crop category ranked eighth in acreage relative to other insured crops, unchanged from 2022.

The variety Prosper had the highest average yield provincially at 71 bu./acre from 29,444 acres. Faller, which was grown on 116,294 acres across Manitoba, averaged 70 bu./acre and in the RM of Hamiota reached a peak average of 97 bu./acre on 1,145 acres.

"I think every year that we're surprised by yields when it's on the dry side, it's because of the total lack of disease."

— Scott Day

WINTER WHEAT

Winter wheat acres jumped 39 per cent to 56,723 in 2023, but remained far below the 10-year average of 115,000.

Provincially, the crop averaged 56 bu./acre, up five bushels from 2022. The 10-year average is 65 bu./acre.

While there wasn't much winterkill in 2023 rain probably came too late for the crop, Lange said.

SOYBEANS

Lange was expecting slightly lower average yields for soybeans in 2023 given the dry weather. While 38 bushels an acre is 15 per cent lower than 2022's 45, it's eight per cent better than the 10-year average of 35.

That's 15 per cent lower than 2022's 45 bu./acre, but eight per cent better than the 10-year average of 35.

"Early soybean fields coming off were 20 and 25 bushels [an acre]," Lange said.

Yields began to pick up as later-harvested fields began to report, including some yields in areas that got rainfall that saw yields over 50 to 60 bu./acre, he said, "but variability was a big thing this year.

"My initial yield estimates were a bit lower than what they turned out to be, but that's not necessarily a bad thing. I don't necessarily like seeing it the other way around."

Out of 88 municipalities reporting, 34 averaged 40 or more bu./acre. One averaged more than 50. Thirteen averaged 30 bu./acre or under.

The RM of Pipestone averaged 19 bu./acre from almost 1,600 acres. In contrast, the RM of Ste. Anne averaged 51 bu./acre from more than 8,700 acres.

Continued on page 6

Continued from page 5

FIELD PEAS

Manitoba's field pea plantings fell 13 per cent in 2023 to almost 159,000 acres, but the average yield was a record 54 bu./acre, compared to 52 in 2022.

Yield Manitoba 2023 reported field peas hit a record 54 bushels in 2022, but the figure was revised later to 52.3 bu./acre.

The previous record of 53 bu./acre was set in 2017 and repeated in 2019. The 10-year average yield and acreage is 45 bu./acre and 112,000 respectively.

GRAIN CORN

In 2022, insured grain corn yields averaged a record 153.9 bu./acre.

Following that, plantings in 2023 jumped 60 per cent to almost 469,000, making grain corn the fourth most planted crop behind canola, red spring wheat and soybeans.

Grain corn averaged 136 bu./acre in 2023, down 12 per cent from 2022, but six per cent above the 10-year average of 129.

"They obviously didn't perform as well as they could have if we'd had more moisture in June, but it was very helpful to have the cooler July and some more moisture."

— Anne Kirk, Manitoba Agriculture

The crop got a poor start in 2023 due to spotty germination and dry weather, "but seeing those fields at the end of August and the beginning of September, it was amazing to see the turnaround," Manitoba Agriculture cereal specialist Anne Kirk said. "The crop looked quite good, whereas in June, looking at corn crops when they have that sad, grey-green colour and they are obviously moisture stressed. I guess having that moisture at the end of June and the beginning of July really saved a lot of those crops. They obviously didn't perform as well as they could have if we'd had more moisture in June, but it was very helpful to have the cooler July and some more moisture."

Some of the best 2023 corn yields were in non-traditional growing areas outside the Red River Valley. Certain municipalities in the valley recorded almost half their normal rainfall.

The RM of Reynolds, which borders the Whiteshell Provincial Park in southeastern Manitoba, averaged 176 bu./acre from 1,900 acres, the highest of any municipality.

OATS

Both oat acreage and yields were down in 2023. One hundred bushels was the average from almost 302,000 acres in the province, and the cereal fell from the fourth most planted crop in 2022 to the sixth in 2023.

The 2022 oat yield was 18 per cent higher, at 122 bu./acre. Acreage was almost double at 630,000 acres.

However, there still were some high yields in 2023. Alexander municipality in eastern Manitoba, averaged 171 bushels from 802 acres. On the other extreme, in the southwest RM of Ellice-Archie, oats averaged 39 bu./acre from 900 acres.

BARLEY

Averaging 84 bu./acre from 354,000 acres, 2023 barley yields were down 11 and 14 per cent from 2022 yields and 10-year averages respectively.

Of the 80 reporting municipalities, 39 averaged 80 or more bu./acre. Six municipalities averaged 100 or more bu./acre.

The RM of Cartier had the highest average yield of 113 bu./acre from 5,100 acres.

WHITE PEA BEANS

This edible bean averaged 1,945 pounds an acre in 2023, down six per cent from 2022 but 16 per cent above the 10-year average.

Farmers harvested 18,986 acres, down slightly from 20,198 in 2022 and down 42 per cent from the 10-year average of 32,669 acres.

The RM of Dufferin had the highest average yield of 2,330 pounds from 1,414 acres.

All insured edible beans in 2023 totalled 150,644 acres, ranking them collectively as the ninth highest acreage crop, unchanged from 2022.

SUNFLOWERS

Non-oil (confectionary) and oil sunflowers both set yield records in 2023 at 2,131 and 2,401 pounds an acre respectively.

The RM of Montcalm had the highest average yield of oil sunflowers at 2,844 pounds from 800 acres.

There were 78,531 acres of all types of sunflowers harvested in 2023, up nine per cent from 2022, but down seven per cent from the 10-year average.

Sunflowers in total ranked 11th in acreage, behind 10th spot silage corn, which saw almost 94,000 acres.

View from the farm

But while wider provincial yields for most crops was good, and in some cases extraordinary, many single farmers suffered below-average yields.

Canola farmers in the RM of Stuartburn reaped an average of just 32 bu./acre from their 770 acres. Over in the RM of Roland, usually one of the highest yielding areas of the province, northern hard red wheat averaged just 19 bu./acre from 1,926 acres.

Manitoba Agriculture's nearby weather station reported

Continued on page 8

TABLE 2: SUMMARY OF BEST AND WORST 2023 YIELDS FOR SELECTED INSURED MANITOBA CROPS

Crop	2023 yield bushels per acre	Variety	Municipality	Acres	Percentage share
RED SPRING WHEAT					
Highest average yielding variety province-wide	67	AAC Wheatland	Province-wide	318,351	12
Highest acre variety province-wide	62	AAC Brandon	Province-wide	1.04 million	37
Highest average yielding variety in a municipality	85	AAC Elie	Lac du Bonnet	2,035	15
Highest average yield by municipality	78	All Varieties	Elton	34,967	100
Lowest average yield by municipality	23	All Varieties	St. Laurent	810	100
WINTER WHEAT					
Highest average yielding variety province-wide	64	AAC Vortex	Province-wide	2,875	5
Highest acre variety province-wide	59	AAC Wildfire	Province-wide	25,427	45
Highest average yielding variety in a municipality	68	AAC Wildfire	Brokenhead	590	30
Highest average yield by municipality	71	All Varieties	Whitemouth	879	100
Lowest average yield by municipality	31	All Varieties	Rosburn	1,157	100
NORTHERN HARD RED WHEAT					
Highest average yielding variety province-wide	71	Prosper	Province-wide	29,444	19
Highest acre variety province-wide	70	Faller	Province-wide	116,294	77
Highest average yielding variety in a municipality	97	Faller	Hamiota	1,145	100
Highest average yield by municipality	97	All Varieties	Hamiota	1,145	100
Lowest average yield by municipality	19	All Varieties	Roland	1,938	100
ARGENTINE CANOLA					
Highest average yielding variety province-wide	54	L130	Province-wide	790	0.03
Highest acre variety province-wide	49	L340PC	Province-wide	880,604	29
Highest average yielding variety in a municipality	62	L350PC	St. Francis Xavier	532	5
Highest average yield by municipality	60	All Varieties	Headingley	2,991	100
Lowest average yield by municipality	32	All Varieties	Stuartburn	770	100
SOYBEANS					
Highest average yielding variety province-wide	47	*SI00221XTN B0040L1	Province-wide	3,288 965	0.2, 0.6
Highest acre variety province-wide	40	P006A37X	Province-wide	110,231	7
Highest average yielding variety in a municipality	57	*DKB005-52, DKB006-80	Tache, Hanover	515, 1,681	2, 21
Highest average yield by municipality	51	All Varieties	Ste, Anne	8,758	100
Lowest average yield by municipality	19	All Varieties	Pipestone	1,585	100
BARLEY					
Highest average yielding variety province-wide	111	Oreana	Province-wide	880	0.25
Highest acre variety province-wide	85	CDC Austenson	Province-wide	131,678	37
Highest average yielding variety in a municipality	122	Emsa	Portage la Prairie	684	6
Highest average yield by municipality	113	All Varieties	Cartier	5,132	100
Lowest average yield by municipality	36	All Varieties	Grahamdale	1,008	100
OATS					
Highest average yielding variety province-wide	124	AAC Douglas	Province-wide	16,624	6
Highest acre variety province-wide	99	Summit	Province-wide	98,188	30
Highest average yielding variety in a municipality	171	CS Camden	Alexander	802	100
Highest average yield by municipality	171	All Varieties	Alexander	802	100
Lowest average yield by municipality	39	All Varieties	Ellice-Archie	902	100
GRAIN CORN					
Highest average yielding variety province-wide	178	CP1440	Province-wide	1,178	0.3
Highest acre variety province-wide	128	P7211AM	Province-wide	59,541	13
Highest average yielding variety in a municipality	174	*DKC29-89RIB, P7822AM	Hanover	1,066 509	7 3
Highest average yield by municipality	176	All Varieties	Reynolds	1,935	100
Lowest average yield by municipality	48	All Varieties	Pipestone	1,586	100
FIELD PEAS					
Highest average yielding variety province-wide	70	AAC Lacombe	Province-wide	1,030	0.65
Highest acre variety province-wide	55	AAC Chrome	Province-wide	49,879	31
Highest average yielding variety in a municipality	76	AAC Chrome,	*Fisher, Minto-Odanah	595 608	32 11
Highest average yield by municipality	76	All Varieties	Cornwallis	893	100
Lowest average yield by municipality	29	All Varieties	Roland	559	100
FLAX					
Highest average yielding variety province-wide	31	*CDC Neela, Westlin 72	Province-wide	1,086 898	4 3
Highest acre variety province-wide	27	CDC Rowland	Province-wide	8,785	33
Highest average yielding variety in a municipality	34	CDC Rowland	Louise	1,174	26
Highest average yield by municipality	36	All Varieties	**Cartier Rockwood	669 733	100
Lowest average yield by municipality	15	All Varieties	Rhineland	518	100
Sunflowers (Oil)					
Highest average yielding variety province-wide	2,784 lbs/acre	CP455E	Province-wide	4,574	7
Highest acre variety province-wide	2,648 lbs/acre	P63ME80	Province-wide	13,790	22
Highest average yielding variety in a municipality	3,195 lbs/acre	CP455E	Springfield	1,077	28
Highest average yield by municipality	2,844 lbs/acre	All Varieties	Montcalm	800	100
Lowest average yield by municipality	1,518 lbs/acre	All Varieties	St. Francis Xavier	660	100
WHITE PEA BEANS					
Highest average yielding variety province-wide	2,006 lbs/acre	AAC Argosy	Province-wide	828	4
Highest acre variety province-wide	2,004 lbs/acre	T9905	Province-wide	14,324	75
Highest average yielding variety in a municipality	2,235 lbs/acre	T9905	Glenboro-South Cypress	1,879	83
Highest average yield by municipality	2,330 lbs/acre	All Varieties	Dufferin	1414	100
Lowest average yield by municipality	1,465 lbs/acre	All Varieties	Grey	1432	100

Source: Manitoba Agricultural Services Corporation (MASC), Management Plus and necessary calculations. This table is based on MASC data as of Dec. 29, 2023, and while considered complete, may be subject to future revision resulting in possible changes. These data include insured pedigreed seed crops but not organic crops. To protect farmers' privacy MASC data are aggregated. Yield and variety information by municipality must come from at least three farmers involving a minimum of 500 acres.

Note the percentage share of harvested acres depends on the column. For some volumes the share is of the named municipality and in others it's for the whole province

*Ties.

Continued from page 6

53 per cent or normal moisture from May 1 to Oct. 22. Growing Degree Days were 123 per cent of normal.

In contrast, Scott Day, who farms near Deloraine, Man., saw perhaps some of the best crops that have ever been grown on his farm. “I think individually we have grown better crops once in a while,” he said from San Francisco, where he works for Fall Line Capital as Director of Agronomy.

The farm was “probably one rain away from a phenomenal crop or one rain away from a very poor crop,” he said. “I know people in the Hamiota-Strathclair area. They had an unbelievable crop up there and they had one rain more than down south. [People I know] at Sperling, they had nothing — terrible crop there and they had one less rain.”

Season shifts

Manitoba’s spring started off cool and dry, flipped the switch to hot and dry, and then rain fell in June.

“This is the first year we harvested fencerow-to-fencerow and there wasn’t a single spot that was lodged, or was underwater, or it had any weather damage at all,” he said. “Leading up to harvest, that makes you nervous because there are no really good areas [of crop] leaning, but it obviously makes for an ideal harvest.”

Likewise, he said, there were few disease concerns. “I didn’t spray any fungicides and I am pretty sure I didn’t make a mistake,” he said. “We had the best crop we’ve ever grown. I think every year that we’re surprised by yields when it’s on the dry side, it’s because of the total lack of disease.”

Disease “has a bigger impact on our yields than we realize and we’re still a long ways away from having really effective control methods,” Day argued.

Fossay wasn’t alone in pointing to the benefit of

a cooler July. Both Lange and Kirk also suspected that the cooler-than-normal July helped yields by preventing flowers from aborting.

Day also wondered whether smoke blown in from Canada’s plentiful wildfire season, mimicking overcast conditions, had a positive impact. There’s no way to know without a lot of research, he said.

Resilience

Last year showed how resilient crops are, Day said.

“We are growing soybeans from northern Manitoba to southern Argentina,” he noted.

And while GMO has helped weed control in soybean production, most of the crop’s adaptability and expansion of range is due to conventional breeding, he said.

“There will be regional problems and changes, but I don’t see a crisis in production because of these one- to two-degree changes [due to climate change],” he said. “I see things moving around the globe as to where they are produced. To me it is kind of comforting that plants can adapt to a wide variety of environments.”

Day also has advice for Yield Manitoba 2024 readers: dig into the data.

“This is great data on the aggregate, but if you’re making decisions here, you have to wade through it to figure out how relevant it is to your operation,” he said.

Yield Manitoba 2024 shows which varieties were top yielders in Manitoba, but factors such as the number of acres grown and the newness of the variety should be considered. New varieties are usually grown by seed growers on good land to multiply seed, and therefore tend to yield more.

Yield Manitoba and Management Plus (https://www.masc.mb.ca/masc.nsf/mmpp_browser_variety.html) show yields by variety, and in different municipalities and risk areas.

TABLE 3: TOP MANITOBA INSURED GRAIN & OILSEED CROPS IN 2023

Rank	Crop	2023 acres	2022 acres	% change	Rank in 2022	10 year average	% change
1	Canola	3.0 million	3.1 million	-3	1	3.1 million	-3
2	Red Spring Wheat	2.8 million	2.5 million	12	2	2.4 million	17
3	Soybeans	1.55 million	858,891	80	3	1.4 million	11
4	Grain Corn	468,648	293,019	60	6	324,095	45
5	Barley	354,346	350,683	0.9	5	336,343	5
6	Oats	301,969	630,382	-52	4	465,625	-35
7	Field Peas	158,841	182,000	-13	7	111,828	42
8	Northern Hard Red Wheat	150,928	115,334	31	8	160,866	-6
9	Dry Edible Beans (all)	150,644	113,343	34	9	133,236	15
10	Silage Corn	93,712	103,867	-10	10	94,562	-1
11	Sunflower (all)	78,531	72,316	9	11	73,197	-7
TOTAL ACRES		9.1 million	8.3 million			8.6 million	

Source: Manitoba Agricultural Services Corporation (MASC), Management Plus and necessary calculations.

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Increasing profits on the farm using 4R

MANAGEMENT: The economic benefits of these practices are often overlooked

By Darren Bond, Manitoba Agriculture

Are leaner times ahead? The past five years have been quite profitable for grain farms, even considering the production challenges that many areas of the province went through.

Grain prices reached levels not seen in some time. However, input prices also increased along the way, squeezing profit margins while driving up risk with the increased costs per acre to put in a crop. Commodity prices have recently softened considerably, and while some input prices have also decreased, many inputs like fertilizer are still relatively expensive.

Managing the most expensive crop input costs like fertilizer has taken on new importance for maintaining profitability on the farm.

Managing the most expensive crop input costs like fertilizer has taken on new importance for maintaining profitability on the farm. There has also been increased scrutiny of how farms manage their fertilizer with respect to the impact on the environment. When profitability was good, there was often profit left over to invest in environmentally friendly practices. Will the recent margin squeeze and drop in profitability negatively impact producers' ability to reduce their environmental impact with an input like fertilizer?

Fortunately for producers, adopting 4R nutrient stewardship beneficial management practices can simultaneously increase profit on the farm while improving producers' environmental footprints.

What is 4R?

In simple terms, 4R nutrient stewardship is simply a guideline on how to improve the management of fertilizer application. Many see 4R as a way to lessen the environmental impact of fertilizer through using the right source at the right rate, at the right time and the right place. However, many producers don't realize there is also a potential to increase profit depending on how one manages their fertilizer application regime. Applying fertilizer to the crop closer to when the crop needs it, in a band to protect the fertilizer from environmental losses, increases the fertilizer application efficiency and allows producers to use slightly less fertilizer while still maintaining the same yields. With fertilizer still relatively expensive, even small savings can have a large impact on profitability, often making the difference between making money and losing money on the farm. But how do we measure the financial impact of adopting 4R practices?

Calculating profit with 4R

Manitoba Agriculture's fertilizer efficiency calculator can easily take different fertilizer management practices and calculate the extra fertilizer costs required (or savings generated) depending on the efficiency of the application practices.

You can download an excel spreadsheet or use it online: <https://calculators.masc.mb.ca/calculators/fertilizer-efficiency>

Right Rate

Determining the right rate through the effective use of soil sampling to ensure the crop is not under-fertilized often creates the largest financial impact to profitability. Manitoba Agriculture's 2024 Crop Costs of Production guide uses \$15.75/bu. as a target price with a target yield of

45 bu./ac., generating a net profit of about \$35/ac. Simply decreasing the canola yield by three bu./ac. lowers net profit to a loss of \$12/ac., which is a drop of 135 per cent. Over-fertilizing also carries profitability risk. Not only are there the extra costs of applying more fertilizer, but also the increased risk of crop lodging, which could also decrease yields and generate lower profitability.

Right Source

Recently the focus on the right source for fertilizer has been through the use of inhibitors and controlled-release nitrogen fertilizer formulations.

It is important to understand the difference between urease inhibitors and nitrification inhibitors.

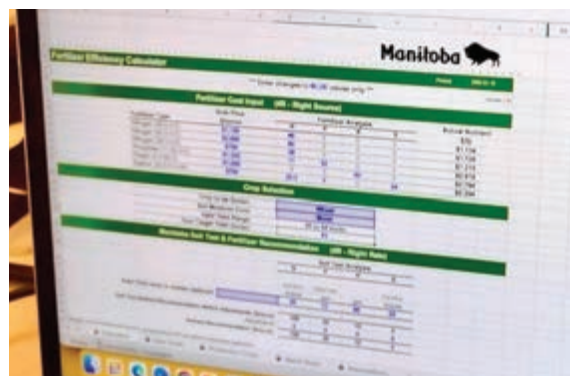
Urease inhibitors protect nitrogen fertilizers from volatilization and nitrogen losses to the atmosphere. When banding isn't possible, treating nitrogen fertilizer with a urease inhibitor when broadcasting can provide an economic benefit and acts like insurance, providing a seven-to-14-day window (depending on the formulation and treatment strength) to receive an adequate rainfall to move the nitrogen into the root zone. However, if an adequate rainfall doesn't occur in this timeframe, volatilization losses will start to occur, increasing the risk of under-fertilizing the crop, leading to a loss in profitability.

Nitrification inhibitors delay the conversion of ammonia-form nitrogen (anhydrous ammonia, urea and the urea fraction of a UAN solution) to the nitrate form, which is vulnerable to leaching and denitrification, with the latter process creating greenhouse gases (GHGs). While nitrification inhibitors provide an environmental benefit by reducing the potential of GHGs, they rarely provide an economic benefit to producers.

It is important to remember that choosing a different source doesn't fully replace the benefits seen with superior placement and timing.

Right Time

Timing has a significant impact on nitrogen fertilizer application efficiency.



Manitoba Agriculture's fertilizer efficiency calculator can be downloaded as an Excel file, or accessed online in a 'mobile friendly' format. PHOTO: FILE

Fall broadcast nitrogen has an 80 per cent efficiency factor, fall banded and spring broadcast nitrogen has a 100 per cent efficiency factor, while spring banded nitrogen has a 120 per cent efficiency factor. Taking canola, for example, a 120 lb./ac. application of nitrogen at \$0.75/lb. is \$90/ac. If the application is made as a fall broadcast, an application of 150 lb./ac. at a cost of about \$113/ac. would be required to maintain the yield target, representing a fertilizer cost increase of \$23/ac. and a profitability decline from \$35/ac. to \$12/ac., which is a decrease of 66 per cent. Meanwhile, a spring band nitrogen application would only need 100 lb./ac. at a cost of \$75/ac. to maintain the yield target. This results in a savings of \$15/ac. and an increase in profit of 43 per cent.

Right Place

Placement also has a large effect on fertilizer application efficiency, especially with immobile nutrients like phosphorous and potash. Broadcasting these two nutrients requires twice as much product compared to banding. Taking canola, for example, a 40 lb./ac. phosphorous application at \$1,075/t costs approximately \$38/ac. Broadcasting the phosphorous application would require 80 lb./ac. to be comparable to banding, increasing the cost to \$76/ac., which takes away all the profit, leaving a small loss of \$3/ac.

The cost of improving 4Rs

Small changes to fertilizer application regimes can cause large changes in profitability.

One-pass seeding and fertilizing does provide the greatest benefit and potential for profit. However, there are costs to becoming more efficient with fertilizer applications.

Investing in banding equipment and the equipment to support banding higher levels of fertilizer for high yielding crops can be quite costly, and often require multiple equipment upgrades on the farm. In addition to fertilizer banding units, dual shoot delivery coupled with dual hydraulic fans are often required to move the extra fertilizer.

Larger air carts are often required to reduce the number of fills required throughout the day, with larger augers and conveyors needed to reduce filling time. Larger tractors and a wider tire or track footprint are also often required to be able to properly operate these larger seeders without creating compaction issues.

Hauling more fertilizer also requires more labour and increases the workload at a busy time of year. These changes can cost anywhere from several thousand dollars to several hundred thousand dollars, depending on the changes required.

Manitoba Agriculture's fertilizer efficiency calculator can help with determining both the costs and benefits of making changes to fertilizer applications.

Carefully analyzing both the costs and benefits of improving 4R nutrient stewardship beneficial management practices can increase profits on the farm, which is especially important in times of tighter profit margins.

How hail affects AgriInsurance coverage

FACTORS: Crop selection will determine the type of coverage you have

By Danica Tack, MASC

Alongside its AgriInsurance programs, Manitoba Agricultural Services Corporation (MASC) also offers hail insurance coverage that provides a risk management solution for producers against crop losses due to hail and/or accidental fire.

MASC hail insurance offers several tiers of coverage, with up to \$400 per acre for most major crops and higher dollar value options for crops such as potatoes, vegetables and strawberries.

In 2023, MASC insured approximately 4.3 million acres under hail insurance, with total coverage of more than \$1.6 billion. The year saw many hailstorms across Manitoba. Hail insurance claims were up 78 per cent from the previous year, with more than 1,800 claims reported and over \$31 million in total indemnities paid to producers.

Hail claims for IPI crops

Most commonly, MASC uses the IPI method to calculate coverages for crops such as wheat, canola, oats, barley, flax, fall rye, sunflowers, peas and edible beans. IPI is a yield index that is determined by the comparison of your individual yield to the yields of other producers growing the same crop in the same soil zone and risk area. These IPI comparative indexes are averaged over a 10-year period, which allows for buffering of high variability on a year-to-year basis.

“A major advantage of the IPI method is how the effects of tough growing seasons are stabilized,” says Karen Dunne Thiessen, MASC’s product development manager. “For example, your coverage is adjusted accordingly when reporting lower yields in a dry year and other producers in the area experience similar diminished yields.”

Conversely, one potential result of the IPI method is that its responsiveness to improvements in yield performance is relatively slower, meaning that a high yield performance in a single year doesn’t have an immediate large impact on your coverage, as these single-year results are buffered and averaged over time.

Additionally, when an IPI crop experiences a loss due to hail, the yield loss is not factored into the calculation of long-term average yield. For example, if your wheat (an IPI crop) experiences a 25 per cent loss due to hail, the yield will be recalculated to remove the effects of the hail loss before your IPI calculation for wheat is determined.

For clarity, hail losses are not detrimental to long-term coverage provided by MASC when growing IPI

With such large and variable hail risks, it’s important to understand how your inevitable hail losses will factor into your long-term AgriInsurance coverage...

With such large and variable hail risks, it’s important to understand how your inevitable hail losses will factor into your long-term AgriInsurance coverage, how these factors depend on the crops you are growing, and whether the crop’s coverage is calculated by the individual productivity index (IPI) or individual coverage (IC) method.



Last growing season saw many hailstorms, and claims were up 78 per cent over the previous year. PHOTO: FILE

crops. If your crops are insured by MASC hail insurance, the recalculation of your coverage is performed automatically. If you exclusively carry hail insurance through a private hail provider, the recalculation process can only be completed if you provide proof of loss to MASC.

Hail claims for IC crops

The individual coverage (IC) calculation is MASC's other primary method of coverage determination, and is used for crops such as soybeans, grain corn, fababeans, ryegrass seed, potatoes and vegetables.

A simpler calculation than the IPI method, the IC method uses the average of your individual yield performances for a crop over a 10-year period to determine the level of your coverage.

"Coverage for IC crops is solely based on the history of an individual producer," explains Dunne Thiessen. "There is no adjustment calculation for buffering yield based on the performance of other producers growing the same crop in the same area."

For this reason, IC is more responsive than the IPI calculation. After a high performing year, the effects are more immediately reflected in your coverage. Conversely, the low yields of a tough growing season will also have a more immediate effect on your coverage.

When considering hail-related losses, coverage for IC crops is more susceptible to yield losses, as compared to crops with coverage determined by the IPI method. Yield losses due to hail are factored into the IC calculation. Using a similar example as above, if you experience a 25 per cent yield loss due to hail on soybeans (an IC crop), there is no calculation to

adjust the yield before it is factored into the overall coverage calculation.

For clarity, hail losses on IC crops are detrimental to long-term coverage provided by MASC for that crop.

Understanding the difference

Understanding whether the coverage for the crops you grow is determined by IPI or IC is helpful in understanding your confirmation of insurance provided to you by MASC and how your individual yield performance affects your long-term coverage.

In summary, IPI crops look at how an individual producer performs comparatively to producers growing the same crop in the same area, and the effects of extreme years (good or bad) are buffered over time. Coverage for IC crops is based solely on your individual yield performance, and the effects of extreme years (good or bad) are reflected more immediately in your coverage.

After a year like 2023, when MASC received a high volume of hail claims, the type of crops you grew will influence how those hail losses factor into your future coverage. If you experienced hail-related yield losses on IPI crops such as wheat or canola, any losses due to hail are removed and yield is adjusted accordingly when calculating your future coverage. However, if you experienced hail-related yield losses on IC crops such as soybeans or grain corn, the full effect of those yield losses are included when calculating your future coverage at MASC.

For any questions or to discuss your AgriInsurance coverage, please contact your insurance specialist at your local MASC Service Centre.

Nitrogen placement can affect yield

NUTRIENTS: The ‘right place’ portion of 4R nutrient management can pay dividends

By Gord Leathers, Yield Manitoba contributor

Decades later, the 1930s dust bowl still lives in the collective memory of farmers in Western Canada — and much of how they farm is aimed at preventing a repeat.

One of the biggest tools available to them is reducing tillage through direct seeding, but one agronomist says doing so can create new challenges that need to be managed.

One such challenge is fertilizer placement and just how closely that nutrient can be placed to the seed, says Lyle Cowell, senior agronomist with fertilizer producer Nutrien.

“I think the primary problem that comes with direct seeding is nitrogen placement,” he told the Manitoba Agronomists’ Conference earlier this winter, “specifically nitrogen placement in a band, the issue of narrow openers and safe rate for fertilizers in the seed row.”

Direct seeding can certainly lower soil disturbance and therefore soil erosion. But it affects the soil even as it protects it, in ways farmers need to manage.

Leaving crop residue on the surface helped conserve soil moisture and held down the rich organic topsoil, keeping it on the ground instead of having it blown away by our prairie westerlies.

But there was a trade-off: unincorporated field residue didn’t break down as quickly, so the soil organisms took longer to mineralize organic tissue into useful plant nutrients. This increased the need for the synthetic nitrogen fertilizers made possible by the Haber-Bosch process. The first ammonium nitrate plants began producing their wares in the early 1930s, just in time to make up the shortfall after the dust bowl forced the development of modern dryland farming.

“In terms of moving towards direct seeding the real innovation occurred in the 1980s and 1990s,” Cowell said. “Farmers led a lot of this movement; for example, Manitoba farmers along with the farmers in North



Lyle Cowell, a senior agronomist with Nutrien, says better fertilizer placement in direct seeding systems is a winner for farmers. PHOTO: NUTRIEN

Dakota formed the ManDak Association (Manitoba-North Dakota Zero Tillage Farmers Association) followed shortly by the the Saskatchewan Conservation Association. This came at a time when farmers were changing how they farmed in Western Canada.”

Another important development in direct seeding came about a few years earlier, in 1973, when Preston Davey and Art Ross of Antler, Saskatchewan, built a working air seeder that they called the Pride Seeder. According to Dave Durksen at the University of Saskatchewan, Davey and some associates built and sold a number of these seeders to farmers in Saskatchewan, Manitoba and North Dakota. In 1977 Prasco bought the rights to the Pride Seeder and the design really took off.

Continued on page 16



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“From there many more manufacturers built new and improved machines that could seed and fertilize without any soil disturbance,” Cowell said. “Durksen, reporting at the soils and crops workshop Saskatoon in 1981, listed all the benefits realized in direct seeding. Savings in energy, in labour costs, saving the soil moisture, improving soil quality and allowing better placement of fertilizer.”

Traditionally farmers broadcast their fertilizer, and this was simple enough with the machines they had. With the introduction of anhydrous ammonia, farmers found that the banded anhydrous produced higher yields than broadcast urea. Westco agronomist John Harapiak figured this simply didn't make sense.

“I think the primary problem that comes with direct seeding is nitrogen placement.”

— Lyle Cowell, Nutrien

“There is no reason that anhydrous ammonia should produce better crops than urea,” Cowell said. “He realized that it wasn't the product, it was the place. Banded urea will also do better than broadcast urea. John's real contribution to better fertilizer management in Western Canada could simply be described as 'banding is better.'”

Harapiak, along with Norm Flore, did a lot of fieldwork with nitrogen banding to see how it worked and how banded nitrogen behaved in the soil. They found that a band of nitrogen below the soil is actually quite stable compared to broadcast nitrogen.

“The average yield benefit was about 15 per cent higher with the band versus broadcast nitrogen fertilizer,” Cowell said. “And the total uptake or efficiency of that nitrogen was over 30 per cent higher.”

So what is it about the behaviour of nitrogen fertilizer that makes a subsoil band more effective than a broadcast distribution? Cowell himself did an experiment where he “split” the plant root. On one side of the plant he simulated a broadcast, while on the other side he placed a “band” about 10 centimetres deep.

After the plant had matured and grown he cleared any soil from the roots. The broadcast side had a stout main root moving down into the soil with

feathery rootlets coming out of it for its entire length. The banded side showed much better root development with a dense network of smaller roots branching throughout the soil. It's a much more extensive system by which the plant can scavenge soil resources.

“We see the response of the root system around that band,” he said. “It's an improvement of the root geometry which really improves the uptake of all of the nutrients and soil water.”

The result of proper placement was a robust, far-reaching root system that produced an equally robust, healthy plant that was more capable of looking after itself. Broadcasting the fertilizer is a much simpler way to apply it, and goes back to another era when an ancient farmer would spread livestock manure over a field and then till it under.

In a direct seeding operation, broadcasting presents a problem. It drops the prills into a layer of decaying plant tissue where they may be consumed by the soil biota. With the soil organisms incorporating inorganic nitrogen into their own tissue, that nitrogen now becomes organic and unavailable to your crop. In short, it's immobilized at the time the crop really needs it. That's why a well-placed band under the residue delivers nitrogen better than broadcasting in a direct seeding system.

“There is less tie-up of the nitrogen in the residue early in the season,” Cowell said. “Immobilization isn't really a loss of nitrogen, it's a loss of nitrogen at the right time of the growing season so that it's not available to the crop.”

So banding the fertilizer solves the “right place” problem. It can also solve the “right rate” problem as well. The next step is to use the seeder to improve seed bed utilization by managing the fertilizer rate. You don't want the prill to fall too close to the seed.

“Use a wider opener,” Cowell suggests. “Everybody has switched to very, very narrow openers, but one way that we can resolve the safety of fertilizer in the seed row is simply using a bit wider opener.”

The wider opener and, by extension, a wider furrow means a larger zone and safer space for the seeds among the fertilizer prills. The lower concentration lowers the potential toxicity of a mobile fertilizer within the furrow.

“When the prill is right next to a seed is when it will damage that seed,” Cowell said. “It's very obvious that a two-inch opener is going to be safer than a three-quarter-inch opener. Or in the end you can simply put the fertilizer in a different band. There are side-row banders, there are mid-row banders, you can simply separate the fertilizer from the seed.”



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Lodging remains major economic loss in wheat production

RESEARCH: Several strategies were explored, with varying results

By Gord Leathers, Yield Manitoba contributor

Even though she's currently on staff with a canola grower group, agronomist and researcher Amy Delaquis can tell you a thing or two about wheat. She's spent a lot of time, as an agronomist and doctoral student, charting its quality and its behaviour in the field, particularly with lodging.

The spring wheat produced in Western Canada is known globally for its high milling quality and high protein content, vital for bread making. But that comes with a trade-off, she told the recent Manitoba Agronomists' Conference.

after a rain when the topsoil is wet and there's a good wind blowing. Semi-dwarf genes have helped to reduce lodging, but that high nitrogen intake is still having an impact on wheat's ability to stay upright.

In her doctoral thesis Delaquis looked at a few of the variables that cause lodging to see if it could be reduced through agronomic practices such as nitrogen management, plant density and the use of a plant growth regulator.

"We did this with two small-plot field trials in Carman and Manitou during 2018-2019," she said. "We repeated each experiment four times with Brandon, Cameron and Prosper wheat."

Because both lodging and its causes are so unpredictable, Delaquis began by taking some of the plant's "characteristic measurements" such as stem diameter and internode length to see if these things influenced the durability of the stem.

"We also took measurements of lignin as well as structural fibre like the cellulose and hemicellulose content of the stem," she said. "And then to measure anchorage strength and root lodging risk, we measured root plate depth and width."

They used a device called The Stalker from Marchetto Lab at the University of Minnesota. It measures the force required to lodge a wheat plant.

"It was a machine that actually pushed the crop over and took a rating of the crop's resistance," she said. "So we measured the crop strength with that. We also measured the stem elasticity, the strength of the stems to resist being pushed over, and the ability of the crop to recover from that event."

She set up several trial plots at both sites and ran the experiment for two growing seasons. She reviewed four management practices and how the plots responded. The first practice was reducing the rate of a spring nitrogen application.

"Early season nitrogen was critical to avoid creating a negative relationship between kernel weight and kernel yield."

— Amy Delaquis

"In order to maintain that level of grain nitrogen we really have seen a big increase in demand for nitrogen uptake and that really increases the risk of lodging," Delaquis said.

Lodging is one of the major economic concerns with wheat. The occurrence and the severity of lodging is both variable and unpredictable. This is because it's the result of the plant's interactions with the environment, including the weather and the soil. That leaves a lot of variables to round up.

"There are two types of lodging occurring in spring wheat," Delaquis said. "Stem lodging is bending or breaking of the stem when the leverage from the wind is greater than the stem's strength. But what is highly prevalent in Manitoba is root lodging, when the structural rooting area of that wheat is compromised and the whole plant falls over, roots and all."

Wheat is particularly susceptible to root lodging right

“No surprise with the reduced nitrogen rate, it reduced our lodging risk,” she said. “It increased our stalk strength compared to all other treatments. We did have some visual lodging at these sites but it was after a major rain-fall in July. The crop actually recovered by harvest.”

She also reported a reduced protein content, which she expected. The yields were also a little lower. In another test set she split the nitrogen application. The first was in the spring and then a second was at the flag leaf stage.

“In looking at split nitrogen applications we did have reduced visual lodging ratings,” she said. “Overall we didn’t see a yield drag but we did see that that relationship of kernel weight with yield was dependant on nitrogen management. Early season nitrogen was critical to avoid creating a negative relationship between kernel weight and kernel yield.”

Reducing plant density was probably the most effective management strategy tested.

“We had increases in stem diameter as we lowered our seeding rate and our lodging ratings were reduced,” she said. “We had increased stem strength and flexibility. The stems were stronger and they were also able to recover quicker when we took that Stalker out for measurements.”

She also noted that the biggest concern with that



Spring wheat needs nitrogen to thrive, but that can also increase lodging.

PHOTO: FILE

approach is going to be weed management, because it reduces the competitive ability of the crop.

The last strategy tested was using a plant growth regulator, in this case Manipulator. She saw an average drop of 3.5 centimetres in the crop canopy height.

“We had an increase in stem strength but we actually had a reduction in stem elasticity with the plant growth regulator,” she said. “So that might be something to note. This is really the only management practice where you can evaluate the growing season and the lodging rates before you have to apply it.”

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Weather conditions an unpredictable lottery

REVIEW: The 2023 growing season had enormous variability, sometimes just across the road

By Alison Sass, Manitoba Agriculture

Farm production decisions are a gamble when it comes to weather and the odds of hitting the growing conditions jackpot can seem comparable to the jackpot odds in Las Vegas.

Temperatures during the 2023 Manitoba growing season were erratic, especially in early spring, and rain was so variable that producers even saw huge variability between fields. Rainfall this summer came mostly in isolated storms, which are difficult to predict in terms of timing, location, intensity and amount.

Fall soil moisture levels for 2022-23 at freeze-up were below 60 per cent at the 0-30 centimetre depth in the northwest and parts of the central region. At the 0-120 cm depths, much of the province was above 80 per cent of available soil moisture.

Last winter's precipitation was below normal for all of agro-Manitoba. Most regions recorded less than 60 per cent of the 30-year average precipitation between November 2022 and the end of April 2023.

Average temperatures over winter were also below normal for all regions except the Interlake and parts of the east. Temperatures between Nov. 1, 2022, and April 16, 2023, were 0 to 3 C below the 30-year average.

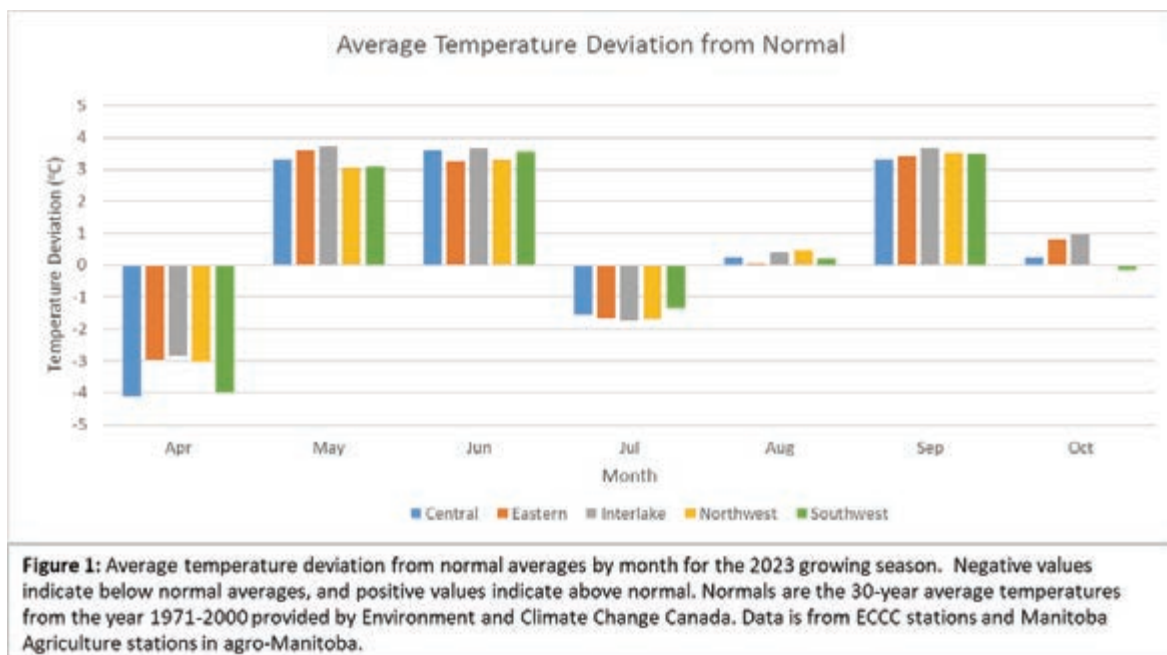
Above average temperatures

The 2023 growing season started with a bang where temperatures were concerned. Starbuck, for example, went from winter temperatures as low as -19.8 C on April 7 to summer-like temperatures of 33.4 C on May 26.

April had cooler temperatures ranging from 3 to 5 C below the 30-year average, but average temperatures were well above normal for May and June, and again in September (Figure 1).

The high temperature at the Jordan weather station on June 20 was 37.1 C, exceeding the maximum temperature of 33 C in Las Vegas.

Temperatures across all regions were at least three degrees above the 30-year average for the first two months of the



growing season and overnight lows were also above what is usually observed during May and June.

Higher than normal temperatures led to above normal Growing Degree Days (GDD) and Corn Heat Units (CHU). Though there were good seeding conditions early in the season in some regions, dry weather in spring led to uneven germination and variable crop staging in other areas.

By the end of June, GDD and CHU were more than 110 per cent of the 30-year average for all regions.

Variable precipitation

Precipitation during the 2023 season was extremely variable. Most of it came in the form of early and isolated storms, which were sometimes accompanied by hail.

Producers saw differences in rainfall even from one field to the next. A few were dealt the winning hand with just the required amount at just the right time.

Figure 2 illustrates average precipitation by month for each region compared to the 30-year average.

The driest regions were in central and southwest areas. Total accumulated rainfall was 111 mm at the Brandon North Hill station between May 1 and Sept. 30. The highest precipitation was observed early in the season, when crop water demand was lower.

Compared to the 30-year average, the central region was below 50 per cent of the long-term average for the entire growing season. Paired with warmer than normal temperatures, crops experienced heat stress and there were concerns about drought.

The central region was the most consistently dry. Growing season rainfall was a fraction of the 30-year average. Areas around Cartwright (34 per cent), Portage (36 per cent), Morden (36 per cent), Elm Creek (38 per cent) and Treherne (38 per cent) were all below 40 per cent of the normal expected rainfall from May 1 to Sept. 30.

Rainfall this summer came mostly in isolated storms, which are difficult to predict in terms of timing, location, intensity and amount.

Figure 3 shows the cumulative rainfall comparison at Treherne for the past five years. All stations in the central region were below 60 per cent of the 30-year average for the season.

Other regions fared better. By the end of September, several areas of the Interlake, southwest and eastern areas were above 75 per cent of normal precipitation. Fisherton was the only location that reported above normal seasonal precipitation (101 per cent of the 30-year average).

By Oct. 1, Fisherton was one of few sites showing above normal precipitation but it received a significant portion (153 mm) over only three days in June.

When compared to normal precipitation accumulations, a comparison of deviation from normal precipitation can be useful, but for a year like 2023, it doesn't provide a true indication of conditions at a given location.

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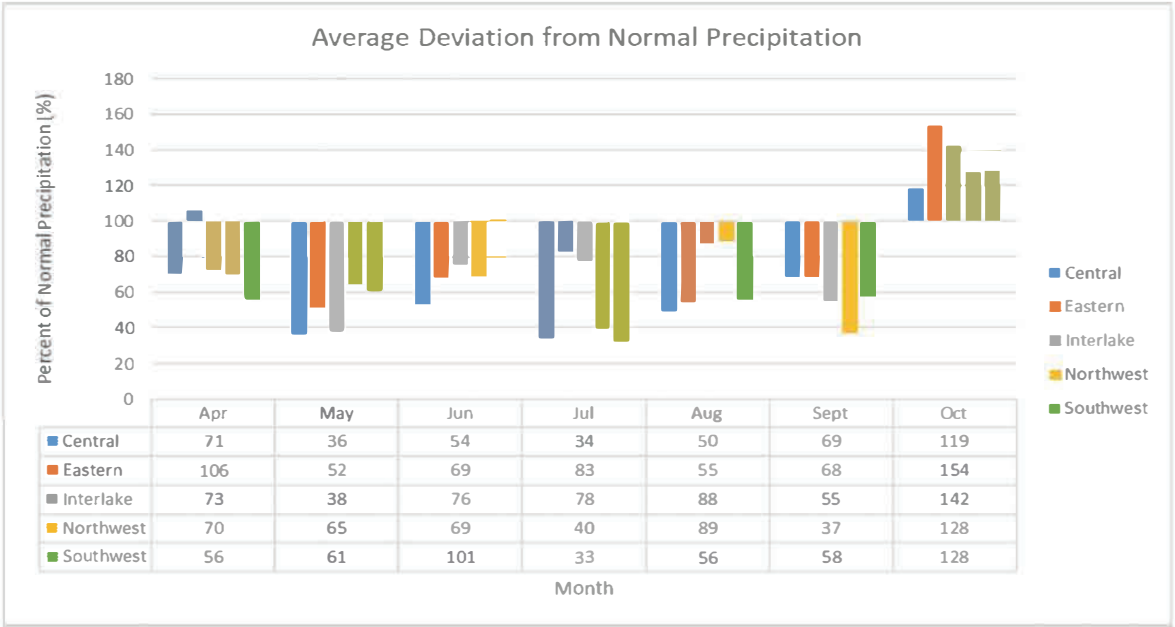


Figure 2: The average precipitation deviation from the 30-year average from Environment and Climate Change Canada (ECCC) from the years 1971-2000. Data is from the ECCC and Manitoba Agriculture weather stations in the agriculture regions of Manitoba. Values greater than 100 indicate precipitation above the 30-year averages. Values less than 100 indicate conditions below the 30-year average.

Continued from previous page

Because accumulations are observed over the entire growing season, these maps do not indicate when the precipitation occurred or its intensity. Why is this important? Crop water demand increases as crops grow.

However, intensity is important too. During heavy rainfall events that often accompany thunderstorms, rain can fall more quickly than it can infiltrate the soil, resulting in runoff. So, even regions that received adequate total rainfall may not have received the right amount at the right time.

Like a game of poker, a decent hand can win if it comes at the right time.

In addition to intense rainfall, several storms brought hail and led to hail damage in some regions. Strong winds in May also hindered spraying operations in some areas.

The province finally received widespread, soaking rainfall in late September and early October. All regions saw above-normal precipitation for October. Areas of the east, Interlake and southwest saw seasonal precipitation accumulations near 70 to 90 per cent of the 30-year average.

While seasonal accumulations (May 1 to Oct. 31) were still below average, moisture levels in most of the central region were above 50 per cent for the first time in the season.

Fall soil moisture

There was a mild, localized frost in mid-September, but the first widespread, substantial frost occurred Oct. 6.

Early fall precipitation provided some soil moisture going into the winter. Warm conditions also favoured a later-than-usual freezing until mid to late November.

At the 0-30 cm depths, most of agro-Manitoba had soil moisture between 80 and 100 per cent of available water holding capacity. Similar regional estimates were observed at the 0-120 cm depths, with most agricultural regions showing 60 to 100 per cent of available water holding capacity near freeze-up.

Soil moisture is not the only determinant of the spring conditions, but it indicates the potential. The amount and type of winter precipitation and the speed and timing of snow melt will play major roles in conditions this spring.

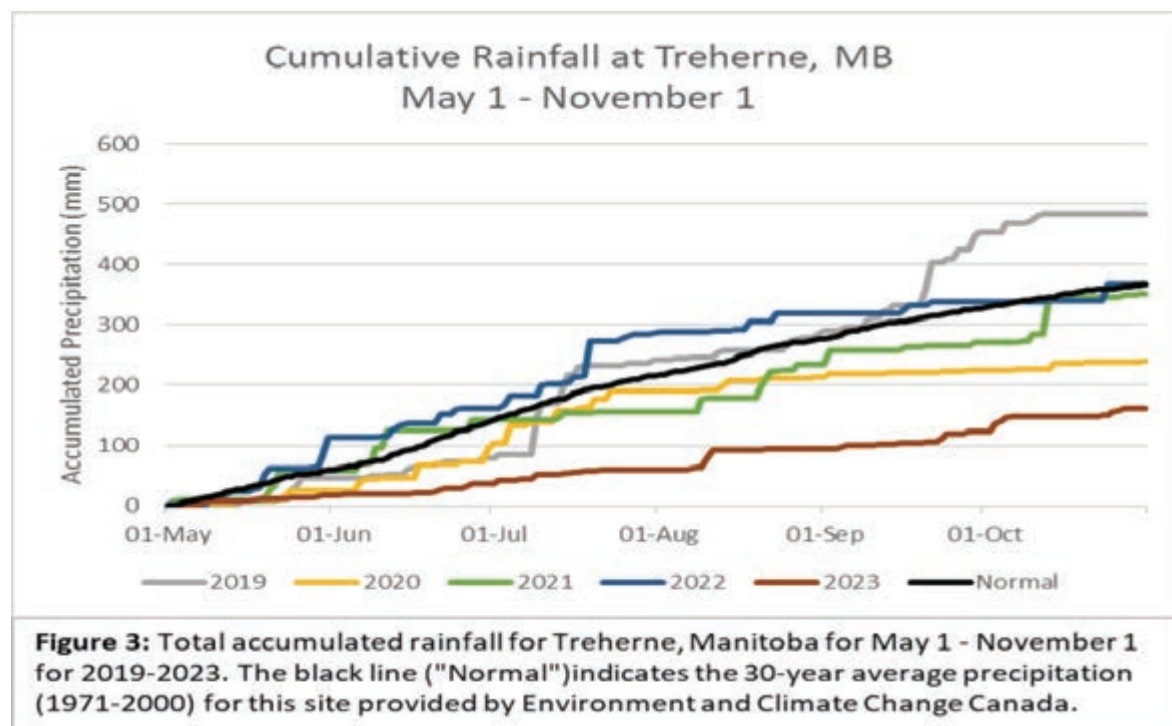
This year of variability highlights the importance of weather data across agricultural regions for Manitoba. A dense meteorological network allows for the capture of isolated but powerful weather events that can play an important role in growing season outcomes.

The Manitoba Agriculture Weather Program operates 120 professional-grade weather stations across agro-Manitoba, providing weather data every 15 minutes and the network continues to grow. Vigorous standards used for installation, maintenance and calibration of each station provide reliable and comprehensive measurements throughout the year.

The longevity of the network also provides useful historical data for forecasts and agricultural modelling.

While the weather network can't improve the odds in terms of winning the growing conditions lottery, it can assist by informing producers.

Current conditions from the weather stations can be found at Province of Manitoba agriculture - Current Weather Viewer (gov.mb.ca). Each station provides information on temperature, relative humidity, wind speed, wind direction, precipitation, solar radiation, barometric pressure, soil temperature and soil moisture.



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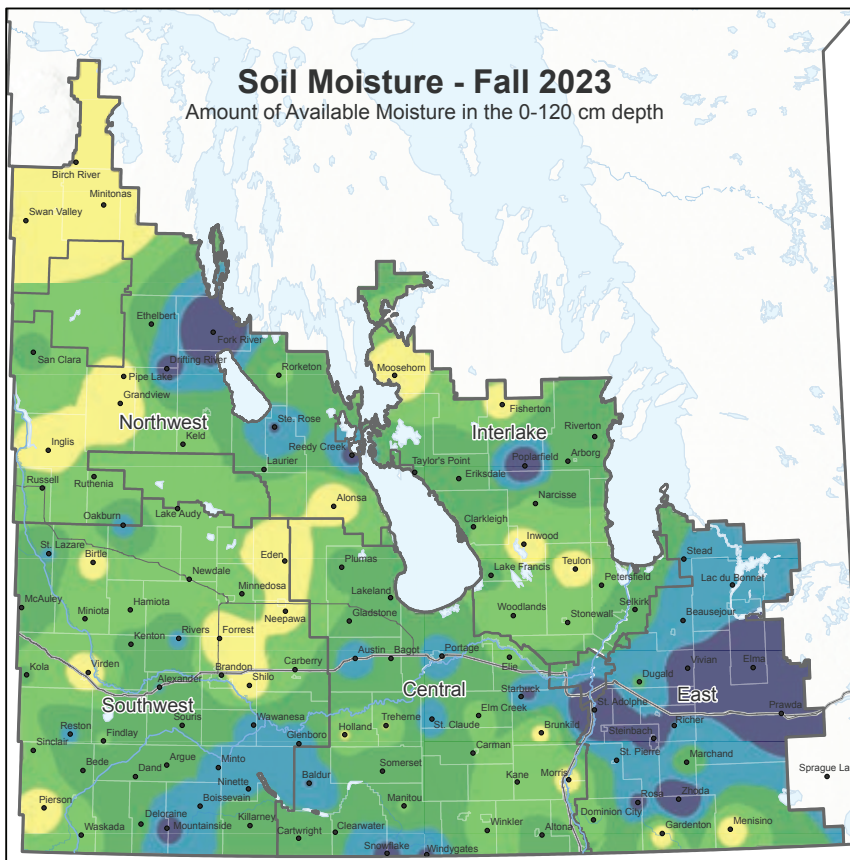
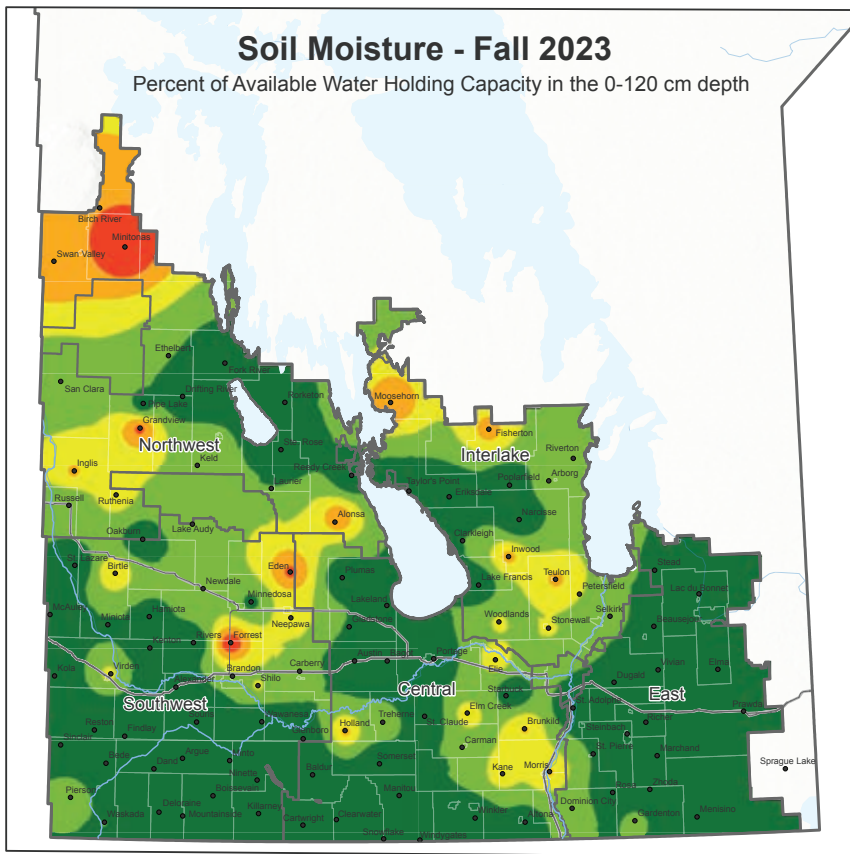
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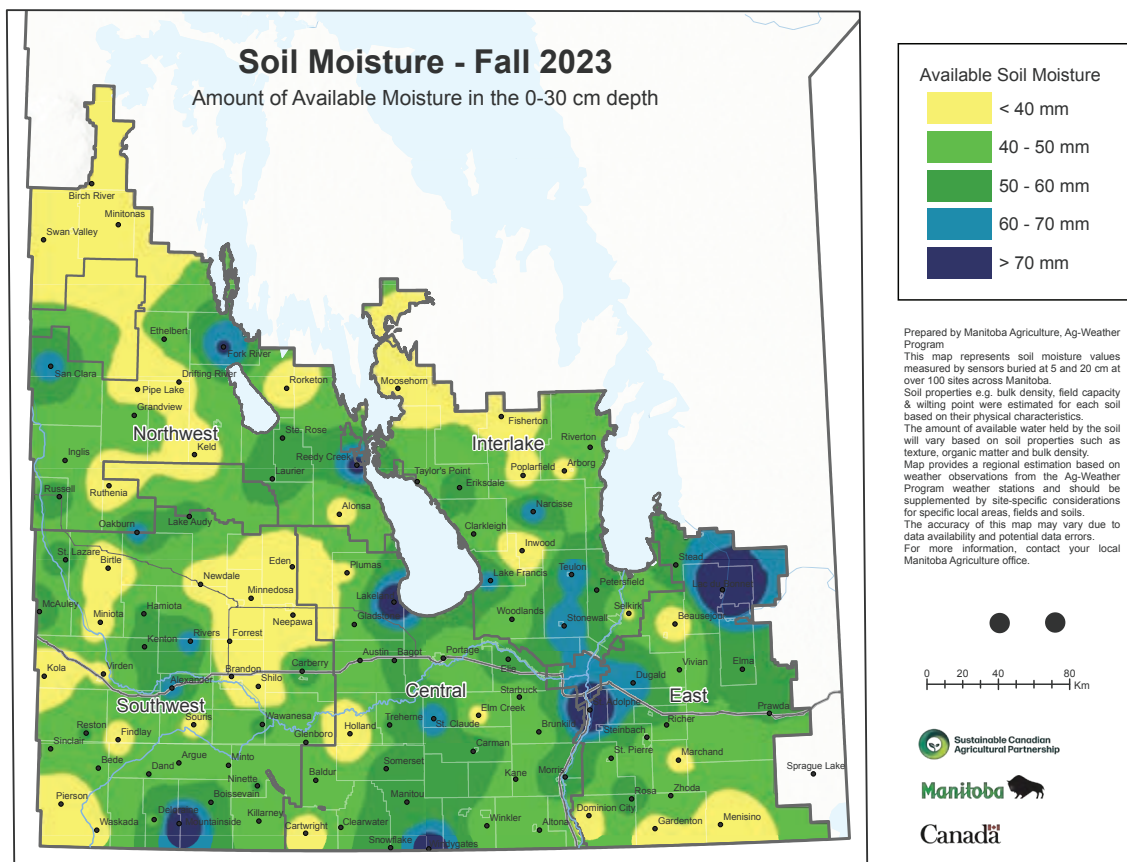
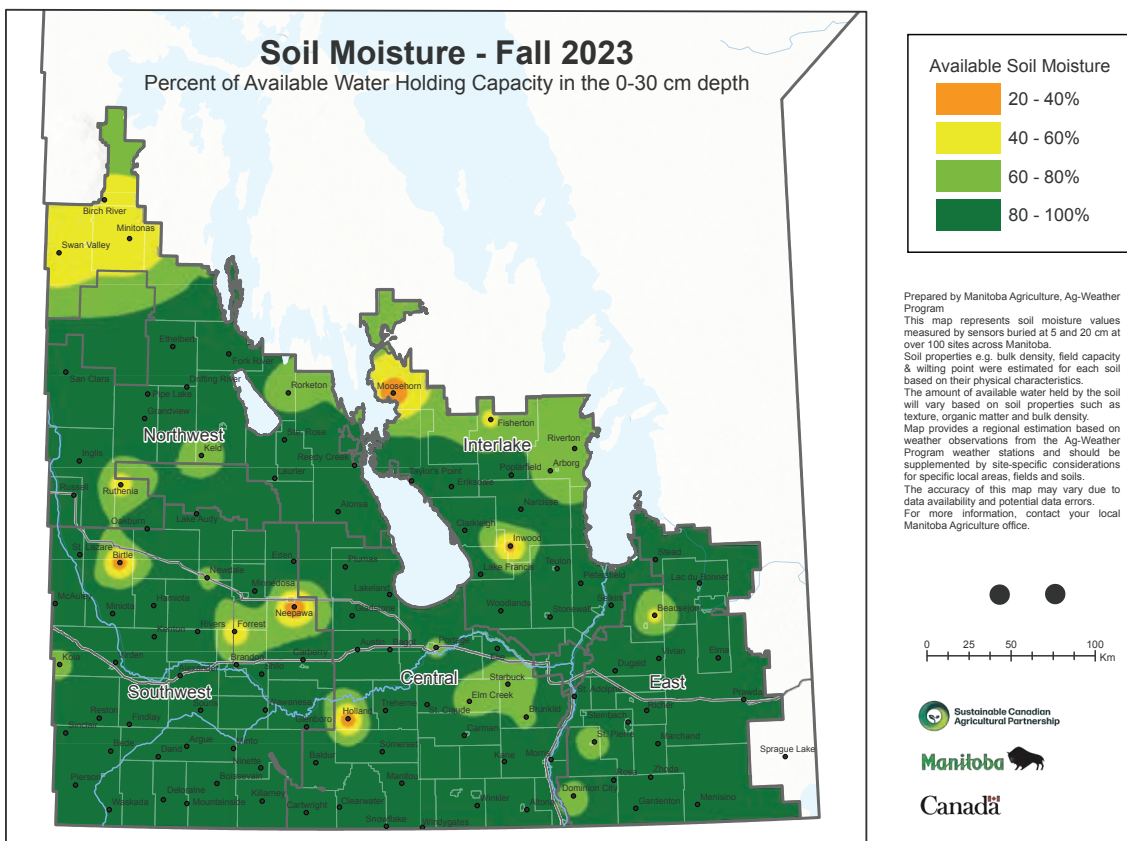


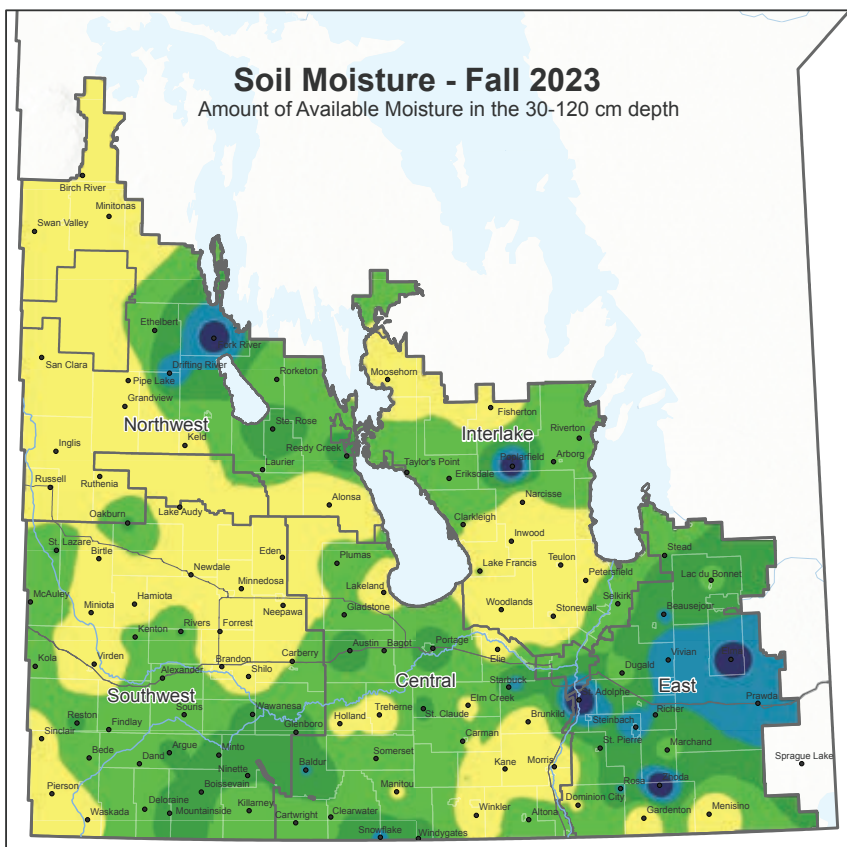
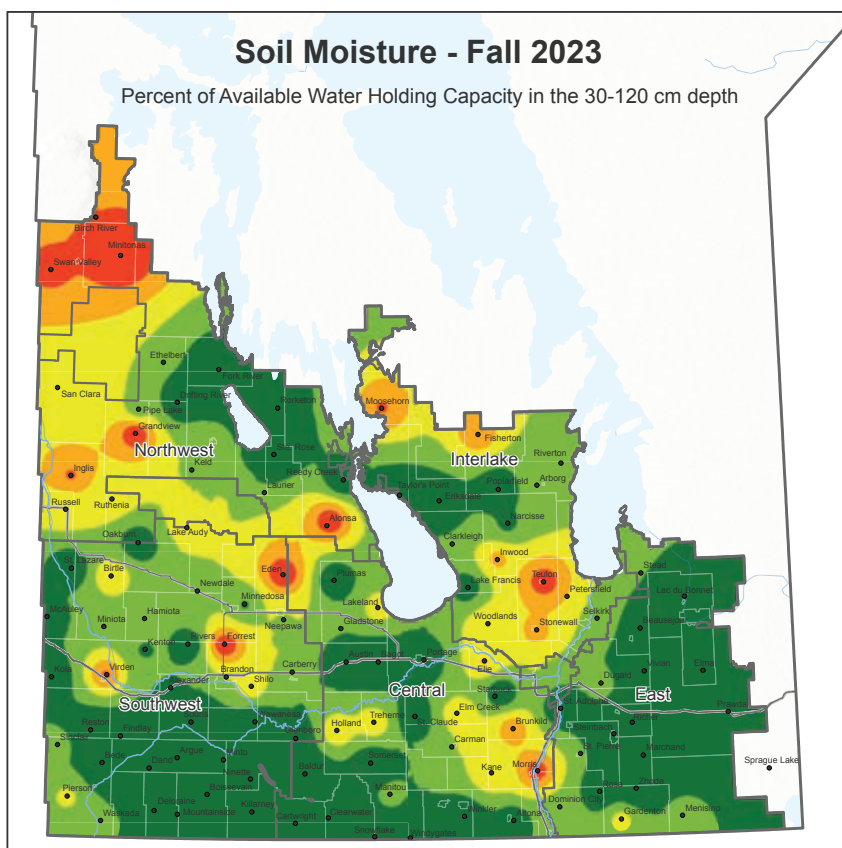
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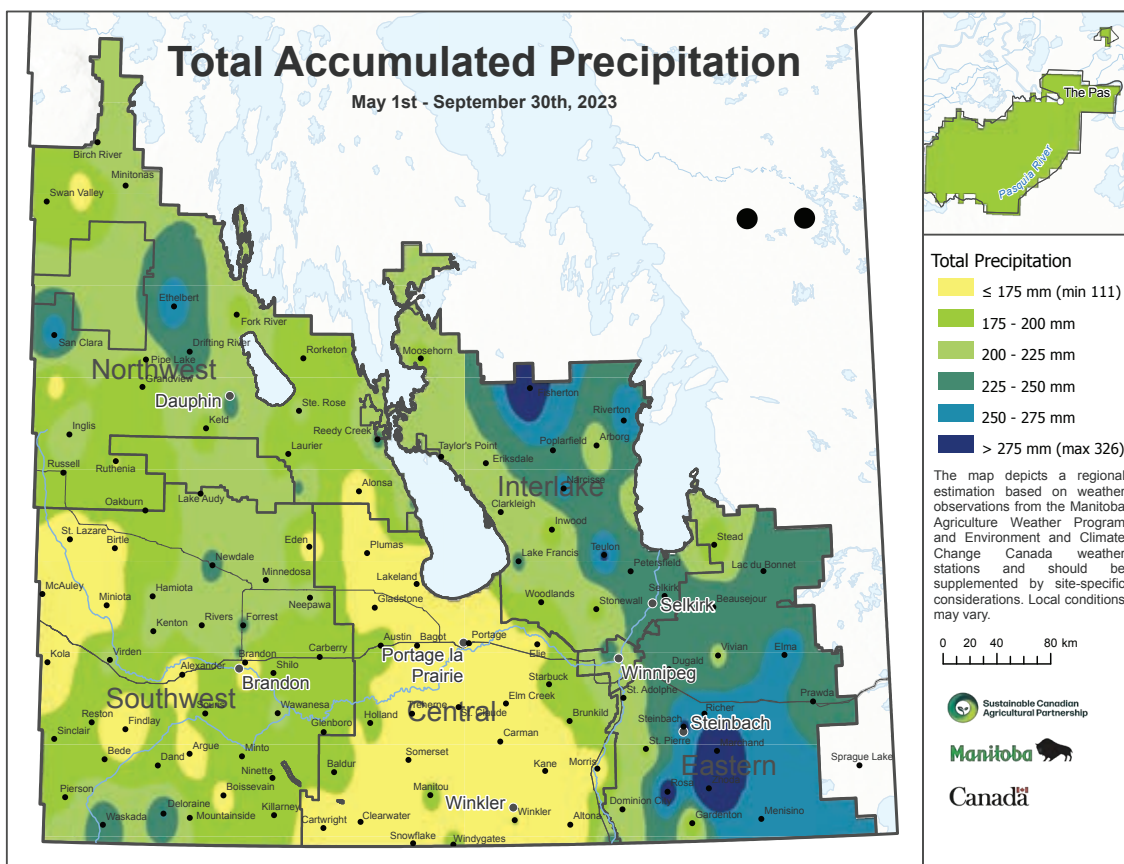
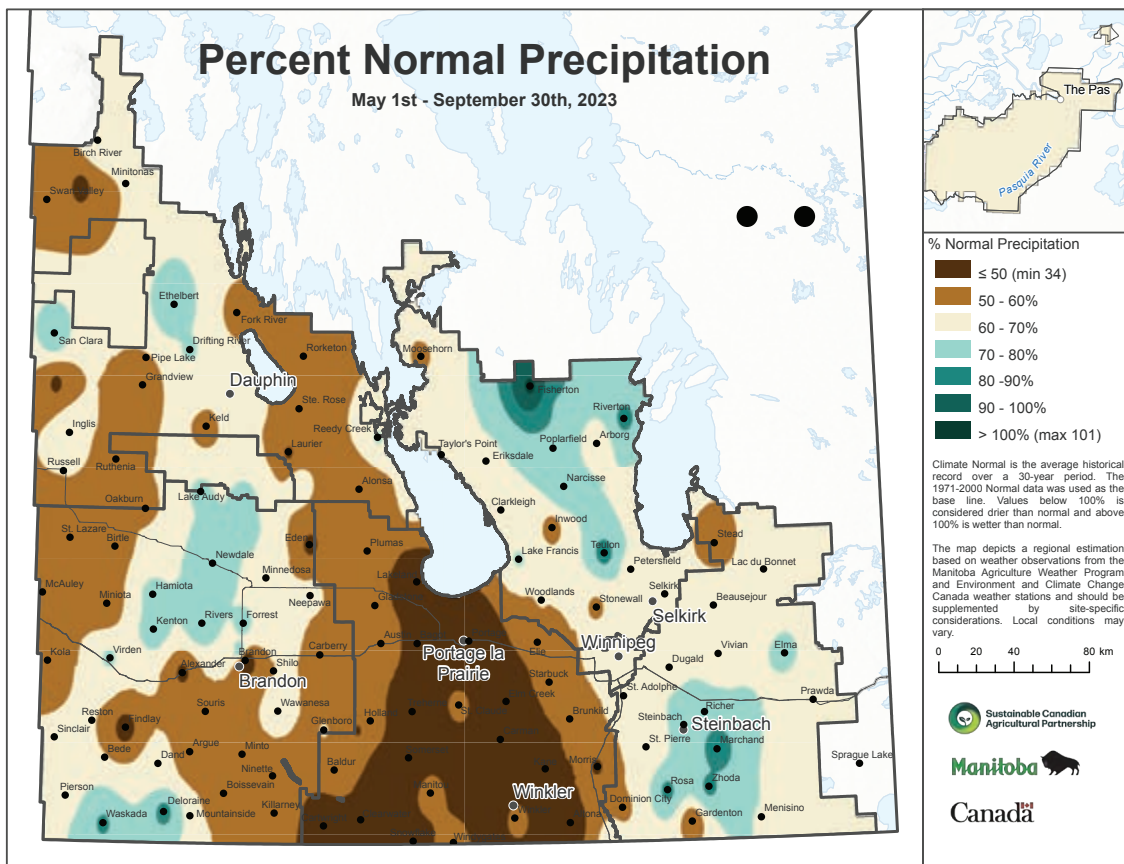
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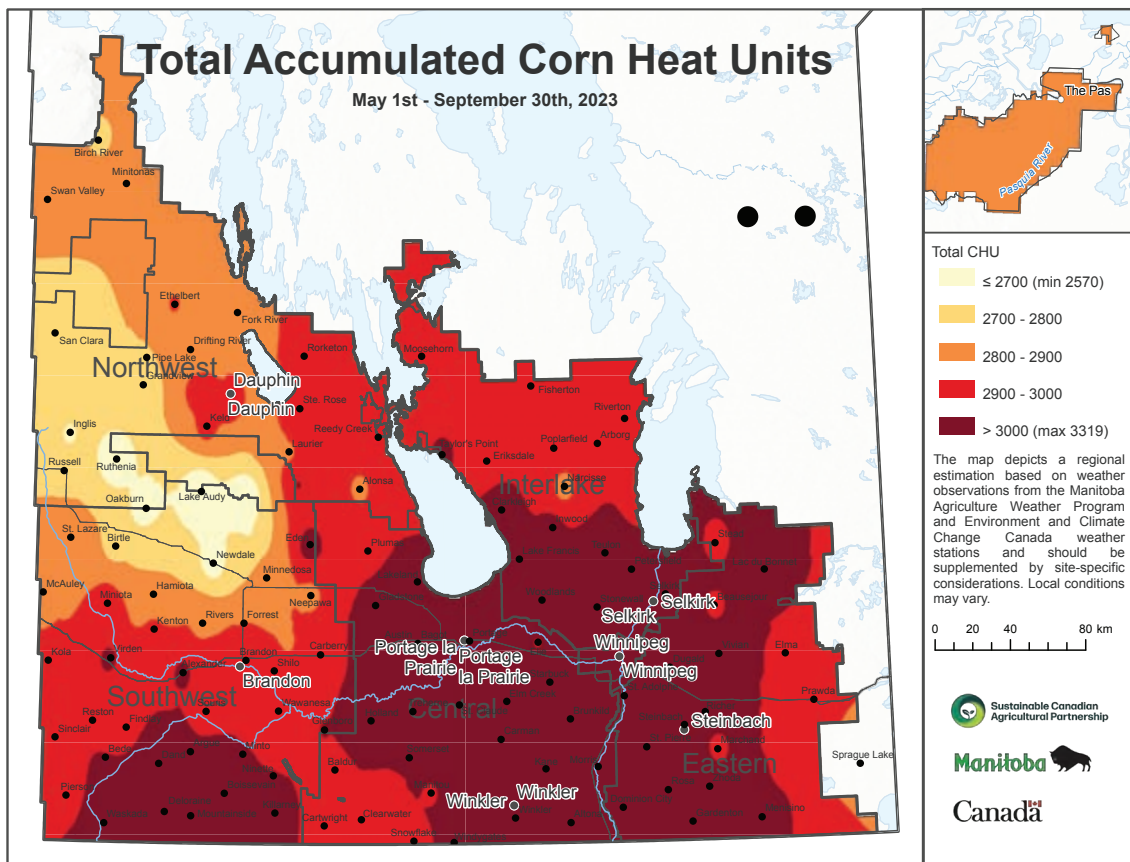
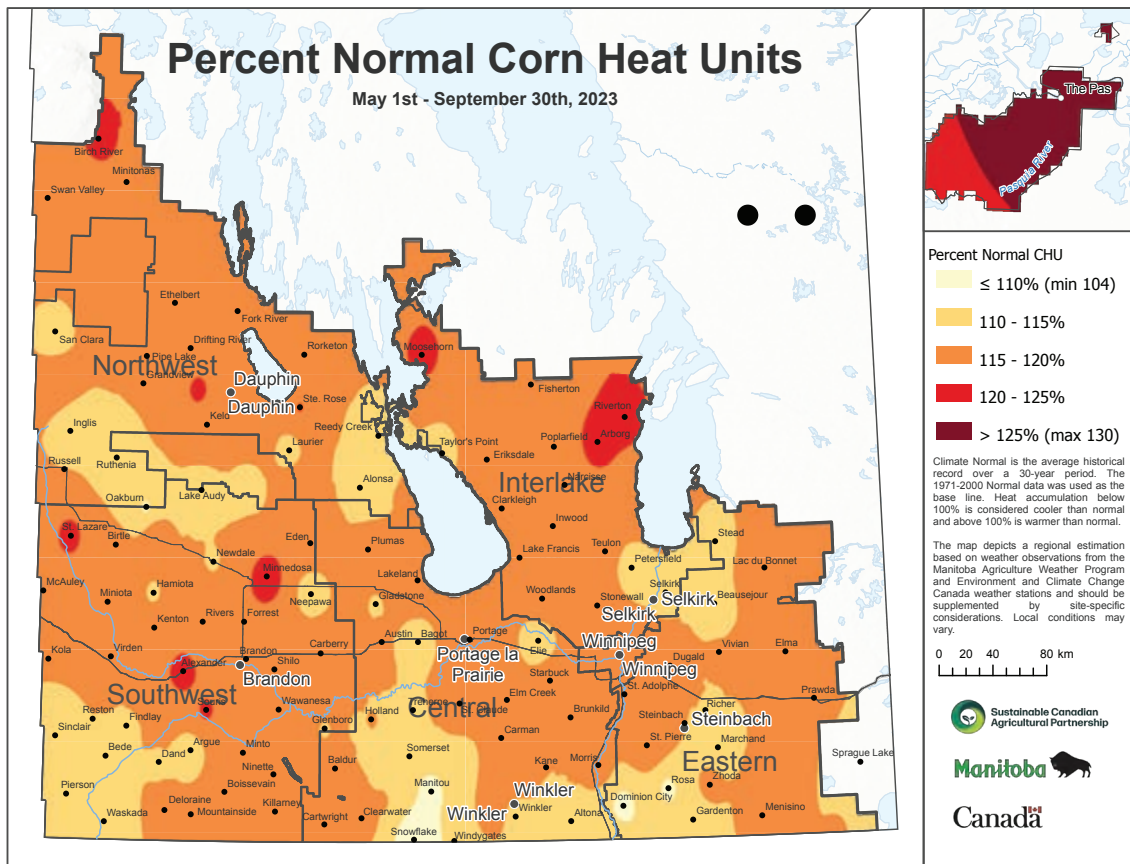
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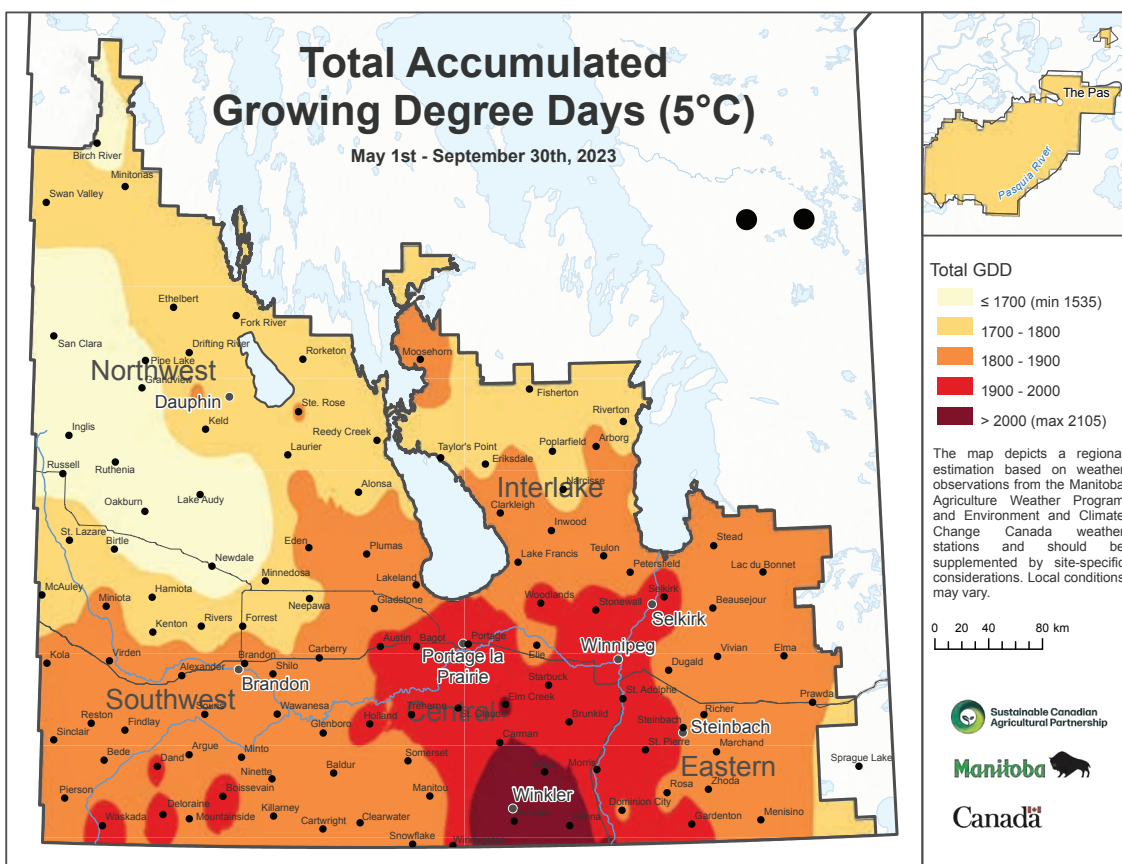
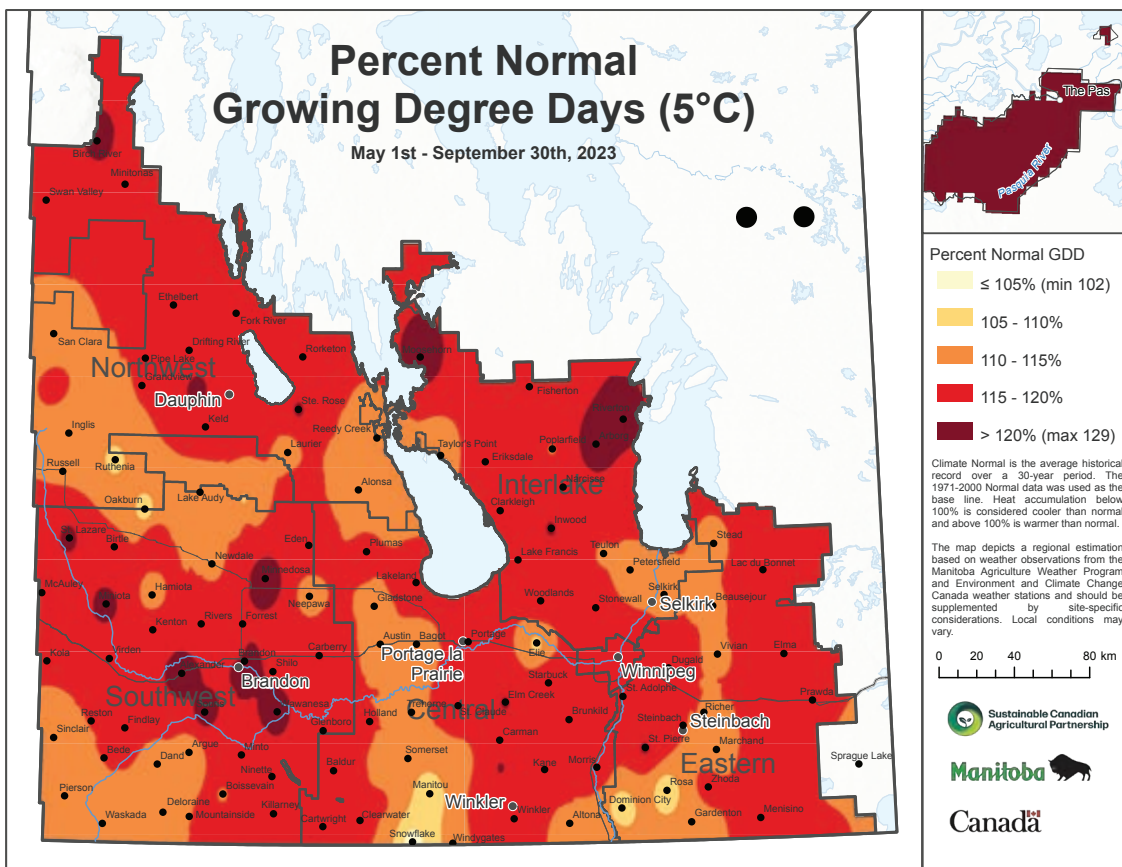












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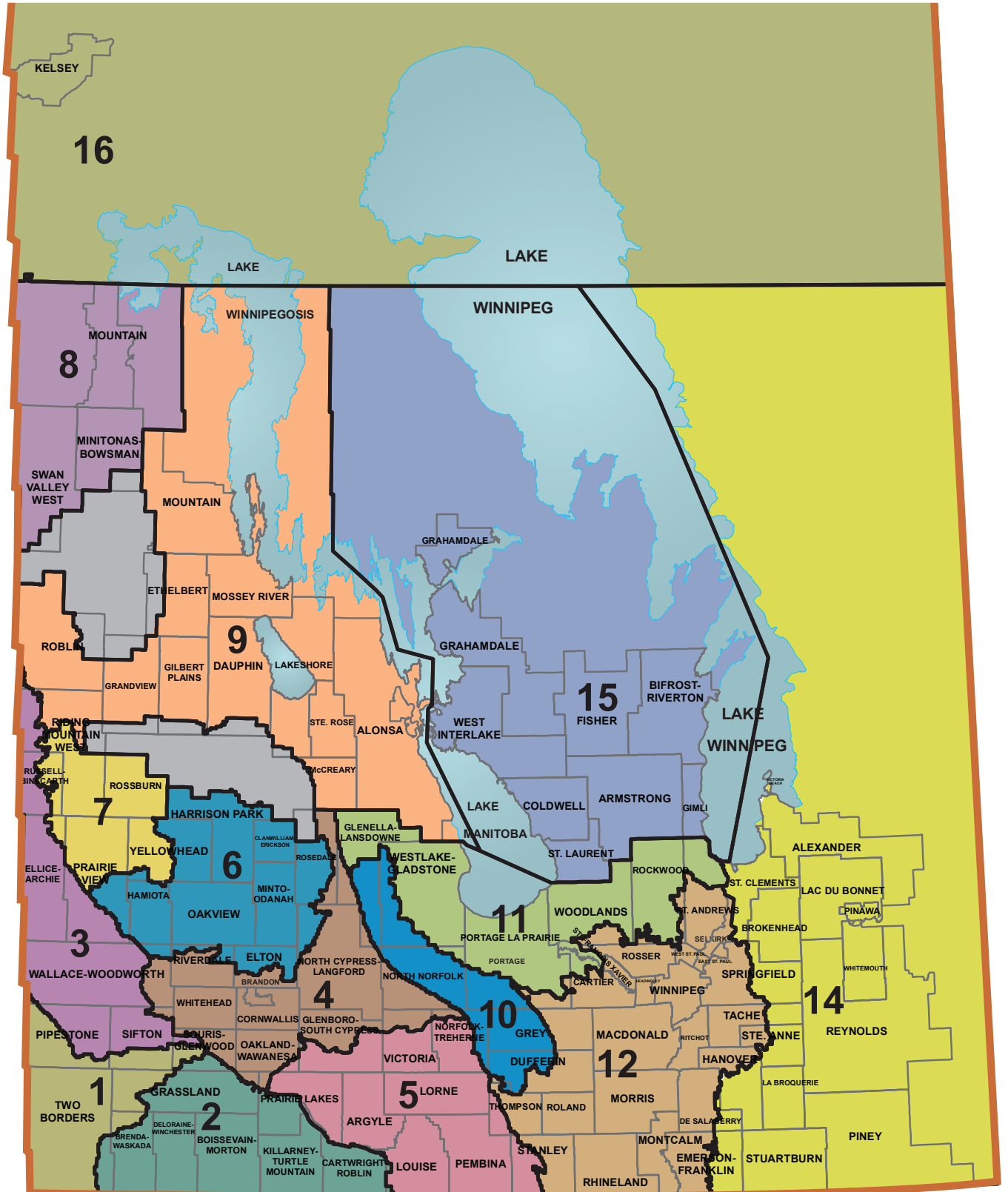
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RISK AREAS



MANITOBA

WHEAT YIELDS BY VARIETY 2019-2023†								MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres		
AAC BRANDON (RS)	61	65	50	60	1,127,170	62	1,042,717		
AAC STARBUCK (RS)	66	72	51	64	513,990	65	608,116		
AAC WHEATLAND (RS)	—	69	57	66	223,451	67	319,829		
AAC VIEWFIELD EXP (RS)	64	65	55	70	193,552	64	186,694		
AAC HOCKLEY (RS)	—	—	41	72	8,163	63	149,949		
FALLER (NHR)	68	76	51	71	91,741	70	116,294		
AAC REDBERRY (RS)	60	61	49	55	99,282	58	81,554		
AAC HODGE (RS)	—	—	—	70	5,223	65	72,754		
AAC ELIE (RS)	60	62	47	56	59,870	57	54,102		
BOLLES (RS)	63	66	50	58	58,845	63	50,343		
AAC LEROY VB (RS)	—	66	49	59	41,709	56	45,389		
CS ACCELERATE (PS)	—	66	52	64	23,327	62	34,398		
PROSPER (NHR)	62	77	53	72	21,102	71	29,444		
SY MANNESS (RS)	—	—	—	79	577	65	26,820		
AAC WILDFIRE (W)	—	70	58	54	12,889	59	25,742		
CARDALE (RS)	57	61	48	57	27,412	59	24,467		
CDC LANDMARK (RS)	65	59	55	67	18,871	60	14,808		
CS DAYBREAK (RS)	—	70	54	63	13,147	56	13,871		
EMERSON (W)	58	63	51	50	12,384	52	11,960		
SY TORACH (RS)	67	64	42	57	10,957	52	10,610		
AAC PENHOLD (PS)	66	71	55	67	8,066	70	10,432		
SY CAST (RS)	—	—	46	53	10,419	54	9,502		
AAC TISDALE (RS)	54	57	46	61	11,757	52	9,003		
GLENN (RS)	53	60	46	59	6,529	57	7,434		
SY ROWYN (PS)	63	77	47	71	12,242	71	7,076		
AC BARRIE (RS)	41	53	34	43	1,886	45	6,946		
AAC BROADACRES (RS)	—	—	—	50	575	61	6,751		
SY GABBRO (RS)	—	67	46	66	13,962	53	6,602		
AAC GOLDRUSH (W)	—	68	56	54	3,711	53	6,532		
CARBERRY (RS)	45	53	44	46	6,958	51	5,633		
SHELLY (NHR)	—	—	—	68	2,400	46	4,465		
CDC HUGHES (RS)	65	55	37	42	1,881	48	4,008		
CDC VR MORRIS (RS)	58	68	52	67	3,100	59	3,497		
AAC GATEWAY (W)	58	65	55	69	5,977	62	3,355		
AAC ELEVATE (W)	60	65	51	27	3,062	41	2,959		
AAC VORTEX (W)	—	—	—	—	—	64	2,875		
CDC PLENTIFUL (RS)	54	60	43	57	5,129	54	2,646		
CDC STANLEY (RS)	49	57	32	51	4,518	38	2,449		
CDN BISON (OS)	—	—	—	—	—	64	2,377		
5604HR CL (RS)	59	47	44	45	1,493	52	2,032		
AAC MAGNET (RS)	—	—	50	49	1,238	51	1,864		
AAC REDSTAR (RS)	—	—	—	56	1,900	63	1,836		
CDC TEAL (RS)	—	—	—	—	—	51	1,681		
CDC BUTEO (W)	41	55	49	46	1,295	48	1,677		
AAC CAMERON VB (RS)	56	62	49	47	3,156	51	1,531		
HARVEST (RS)	—	59	51	—	—	61	1,512		
CDC SKRUSH (RS)	—	—	42	24	748	61	1,469		
CDC ORTONA (RS)	—	—	46	50	1,064	59	1,071		
SHELLY (RS)	—	—	45	74	1,772	43	905		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						63.0	3,055,683		

CANOLA YIELDS BY VARIETY 2019-2023†								MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres		
L340PC (LT)	—	—	33	44	761,976	49	880,939		
L233P (LT)	45	44	32	41	742,242	48	404,655		
L356PC (LT)	—	—	—	45	143,037	51	352,856		
L350PC (LT)	—	—	—	—	—	50	150,247		
DKLL 83 SC (LT)	—	—	—	39	25,907	47	120,108		
INVIGOR L345PC (LT)	—	47	31	43	183,741	49	98,958		
L357P (LT)	—	—	32	41	168,645	49	93,504		
L258HPC (LT)	44	44	31	40	65,554	50	82,508		
P505MSL (LT)	—	—	32	37	60,107	48	65,970		
L255PC (LT)	47	45	34	42	154,640	51	48,860		
L343PC (LT)	—	—	—	45	49,915	50	41,941		
1028 RR (RT)	41	41	30	37	59,632	43	39,145		
DK900TF (RT)(LT)	—	—	—	—	—	47	36,590		
P508MCL (ST)	—	38	27	39	40,205	45	33,991		
45CM39 (RT)	43	40	30	37	21,056	45	32,242		
DKLL 82 SC (LT)	—	42	29	37	143,856	45	31,006		
DKTF 99 SC (RT)	—	—	28	39	27,953	45	26,710		
CS4000 LL (LT)	—	—	30	38	20,957	45	24,528		
B1030N (RT)	—	—	27	40	11,884	41	20,559		
L234PC (LT)	50	45	33	42	35,741	50	20,515		

CANOLA YIELDS BY VARIETY 2019-2023†								MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres		
DKTF 96 SC (RT)	—	39	27	36	46,598	42	20,100		
L359HPC (LT)	—	—	—	—	—	47	19,123		
LR354PC (RT)(LT)	—	—	—	—	—	44	18,955		
DKLL 84 CRSC (LT)	—	—	—	40	5,193	46	18,885		
B3012 (LT)	—	—	—	40	3,454	45	18,773		
B3017N (LT)	—	—	—	—	—	44	17,145		
BY 6217TF (RT)(LT)	—	—	—	—	—	41	16,813		
DKTFLL 22 CRSC (RT)(LT)	—	—	—	39	3,505	38	15,937		
PV 280 CLC (ST)	—	—	—	29	1,508	42	15,642		
PV 761 TM (RT)	—	40	24	38	3,732	38	10,974		
BY 6211 TF (RT)	—	—	—	36	2,718	42	10,489		
P506ML (LT)	—	—	33	36	16,826	48	10,381		
B2030MN (ST)	—	—	23	33	11,266	41	10,257		
P612L (LT)	—	—	—	—	—	45	10,202		
CS3100 TF (RT)(LT)	—	—	—	—	—	42	8,255		
DKTFLL 21 SC (RT)(LT)	—	38	25	34	27,515	47	8,103		
DK901TF (RT)(LT)	—	—	—	—	—	47	8,024		
P514CL (ST)	—	—	—	—	—	46	7,597		
BY 5125 CL (ST)	—	—	31	38	9,299	43	6,630		
PV 660 LCM (LT)	—	40	29	36	10,376	42	6,254		
B3010M (LT)	44	42	31	37	9,898	41	6,094		
PV 781 TCM (RT)	—	—	—	—	—	44	5,884		
DK902TF (RT)(LT)	—	—	—	—	—	49	5,531		
PV 661 LCM (LT)	—	—	—	—	—	41	5,275		
P501L (LT)	45	42	31	40	9,257	50	5,131		
CP21T3P (RT)	—	—	25	37	5,097	39	4,935		
DKTF 97 CRSC (RT)	—	—	29	36	17,358	41	4,862		
PV 760 TM (RT)	—	37	23	35	3,569	32	4,740		
P516L (LT)	—	—	—	—	—	49	3,986		
CP21L3C (LT)	—	—	—	42	970	43	3,615		
45H42 (RT)	—	—	32	41	4,746	42	3,466		
P515G (RT)	—	—	—	—	—	42	3,149		
CS3000 TF (RT)	—	—	—	36	4,671	42	3,074		
P511G (RT)	—	—	—	—	—	30	3,001		
V25-5T (RT)	—	—	19	37	2,467	42	2,994		
BY 6204 TF (RT)	—	34	34	40	11,218	49	2,925		
PV 680 LC (LT)	38	41	29	38	6,074	40	2,854		
CS2300 (RT)	36	36	31	31	5,844	35	2,603		
PV 780 TC (RT)	—	34	28	30	1,972	34	2,481		
L230 (LT)	42	39	32	25	1,090	48	2,423		
44H44 (RT)	—	—	30	35	6,765	35	2,391		
V25-3T (RT)	—	—	—	39	2,667	39	2,326		
NC355TF (RT)	—	—	25	—	—	47	2,160		
BY 6207 TF (RT)	—	—	27	37	3,035	43	2,147		
DKTF 95 HL (RT)	—	—	25	38	1,655	45	1,869		
P509L (LT)	—	—	—	39	3,450	37	1,847		
INVIGOR L352C (LT)	—	45	33	—	—	44	1,710		
B4015 (RT)	—	—	—	—	—	40	1,622		
DKTF 98 CR (RT)	—	35	27	41	2,283	49	1,532		
PV 200 CL (ST)	40	38	30	35	7,814	47	1,416		
6074 RR (RT)	40	34	28	70	2,162	34	1,372		
PV 540 G (RT)	34	32	27	34	842	44	1,357		
CS2700 CL (ST)	—	—	—	—	—	38	1,351		
L140P (LT)	44	32	38	—	—	41	1,305		
BY 7102LL (LT)	—	—	—	—	—	48	1,300		
2028 CL (ST)	35	39	23	34	7,348	38	1,233		
INVIGOR LR344PC (LT)(RT)	—	43	31	41	12,265	44	1,110		
45CS40 (RT)	43	36	28	35	1,224	47	1,104		
45M35 (RT)	44	40	29	34	3,191	34	1,060		
DKL 34-55 (RT)	—	—	—	44	595	42	801		
L130 (LT)	40	—	32	46	1,033	54	790		
DKTF 93 SC (RT)	—	—	—	34	5,029	35	755		
CS2100 (RT)	29	35	18	41	1,187	34	735		
L252 (LT)	42	41	28	39	23,383	50	726		
3345 (RT)	—	44	32	—	—	51	725		
45A51 (RT)	50	49	23	31	775	50	722		
P510G (RT)	—	—	—	—	—	46	712		
PV 681 LC (LT)	—	—	—	—	—	43	659		
L241C (LT)	45	44	—	38	891	43	568		
PV 881 OCM (RT)	—	—	—	—	—	45	531		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						47.9	3,013,219		

SOYBEAN YIELDS BY VARIETY 2019-2023†								MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres		
P006A37X (RR2X)	27	40	26	48	48,732	40	110,661		
S007-Y4 (RT)	32	40	28	46	102,792	41	106,098		

SOYBEAN YIELDS BY VARIETY 2019-2023†							MANITOBA	
Variety‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S003-R5X (RR2X)	—	—	—	46	9,457	35	91,185	
S007-A2XS (RR2X)	—	41	25	51	33,588	42	90,166	
DKB006-80 (RR2X)	—	—	—	57	3,592	40	83,504	
S001-D8X (RR2X)	—	33	32	42	52,392	38	80,246	
NSC HOLLAND RR2X (RR2X)	—	—	30	49	15,274	36	53,949	
DKB002-32 (RR2X)	—	39	30	41	19,234	34	43,321	
P001A48X (RR2X)	39	38	31	43	30,921	34	37,748	
NSC WINKLER RR2X (RR2X)	26	40	29	54	18,869	38	31,874	
S0009-M2 (RT)	29	38	32	38	29,784	39	30,778	
TH 87003 R2X (RR2X)	30	37	27	43	23,758	36	29,992	
B0041RX (RR2X)	—	—	21	46	6,701	36	28,292	
P003A97X (RR2X)	28	39	28	42	14,867	35	26,808	
SI 007XTN (RR2X)	—	—	31	50	15,796	40	26,405	
DKB005-52 (RT)	28	42	25	49	32,355	40	22,086	
P00A49X (RR2X)	27	42	34	55	10,002	42	21,552	
DKB008-48 (RR2X)	—	—	26	54	13,560	40	20,326	
SI 001XTN (RR2X)	—	—	24	40	19,733	35	20,159	
DKB006-29 (RR2X)	28	40	23	—	—	40	17,679	
TH 81007 R2XN (RR2X)	—	—	28	56	4,048	43	16,735	
NSC WARREN RR (RT)	26	29	26	33	9,182	28	15,695	
LS 0036RR (RT)	26	38	31	40	3,846	30	15,679	
SI 00321XT (RR2X)	—	—	—	45	1,168	40	15,415	
NSC ARDEN RR2X (RR2X)	—	—	—	36	1,318	38	15,297	
YOUNG R2X (RR2X)	—	—	—	39	3,902	37	15,263	
S003-Z4X (RR2X)	—	39	28	42	21,291	31	14,975	
NSC SPERLING RR2Y (RT)	26	39	21	51	21,544	37	14,898	
TH82005 R2X (RR2X)	—	—	—	53	1,982	42	14,832	
PV 22S002 R2X (RR2X)	—	—	28	43	5,185	33	14,608	
BOURKE R2X (RR2X)	28	40	22	46	12,898	37	14,085	
AKRAS R2 (RT)	27	38	30	45	12,392	39	13,511	
DKB0008-87 RR2X (RR2X)	—	—	—	48	3,047	35	12,831	
P005A83X (RR2X)	29	38	26	42	10,660	37	12,758	
MERINO R2X (RR2X)	—	—	—	48	870	39	12,540	
SUNNA R2X (RR2X)	29	39	21	45	5,873	37	12,102	
B0012RX (RR2X)	—	—	—	45	7,037	35	11,339	
PS 0027 RR (RT)	22	34	25	42	9,769	29	11,027	
LISKA	—	—	29	40	4,589	32	10,882	
P005A59E	—	—	—	52	1,274	37	10,765	
KUDO R2X (RR2X)	—	37	26	36	3,881	36	10,519	
NSC DAUPHIN RR2X (RR2X)	—	—	—	42	6,358	34	10,412	
MAO R2X (RR2X)	—	—	34	49	4,541	42	9,665	
TH 88007 R2X (RR2X)	28	41	28	51	6,590	38	9,622	
PV 16S004 R2X (RR2X)	28	37	29	46	5,680	33	8,090	
P005A27X (RR2X)	31	40	27	44	9,253	33	8,074	
CP005WPRX (RR2X)	—	—	29	47	4,750	39	7,997	
DKB008-81 (RT)	—	—	29	56	3,708	45	7,892	
SI 00421XT (RR2X)	—	—	—	—	—	40	7,821	
MAKO R2X (RR2X)	—	—	—	45	946	38	6,459	
AMIRANI R2	—	34	29	40	6,146	37	5,983	
S005-C9X (RR2X)	—	39	22	51	7,202	33	5,799	
TH 89004 R2X (RR2X)	—	34	33	38	12,295	34	5,521	
P00A75X (RR2X)	—	40	27	55	2,392	40	5,516	
HART R2X (RR2X)	—	—	27	39	2,564	41	4,431	
OAC PRUDENCE	19	27	11	11	4,679	31	4,226	
S0009-F2X (RR2X)	—	41	27	35	3,688	41	4,156	
PV 25S005 R2X (RR2X)	—	—	—	—	—	32	3,601	
DKB0009-89 (RR2X)	33	35	31	37	5,121	34	3,449	
SI 00221XTN (RR2X)	—	—	—	45	1,514	47	3,288	
BADGER R2X (RR2X)	—	—	—	49	625	36	3,236	
TH83004X (RR2X)	—	—	—	—	—	38	3,168	
SIBERIA	23	35	29	25	1,382	30	2,982	
HANA	—	39	34	—	—	34	2,868	
DKB006-99 (RR2X)	28	43	—	—	—	41	2,829	
CP000621WPX (RR2X)	—	—	—	37	1,621	36	2,752	
MIKADO R2X (RR2X)	—	—	20	47	952	45	2,661	
S0007-S1X (RR2X)	—	—	—	—	—	36	2,610	
MAYA	—	—	—	46	2,643	41	2,475	
BY RAINIER XT (RR2X)	—	—	—	—	—	27	2,448	
BARKER R2X (RR2X)	24	38	24	48	2,393	35	2,420	
TH 82005 R2X (RR2X)	—	—	—	50	719	44	2,402	
P002A42E	—	—	—	—	—	34	2,355	
NSC CARTIER (RR2X)	—	38	23	52	4,601	35	2,310	
ASTRO R2 (RT)	28	37	29	54	2,896	39	2,218	
ELMO E3	—	40	30	43	2,588	41	2,105	
DKB 0008-87 (RR2X)	—	—	28	52	1,066	38	1,983	
PV 26S007 R2X (RR2X)	—	—	—	—	—	36	1,823	
MAHONY R2 (RT)	33	39	30	42	2,482	29	1,810	

SOYBEAN YIELDS BY VARIETY 2019-2023†							MANITOBA	
Variety‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
TH 87000 R2X (RR2X)	29	35	28	39	1,204	33	1,737	
P007A68E	—	—	—	—	—	39	1,708	
XB0006A17X (RR2X)	—	—	—	—	—	36	1,707	
S001-B1 (RT)	—	—	—	—	—	29	1,642	
BRIGGS R2X (RR2X)	—	—	—	—	—	41	1,585	
PV 28S001R2X (RR2X)	—	—	—	—	—	32	1,536	
DKB00-99 (RT)	—	—	37	—	—	32	1,526	
RX ACRON (RR2X)	19	37	30	44	1,214	34	1,439	
BY RUNDLE XT (RR2X)	—	—	—	—	—	32	1,436	
FRESCO R2X (RR2X)	—	—	19	39	1,865	40	1,408	
P006T78R (RT)	33	—	—	64	794	38	1,394	
CP00121WPX (RR2X)	—	—	—	—	—	41	1,360	
DKB001-07	—	—	—	—	—	36	1,302	
CP000521X (RR2X)	—	—	—	37	2,546	37	1,276	
LS 001XT (RR2X)	30	36	26	42	2,725	34	1,248	
DKB007-67 (RR2X)	—	—	—	—	—	39	1,242	
MAJOR R2X (RR2X)	—	—	—	38	877	42	1,220	
PV 12S007 RX2 (RR2X)	26	42	38	—	—	38	1,160	
S006-K3X (RR2X)	—	—	—	53	584	42	1,114	
RICO R2X (RR2X)	—	—	—	—	—	38	1,068	
NSC COULEE RR (RT)	—	42	35	55	938	38	1,060	
PV S004XF13 (RR2X)	—	—	—	—	—	31	997	
MERRITT R2X (RR2X)	—	39	41	56	674	43	977	
P9007	—	—	29	—	—	37	970	
B0040L1 (RT)	25	41	—	—	—	47	965	
TH82008XF (RR2X)	—	—	—	—	—	36	916	
GS1001	—	—	—	—	—	22	900	
NSC GLADSTONE RR2Y (RT)	26	38	22	40	2,804	37	848	
NSC WATSON RR2Y (RT)	26	33	27	43	3,044	32	835	
B00071RX (RR2X)	—	—	—	40	1,231	40	827	
P000A24E	—	—	—	—	—	32	786	
P9008	—	—	28	—	—	37	735	
KEBEK	—	—	18	—	—	36	719	
ROSSER	—	—	—	—	—	47	676	
P9004	—	—	25	—	—	39	648	
REYNOLDS	—	—	20	32	1,140	30	642	
P007A90R (RT)	27	36	—	—	—	29	628	
DKB003-29 (RR2X)	29	37	30	42	6,473	29	622	
TRIQUET R2X (RR2X)	—	—	—	—	—	40	601	
DKB0005-03 (RR2X)	—	—	—	—	—	32	540	
OSLO XF (LT)	—	—	—	—	—	42	533	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							37.6	1,548,904

CORN YIELDS BY VARIETY 2019-2023†							MANITOBA	
Variety‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	117	124	95	143	42,854	128	59,541	
P7455R (RT)	115	133	98	154	24,683	134	47,899	
DKC31-85RIB (RT)(RIB)	—	153	126	183	14,468	150	34,318	
P7211HR	113	123	79	138	19,432	122	27,592	
DKC21-36RIB (RT)(RIB)	—	115	89	148	9,483	122	25,697	
P7844AM (LT)(RT)	—	—	—	163	7,522	140	21,882	
P7527AM (LT)(RT)	127	130	99	155	23,903	143	20,720	
TH6278 VT2P (RT)(RIB)	—	—	—	162	9,120	141	17,058	
TH 6977 VT2P (RT)	128	138	111	164	9,241	139	15,623	
PV 61276 RIB (RT)(RIB)	—	—	—	162	4,550	131	11,132	
P7822AM (LT)(RT)	—	—	—	—	—	147	10,347	
P7389AM (LT)(RT)	—	—	—	—	—	137	10,285	
DKC24-06RIB (RT)	—	106	97	158	12,707	142	10,230	
P7958AM (LT)(RT)(HX1)	131	141	112	150	9,881	138	9,830	
DKC29-89RIB (LT)(RT)(RIB)	125	135	116	166	9,454	144	9,458	
P8588AM (LT)(RT)	—	—	139	181	9,944	147	8,857	
MZ 1544DBR (RT)	—	—	94	149	1,953	141	7,169	
TH6182 VT2P (RT)(RIB)	—	—	90	176	1,805	156	6,834	
DKC33-37RIB (RT)(RIB)	—	—	140	181	6,607	147	6,326	
P7861AM (LT)(RT)(HX1)(YG)	—	125	111	159	8,498	127	6,012	
P7417AM (LT)(RT)(HX1)(YG)	122	124	106	153	12,633	147	5,740	
A4939G2 RIB (RT)(RIB)	132	124	123	157	3,305	122	4,804	
P7417R (RT)	—	104	111	147	4,717	134	4,706	
A3979 G2 RIB (VT2P)(RIB)	—	—	—	—	—	133	4,527	
PV 61180 RIB (LT)(RT)	126	120	136	152	1,801	140	4,109	
TH6072 VT2P (RT)(RIB)	—	—	—	124	2,807	132	3,910	
TH 6875 VT2P (RT)(RIB)	110	114	104	139	3,441	124	3,778	
TH6380 VT2P (RT)(RIB)	—	—	—	—	—	148	3,628	
255 (RT)	—	—	—	—	—	144	2,772	
E49K32 R (RT)(RIB)	—	—	118	161	1,170	159	2,360	
DKC35-29RIB VT2P (VT2P)(RIB)	—	—	—	—	—	163	2,335	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



CORN YIELDS BY VARIETY 2019–2023†						MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P7822R (RT)	—	—	—	—	—	132	2,196
P7861R (RT)	—	120	90	152	4,108	101	2,168
DKC28-25RIB (VT2P)(RIB)	—	—	—	—	—	142	2,166
TH 6982 VT2P (RT)	123	122	133	157	2,554	136	2,161
TH4072 RR (RT)	—	117	95	131	1,490	131	2,123
DKC33-78RIB (RIB)	139	155	123	184	3,543	139	1,842
TH 7677 VT2P RIB (RT)(RIB)	100	128	—	148	620	143	1,740
NS 271 (RT)	—	—	—	158	1,110	141	1,647
P6910AM (LT)(RT)	—	—	—	—	—	128	1,611
P7574AM (LT)(RT)	—	—	—	104	808	124	1,607
PV 60273RIB (VT2P)(RIB)	—	—	—	—	—	127	1,448
TH6370 VT2P (RT)(RIB)	—	—	—	—	—	111	1,251
CP1440 (VT2P)(RIB)	—	—	—	—	—	178	1,178
DKC26-40 (RIB)	107	103	89	162	747	146	1,038
MZ 1688 DBR (LT)(RT)	127	124	108	159	1,568	133	999
P8294AM (LT)(RT)	—	—	—	—	—	133	981
TH6079 VT2P (RT)(RIB)	—	143	122	169	2,101	140	949
DKC32-49RIB (VT2P)(RIB)	—	—	—	—	—	156	861
HZ 1398	—	—	—	—	—	105	795
PV 60172RR (RT)	—	—	93	150	778	94	762
TH 7578 VT2P RIB (RT)(RIB)	124	118	117	—	—	151	758
2288VT2P (LT)(RT)(RIB)	—	152	143	165	596	135	755
A4646G2 RIB (RT)(RIB)	127	—	—	152	706	135	717
CROPLAN 2123 VT2P/RIB (RIB)	122	122	103	128	1,224	134	665
P8537AM (LT)(RT)	—	—	—	173	781	156	650
DKC36-86RIB (RT)(RIB)	—	—	—	—	—	166	650
DKC32-12RIB (RT)(RIB)	112	129	—	—	—	166	608
P7445R (RT)	107	—	115	—	—	128	588
P3979	—	—	—	—	—	126	579
DKC32-92 (RIB)	—	—	—	—	—	150	554
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						135.8	468,067

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

BARLEY* YIELDS BY VARIETY 2019–2023†						MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	82	89	57	78	115,733	85	131,633
AAC SYNERGY	87	90	66	81	37,192	87	40,305
CONLON	77	82	58	79	51,475	82	37,070
AAC CONNECT	86	89	65	79	35,485	89	35,892
ESMA	—	—	59	86	6,274	93	18,364
CDC COPELAND	75	77	59	64	17,486	85	8,236
CANMORE	83	85	46	59	13,749	88	8,150
CELEBRATION	65	68	41	71	7,323	66	7,750
CLAYMORE	92	85	50	77	9,532	86	7,547
CDC FRASER	95	83	66	80	9,251	73	7,154
RICHER	—	—	—	—	—	85	6,677
NEWDAL	80	79	68	74	8,414	84	5,586
AC METCALFE	77	77	56	66	12,991	70	5,354
CDC CHURCHILL	—	—	—	88	1,406	100	3,899
AB CATTLELAC	—	92	49	69	2,428	67	3,431
CDC MAVERICK	66	55	33	50	3,286	51	2,764
TRADITION	72	74	50	63	4,227	79	2,201
SIRISH	—	—	—	94	1,505	87	2,151
CDC COPPER	—	80	55	82	1,095	72	1,743
AB ADVANTAGE	—	—	—	—	—	86	1,191
CHAMPION	81	74	48	100	621	57	1,006
ROBUST	51	63	47	—	—	32	897
OREANA	83	82	40	69	700	111	880
ALTORADO	—	—	89	64	2,534	91	800
CDC BOW	81	60	51	82	2,922	57	711
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						83.8	354,301

OATS YIELDS BY VARIETY 2019–2023†						MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
SUMMIT	105	126	73	126	217,624	99	98,188
CS CAMDEN	103	121	70	119	179,515	106	67,591
CDC ENDURE	—	—	86	133	66,989	103	36,446

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



NEW

ORe

Level48

oat

- MR for Rust
- Low Thins
- Good lodging
- Yield similar to Summit

Seed Depot—204-825-2000

OATS YIELDS BY VARIETY 2019–2023†							MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ARBORG	135	122	67	113	51,529	95	20,584	
AAC DOUGLAS	—	—	70	134	9,064	124	16,624	
DOUGLAS	—	—	—	126	5,322	115	12,920	
ORE3542M	114	132	70	129	42,307	100	11,010	
SOURIS	88	102	52	115	10,472	82	6,714	
CDC HAYMAKER	86	98	35	67	7,718	57	3,360	
CDC SO-I	82	87	46	84	3,004	63	3,273	
ORE3541M	107	128	60	137	11,444	102	2,909	
AC MORGAN	102	96	45	133	2,842	83	2,745	
PINNACLE	85	107	48	122	7,359	111	2,179	
CDC BALER	59	79	31	73	1,229	63	1,555	
LEGGETT	73	88	52	83	2,562	73	1,446	
CDC MORRISON	95	119	66	129	1,040	67	1,310	
TRIPLE CROWN	80	54	33	104	1,211	86	1,111	
FURLONG	79	99	43	92	1,461	81	890	
ORE LEVEL48	—	—	—	—	—	112	512	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						99.9	301,840	

FIELD PEA YIELDS BY VARIETY 2019–2023†							MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CHROME	65	66	37	57	52,566	55	50,020	
AAC CARVER	56	58	35	57	47,450	58	33,858	
CDC LEWOCHKO	—	64	38	52	26,037	54	31,296	
AAC PROFIT	—	—	39	49	10,721	56	8,228	
ABARTH	64	63	38	55	8,959	55	4,807	
AAC DELHI	—	—	—	67	1,787	55	4,569	
CDC INCA	38	66	40	47	5,044	55	4,403	
CDC MEADOW	47	54	36	45	8,075	42	3,591	
4010	37	38	22	35	2,566	31	3,269	
CDC AMARILLO	50	54	33	44	6,803	49	2,746	
AAC ABERDEEN	—	—	—	—	—	65	2,711	
LIVIOLETTA	50	46	22	47	1,538	47	1,323	
AAC LACOMBE	56	56	41	65	2,431	70	1,030	
CROMA	—	—	39	56	1,000	44	944	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						54.5	158,982	

DRY BEAN YIELDS BY VARIETY 2019–2023†							MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
VIBRANT (PINTO)	1,424	2,326	1,349	2,346	35,659	2,136	43,566	
WINDBREAKER (PINTO)	1,164	2,427	1,076	2,595	20,499	2,046	29,328	
T9905 (WHITE PEA)	1,230	1,896	1,078	2,101	14,480	2,004	14,324	
CDC BLACKSTRAP (BLACK)	1,003	1,748	1,446	2,000	4,582	1,658	13,205	
ECLIPSE (BLACK)	1,404	1,909	1,019	2,306	10,640	1,828	10,814	
BL BLACK TAILS (BLACK)	—	2,145	1,980	2,399	4,765	1,596	6,201	
SV6139GR (PINTO)	1,446	1,559	1,400	2,273	2,978	1,797	4,311	
PINK PANTHER (KIDNEY)	1,259	2,271	1,197	2,769	1,776	2,405	2,780	
CRIMSON (CRANBERRY)	1,761	2,502	1,127	2,661	1,371	1,997	2,494	
INDI (WHITE PEA)	1,151	1,812	1,369	2,101	1,724	1,618	1,517	
HIME (OTHER)	582	—	—	—	—	1,792	1,161	
AAC ARGOSY (WHITE PEA)	—	2,425	1,349	1,863	1,001	2,006	828	
ND PALAMINO (PINTO)	—	—	—	2,017	1,091	2,319	809	
COWBOY (PINTO)	—	—	—	—	—	2,185	774	
MYSTIC (PINTO)	—	—	—	—	—	2,134	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1994.4	141,638	

SUNFLOWER YIELDS BY VARIETY 2019–2023†							MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P63ME80 (ET) (O)	1,947	2,846	1,728	1,982	14,729	2,648	13,790	
P63HE60 (ET) (O)	2,202	2,189	1,773	1,861	23,529	2,174	12,475	
P63HE501 (O)	—	—	—	1,995	1,208	2,297	10,447	
6946 DMR (C)	1,900	2,385	1,598	1,653	1,169	2,355	9,923	
N4HM354 (ST) (O)	1,927	2,286	2,019	1,931	6,812	2,396	9,264	
CP455E (O)	—	—	—	—	—	2,784	4,574	
CP432E (O)	—	—	—	1,418	3,573	2,434	3,769	
6946 (C)	—	2,743	1,695	1,722	2,334	2,072	3,501	
P63M80 (O)	1,940	—	2,355	2,273	4,550	2,458	3,035	
PANTHER DMR (C)	1,958	2,418	—	—	—	1,534	2,650	
TALON (ET) (O)	1,883	2,083	1,711	1,748	8,769	1,984	2,306	
N4H302 E (ET) (O)	—	—	—	1,640	2,373	2,412	890	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2350.3	79,117	

FLAX YIELDS BY VARIETY 2019–2023†							MANITOBA	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ROWLAND	—	—	15	37	9,747	27	8,785	
CDC GLAS	17	36	17	38	18,028	27	7,537	
AAC BRAVO	16	30	19	31	2,338	23	2,317	
CDC SORREL	14	23	13	27	3,720	21	1,890	
AAC MARVELOUS	—	—	12	39	674	26	1,462	
CDC NEELA	17	29	14	27	1,856	31	1,086	
WESTLIN 72	23	34	14	30	1,026	31	898	
CDC BETHUNE	19	28	15	37	2,301	24	819	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						25.8	26,995	

RISK AREA 1

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	51	53	40	49	48,615	51	50,465	
AAC ELIE (RS)	51	55	38	48	15,722	50	18,637	
AAC STARBUCK (RS)	—	—	42	54	10,651	51	15,166	
AAC LEROY VB (RS)	—	—	38	56	8,819	45	10,142	
AAC WHEATLAND (RS)	—	—	43	54	8,936	52	7,403	
AAC HOCKLEY (RS)	—	—	—	—	—	46	5,030	
CARBERRY (RS)	50	50	42	43	910	50	2,639	
AAC VIEWFIELD EXP (RS)	50	55	40	40	3,238	44	1,978	
AAC REDBERRY (RS)	—	44	32	43	1,640	42	1,875	
AAC WILDFIRE (W)	—	—	—	—	—	46	1,651	
AAC MAGNET (RS)	—	—	—	—	—	44	1,348	
AAC HODGE (RS)	—	—	—	—	—	40	871	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						49.4	121,303	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	31	38	37,126	40	52,443	
L233P (LT)	37	40	31	37	44,461	36	25,243	
L356PC (LT)	—	—	—	38	2,770	41	14,215	
INVIGOR L345PC (LT)	—	43	32	40	10,244	38	4,325	
DKLL 83 SC (LT)	—	—	—	—	—	45	4,057	
L350PC (LT)	—	—	—	—	—	37	3,096	
L357P (LT)	—	—	28	32	5,850	35	2,953	
1028 RR (RT)	33	39	30	30	3,270	33	2,584	
CS4000 LL (LT)	—	—	29	34	975	38	2,071	
L359HPC (LT)	—	—	—	—	—	40	1,969	
DK900TF (RT)(LT)	—	—	—	—	—	33	1,941	
P612L (LT)	—	—	—	—	—	33	1,819	
DKTFL 22 CRSC (RT)(LT)	—	—	—	—	—	34	1,584	
P505MSL (LT)	—	—	35	35	4,057	45	1,264	
L234PC (LT)	37	35	24	36	1,634	39	853	
B1030N (RT)	—	—	—	—	—	35	849	
P509L (LT)	—	—	—	—	—	24	543	
B3017N (LT)	—	—	—	—	—	30	511	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						38.3	137,209	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
NSC WARREN RR (RT)	28	29	24	34	3,609	21	6,225	
DKB002-32 (RR2X)	—	—	—	—	—	23	3,961	
S001-D8X (RR2X)	—	—	20	32	2,778	25	2,034	
S003-Z4X (RR2X)	—	37	23	31	834	23	1,464	
TH 87003 R2X (RR2X)	21	37	36	36	1,121	27	1,376	
P006A37X (RR2X)	—	36	36	—	—	21	1,134	
S003-R5X (RR2X)	—	—	—	—	—	32	1,002	
S007-Y4 (RT)	34	36	28	—	—	23	890	
P003A97X (RR2X)	—	—	—	—	—	20	784	
NSC HOLLAND RR2X (RR2X)	—	—	—	—	—	19	776	
YOUNG R2X (RR2X)	—	—	—	—	—	23	568	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						23.3	26,810	

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
DKC21-36RIB (RT)(RIB)	—	—	—	—	—	117	2,166	
P7211AM (LT)(RT)(HX1)(YG)	—	98	104	109	862	121	1,845	
P7211HR	—	—	52	111	1,030	103	1,433	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						114.9	7,667	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	74	77	49	64	3,924	66	6,790
AAC SYNERGY	90	90	63	62	2,091	70	3,449
AAC CONNECT	90	90	58	58	2,354	68	2,970
CDC COPELAND	73	75	47	61	2,302	82	1,393
AB CATTLELAC	—	—	52	62	597	66	1,349
CELEBRATION	61	65	52	64	1,362	59	828
RICHER	—	—	—	—	—	58	616
CDC COPPER	—	—	—	—	—	63	508
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						66.2	21,029

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC ENDURE	—	—	45	114	7,038	90	9,059
SUMMIT	96	106	61	101	7,236	62	4,538
CDC ARBORG	—	103	52	88	4,883	77	3,361
CS CAMDEN	94	109	55	96	13,055	78	2,220
SOURIS	73	96	47	107	2,664	95	1,010
LEGGETT	92	93	59	98	1,758	81	916
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						75.7	24,513

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC CHROME	—	—	35	53	3,746	45	2,767
AAC PROFIT	—	—	—	—	—	59	1,880
CDC LEWOCHKO	—	—	—	—	—	38	1,588
AAC CARVER	61	49	32	56	908	42	1,133
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						46.7	9,923

DRY BEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC BLACKSTRAP (BLACK)	518	1,078	—	—	—	1,221	849
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1221.4	849

SUNFLOWER YIELDS BY VARIETY 2019–2023†						RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
N4HM354 (ST) (0)	—	1,695	1,887	1,700	1,667	1,889	1,630
6946 DMR (C)	1,292	1,656	—	—	—	1,947	1,333
TALON (ET) (0)	1,861	2,079	1,678	1,894	2,760	2,460	672
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2038.2	6,682

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



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FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 1	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ROWLAND	—	—	—	29	956	20	1,189	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							19.6	1,781

RISK AREA 2

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	59	66	52	60	153,935	63	145,600	
AAC WHEATLAND (RS)	—	64	52	67	23,673	66	55,644	
AAC STARBUCK (RS)	—	59	52	65	37,228	67	36,915	
AAC ELIE (RS)	63	65	51	60	14,875	61	15,303	
AAC HOCKLEY (RS)	—	—	—	64	906	62	15,103	
CS ACCELERATE (PS)	—	70	50	68	10,091	72	13,783	
AAC HODGE (RS)	—	—	—	—	—	64	9,315	
AAC REDBERRY (RS)	69	66	51	58	4,855	56	5,602	
AAC LEROY VB (RS)	—	—	52	62	2,494	59	4,940	
PROSPER (NHR)	55	64	54	72	2,025	65	2,407	
BOLLES (RS)	—	66	52	56	2,815	54	1,787	
AAC TISDALE (RS)	71	55	56	—	—	57	1,690	
FALLER (NHR)	91	85	42	73	1,420	62	1,521	
SY CAST (RS)	—	—	51	41	1,499	46	1,474	
AAC WILDFIRE (W)	—	—	—	—	—	62	1,471	
AAC BROADACRES (RS)	—	—	—	—	—	43	824	
SY MANNESS (RS)	—	—	—	—	—	69	769	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							63.5	321,406

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	37	43	120,733	45	150,415	
L233P (LT)	43	46	36	41	126,560	42	39,442	
L356PC (LT)	—	—	—	44	8,202	44	28,057	
L350PC (LT)	—	—	—	—	—	44	16,537	
DKLL 83 SC (LT)	—	—	—	36	4,105	40	11,412	
L258HPC (LT)	39	44	34	40	4,677	40	7,534	
P505MSL (LT)	—	—	35	36	4,616	44	6,031	
INVIGOR L345PC (LT)	—	47	37	41	15,528	44	4,390	
LR354PC (RT)(LT)	—	—	—	—	—	35	2,373	
L357P (LT)	—	—	35	33	8,790	43	1,880	
DKLL 82 SC (LT)	—	43	33	37	8,066	49	1,792	
DKTFL 21 SC (RT)(LT)	—	34	27	34	8,886	42	1,725	
PV 760 TM (RT)	—	36	23	33	625	27	1,603	
DKTFL 22 CRSC (RT)(LT)	—	—	—	—	—	30	1,500	
CS4000 LL (LT)	—	—	35	—	—	45	1,493	
DK900TF (RT)(LT)	—	—	—	—	—	50	1,423	
L255PC (LT)	43	44	35	35	9,734	39	1,318	
CP21L3C (LT)	—	—	—	—	—	39	1,264	
PV 761 TM (RT)	—	—	—	—	—	30	1,187	
DKLL 84 CRSC (LT)	—	—	—	—	—	40	1,020	
BY 6217TF (RT)(LT)	—	—	—	—	—	38	1,010	
B2030MN (ST)	—	—	25	—	—	38	912	
PV 660 LCM (LT)	—	—	28	36	927	36	892	
PV 780 TC (RT)	—	—	—	29	511	31	889	
PV 280 CLC (ST)	—	—	—	—	—	38	725	
1028 RR (RT)	36	40	26	31	2,080	34	695	
PV 661 LCM (LT)	—	—	—	—	—	38	635	
CP21T3P (RT)	—	—	24	35	2,173	35	632	
L343PC (LT)	—	—	—	42	3,316	39	532	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							43.3	297,730

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S003-R5X (RR2X)	—	—	—	42	3,454	32	27,990	
DKB002-32 (RR2X)	—	40	34	34	1,884	31	9,692	
S001-D8X (RR2X)	—	—	33	40	10,036	32	9,515	
NSC HOLLAND RR2X (RR2X)	—	—	—	44	2,683	31	8,956	
S003-Z4X (RR2X)	—	40	31	40	7,617	28	8,626	
P001A48X (RR2X)	—	40	31	41	4,447	26	7,007	
TH 87003 R2X (RR2X)	34	38	34	48	3,814	35	4,740	
P006A37X (RR2X)	—	41	34	49	1,156	34	3,488	
B0041RX (RR2X)	—	—	—	—	—	31	3,309	
SUNNA R2X (RR2X)	33	41	30	43	1,611	30	3,157	
S007-Y4 (RT)	36	40	36	48	4,396	32	2,962	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P003A97X (RR2X)	—	—	—	48	1,096	34	2,673	
SI 001XTN (RR2X)	—	—	27	42	2,194	30	2,178	
PV 22S002 R2X (RR2X)	—	—	—	—	—	34	1,785	
SI 00321XT (RR2X)	—	—	—	—	—	32	1,742	
MAKO R2X (RR2X)	—	—	—	—	—	35	1,736	
AKRAS R2 (RT)	36	43	29	42	1,394	33	1,460	
MERINO R2X (RR2X)	—	—	—	—	—	33	1,458	
TH 89004 R2X (RR2X)	—	—	30	38	4,186	35	1,418	
B0012RX (RR2X)	—	—	—	—	—	26	1,391	
BOURKE R2X (RR2X)	—	—	29	44	1,618	33	1,337	
YOUNG R2X (RR2X)	—	—	—	—	—	35	1,239	
DKB005-52 (RT)	—	—	—	—	—	34	973	
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	43	930	
DKB0008-87 RR2X (RR2X)	—	—	—	—	—	25	750	
TH83004X (RR2X)	—	—	—	—	—	38	542	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							30.9	122,920

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	110	115	118	131	4,207	109	7,211	
P7211HR	119	—	102	101	645	107	5,045	
DKC21-36RIB (RT)(RIB)	—	—	107	144	815	105	4,118	
P7455R (RT)	105	102	103	132	1,838	113	3,169	
P7389AM (LT)(RT)	—	—	—	—	—	121	1,350	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							110.8	27,267

BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC AUSTENSON	97	97	65	92	6,429	82	7,833	
AAC SYNERGY	90	97	68	92	6,994	91	7,268	
AAC CONNECT	80	85	61	83	5,534	88	5,461	
CDC FRASER	—	74	60	80	3,770	66	2,847	
CLAYMORE	—	87	45	102	2,633	84	2,819	
CDC COPELAND	66	82	62	79	1,020	78	2,056	
CONLON	95	83	60	85	2,196	92	1,628	
RICHER	—	—	—	—	—	78	1,467	
TRADITION	—	81	48	65	2,324	102	954	
CDC COPPER	—	—	64	—	—	93	765	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							83.2	36,988

OATS YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
SUMMIT	115	121	80	113	23,509	95	9,276	
CS CAMDEN	117	125	84	100	29,022	110	5,640	
CDC ENDURE	—	—	91	136	11,179	116	3,941	
CDC ARBORG	—	123	75	104	6,372	121	3,750	
CDC SO-I	63	—	—	—	—	53	1,374	
DOUGLAS	—	—	—	—	—	113	1,280	
AAC DOUGLAS	—	—	—	—	—	137	586	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							102.6	27,493

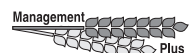
FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CHROME	—	70	40	65	5,133	53	5,000	
AAC CARVER	59	67	44	64	3,143	61	3,194	
AAC PROFIT	—	—	45	53	2,420	62	2,195	
CDC AMARILLO	58	51	41	—	—	52	1,097	
CDC LEWOCHKO	—	—	43	57	2,137	53	862	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							55.2	14,108

DRY BEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC BLACKSTRAP (BLACK)	1,074	1,956	1,519	1,896	2,495	1,585	7,663	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1560.9	8,333

FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 2	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC GLAS	9	38	20	35	2,006	16	857	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							16.9	997

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.





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Willowdale Seeds	204-461-0386
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Walter Smith 204-825-7810
David Schroeder 204-245-0968



Wheat: Fallar / Brandon / Wheatland / Starbuck / Bolles / Cardale / Prosper

Oats: Souris / Summit

Barley: Conlon (sold out)

Flax: CDC Glas

Peas: Chrome (limited supply) / Lewochko

RISK AREA 3

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC WHEATLAND (RS)	—	73	47	61	29,816	57	40,983	
AAC STARBUCK (RS)	—	—	46	59	30,859	57	37,317	
AAC BRANDON (RS)	59	61	43	55	39,910	55	27,704	
AAC HODGE (RS)	—	—	—	—	—	54	6,271	
AAC HOCKLEY (RS)	—	—	—	—	—	58	5,219	
AAC ELIE (RS)	59	60	44	58	4,377	47	2,765	
BOLLES (RS)	53	55	37	49	3,379	46	2,712	
AAC LEROY VB (RS)	—	—	54	64	2,328	56	2,580	
CDC LANDMARK (RS)	59	57	39	63	3,778	47	2,500	
AAC REDBERRY (RS)	55	58	41	51	8,074	47	2,132	
SY TORACH (RS)	—	66	36	62	1,920	43	2,077	
GLENN (RS)	50	55	—	53	1,711	40	1,079	
FALLER (NHR)	60	—	—	—	—	55	739	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						55.0	139,348	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	34	40	28,777	42	36,015	
L233P (LT)	42	45	33	38	34,837	40	18,710	
L356PC (LT)	—	—	—	39	8,829	44	16,637	
L350PC (LT)	—	—	—	—	—	43	10,721	
L357P (LT)	—	—	29	43	11,474	39	9,869	
P505MSL (LT)	—	—	29	31	6,410	40	7,238	
INVIGOR L345PC (LT)	—	49	33	41	8,650	43	5,786	
45CM39 (RT)	40	40	25	37	1,862	39	5,350	
L343PC (LT)	—	—	—	40	2,881	40	3,287	
1028 RR (RT)	41	45	29	37	3,640	35	3,167	
DK900TF (RT)(LT)	—	—	—	—	—	44	3,135	
DKTF 96 SC (RT)	—	42	26	42	3,635	42	2,924	
CS4000 LL (LT)	—	—	—	35	1,967	37	2,814	
DKLL 83 SC (LT)	—	—	—	—	—	40	1,435	
L234PC (LT)	39	50	34	39	5,315	42	1,430	
L359HPC (LT)	—	—	—	—	—	38	1,332	
BY 6211 TF (RT)	—	—	—	—	—	32	1,327	
P506ML (LT)	—	—	28	27	3,181	31	1,232	
DKTFLL 22 CRSC (RT)(LT)	—	—	—	—	—	40	1,170	
P511G (RT)	—	—	—	—	—	24	1,009	
B1030N (RT)	—	—	—	—	—	37	932	
B3010M (LT)	—	—	31	32	1,430	29	875	
P508MCL (ST)	—	—	32	36	970	49	858	
P516L (LT)	—	—	—	—	—	43	804	
L255PC (LT)	44	46	30	35	3,148	37	735	
LR354PC (RT)(LT)	—	—	—	—	—	45	732	
P612L (LT)	—	—	—	—	—	35	503	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.2	151,736	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
NSC WARREN RR (RT)	—	35	30	—	—	20	1,632	
S001-D8X (RR2X)	—	—	—	38	929	19	1,509	
TH 87003 R2X (RR2X)	26	30	—	—	—	27	1,266	
TH 89004 R2X (RR2X)	—	—	27	36	1,083	23	1,221	
P005A83X (RR2X)	—	—	21	—	—	21	1,123	
P001A48X (RR2X)	—	—	27	36	729	27	1,007	
P006A37X (RR2X)	—	—	—	—	—	27	757	
P005A59E	—	—	—	—	—	28	634	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						22.9	17,110	

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	—	94	106	79	936	74	1,058	
P7211HR	75	—	—	130	772	97	670	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						64.5	3,645	

BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC AUSTENSON	80	93	48	74	10,933	64	9,053	
AAC CONNECT	84	86	43	75	2,277	75	2,925	
AAC SYNERGY	—	—	—	—	—	55	1,877	

BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
ESMA	—	—	—	—	—	98	1,675	
CDC COPELAND	79	83	47	55	1,919	66	860	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						68.0	20,407	

OATS YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CS CAMDEN	93	108	58	94	6,127	44	3,193	
SUMMIT	74	107	74	108	1,895	71	878	
CDC ARBORG	—	—	67	125	2,058	53	629	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						48.8	6,987	

FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CHROME	—	70	34	48	3,178	42	4,998	
CDC LEWOCHKO	—	—	36	36	1,868	46	2,485	
AAC CARVER	49	58	29	50	2,543	40	1,677	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.7	10,427	

FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 3	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ROWLAND	—	—	—	—	—	24	750	
AAC BRAVO	—	—	—	—	—	8	532	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						17.5	1,422	

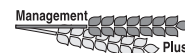
RISK AREA 4

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	61	61	52	57	115,477	64	106,954	
AAC STARBUCK (RS)	—	—	58	59	25,449	66	32,592	
AAC WHEATLAND (RS)	—	72	59	63	16,346	72	27,695	
AAC HOCKLEY (RS)	—	—	—	—	—	66	7,276	
AAC ELIE (RS)	62	57	43	48	4,417	59	3,725	
PROSPER (NHR)	71	83	64	73	2,984	88	3,662	
AAC HODGE (RS)	—	—	—	—	—	70	3,486	
FALLER (NHR)	68	74	44	56	1,952	70	2,329	
AAC REDBERRY (RS)	—	59	43	56	1,879	69	2,112	
AAC BROADACRES (RS)	—	—	—	—	—	72	1,582	
BOLLES (RS)	—	66	36	41	629	55	1,536	
CARDALE (RS)	48	52	37	45	1,069	51	1,070	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						65.3	199,714	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	38	38	45,791	49	61,892	
L233P (LT)	44	44	36	37	47,337	47	25,447	
L356PC (LT)	—	—	—	37	5,718	51	18,256	
L357P (LT)	—	—	36	38	13,277	51	10,883	
DKLL 83 SC (LT)	—	—	—	31	1,965	46	7,324	
L350PC (LT)	—	—	—	—	—	46	6,633	
INVIGOR L345PC (LT)	—	45	36	38	10,281	48	6,451	
CS4000 LL (LT)	—	—	36	43	4,494	48	6,017	
L258HPC (LT)	37	37	33	31	2,181	47	5,014	
P505MSL (LT)	—	—	39	35	4,129	47	4,875	
PV 761 TM (RT)	—	51	27	42	875	43	3,393	
L255PC (LT)	45	41	37	33	6,992	45	3,121	
DKTF 96 SC (RT)	—	42	26	38	4,064	40	2,748	
DK900TF (RT)(LT)	—	—	—	—	—	45	2,280	
PV 280 CLC (ST)	—	—	—	—	—	39	2,096	
DKLL 82 SC (LT)	—	36	35	34	8,783	46	1,753	
DKTFLL 22 CRSC (RT)(LT)	—	—	—	—	—	47	1,595	
CS3100 TF (RT)(LT)	—	—	—	—	—	33	1,463	
PV 661 LCM (LT)	—	—	—	—	—	43	1,286	
L343PC (LT)	—	—	—	—	—	48	1,223	
B3017N (LT)	—	—	—	—	—	43	1,140	
L234PC (LT)	53	37	31	46	866	46	1,116	
P514CL (ST)	—	—	—	—	—	50	1,039	
45CM39 (RT)	41	38	31	34	1,074	34	1,022	
1028 RR (RT)	37	43	26	32	3,318	30	982	
LR354PC (RT)(LT)	—	—	—	—	—	42	795	
P612L (LT)	—	—	—	—	—	42	672	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



CANOLA YIELDS BY VARIETY 2019-2023†						RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P508MCL (ST)	—	—	35	41	1,174	47	670
CS2300 (RT)	32	29	28	20	1,047	27	637
BY 6211 TF (RT)	—	—	—	—	—	38	626
CS3000 TF (RT)	—	—	—	—	—	44	573
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						47.1	195,403

SOYBEAN YIELDS BY VARIETY 2019-2023†						RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S007-Y4 (RT)	38	41	36	43	6,085	36	11,241
S003-R5X (RR2X)	—	—	—	—	—	38	9,220
TH 87003 R2X (RR2X)	37	35	34	37	1,213	36	5,453
P003A97X (RR2X)	—	—	32	58	1,577	35	5,264
S001-D8X (RR2X)	—	—	35	43	3,190	36	4,799
YOUNG R2X (RR2X)	—	—	—	48	819	34	4,385
DKB002-32 (RR2X)	—	—	41	43	1,117	36	3,274
P006A37X (RR2X)	—	—	—	41	740	41	2,479
P001A48X (RR2X)	—	43	36	45	2,647	38	2,238
PV 22S002 R2X (RR2X)	—	—	—	39	1,409	32	2,225
TH 89004 R2X (RR2X)	—	34	39	39	4,001	39	1,948
P005A83X (RR2X)	—	42	31	46	1,522	37	1,892
NSC HOLLAND RR2X (RR2X)	—	—	—	—	—	30	1,611
AKRAS R2 (RT)	33	45	35	48	2,092	45	1,510
MAHONY R2 (RT)	38	39	31	39	1,482	28	1,472
P005A27X (RR2X)	35	47	36	45	1,985	33	1,226
SUNNA R2X (RR2X)	—	—	—	—	—	39	1,108
S003-Z4X (RR2X)	—	38	35	43	5,291	31	961
BOURKE R2X (RR2X)	—	37	29	41	1,212	36	945
HART R2X (RR2X)	—	—	—	—	—	36	757
B0041RX (RR2X)	—	—	—	—	—	36	735
MERINO R2X (RR2X)	—	—	—	—	—	36	707
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						35.6	76,849

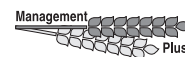
† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

CORN YIELDS BY VARIETY 2019-2023†						RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P7211AM (LT)(RT)(HX1)(YG)	132	128	118	139	8,737	130	11,784
P7417R (RT)	—	—	140	127	1,892	134	2,858
P7211HR	110	127	91	132	3,171	144	2,300
DKC21-36RIB (RT)(RIB)	—	—	—	144	516	126	2,094
P7527AM (LT)(RT)	132	127	138	119	825	147	1,304
P7455R (RT)	—	—	—	—	—	131	1,136
A3979 G2 RIB (VT2P)(RIB)	—	—	—	—	—	131	935
P7389AM (LT)(RT)	—	—	—	—	—	141	843
TH 6875 VT2P (RT)(RIB)	—	—	—	—	—	109	773
P7844AM (LT)(RT)	—	—	—	—	—	136	726
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						130.6	31,414

BARLEY* YIELDS BY VARIETY 2019-2023†						RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	85	92	62	74	11,081	83	9,912
CONLON	96	80	71	87	3,146	95	2,736
AAC CONNECT	66	79	58	75	1,442	78	2,468
NEWDAL	69	84	66	82	1,155	105	1,363
AAC SYNERGY	—	—	—	90	851	77	1,009
CDC COPELAND	80	73	57	69	2,563	89	989
CELEBRATION	70	50	—	50	1,120	62	521
CDC CHURCHILL	—	—	—	—	—	108	509
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						84.1	23,092

OATS YIELDS BY VARIETY 2019-2023†						RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
SUMMIT	77	92	57	106	6,307	80	1,966
CS CAMDEN	92	99	76	93	5,984	89	1,898
CDC ENDURE	—	—	—	87	1,689	56	926
AAC DOUGLAS	—	—	—	107	655	108	502
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						75.1	7,572

‡ On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



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FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CARVER	53	47	37	55	4,407	68	2,717	
CDC LEWOCHKO	—	—	35	50	3,151	48	1,488	
AAC CHROME	—	57	—	46	1,429	59	1,358	
4010	—	—	16	24	820	38	568	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							56.4	7,764

DRY BEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
VIBRANT (PINTO)	2,610	2,474	1,653	2,496	4,092	2,577	6,031	
T9905 (WHITE PEA)	1,898	1,759	1,274	2,714	720	1,720	1,850	
PINK PANTHER (KIDNEY)	2,134	2,350	1,841	—	—	2,302	929	
ECLIPSE (BLACK)	2,220	2,150	1,625	1,942	1,990	2,075	853	
CDC BLACKSTRAP (BLACK)	—	—	—	—	—	1,792	659	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							2142.6	14,947

SUNFLOWER YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P63HE501 (O)	—	—	—	—	—	1,612	2,609	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1812.2	5,075

FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 4	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ROWLAND	—	—	—	37	719	32	650	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							28.5	1,870

RISK AREA 5

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	65	67	55	66	162,350	64	147,072	
AAC STARBUCK (RS)	—	77	60	68	63,358	65	82,703	
AAC WHEATLAND (RS)	—	—	54	65	11,294	62	14,130	
FALLER (NHR)	77	73	56	78	6,302	72	11,079	
AAC HODGE (RS)	—	—	—	—	—	63	6,908	
AAC HOCKLEY (RS)	—	—	—	—	—	68	5,320	
PROSPER (NHR)	72	72	48	74	2,420	70	4,062	
CS ACCELERATE (PS)	—	44	53	62	3,279	69	3,459	
SY CAST (RS)	—	—	57	62	2,800	59	2,873	
AAC LEROY VB (RS)	—	—	56	65	3,191	49	2,261	
AAC ELIE (RS)	64	66	50	55	3,424	56	1,867	
SY MANNESS (RS)	—	—	—	—	—	74	1,643	
AAC PENHOLD (PS)	86	67	58	72	3,196	65	1,477	
AAC BROADACRES (RS)	—	—	—	—	—	69	1,153	
SY TORACH (RS)	—	74	59	67	1,661	57	1,120	
CARDALE (RS)	61	55	53	54	1,913	48	777	
AC BARRIE (RS)	—	—	—	—	—	37	700	
AAC WILDFIRE (W)	—	—	—	—	—	70	672	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							64.2	293,598

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	37	42	112,280	47	91,877	
L356PC (LT)	—	—	—	46	19,616	47	56,191	
DKLL 83 SC (LT)	—	—	—	30	1,309	40	10,856	
L350PC (LT)	—	—	—	—	—	47	10,702	
L343PC (LT)	—	—	—	45	10,021	48	9,101	
L233P (LT)	46	46	31	38	39,276	44	8,645	
P505MSL (LT)	—	—	34	37	7,211	43	7,358	
INVIGOR L345PC (LT)	—	49	35	44	11,583	45	5,559	
LR354PC (RT)(LT)	—	—	—	—	—	42	5,293	
DKTFLL 22 CRSC (RT)(LT)	—	—	—	38	1,510	36	4,918	
B3017N (LT)	—	—	—	—	—	40	4,320	
DKLL 84 CRSC (LT)	—	—	—	40	1,289	43	4,240	
B1030N (RT)	—	—	27	38	2,572	35	3,829	
DK900TF (RT)(LT)	—	—	—	—	—	41	3,449	
1028 RR (RT)	41	42	28	36	6,400	38	2,762	
DKLL 82 SC (LT)	—	43	29	37	15,792	39	2,578	
DKTFLL 21 SC (RT)(LT)	—	41	25	35	7,424	43	2,326	
L357P (LT)	—	—	32	36	4,275	31	1,924	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L255PC (LT)	49	46	35	42	17,829	48	1,847	
B2030MN (ST)	—	—	26	38	2,153	36	1,615	
CS4000 LL (LT)	—	—	30	34	1,612	46	1,546	
DKTF 99 SC (RT)	—	—	23	32	4,306	38	1,515	
P508MCL (ST)	—	—	—	27	956	35	1,493	
CS3100 TF (RT)(LT)	—	—	—	—	—	41	1,317	
PV 280 CLC (ST)	—	—	—	—	—	33	1,263	
L359HPC (LT)	—	—	—	—	—	43	1,207	
L258HPC (LT)	—	45	30	36	1,392	41	1,124	
DKTF 96 SC (RT)	—	39	24	35	1,675	35	1,036	
B3010M (LT)	—	47	32	47	574	37	969	
45CM39 (RT)	41	37	17	27	735	22	801	
PV 660 LCM (LT)	—	37	26	35	1,977	21	722	
PV 761 TM (RT)	—	—	21	—	—	31	669	
DKTF 97 CRSC (RT)	—	—	35	34	2,116	45	662	
P612L (LT)	—	—	—	—	—	34	580	
PV 661 LCM (LT)	—	—	—	—	—	33	559	
CP21T3P (RT)	—	—	—	—	—	37	524	
BY 6207 TF (RT)	—	—	—	32	640	34	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							44.4	266,618

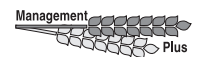
SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S003-R5X (RR2X)	—	—	—	47	3,070	32	19,606	
P006A37X (RR2X)	41	42	35	47	6,286	33	16,270	
S001-D8X (RR2X)	—	—	32	46	12,693	35	10,550	
S007-Y4 (RT)	39	42	31	51	12,082	36	9,980	
P001A48X (RR2X)	—	44	33	49	7,514	30	8,838	
B0041RX (RR2X)	—	—	—	52	1,723	33	8,220	
P003A97X (RR2X)	—	—	32	49	2,866	35	5,959	
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	33	5,891	
DKB002-32 (RR2X)	—	—	29	52	979	32	5,216	
B0012RX (RR2X)	—	—	—	51	4,236	33	4,861	
NSC HOLLAND RR2X (RR2X)	—	—	—	49	1,955	32	4,310	
LISKA	—	—	—	46	956	28	3,240	
PV 22S002 R2X (RR2X)	—	—	—	47	2,121	29	2,265	
S007-A2XS (RR2X)	—	—	—	—	—	35	1,801	
PV 25S005 R2X (RR2X)	—	—	—	—	—	27	1,789	
SI 001XTN (RR2X)	—	—	30	45	2,101	26	1,774	
DKB006-80 (RR2X)	—	—	—	—	—	33	1,578	
AKRAS R2 (RT)	33	42	38	54	1,804	35	1,500	
P005A83X (RR2X)	—	—	28	—	—	34	1,483	
TH 87003 R2X (RR2X)	39	42	33	55	709	39	1,462	
P005A27X (RR2X)	40	42	28	45	1,479	35	1,174	
MERINO R2X (RR2X)	—	—	—	—	—	32	992	
HART R2X (RR2X)	—	—	—	—	—	31	938	
SI 00321XT (RR2X)	—	—	—	—	—	35	919	
DKB005-52 (RT)	—	—	28	53	784	32	879	
S005-C9X (RR2X)	—	—	27	49	525	35	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							32.4	137,875

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	147	132	110	159	7,025	121	8,146	
P7211HR	135	130	104	148	4,153	106	7,460	
DKC21-36RIB (RT)(RIB)	—	—	—	150	2,710	113	5,248	
P7455R (RT)	140	—	98	162	694	121	2,601	
P7527AM (LT)(RT)	159	143	128	161	3,189	142	2,239	
PV 61276 RIB (RT)(RIB)	—	—	—	160	650	127	1,987	
P7958AM (LT)(RT)(HX1)	149	—	98	149	682	137	1,321	
A3979 G2 RIB (VT2P)(RIB)	—	—	—	—	—	137	1,253	
P7844AM (LT)(RT)	—	—	—	—	—	129	938	
DKC24-06RIB (RT)	—	—	113	159	1,183	154	906	
P7822AM (LT)(RT)	—	—	—	—	—	143	758	
PV 60273RIB (VT2P)(RIB)	—	—	—	—	—	132	651	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							121.7	41,678

BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 5	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CONLON	91	88	65	84	15,502	76	10,576	
AAC CONNECT	104	90	65	80	8,945	85	6,049	
CDC AUSTENSON	99	103	65	85	6,603	82	6,042	
AAC SYNERGY	95	79	63	80	3,855	82	4,487	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC FRASER	104	84	54	72	3,302	80	4,013
CANMORE	—	74	46	82	1,841	85	3,066
ESMA	—	—	—	—	—	68	1,215
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						79.9	38,159

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
SUMMIT	130	138	90	139	29,658	107	13,433
CS CAMDEN	118	122	79	125	16,925	111	4,234
AAC DOUGLAS	—	—	—	149	1,096	106	2,322
DOUGLAS	—	—	—	123	1,525	108	1,916
CDC ENDURE	—	—	109	138	4,110	103	1,209
CDC ARBORG	—	109	88	127	3,512	80	1,007
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						104.9	26,348

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC CHROME	—	75	42	77	6,994	59	7,507
AAC CARVER	67	68	35	63	7,497	54	5,327
CDC LEWOCHKO	—	—	40	63	4,316	53	3,262
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						54.9	17,605

DRY BEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
VIBRANT (PINTO)	1,349	2,293	1,781	2,524	6,864	2,004	8,927
T9905 (WHITE PEA)	1,537	2,344	1,246	2,465	4,308	2,013	4,113
BL BLACK TAILS (BLACK)	—	—	—	2,813	694	1,318	2,373
ECLIPSE (BLACK)	1,698	1,929	1,358	2,568	1,164	1,625	2,202
CDC BLACKSTRAP (BLACK)	—	—	1,631	2,262	673	1,638	1,120
SV6139GR (PINTO)	—	664	—	—	—	1,314	601
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1864.6	24,637

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ‡ For additional characteristic codes, see the key at the end of the Risk Area tables.

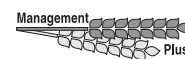
SUNFLOWER YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
N4HM354 (ST) (O)	1,982	2,282	2,119	2,187	1,824	2,196	2,495
P63ME80 (ET) (O)	—	—	—	—	—	2,249	1,920
P63HE60 (ET) (O)	—	2,048	—	1,944	1,613	2,165	1,873
P63HE501 (O)	—	—	—	—	—	2,546	737
6946 DMR (C)	2,222	2,355	—	—	—	1,986	705
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2243.8	9,053

FLAX YIELDS BY VARIETY 2019–2023†						RISK AREA 5	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC GLAS	11	37	20	43	6,639	29	4,126
CDC ROWLAND	—	—	—	38	2,745	28	2,742
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						28.3	7,747

RISK AREA 6

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety†‡	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC STARBUCK (RS)	—	66	62	65	63,772	76	88,506
AAC BRANDON (RS)	60	62	58	58	81,290	72	56,923
AAC WHEATLAND (RS)	—	67	64	64	40,451	77	52,901
AAC HOCKLEY (RS)	—	—	—	67	1,161	73	19,773
AAC REDBERRY (RS)	57	58	51	55	23,593	62	16,168
BOLLES (RS)	68	62	56	60	14,099	74	13,054
FALLER (NHR)	70	67	64	71	7,547	85	8,931
AAC HODGE (RS)	—	—	—	63	797	74	8,534
SY MANNESS (RS)	—	—	—	—	—	81	3,068
AAC LEROY VB (RS)	—	—	61	54	5,905	66	2,579
CS ACCELERATE (PS)	—	—	—	—	—	81	1,875
PROSPER (NHR)	64	—	—	66	1,353	86	1,528
AAC REDSTAR (RS)	—	—	—	54	961	72	989

† On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



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Timchishen Seeds

Arborg MB

204-641-1288

Hulme Agra Products

MacGregor MB

204-871-4666

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC LANDMARK (RS)	66	63	55	64	2,894	67	929
AAC GOLDRUSH (W)	—	—	59	—	—	67	925
AAC VIEWFIELD EXP (RS)	66	56	58	54	3,751	66	563
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						74.1	283,242

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	43	45	82,893	54	90,872
L356PC (LT)	—	—	—	45	19,329	56	39,712
L233P (LT)	47	42	40	42	52,152	52	28,782
L357P (LT)	—	—	45	45	28,805	50	24,741
L350PC (LT)	—	—	—	—	—	54	20,167
1028 RR (RT)	45	42	36	40	14,187	47	9,013
DKTF 99 SC (RT)	—	—	37	36	5,893	44	8,612
P505MSL (LT)	—	—	37	40	7,383	53	7,339
45CM39 (RT)	38	36	35	39	4,778	46	7,305
DKLL 83 SC (LT)	—	—	—	38	910	52	6,664
INWIGOR L345PC (LT)	—	46	40	44	12,375	50	5,683
DK900TF (RT)(LT)	—	—	—	—	—	49	5,285
CS4000 LL (LT)	—	—	—	43	3,024	46	4,181
BY 6217TF (RT)(LT)	—	—	—	—	—	45	4,088
L258HPC (LT)	48	41	42	43	7,568	53	4,005
BY 6211 TF (RT)	—	—	—	29	918	41	3,669
L255PC (LT)	46	43	40	40	8,440	54	3,235
PV 280 CLC (ST)	—	—	—	30	1,348	36	3,193
L359HPC (LT)	—	—	—	—	—	51	3,169
DK902TF (RT)(LT)	—	—	—	—	—	50	3,063
DKTFLL 22 CRSC (RT)(LT)	—	—	—	—	—	43	2,782
L343PC (LT)	—	—	—	45	4,526	48	2,254
P508MCL (ST)	—	—	37	34	6,778	50	2,167
LR354PC (RT)(LT)	—	—	—	—	—	45	2,109
CS3100 TF (RT)(LT)	—	—	—	—	—	42	2,107
DKTF 96 SC (RT)	—	37	36	37	10,515	45	2,088
DKLL 82 SC (LT)	—	44	37	39	6,047	44	1,888
PV 761 TM (RT)	—	36	31	—	—	36	1,841
PV 781 TCM (RT)	—	—	—	—	—	48	1,738
B3017N (LT)	—	—	—	—	—	49	1,651
B1030N (RT)	—	—	33	38	1,326	45	1,553
P514CL (ST)	—	—	—	—	—	45	1,502
P516L (LT)	—	—	—	—	—	54	1,471
DKLL 84 CRSC (LT)	—	—	—	—	—	49	1,151
BY 6204 TF (RT)	—	32	33	35	3,560	46	1,146
B3012 (LT)	—	—	—	—	—	54	1,106
CP2173P (RT)	—	—	—	37	926	47	1,058
PV 680 LC (LT)	44	43	37	41	2,156	42	1,008
B2030MNN (ST)	—	—	35	39	1,657	46	967
P612L (LT)	—	—	—	—	—	42	939
CS2300 (RT)	40	32	36	33	1,602	36	834
P509L (LT)	—	—	—	38	835	35	834
PV 661 LCM (LT)	—	—	—	—	—	46	817
45H42 (RT)	—	—	33	39	508	43	734
DKTF 95 HL (RT)	—	—	—	37	1,023	43	654
PV 881 OCM (RT)	—	—	—	—	—	45	531
6074 RR (RT)	39	36	29	—	—	39	505
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						51.0	332,380

SOYBEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S001-D8X (RR2X)	—	—	35	42	4,396	35	7,968
S003-R5X (RR2X)	—	—	—	—	—	38	5,140
DKB002-32 (RR2X)	—	38	38	41	2,058	39	4,730
P001A48X (RR2X)	—	35	34	44	2,160	39	3,470
P003A97X (RR2X)	—	—	36	40	1,010	37	2,728
S007-Y4 (RT)	38	39	41	49	3,072	35	2,662
P005A59E	—	—	—	—	—	37	2,124
P006A37X (RR2X)	—	—	—	—	—	49	1,999
S0009-F2X (RR2X)	—	—	—	—	—	37	1,321
PV 22S002 R2X (RR2X)	—	—	—	—	—	32	1,133
NSC DAUPHIN RR2X (RR2X)	—	—	—	39	779	37	1,131
MERINO R2X (RR2X)	—	—	—	—	—	36	1,049
LISKA	—	—	—	—	—	29	794
P005A83X (RR2X)	—	—	32	—	—	42	734
S003-Z4X (RR2X)	—	37	37	44	1,136	38	693
YOUNG R2X (RR2X)	—	—	—	—	—	39	520
DKB001-07	—	—	—	—	—	39	502
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						36.8	49,239

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

CORN YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P7211AM (LT)(RT)(HX1)(YG)	—	97	112	—	—	99	2,143
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						96.1	3,502

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	82	86	82	78	28,592	100	27,434
AAC SYNERGY	105	94	92	79	4,283	103	5,960
AAC CONNECT	82	84	80	74	3,625	98	5,155
AC METCALFE	84	73	75	64	3,122	91	2,595
CDC COPELAND	80	75	73	62	7,134	93	2,210
NEWDALE	81	74	70	59	2,641	77	1,818
CONLON	86	80	70	70	3,266	103	808
CDC CHURCHILL	—	—	—	—	—	126	530
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						98.2	49,891

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CS CAMDEN	109	115	97	117	11,599	111	4,183
SUMMIT	88	110	81	108	5,001	101	1,043
CDC ENDURE	—	—	—	117	2,499	108	859
CDC S0-I	—	—	—	—	—	90	524
ORE3542M	—	—	126	125	1,159	117	503
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						106.9	9,496

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC LEWOCHKO	—	—	48	51	6,973	60	8,786
AAC CHROME	—	51	42	54	7,438	60	2,965
AAC CARVER	57	46	47	59	4,844	61	2,526
CDC MEADOW	54	45	51	47	1,152	48	706
AAC PROFIT	—	—	49	47	1,190	45	633
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						58.0	18,611

SUNFLOWER YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P63HE501 (O)	—	—	—	—	—	2,657	949
P63HE60 (ET) (O)	—	—	—	2,238	2,626	2,571	946
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2526.5	2,035

FLAX YIELDS BY VARIETY 2019–2023†						RISK AREA 6	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC ROWLAND	—	—	—	37	976	38	640
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						31.2	1,576

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC WHEATLAND (RS)	—	73	62	65	42,852	70	51,251
AAC STARBUCK (RS)	—	79	61	62	35,835	70	35,429
AAC HODGE (RS)	—	—	—	—	—	72	19,159
AAC BRANDON (RS)	62	63	59	56	17,626	65	13,758
AAC HOCKLEY (RS)	—	—	—	76	2,109	70	7,930
CDC LANDMARK (RS)	66	65	62	68	6,258	66	7,638
AAC REDBERRY (RS)	63	61	58	57	15,446	62	6,986
SY MANNESS (RS)	—	—	—	—	—	82	5,207
BOLLES (RS)	68	65	59	61	9,958	67	5,094
AAC VIEWFIELD EXP (RS)	67	56	72	64	4,228	70	2,595
AAC LEROY VB (RS)	—	—	60	63	4,148	70	2,095
FALLER (NHR)	70	—	64	70	717	73	1,166
SY GABBRO (RS)	—	62	52	56	1,674	47	786
AAC WILDFIRE (W)	—	—	—	—	—	41	694
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						69.0	161,393

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	42	47	57,778	55	52,391
L233P (LT)	51	48	42	45	25,482	57	17,761
L357P (LT)	—	—	42	43	20,529	53	17,584
L356PC (LT)	—	—	—	48	6,696	56	15,858
L350PC (LT)	—	—	—	—	—	53	11,468
1028 RR (RT)	39	43	38	43	8,508	50	6,401
B3012 (LT)	—	—	—	54	800	50	5,160
LR354PC (RT)(LT)	—	—	—	—	—	51	4,606
DK900TF (RT)(LT)	—	—	—	—	—	54	4,006
L343PC (LT)	—	—	—	46	6,458	48	3,987
DKTF 99 SC (RT)	—	—	—	39	1,975	48	3,762
BY 6211 TF (RT)	—	—	—	42	920	49	3,511
DKLL 83 SC (LT)	—	—	—	49	1,591	49	2,569
DKTF 96 SC (RT)	—	43	31	39	6,732	55	2,263
45CM39 (RT)	48	43	33	39	2,194	46	2,166
B1030N (RT)	—	—	—	48	1,892	43	1,855
L359HPC (LT)	—	—	—	—	—	55	1,490
P505MSL (LT)	—	—	43	43	2,184	55	1,470
L234PC (LT)	52	45	39	50	1,784	54	1,300
P516L (LT)	—	—	—	—	—	51	1,260
PV 761 TM (RT)	—	—	19	—	—	39	1,252
L258HPC (LT)	—	46	41	45	1,772	51	1,231
L255PC (LT)	54	47	42	46	4,979	58	1,228
P506ML (LT)	—	—	36	42	1,131	50	1,160
B3010M (LT)	—	37	38	40	2,269	53	1,094
INVIGOR L345PC (LT)	—	51	41	43	6,261	50	964
CS4000 LL (LT)	—	—	—	—	—	50	933
B4015 (RT)	—	—	—	—	—	42	924
V25-5T (RT)	—	—	—	—	—	50	901
P514CL (ST)	—	—	—	—	—	49	846
P612L (LT)	—	—	—	—	—	51	815
BY 6217TF (RT)(LT)	—	—	—	—	—	39	778
BY 6204 TF (RT)	—	—	—	34	2,339	57	726

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L230 (LT)	45	47	—	—	—	56	688
P515G (RT)	—	—	—	—	—	45	668
P508MCL (ST)	—	—	35	39	2,887	44	642
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						52.9	187,504

SOYBEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S001-D8X (RR2X)	—	—	—	—	—	40	3,793
NSC DAUPHIN RR2X (RR2X)	—	—	—	—	—	26	1,813
P001A48X (RR2X)	—	—	29	—	—	39	1,357
S0009-M2 (RT)	33	37	37	—	—	39	989
P000A24E	—	—	—	—	—	33	601
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						35.9	10,886

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	88	92	73	82	8,481	93	5,908
AAC CONNECT	97	98	76	82	6,728	95	3,988
AAC SYNERGY	91	94	82	92	4,470	110	3,427
CDC CHURCHILL	—	—	—	—	—	90	830
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						96.0	17,015

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CS CAMDEN	117	114	78	116	5,298	100	1,692
SUMMIT	99	100	59	124	2,773	99	1,379
CDC ARBORG	—	124	75	121	3,400	117	1,178
CDC ENDURE	—	—	—	129	725	128	889
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						106.5	6,383

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



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FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 7	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC LEWOCHKO	—	—	57	53	2,335	60	3,846
AAC ABERDEEN	—	—	—	—	—	67	2,271
AAC CHROME	—	70	51	59	2,095	63	2,082
AAC CARVER	60	68	47	48	4,710	54	2,080
AAC PROFIT	—	—	—	—	—	63	732
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						62.8	12,432

RISK AREA 8

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC VIEWFIELD EXP (RS)	65	74	59	79	96,335	65	101,247
AAC WHEATLAND (RS)	—	—	57	82	21,498	70	22,688
AAC HOCKLEY (RS)	—	—	—	70	1,026	68	20,710
AAC BRANDON (RS)	63	69	60	73	10,127	65	5,862
SY MANNESS (RS)	—	—	—	—	—	66	3,636
AAC REDBERRY (RS)	63	57	43	58	3,890	46	3,621
CARDALE (RS)	65	65	61	72	2,675	61	2,492
AAC TISDALE (RS)	—	60	48	69	3,882	58	2,009
SY GABBRO (RS)	—	—	56	68	2,189	60	1,675
AAC STARBUCK (RS)	—	—	57	85	2,234	73	1,435
CDC LANDMARK (RS)	66	66	50	75	1,625	48	851
AAC REDSTAR (RS)	—	—	—	—	—	58	532
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						65.4	171,756

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L356PC (LT)	—	—	—	50	29,907	55	53,853
L340PC (LT)	—	—	40	49	52,568	52	47,478
L255PC (LT)	54	47	39	47	61,560	53	24,423
L350PC (LT)	—	—	—	—	—	53	21,693
P505MSL (LT)	—	—	38	48	5,298	53	8,009
P506ML (LT)	—	—	40	44	2,901	51	5,602
L258HPC (LT)	—	—	43	50	3,298	55	5,439
L343PC (LT)	—	—	—	48	3,573	54	4,339
DK900TF (RT)(LT)	—	—	—	—	—	45	4,137
L233P (LT)	50	42	35	46	5,800	52	4,069
L234PC (LT)	54	45	35	41	9,406	52	3,829
BY 6217TF (RT)(LT)	—	—	—	—	—	42	3,180
DKTF 99 SC (RT)	—	—	34	46	5,783	52	2,445
45CM39 (RT)	47	37	34	36	2,475	53	2,392
P612L (LT)	—	—	—	—	—	52	2,326
1028 RR (RT)	—	36	32	36	1,249	44	1,433
44H44 (RT)	—	—	38	27	676	43	1,285
PV 781 TCM (RT)	—	—	—	—	—	42	1,219
PV 761 TM (RT)	—	—	33	—	—	43	1,003
LR354PC (RT)(LT)	—	—	—	—	—	43	963
DKTF 97 CRSC (RT)	—	—	32	38	5,645	37	928
INVIGOR L345PC (LT)	—	50	32	44	4,961	53	776
PV 660 LCM (LT)	—	—	—	—	—	47	760
DK901TF (RT)(LT)	—	—	—	—	—	42	578
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						52.1	210,855

SOYBEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S001-D8X (RR2X)	—	—	36	42	7,594	45	17,059
NSC WARREN RR (RT)	—	—	32	35	3,547	43	4,334
S0009-M2 (RT)	35	42	36	41	2,910	31	740
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						43.7	26,265

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	102	100	68	91	2,376	91	4,997
AAC SYNERGY	—	113	53	—	—	78	1,076
ROBUST	—	—	—	—	—	25	596
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						78.4	7,484

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
SUMMIT	88	89	63	97	3,032	60	886
TRIPLE CROWN	—	—	—	—	—	102	818
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						83.4	3,915

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 8	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC CHROME	—	74	45	64	5,079	57	5,297
CDC INCA	—	69	45	52	2,766	55	2,969
AAC CARVER	—	—	38	52	1,973	54	1,868
ABARTH	65	61	38	64	2,829	56	510
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						55.3	11,981

RISK AREA 9

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC BRANDON (RS)	58	65	49	56	75,284	60	87,148
AAC WHEATLAND (RS)	—	—	54	65	24,645	60	38,078
AAC VIEWFIELD EXP (RS)	68	71	52	66	34,644	60	36,282
AAC STARBUCK (RS)	—	—	44	61	17,044	58	29,870
AAC REDBERRY (RS)	56	66	47	54	28,617	62	28,319
AAC HOCKLEY (RS)	—	—	—	—	—	69	11,203
CARDALE (RS)	55	64	45	55	9,499	62	10,348
BOLLES (RS)	66	70	49	60	10,200	58	10,254
EMERSON (W)	43	—	52	46	2,448	55	6,534
CS ACCELERATE (PS)	—	85	50	56	3,130	59	5,699
AAC WILDFIRE (W)	—	—	—	—	—	61	5,637
AAC HODGE (RS)	—	—	—	—	—	63	5,565
AAC TISDALE (RS)	44	56	40	54	2,399	53	2,745
FALLER (NHR)	75	76	57	76	5,700	66	2,249
AAC ELIE (RS)	60	64	40	58	1,414	54	2,011
GLENN (RS)	53	50	43	48	1,436	54	1,754
CDC BUTEO (W)	40	55	49	46	1,295	49	1,591
CDC STANLEY (RS)	53	62	37	53	3,508	36	1,522
SY MANNESS (RS)	—	—	—	—	—	70	1,440
AAC LEROY VB (RS)	—	—	50	54	1,769	61	1,090
AAC CAMERON VB (RS)	58	62	43	54	1,894	50	875
CDC PLENTIFUL (RS)	59	65	53	59	1,665	62	820
CDC ORTONA (RS)	—	—	48	52	964	51	665
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						60.0	300,845

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	32	47	45,671	51	76,775
L233P (LT)	45	43	30	38	80,780	50	59,211
L356PC (LT)	—	—	—	43	12,487	51	31,704
L258HPC (LT)	42	41	31	37	22,223	49	28,128
INVIGOR L345PC (LT)	—	48	33	55	13,572	52	16,134
DKLL 83 SC (LT)	—	—	—	34	6,616	47	14,095
L357P (LT)	—	—	32	39	16,661	53	9,104
DKLL 84 CRSC (LT)	—	—	—	40	2,523	48	8,449
L350PC (LT)	—	—	—	—	—	52	8,268
DK900TF (RT)(LT)	—	—	—	—	—	52	7,614
DKTF 99 SC (RT)	—	—	29	43	7,936	46	7,491
P508MCL (ST)	—	—	27	33	3,348	48	7,313
45CM39 (RT)	54	52	34	45	5,018	51	7,096
B1030N (RT)	—	—	24	48	3,798	42	7,070
L343PC (LT)	—	—	—	47	5,063	54	6,363
1028 RR (RT)	58	39	30	43	6,124	42	6,151
DK901TF (RT)(LT)	—	—	—	—	—	48	5,917
L359HPC (LT)	—	—	—	—	—	45	5,530
P505MSL (LT)	—	—	36	38	2,514	54	4,970
B3012 (LT)	—	—	—	36	2,250	43	4,945
DKTF 96 SC (RT)	—	44	33	35	7,196	41	4,850
L234PC (LT)	54	49	34	48	6,085	49	4,654
DKLL 82 SC (LT)	—	42	27	33	19,727	45	3,130
BY 6217TF (RT)(LT)	—	—	—	—	—	41	2,998

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



CANOLA YIELDS BY VARIETY 2019-2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P514CL (ST)	—	—	—	—	—	47	2,416	
PV 280 CLC (ST)	—	—	—	—	—	47	2,392	
BY 5125 CL (ST)	—	—	33	27	2,187	43	2,139	
CS4000 LL (LT)	—	—	28	34	2,329	41	2,084	
DKTF 97 CRSC (RT)	—	—	22	39	5,113	45	1,799	
PV 761 TM (RT)	—	36	21	36	672	36	1,599	
V25-3T (RT)	—	—	—	42	850	38	1,587	
DK902TF (RT)(LT)	—	—	—	—	—	48	1,434	
P501L (LT)	49	46	34	34	1,455	52	1,418	
P612L (LT)	—	—	—	—	—	56	1,243	
L255PC (LT)	49	46	34	41	4,067	54	1,225	
CP21T3P (RT)	—	—	—	—	—	49	926	
B3017N (LT)	—	—	—	—	—	41	869	
DKTF 95 HL (RT)	—	—	22	—	—	46	799	
CS3100 TF (RT)(LT)	—	—	—	—	—	51	710	
PV 660 LCM (LT)	—	—	23	34	721	53	680	
BY 7102LL (LT)	—	—	—	—	—	42	665	
P506ML (LT)	—	—	32	31	2,495	58	643	
P515G (RT)	—	—	—	—	—	52	626	
BY 6211 TF (RT)	—	—	—	—	—	46	573	
PV 680 LC (LT)	32	—	—	—	—	36	568	
45H42 (RT)	—	—	36	47	631	50	558	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							48.9 380,819	

SOYBEAN YIELDS BY VARIETY 2019-2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S0009-M2 (RT)	25	37	32	39	17,963	40	22,751	
S001-D8X (RR2X)	—	—	32	42	4,870	41	16,587	
S007-Y4 (RT)	24	39	36	46	4,538	41	11,857	
NSC DAUPHIN RR2X (RR2X)	—	—	—	44	2,134	37	6,206	

SOYBEAN YIELDS BY VARIETY 2019-2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S003-R5X (RR2X)	—	—	—	—	—	41	5,486	
AKRAS R2 (RT)	23	36	34	42	2,850	39	5,361	
AMIRANI R2	—	—	30	40	3,890	36	3,978	
P001A48X (RR2X)	—	37	31	38	2,404	33	3,287	
DKB002-32 (RR2X)	—	40	31	—	—	40	2,670	
CP000621WPX (RR2X)	—	—	—	36	1,541	36	2,652	
SUNNA R2X (RR2X)	—	—	—	—	—	46	2,230	
DKB0009-89 (RR2X)	30	38	34	36	2,720	35	2,195	
DKB0008-87 RR2X (RR2X)	—	—	—	—	—	34	2,069	
B0012RX (RR2X)	—	—	—	37	706	32	1,925	
BRIGGS R2X (RR2X)	—	—	—	—	—	41	1,585	
YOUNG R2X (RR2X)	—	—	—	—	—	43	1,520	
NSC HOLLAND RR2X (RR2X)	—	—	—	—	—	50	1,508	
MERINO R2X (RR2X)	—	—	—	—	—	36	1,258	
MAJOR R2X (RR2X)	—	—	—	38	877	42	1,220	
P005A27X (RR2X)	—	—	—	—	—	44	1,095	
CP00121WPX (RR2X)	—	—	—	—	—	42	1,082	
S0009-F2X (RR2X)	—	—	—	—	—	44	951	
PV 28S001R2X (RR2X)	—	—	—	—	—	29	941	
P005A83X (RR2X)	—	—	—	—	—	34	845	
P002A42E	—	—	—	—	—	38	799	
TH 87003 R2X (RR2X)	—	—	—	—	—	39	772	
BY RUNDLE XT (RR2X)	—	—	—	—	—	35	565	
S0007-S1X (RR2X)	—	—	—	—	—	43	557	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							39.5 112,224	

CORN YIELDS BY VARIETY 2019-2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	—	128	88	—	—	134	1,414	
P6910AM (LT)(RT)	—	—	—	—	—	133	1,236	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							136.8 4,528	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



High Value Faller & Prosper Wheat

FALLER

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J.S.Henry and Son (204) 566-2422

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Miller Agritec (204) 267-2363

MGM Seeds (204) 362-8986

Pitura Seeds (204) 736-2849

Red River Seeds (204) 746-3059

Smith Family Seeds (204) 825-7810

Triple S Seeds (204) 638-2004

Murray Farms (204) 764-2733

PROSPER

LD Seeds (204) 204-0048

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Rutherford Farms (204) 467-5613

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2016 Seed MB Data

- ✓ **120% yield of CWRS**
- ✓ **FHB Resistance - Intermediate**
- ✓ **I-MR to Leaf & Stem Rust**
- ✓ **Lodging - Midrange**
- ✓ **1 day earlier than Carberry**
- ✓ **Semi Dwarf - 1" taller than Carberry**
- ✓ **Susceptible to Stripe Rust**

Yield MB 2016

Location	Yield (bushels)
Brandon	58
Faller	68
Prosper	70
Elgin - ND	61
Pasteur	63

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BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC AUSTENSON	79	82	51	75	11,333	74	13,098	
CELEBRATION	47	71	40	—	—	66	1,411	
CONLON	44	50	36	—	—	72	1,082	
AAC CONNECT	90	84	80	90	1,669	103	1,069	
CDC MAVERICK	—	—	25	56	748	64	971	
AAC SYNERGY	—	—	—	93	741	89	730	
AC METCALFE	80	85	48	42	2,339	60	682	
CLAYMORE	—	—	—	—	—	84	588	
ESMA	—	—	—	—	—	65	582	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						74.5	23,648	

OATS YIELDS BY VARIETY 2019–2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
SUMMIT	75	113	60	114	5,857	101	3,492	
CS CAMDEN	61	94	42	103	2,831	82	3,382	
AC MORGAN	101	94	43	116	1,609	59	1,415	
CDC HAYMAKER	50	101	24	61	967	43	1,259	
CDC ARBORG	—	125	68	134	4,746	74	863	
AAC DOUGLAS	—	—	—	64	527	96	814	
CDC BALER	54	85	31	93	756	70	726	
DOUGLAS	—	—	—	92	570	72	683	
ORE3541M	—	120	25	99	607	65	503	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						76.6	15,927	

FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CHROME	—	73	35	47	7,410	57	11,504	
AAC CARVER	—	52	42	58	3,356	59	4,853	
ABARTH	61	66	36	49	4,659	53	3,527	
CDC MEADOW	48	57	33	50	3,048	45	1,468	
CDC LEWOCHKO	—	—	—	—	—	40	1,358	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						54.4	25,777	

FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 9	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC SORREL	19	26	18	29	916	22	1,001	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						27.4	1,884	

RISK AREA 10

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	57	60	40	48	24,565	55	26,092	
AAC STARBUCK (RS)	—	—	41	52	8,289	56	14,287	
BOLLES (RS)	—	62	38	55	3,189	57	4,410	
FALLER (NHR)	59	68	52	26	1,511	58	3,310	
AAC WILDFIRE (W)	—	—	—	—	—	45	2,657	
AAC HOCKLEY (RS)	—	—	—	—	—	48	2,630	
AAC WHEATLAND (RS)	—	—	—	—	—	52	1,678	
AAC HODGE (RS)	—	—	—	—	—	47	1,141	
AAC LEROY VB (RS)	—	—	—	—	—	39	1,008	
EMERSON (W)	39	—	—	—	—	41	941	
SY MANNESS (RS)	—	—	—	—	—	48	803	
AAC GOLDRUSH (W)	—	—	—	—	—	38	765	
AAC ELIE (RS)	49	55	27	—	—	47	597	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						53.4	63,120	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	29	32	18,900	49	20,324	
L233P (LT)	43	44	29	33	31,479	46	14,237	
INVIGOR L345PC (LT)	—	46	28	34	5,272	50	3,516	
L356PC (LT)	—	—	—	28	2,177	47	2,903	
L350PC (LT)	—	—	—	—	—	49	2,731	
P505MSL (LT)	—	—	28	34	2,823	44	2,730	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
DKLL 83 SC (LT)	—	—	—	—	—	42	2,534	
L258HPC (LT)	48	36	28	31	1,823	53	1,790	
P508MCL (ST)	—	—	25	—	—	42	1,704	
B3012 (LT)	—	—	—	—	—	43	1,190	
L359HPC (LT)	—	—	—	—	—	45	893	
L357P (LT)	—	—	27	32	5,101	44	793	
DK900TF (RT)(LT)	—	—	—	—	—	33	779	
P501L (LT)	37	44	27	34	755	40	689	
B3017N (LT)	—	—	—	—	—	46	655	
DKLL 82 SC (LT)	—	39	31	27	3,722	36	608	
PV 661 LCM (LT)	—	—	—	—	—	40	605	
CS4000 LL (LT)	—	—	—	27	767	47	595	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						46.7	65,912	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P006A37X (RR2X)	28	39	25	40	4,534	38	10,957	
NSC HOLLAND RR2X (RR2X)	—	—	—	—	—	39	6,120	
SI 001XTN (RR2X)	—	—	21	33	1,082	32	5,283	
DKB006-80 (RR2X)	—	—	—	—	—	38	4,832	
PS 0027 RR (RT)	21	40	23	44	1,961	16	4,103	
P003A97X (RR2X)	—	37	26	37	2,768	29	3,303	
S007-Y4 (RT)	27	43	29	44	2,388	41	2,972	
KUDO R2X (RR2X)	—	36	23	27	1,271	31	2,621	
TH 87003 R2X (RR2X)	24	40	24	37	1,002	32	2,556	
B0041RX (RR2X)	—	—	—	34	1,005	32	2,480	
DKB002-32 (RR2X)	—	—	27	—	—	33	2,395	
TH82005 R2X (RR2X)	—	—	—	—	—	37	2,247	
S007-A2XS (RR2X)	—	—	33	—	—	29	2,247	
P005A27X (RR2X)	25	37	28	42	1,199	32	1,958	
SUNNA R2X (RR2X)	—	—	27	—	—	37	1,892	
LISKA	—	—	—	—	—	33	1,828	
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	32	1,773	
SI 00421XT (RR2X)	—	—	—	—	—	36	1,540	
S003-R5X (RR2X)	—	—	—	—	—	32	1,319	
S001-D8X (RR2X)	—	—	—	—	—	30	1,237	
BOURKE R2X (RR2X)	—	—	22	42	985	26	1,208	
AKRAS R2 (RT)	18	39	25	—	—	35	1,068	
MAKO R2X (RR2X)	—	—	—	—	—	36	1,059	
SI 00321XT (RR2X)	—	—	—	—	—	37	880	
SI 007XTN (RR2X)	—	—	25	—	—	34	740	
MERINO R2X (RR2X)	—	—	—	—	—	29	734	
NSC SPERLING RR2Y (RT)	—	—	27	46	1,259	38	723	
DKB006-29 (RR2X)	—	—	—	—	—	30	617	
DKB005-52 (RT)	29	39	29	38	1,895	30	606	
BARKER R2X (RR2X)	25	37	24	—	—	32	600	
P001A48X (RR2X)	—	—	—	32	648	36	590	
TH83004X (RR2X)	—	—	—	—	—	38	548	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						33.0	88,956	

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7455R (RT)	106	130	92	146	2,713	138	7,993	
P7211AM (LT)(RT)(HX1)(YG)	104	128	87	143	3,517	129	4,992	
P7844AM (LT)(RT)	—	—	—	158	1,386	134	4,563	
DKC31-85RIB (RT)(RIB)	—	—	126	186	937	154	4,457	
TH6278 VT2P (RT)(RIB)	—	—	—	147	1,461	133	4,061	
P7958AM (LT)(RT)(HX1)	122	134	115	160	1,603	133	3,424	
MZ 1544DBR (RT)	—	—	—	139	1,068	146	3,240	
P7211HR	120	—	82	142	2,122	138	3,040	
PV 61276 RIB (RT)(RIB)	—	—	—	—	—	126	3,036	
A4939G2 RIB (RT)(RIB)	130	143	125	157	1,384	116	2,970	
P7417AM (LT)(RT)(HX1)(YG)	105	119	97	137	3,136	143	2,592	
DKC21-36RIB (RT)(RIB)	—	—	—	140	770	129	2,459	
P7389AM (LT)(RT)	—	—	—	—	—	144	2,429	
TH 6977 VT2P (RT)	—	—	125	161	617	127	1,999	
P7527AM (LT)(RT)	115	128	89	143	3,396	138	1,966	
TH6182 VT2P (RT)(RIB)	—	—	—	—	—	153	1,600	
P7822AM (LT)(RT)	—	—	—	—	—	134	1,145	

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



CORN YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P7417R (RT)	—	—	106	145	852	126	865
DKC24-06RIB (RT)	—	—	116	142	860	134	863
DKC29-89RIB (LT)(RT)(RIB)	136	134	138	172	2,100	144	771
DKC28-25RIB (VT2P)(RIB)	—	—	—	—	—	144	742
TH6072 VT2P (RT)(RIB)	—	—	—	118	1,032	124	685
P7861R (RT)	—	—	68	132	570	59	592
P7822R (RT)	—	—	—	—	—	142	556
PV 61180 RIB (LT)(RT)	—	—	—	—	—	149	518
P8294AM (LT)(RT)	—	—	—	—	—	138	507
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						134.0	71,516

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	68	87	30	41	2,473	74	5,949
CONLON	64	73	53	57	4,013	69	3,805
ESMA	—	—	—	—	—	74	1,210
CELEBRATION	77	63	32	31	675	75	728
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						72.4	14,767

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
SUMMIT	91	115	52	86	15,055	103	5,039
CDC ARBORG	—	115	54	75	7,936	81	2,342
SOURIS	67	111	52	101	1,383	109	1,577
CDC ENDURE	—	—	—	84	767	114	1,376
ORE3542M	106	114	70	94	3,760	108	1,156
DOUGLAS	—	—	—	—	—	107	946
CS CAMDEN	98	106	63	94	8,197	88	531
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						101.1	14,551

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC CHROME	—	61	27	34	947	52	821
AAC PROFIT	—	—	—	—	—	49	644
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						49.7	3,083

DRY BEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
VIBRANT (PINTO)	1,030	2,593	1,263	635	2,425	2,121	5,062
T9905 (WHITE PEA)	957	1,854	1,191	1,841	3,587	2,163	3,255
WINDBREAKER (PINTO)	1,120	2,194	1,182	2,090	514	2,088	2,767
ECLIPSE (BLACK)	1,455	2,059	1,105	—	—	2,015	2,076
BL BLACK TAILS (BLACK)	—	—	—	—	—	2,099	688
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2062.5	15,494

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

SUNFLOWER YIELDS BY VARIETY 2019–2023†						RISK AREA 10	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P63HE60 (ET) (O)	—	1,942	1,951	1,162	3,142	2,897	2,527
N4HM354 (ST) (O)	—	2,696	2,302	1,737	1,256	3,007	2,053
6946 DMR (C)	—	2,716	—	—	—	3,049	1,898
P63ME80 (ET) (O)	—	—	2,061	1,964	1,469	2,222	1,479
P63HE501 (O)	—	—	—	—	—	2,692	1,252
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2788.0	10,042

RISK AREA 11

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC BRANDON (RS)	60	66	44	59	96,308	64	107,313
AAC STARBUCK (RS)	—	72	41	63	58,500	67	69,158
FALLER (NHR)	63	73	46	65	13,005	74	15,656
AAC LEROY VB (RS)	—	—	35	61	6,289	60	7,972
BOLLES (RS)	49	68	38	55	8,135	67	6,665
AAC WILDFIRE (W)	—	—	—	59	1,726	57	6,580
AAC HOCKLEY (RS)	—	—	—	—	—	61	5,608
AAC REDBERRY (RS)	38	51	32	49	2,189	49	4,645
AAC HODGE (RS)	—	—	—	—	—	61	3,278
AAC VIEWFIELD EXP (RS)	62	63	53	50	1,586	61	2,074
CDN BISON (OS)	—	—	—	—	—	74	1,967
CARDALE (RS)	54	65	34	47	1,900	57	1,941
AAC WHEATLAND (RS)	—	—	—	—	—	64	1,851
AAC ELIE (RS)	48	63	37	41	2,832	64	1,738
SY TORACH (RS)	—	—	19	—	—	42	1,593
AAC ELEVATE (W)	—	65	69	26	1,457	45	1,541
CDC SKRUSH (RS)	—	—	—	—	—	61	1,415
CARBERRY (RS)	25	55	24	61	1,902	57	717
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						64.3	245,808

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	23	37	36,330	51	42,107
L233P (LT)	36	40	18	36	43,953	51	28,515
L356PC (LT)	—	—	—	34	6,920	51	13,856
DKLL 82 SC (LT)	—	—	—	36	610	50	13,715
L350PC (LT)	—	—	—	—	—	49	9,343
INVIGOR L345PC (LT)	—	42	20	39	13,607	52	6,413
L258HPC (LT)	43	43	19	32	3,941	42	3,713
P505MSL (LT)	—	—	—	33	1,706	53	3,293
L357P (LT)	—	—	19	35	7,930	52	2,913
B1030N (RT)	—	—	—	20	1,076	46	2,216
B3012 (LT)	—	—	—	—	—	40	2,033
DKLL 82 SC (LT)	—	40	21	31	16,680	49	1,909
BY 6217TF (RT)(LT)	—	—	—	—	—	41	1,838
P508MCL (ST)	—	—	—	32	1,428	50	1,554

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



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CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L255PC (LT)	39	37	18	32	6,885	45	1,313	
L359HPC (LT)	—	—	—	—	—	54	1,313	
DK900TF (RT)(LT)	—	—	—	—	—	48	1,236	
DKLL 84 CRSC (LT)	—	—	—	—	—	45	1,164	
DKTF 96 SC (RT)	—	30	16	28	3,202	46	1,071	
CS3100 TF (RT)(LT)	—	—	—	—	—	54	978	
DKTF 99 SC (RT)	—	—	—	29	778	37	955	
B3017N (LT)	—	—	—	—	—	41	860	
PV 280 CLC (ST)	—	—	—	—	—	47	680	
L343PC (LT)	—	—	—	31	1,934	50	631	
B3010M (LT)	—	—	—	34	893	25	570	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							49.6	151,386

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P006A37X (RR2X)	30	45	24	48	5,879	46	13,974	
S007-A2XS (RR2X)	—	—	25	48	3,419	46	10,530	
S007-Y4 (RT)	25	41	24	42	7,292	42	10,273	
S003-R5X (RR2X)	—	—	—	—	—	37	8,104	
DKB006-80 (RR2X)	—	—	—	—	—	44	7,840	
NSC HOLLAND RR2X (RR2X)	—	—	—	45	1,911	45	7,674	
BOURKE R2X (RR2X)	—	42	19	42	4,955	41	5,458	
B0041RX (RR2X)	—	—	—	30	1,452	35	5,093	
DKB002-32 (RR2X)	—	42	22	42	3,014	39	4,783	
DKB005-52 (RT)	21	42	20	49	4,112	41	4,309	
TH 87003 R2X (RR2X)	23	39	21	43	4,993	40	4,266	
SI 007XTN (RR2X)	—	—	28	55	1,612	44	3,966	
KUDO R2X (RR2X)	—	—	20	—	—	41	3,828	
SI 001XTN (RR2X)	—	—	22	41	3,700	41	3,451	
TH82005 R2X (RR2X)	—	—	—	—	—	46	3,345	
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	44	3,289	
S001-D8X (RR2X)	—	—	—	36	1,549	32	3,117	
CP005WPRX (RR2X)	—	—	26	44	1,461	44	2,923	
SI 00421XT (RR2X)	—	—	—	—	—	44	2,919	
NSC WINKLER RR2X (RR2X)	—	41	28	60	1,056	49	2,336	
MERINO R2X (RR2X)	—	—	—	—	—	42	2,279	
S003-Z4X (RR2X)	—	—	17	40	3,183	39	2,184	
DKB006-29 (RR2X)	—	—	—	—	—	45	2,086	
MIKADO R2X (RR2X)	—	—	—	—	—	46	2,072	
P00A49X (RR2X)	32	44	31	47	1,045	45	2,039	
P003A97X (RR2X)	29	44	—	26	1,440	39	1,887	
SI 00221XTN (RR2X)	—	—	—	—	—	50	1,857	
NSC SPERLING RR2Y (RT)	33	43	25	51	5,033	52	1,636	
P001A48X (RR2X)	—	40	21	35	1,008	39	1,598	
BARKER R2X (RR2X)	22	40	19	—	—	38	1,437	
AMIRANI R2	—	—	19	—	—	38	1,370	
SIBERIA	26	35	17	—	—	37	1,228	
PV 22S002 R2X (RR2X)	—	—	—	—	—	42	1,120	
P005A27X (RR2X)	20	47	20	43	1,578	42	749	
S005-C9X (RR2X)	—	—	19	42	1,608	43	639	
YOUNG R2X (RR2X)	—	—	—	—	—	42	600	
TH83004X (RR2X)	—	—	—	—	—	52	588	
SI 00321XT (RR2X)	—	—	—	—	—	42	565	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							42.0	152,661

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7211AM (LT)(RT)(HX1)(YG)	97	116	66	140	4,778	143	8,248	
P7211HR	109	156	79	144	3,744	148	3,285	
P7455R (RT)	110	147	66	129	1,051	144	2,927	
DKC31-85RIB (RT)(RIB)	—	—	—	—	—	170	2,067	
P7958AM (LT)(RT)(HX1)	75	—	—	—	—	141	1,917	
DKC24-06RIB (RT)	—	—	81	172	750	157	1,827	
P7389AM (LT)(RT)	—	—	—	—	—	148	1,664	
DKC21-36RIB (RT)(RIB)	—	—	—	147	927	150	1,346	
MZ 1544DBR (RT)	—	—	—	—	—	146	949	
TH6072 VT2P (RT)(RIB)	—	—	—	—	—	137	947	
P7527AM (LT)(RT)	119	135	65	129	576	144	805	
E49K32 R (RT)(RIB)	—	—	—	—	—	158	668	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							145.0	36,014

BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC AUSTENSON	76	85	39	78	12,520	91	19,844	
CONLON	59	83	42	70	6,841	89	7,813	
ESMA	—	—	—	92	915	85	2,818	
CANMORE	81	88	45	58	3,933	95	2,745	
CLAYMORE	—	108	48	71	3,625	90	1,520	
CELEBRATION	53	74	29	69	848	87	1,423	
AAC SYNERGY	69	92	—	63	1,244	85	859	
AB CATTLELAC	—	—	—	—	—	63	650	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							89.4	39,561

OATS YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
SUMMIT	76	108	54	122	10,239	113	6,781	
CS CAMDEN	93	104	46	130	10,795	117	4,354	
CDC ENDURE	—	—	71	123	4,382	103	2,535	
CDC ARBORG	—	109	43	130	2,246	99	1,635	
DOUGLAS	—	—	—	154	875	137	1,197	
AAC DOUGLAS	—	—	—	163	639	128	918	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							110.4	18,690

FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC CARVER	52	55	21	50	4,153	61	4,772	
AAC CHROME	—	—	10	—	—	68	2,343	
CDC LEWOCHKO	—	—	41	47	860	53	1,576	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							61.4	9,838

DRY BEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
WINDBREAKER (PINTO)	926	2,035	1,109	2,463	7,006	2,127	8,430	
VIBRANT (PINTO)	1,102	2,264	957	2,377	6,869	2,463	7,304	
T9905 (WHITE PEA)	1,135	1,642	763	1,638	4,258	2,152	2,999	
ECLIPSE (BLACK)	1,318	1,828	1,362	2,637	2,187	2,247	1,870	
PINK PANTHER (KIDNEY)	807	2,465	895	—	—	2,515	1,641	
SV6139GR (PINTO)	1,321	1,830	1,082	—	—	2,575	685	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							2297.3	26,193

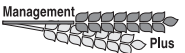
SUNFLOWER YIELDS BY VARIETY 2019–2023†							RISK AREA 11	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P63HE60 (ET) (O)	—	2,110	—	1,182	3,778	1,517	2,199	
6946 DMR (C)	1,900	2,368	853	—	—	1,964	1,836	
CP432E (O)	—	—	—	—	—	2,601	878	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							2052.8	7,188

RISK AREA 12

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	64	69	50	63	259,857	59	220,035	
AAC STARBUCK (RS)	—	77	48	68	143,239	61	144,741	
FALLER (NHR)	67	80	49	74	43,584	68	51,595	
AAC HOCKLEY (RS)	—	—	—	70	1,414	58	28,897	
PROSPER (NHR)	59	79	53	74	8,574	67	17,378	
AAC VIEWFIELD EXP (RS)	64	73	46	66	15,794	51	11,442	
SY MANNESS (RS)	—	—	—	—	—	46	7,851	
AAC LEROY VB (RS)	—	—	38	65	4,441	61	7,008	
SY ROWYN (PS)	67	80	49	73	11,248	71	6,918	
AAC HODGE (RS)	—	—	—	68	612	59	6,820	
CS ACCELERATE (PS)	—	—	65	61	3,945	36	6,812	
AAC WHEATLAND (RS)	—	—	64	63	3,772	72	5,527	
AAC PENHOLD (PS)	63	73	51	67	2,693	76	5,061	
SHELLY (NHR)	—	—	—	68	2,350	46	4,465	
CARDALE (RS)	61	69	48	66	5,848	57	4,033	
CS DAYBREAK (RS)	—	71	50	69	8,342	56	3,147	
SY GABBRO (RS)	—	72	34	72	7,180	49	2,911	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



WHEAT YIELDS BY VARIETY 2019-2023†						RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC WILDFIRE (W)	—	—	—	59	4,826	66	2,570
BOLLES (RS)	66	73	39	55	2,834	54	2,464
AC BARRIE (RS)	57	66	—	—	—	35	2,425
AAC BROADACRES (RS)	—	—	—	—	—	59	1,977
AAC ELIE (RS)	59	66	44	63	5,916	64	1,765
AAC TISDALE (RS)	56	70	55	64	1,933	36	1,622
SY CAST (RS)	—	—	41	56	2,056	69	1,548
SY TORACH (RS)	—	69	29	70	888	58	1,335
SHELLY (RS)	—	—	45	74	1,682	43	905
EMERSON (W)	61	71	54	51	3,966	63	894
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						60.2	555,425

CANOLA YIELDS BY VARIETY 2019-2023†						RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	23	50	99,432	50	122,031
L233P (LT)	48	48	27	48	189,518	50	111,852
L356PC (LT)	—	—	—	52	16,456	52	48,158
DKLL 83 SC (LT)	—	—	—	47	4,384	51	38,612
INVIGOR L345PC (LT)	—	50	26	46	55,988	51	29,294
L350PC (LT)	—	—	—	—	—	54	24,309
L258HPC (LT)	47	50	25	47	13,021	55	21,960
P508MCL (ST)	—	—	17	43	17,291	44	16,655
DKLL 82 SC (LT)	—	45	27	45	46,444	48	13,404
L357P (LT)	—	—	26	46	37,510	52	9,110
L255PC (LT)	48	47	26	43	21,365	51	8,304
L343PC (LT)	—	—	—	47	9,808	52	7,574
P505MSL (LT)	—	—	22	43	7,909	52	6,254
B3017N (LT)	—	—	—	—	—	47	4,935
BY 5125 CL (ST)	—	—	22	44	5,216	46	2,683
B2030MN (ST)	—	—	22	33	3,727	48	2,584
CS4000 LL (LT)	—	—	20	51	2,124	50	1,907
L359HPC (LT)	—	—	—	—	—	52	1,741
1028 RR (RT)	—	44	10	39	2,788	54	1,460
B3012 (LT)	—	—	—	—	—	51	1,345
DKLL 84 CRSC (LT)	—	—	—	—	—	50	1,309
PV 280 CLC (ST)	—	—	—	—	—	47	1,228
P514CL (ST)	—	—	—	—	—	51	976
DK900TF (RT)(LT)	—	—	—	—	—	51	930
P501L (LT)	44	46	31	48	2,909	50	886
45CM39 (RT)	—	41	7	—	—	49	748
LR354PC (RT)(LT)	—	—	—	—	—	45	700
P612L (LT)	—	—	—	—	—	52	654
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						50.6	493,239

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
 § Weighted Average Yield and Total Acreage include acres not reported in the table.
 ¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

SOYBEAN YIELDS BY VARIETY 2019-2023†						RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S007-A2XS (RR2X)	—	41	22	53	23,073	41	58,708
DKB006-80 (RR2X)	—	—	—	57	3,402	39	58,229
P006A37X (RR2X)	25	40	22	52	22,839	39	47,945
S007-Y4 (RT)	27	41	22	51	40,170	42	31,837
NSC WINKLER RR2X (RR2X)	26	40	29	54	17,283	36	26,413
NSC HOLLAND RR2X (RR2X)	—	—	24	54	6,788	34	19,229
DKB008-48 (RR2X)	—	—	26	54	12,540	39	18,724
SI 007XTN (RR2X)	—	—	28	51	11,199	39	17,329
P00A49X (RR2X)	24	42	33	56	8,359	42	17,057
TH 81007 R2XN (RR2X)	—	—	28	57	3,912	44	15,080
DKB006-29 (RR2X)	26	40	22	—	—	37	11,051
NSC SPERLING RR2Y (RT)	24	38	19	53	12,548	33	10,817
DKB005-52 (RT)	27	41	24	52	18,523	40	10,325
SI 00321XT (RR2X)	—	—	—	44	816	40	8,244
MAO R2X (RR2X)	—	—	34	55	3,001	42	8,020
TH 88007 R2X (RR2X)	28	42	27	53	5,597	38	8,013
S003-R5X (RR2X)	—	—	—	54	2,178	40	7,473
TH82005 R2X (RR2X)	—	—	—	58	1,502	42	7,325
DKB008-81 (RT)	—	—	30	56	3,480	45	6,783
DKB0008-87 RR2X (RR2X)	—	—	—	60	1,340	43	5,294
P00A75X (RR2X)	—	—	27	56	2,152	40	5,216
BOURKE R2X (RR2X)	—	43	18	57	3,503	37	5,100
B0041RX (RR2X)	—	—	—	58	1,746	42	4,746
P005A59E	—	—	—	54	1,170	39	4,737
CP005WPRX (RR2X)	—	—	32	48	3,221	35	4,704
LISKA	—	—	28	50	1,531	36	4,426
PV 16S004 R2X (RR2X)	21	40	26	51	2,772	29	4,177
PS 0027 RR (RT)	23	34	23	37	3,454	35	4,164
TH 87003 R2X (RR2X)	27	36	17	47	5,667	36	4,128
S005-C9X (RR2X)	—	39	19	54	4,409	31	3,705
HANA	—	39	34	—	—	34	2,868
KUDO R2X (RR2X)	—	39	22	49	1,205	35	2,584
P003A97X (RR2X)	26	43	21	47	1,937	34	2,517
MAYA	—	—	—	46	2,643	41	2,365
BADGER R2X (RR2X)	—	—	—	—	—	35	2,315
NSC CARTIER (RR2X)	—	38	21	55	3,894	35	2,310
BY RAINIER XT (RR2X)	—	—	—	—	—	26	2,288
ASTRO R2 (RT)	28	37	29	55	2,786	39	2,218
TH 82005 R2X (RR2X)	—	—	—	50	719	43	2,167
DKB002-32 (RR2X)	—	—	27	47	4,424	40	2,149
PV 22S002 R2X (RR2X)	—	—	—	55	751	28	2,105
MAKO R2X (RR2X)	—	—	—	—	—	39	1,984
DKB006-99 (RR2X)	29	43	—	—	—	37	1,887
SUNNA R2X (RR2X)	26	40	21	48	1,528	40	1,862

‡ On system as of January 5, 2024;
 * Assuming 48 lbs./bu.



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SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
OAC PRUDENCE	19	30	16	—	—	36	1,810	
AKRAS R2 (RT)	26	36	22	49	2,146	43	1,796	
SI 00421XT (RR2X)	—	—	—	—	—	37	1,762	
ELMO E3	—	40	33	50	1,877	41	1,692	
SI 001XTN (RR2X)	—	—	18	43	5,212	32	1,686	
RX ACRON (RR2X)	20	37	29	44	901	34	1,408	
P007A68E	—	—	—	—	—	38	1,393	
PV 25S005 R2X (RR2X)	—	—	—	—	—	36	1,367	
SI 00221XTN (RR2X)	—	—	—	44	715	44	1,271	
PV 26S007 R2X (RR2X)	—	—	—	—	—	33	1,251	
P005A83X (RR2X)	29	38	16	42	4,358	45	1,218	
DKB007-67 (RR2X)	—	—	—	—	—	38	1,158	
YOUNG R2X (RR2X)	—	—	—	—	—	39	1,088	
RICO R2X (RR2X)	—	—	—	—	—	38	1,068	
NSC COULLEE RR (RT)	—	42	35	55	938	38	1,060	
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	48	995	
MERRITT R2X (RR2X)	—	—	—	56	674	43	977	
CP000521X (RR2X)	—	—	—	—	—	36	975	
TH83004X (RR2X)	—	—	—	—	—	28	964	
MERINO R2X (RR2X)	—	—	—	—	—	45	912	
P001A48X (RR2X)	—	—	—	50	4,000	31	792	
DKB 0008-87 (RR2X)	—	—	22	—	—	38	787	
S003-Z4X (RR2X)	—	40	23	52	2,058	42	670	
TRIQUET R2X (RR2X)	—	—	—	—	—	40	601	
P005A27X (RR2X)	27	39	22	49	1,505	37	596	
TH82008XF (RR2X)	—	—	—	—	—	30	596	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						38.8	529,856	

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
DKC31-85RIB (RT)(RIB)	—	153	129	185	12,804	148	27,516	
P7455R (RT)	122	141	98	161	16,315	133	24,947	
TH 6977 VT2P (RT)	133	139	107	169	6,994	141	12,768	
P7844AM (LT)(RT)	—	—	—	165	3,780	137	11,784	
P7527AM (LT)(RT)	128	131	96	161	14,493	140	11,032	
TH6278 VT2P (RT)(RIB)	—	—	—	166	7,078	141	10,917	
P7211AM (LT)(RT)(HX1)(YG)	105	141	71	156	9,361	137	8,881	
P8588AM (LT)(RT)	—	—	139	181	9,801	146	8,533	
DKC29-89RIB (LT)(RT)(RIB)	124	139	117	167	6,579	138	6,682	
P7822AM (LT)(RT)	—	—	—	—	—	143	6,367	
DKC33-37RIB (RT)(RIB)	—	—	141	182	6,472	146	6,135	
DKC21-36RIB (RT)(RIB)	—	—	48	162	2,769	130	5,444	
TH6182 VT2P (RT)(RIB)	—	—	—	176	1,805	157	5,234	
PV 61276 RIB (RT)(RIB)	—	—	—	167	3,219	143	5,221	
DKC24-06RIB (RT)	—	—	83	164	8,939	138	5,211	
P7211HR	118	120	51	142	3,313	135	3,598	
PV 61180 RIB (LT)(RT)	117	121	135	181	1,370	141	3,289	
P7389AM (LT)(RT)	—	—	—	—	—	135	3,208	
TH6380 VT2P (RT)(RIB)	—	—	—	—	—	148	2,985	
P7417AM (LT)(RT)(HX1)(YG)	—	131	114	165	5,350	149	2,330	
DKC35-29RIB VT2P (VT2P)(RIB)	—	—	—	—	—	162	2,131	

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† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

CORN YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P7958AM (LT)(RT)(HX1)	131	150	112	150	5,768	135	1,869	
P7861AM (LT)(RT)(HX1)(YG)	—	126	125	165	6,544	132	1,868	
MZ 1544DBR (RT)	—	—	—	—	—	136	1,860	
TH 6982 VT2P (RT)	121	122	133	157	2,554	121	1,696	
255 (RT)	—	—	—	—	—	141	1,647	
DKC33-78RIB (RIB)	139	156	121	184	3,058	136	1,534	
E49K32 R (RT)(RIB)	—	—	—	161	777	155	1,265	
P7822R (RT)	—	—	—	—	—	138	1,235	
TH 6875 VT2P (RT)(RIB)	—	128	—	139	1,034	133	1,027	
DKC28-25RIB (VT2P)(RIB)	—	—	—	—	—	138	1,019	
TH6072 VT2P (RT)(RIB)	—	—	—	144	512	124	940	
P7861R (RT)	—	132	106	158	2,708	141	866	
DKC32-49RIB (VT2P)(RIB)	—	—	—	—	—	156	861	
A4939G2 RIB (RT)(RIB)	133	119	127	160	1,189	170	740	
NS 271 (RT)	—	—	—	158	845	160	740	
P7417R (RT)	—	123	108	172	1,357	142	733	
P8537AM (LT)(RT)	—	—	—	173	739	156	650	
DKC36-86RIB (RT)(RIB)	—	—	—	—	—	166	650	
TH6079 VT2P (RT)(RIB)	—	143	128	170	1,891	122	577	
DKC32-92 (RIB)	—	—	—	—	—	150	554	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						141.3	209,016	

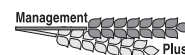
BARLEY* YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC AUSTENSON	96	96	31	89	8,282	85	9,819	
AAC SYNERGY	86	93	65	82	8,212	77	7,832	
CONLON	78	96	55	86	11,799	84	7,410	
ESMA	—	—	62	100	2,845	103	6,640	
AAC CONNECT	—	102	63	86	2,469	101	5,020	
CLAYMORE	—	—	—	—	—	108	1,040	
NEWDALE	95	92	75	76	838	56	731	
TRADITION	77	67	—	81	821	62	569	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						87.8	43,831	

OATS YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
SUMMIT	117	143	76	140	95,564	100	44,783	
CS CAMDEN	108	141	71	146	50,612	108	20,098	
CDC ENDURE	—	—	95	144	29,334	101	9,792	
AAC DOUGLAS	—	—	58	151	4,113	134	9,097	
ORE3542M	125	144	67	147	22,351	98	7,051	
DOUGLAS	—	—	—	148	890	123	5,158	
CDC ARBORG	135	136	84	148	4,957	119	2,759	
SOURIS	116	134	56	129	3,143	98	1,662	
CDC MORRISON	84	117	68	—	—	67	1,310	
ORE3541M	124	143	69	154	5,881	119	1,185	
CDC HAYMAKER	95	129	52	97	1,268	124	564	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						106.7	107,246	

FIELD PEA YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC LEWOCHKO	—	—	21	53	1,861	54	4,324	
AAC CHROME	—	67	26	58	7,617	44	2,618	
AAC CARVER	54	58	28	57	8,011	57	2,196	
4010	45	53	—	—	—	31	1,095	
AAC DELHI	—	—	—	78	787	40	823	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						48.5	13,324	

DRY BEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
WINDBREAKER (PINTO)	1,263	2,535	1,052	2,668	11,954	2,019	16,874	
VIBRANT (PINTO)	1,459	2,288	1,294	2,518	14,534	1,889	14,932	
ECLIPSE (BLACK)	1,182	1,993	787	2,443	4,581	1,660	2,737	
CRIMSON (CRANBERRY)	1,759	2,630	1,162	2,661	1,371	1,984	2,410	
BL BLACK TAILS (BLACK)	—	2,273	1,980	2,405	2,496	1,709	2,335	
T9905 (WHITE PEA)	1,241	2,185	946	2,665	1,607	1,786	2,107	
SV6139GR (PINTO)	1,662	2,028	888	3,016	608	1,964	1,247	
MYSTIC (PINTO)	—	—	—	—	—	2,134	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						1915.6	44,801	

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



SUNFLOWER YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
P63ME80 (ET) (O)	2,183	—	1,717	2,127	10,029	2,800	8,061	
P63HE60 (ET) (O)	—	2,480	1,543	2,399	6,883	1,989	4,000	
CP455E (O)	—	—	—	—	—	2,806	3,361	
6946 DMR (C)	2,286	2,758	2,059	1,605	1,029	2,361	3,291	
P63M80 (O)	1,991	—	2,485	2,396	3,731	2,443	2,352	
PANTHER DMR (C)	1,801	2,549	—	—	—	1,512	2,345	
P63HE501 (O)	—	—	—	2,024	582	2,683	2,193	
N4HM354 (ST) (O)	2,161	2,557	1,817	—	—	2,363	1,705	
CP432E (O)	—	—	—	2,374	652	2,663	1,380	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2456.6	29,805	

FLAX YIELDS BY VARIETY 2019–2023†							RISK AREA 12	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
CDC ROWLAND	—	—	9	38	2,337	19	1,513	
CDC GLAS	29	38	14	40	5,148	30	1,182	
AAC MARVELOUS	—	—	10	39	519	16	711	
CDC NEELA	18	43	19	34	1,259	36	675	
AAC BRAVO	—	37	16	30	587	19	585	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						22.6	6,180	

RISK AREA 14

WHEAT YIELDS BY VARIETY 2019–2023†							RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
AAC BRANDON (RS)	60	59	57	57	27,322	61	25,398	
AAC VIEWFIELD EXP (RS)	69	77	72	68	20,172	74	19,919	
FALLER (NHR)	69	74	68	69	7,787	73	10,442	
AAC STARBUCK (RS)	—	—	58	59	9,757	69	8,450	
AAC ELIE (RS)	68	73	82	70	4,342	79	3,537	
AAC GATEWAY (W)	63	—	72	73	3,582	65	2,621	
AAC PENHOLD (PS)	61	65	59	58	2,177	76	2,568	
GLENN (RS)	74	80	75	78	1,647	72	2,299	
AAC HOCKLEY (RS)	—	—	—	—	—	68	2,251	
AAC LEROY VB (RS)	—	—	57	59	1,678	68	1,676	
SY CAST (RS)	—	—	—	48	1,335	49	1,597	
AAC WILDFIRE (W)	—	—	—	—	—	61	1,112	
CARDALE (RS)	57	64	57	60	1,211	75	1,096	
CARBERRY (RS)	42	54	61	—	—	54	940	
AAC HODGE (RS)	—	—	—	—	—	65	871	
BOLLES (RS)	—	73	56	48	996	60	781	
CS DAYBREAK (RS)	—	—	56	59	1,549	66	530	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						67.9	88,461	

CANOLA YIELDS BY VARIETY 2019–2023†							RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
L340PC (LT)	—	—	26	46	15,361	56	17,119	
L356PC (LT)	—	—	—	42	2,275	55	9,141	
L233P (LT)	48	38	28	45	12,915	53	8,324	
INVIGOR L345PC (LT)	—	36	30	44	10,117	51	6,020	
DKLL 83 SC (LT)	—	—	—	46	2,089	52	5,124	
L350PC (LT)	—	—	—	—	—	55	3,645	
B2030MN (ST)	—	—	—	—	—	58	832	
PV 660 LCM (LT)	—	—	22	44	1,252	39	816	
L258HPC (LT)	—	—	23	—	—	40	710	
L343PC (LT)	—	—	—	38	1,508	53	679	
PV 280 CLC (ST)	—	—	—	—	—	46	633	
L255PC (LT)	48	33	28	38	4,522	34	597	
DKLL 82 SC (LT)	—	37	26	40	6,049	46	558	
P505MSL (LT)	—	—	—	43	941	48	541	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						53.1	57,573	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S007-A2XS (RR2X)	—	—	37	45	6,237	48	13,622	
DKB006-80 (RR2X)	—	—	—	—	—	47	9,952	
P006A37X (RR2X)	34	39	35	40	6,500	46	9,673	

SOYBEAN YIELDS BY VARIETY 2019–2023†							RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres	
S007-Y4 (RT)	31	40	33	41	11,785	44	6,973	
LS 0036RR (RT)	28	37	34	42	3,326	41	4,896	
DKB005-52 (RT)	34	44	34	43	6,428	42	4,709	
SI 007XTN (RR2X)	—	—	40	43	2,373	46	4,256	
P005A83X (RR2X)	—	42	35	42	1,896	43	3,302	
B0041RX (RR2X)	—	—	—	—	—	46	3,068	
DKB006-29 (RR2X)	—	—	—	—	—	49	3,059	
S0009-M2 (RT)	31	36	31	35	2,878	42	2,938	
NSC WINKLER RR2X (RR2X)	—	—	41	42	530	45	2,845	
SI 00321XT (RR2X)	—	—	—	—	—	49	2,450	
PV 16S004 R2X (RR2X)	—	35	31	34	1,332	41	2,437	
SI 001XTN (RR2X)	—	—	34	33	4,649	42	2,420	
NSC HOLLAND RR2X (RR2X)	—	—	—	41	936	46	2,380	
OAC PRUDENCE	—	23	—	25	1,040	29	2,298	
MERINO R2X (RR2X)	—	—	—	—	—	46	2,232	
TH 87003 R2X (RR2X)	34	36	36	39	3,796	44	2,201	
DKB002-32 (RR2X)	—	—	33	37	4,342	33	2,021	
TH 81007 R2XN (RR2X)	—	—	—	—	—	41	1,655	
MAO R2X (RR2X)	—	—	—	37	1,540	38	1,645	
P00A49X (RR2X)	40	40	44	—	—	38	1,616	
NSC SPERLING RR2Y (RT)	28	38	31	43	2,559	43	1,612	
TH82005 R2X (RR2X)	—	—	—	—	—	47	1,537	
SI 00421XT (RR2X)	—	—	—	—	—	43	1,465	
S003-R5X (RR2X)	—	—	—	—	—	49	1,448	
P005A59E	—	—	—	—	—	50	1,200	
DKB008-48 (RR2X)	—	—	—	—	—	41	1,124	
SUNNA R2X (RR2X)	—	—	—	43	674	45	755	
MAKO R2X (RR2X)	—	—	—	—	—	41	687	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						44.0	129,435	

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† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

‡ On system as of January 5, 2024;
* Assuming 48 lbs./bu.



CORN YIELDS BY VARIETY 2019–2023†						RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P7455R (RT)	119	—	113	140	1,850	150	4,740
P7844AM (LT)(RT)	—	—	—	169	902	166	3,001
P7527AM (LT)(RT)	131	111	110	140	914	151	2,934
P7211AM (LT)(RT)(HX1)(YG)	113	120	113	138	2,261	157	2,924
DKC29-89RIB (LT)(RT)(RIB)	—	128	126	—	—	170	1,592
P7861AM (LT)(RT)(HX1)(YG)	—	126	111	132	965	143	1,537
DKC24-06RIB (RT)	—	—	115	107	975	131	1,413
DKC21-36RIB (RT)(RIB)	—	—	—	—	—	158	1,307
TH6278 VT2P (RT)(RIB)	—	—	—	—	—	154	1,114
P7822AM (LT)(RT)	—	—	—	—	—	188	886
P7574AM (LT)(RT)	—	—	—	—	—	160	807
TH 7677 VT2P RIB (RT)(RIB)	—	—	—	—	—	149	571
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						156.0	30,395

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC AUSTENSON	89	72	59	74	1,055	95	2,494
ESMA	—	—	—	—	—	95	1,732
AAC SYNERGY	89	77	64	72	1,924	103	1,441
CONLON	81	60	—	—	—	71	670
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						89.2	7,034

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CS CAMDEN	102	111	89	127	11,794	130	5,934
SUMMIT	99	90	76	109	9,884	104	3,314
CDC ENDURE	—	—	—	130	2,657	137	2,921
ORE3542M	105	106	68	106	2,219	112	531
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						119.2	13,911

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
¶ For additional characteristic codes, see the key at the end of the Risk Area tables.

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC CARVER	—	32	—	65	1,045	57	800
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						51.6	1,402

SUNFLOWER YIELDS BY VARIETY 2019–2023†						RISK AREA 14	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
P63ME80 (ET) (O)	1,810	—	2,339	1,883	1,964	2,575	1,317
P63HE501 (O)	—	—	—	—	—	2,604	647
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2643.3	3,577

RISK AREA 15

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC BRANDON (RS)	50	63	29	37	14,504	59	22,393
AAC HOCKLEY (RS)	—	—	—	—	—	59	12,639
AAC STARBUCK (RS)	—	—	35	38	7,775	61	11,547
CS DAYBREAK (RS)	—	73	—	48	3,256	55	10,051
AAC VIEWFIELD EXP (RS)	56	73	35	35	8,490	63	8,345
FALLER (NHR)	54	79	37	48	2,182	63	7,277
AAC GOLDRUSH (W)	—	—	—	—	—	55	2,915
SY TORACH (RS)	—	77	37	40	2,461	70	1,769
AAC LEROY VB (RS)	—	—	36	—	—	46	1,569
CDC HUGHES (RS)	—	—	37	—	—	58	1,459
SY MANNESS (RS)	—	—	—	—	—	59	1,378
AAC WILDFIRE (W)	—	—	—	—	—	67	1,138

‡ On system as of January 5, 2024;
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WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC STANLEY (RS)	34	52	19	—	—	43	730
EMERSON (W)	—	—	—	14	1,082	47	562
CARDALE (RS)	53	59	31	36	681	48	531
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						58.9	90,246

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L340PC (LT)	—	—	18	24	8,014	51	16,669
L233P (LT)	39	40	13	23	6,842	46	13,492
P505MSL (LT)	—	—	15	19	2,758	50	4,198
L356PC (LT)	—	—	—	29	1,655	57	3,504
INVIGOR L345PC (LT)	—	43	19	24	4,997	50	3,440
1028 RR (RT)	32	31	9	24	4,950	43	2,852
PV 280 CLC (ST)	—	—	—	—	—	49	1,879
DKLL 82 SC (LT)	—	36	18	18	7,207	42	1,824
PV 760 TM (RT)	—	—	4	—	—	31	1,444
B3017N (LT)	—	—	—	—	—	44	1,359
45CM39 (RT)	—	52	11	6	875	27	1,263
DKLL 83 SC (LT)	—	—	—	—	—	49	1,204
B3012 (LT)	—	—	—	—	—	38	1,028
L357P (LT)	—	—	21	29	3,074	44	969
L350PC (LT)	—	—	—	—	—	51	934
PV 200 CL (ST)	30	24	15	—	—	45	851
B1030N (RT)	—	—	12	—	—	42	824
L255PC (LT)	39	43	20	18	1,887	49	716
B2030MN (ST)	—	—	18	15	571	34	662
L343PC (LT)	—	—	—	—	—	65	659
CS3100 TF (RT)(LT)	—	—	—	—	—	45	545
PV 660 LCM (LT)	—	—	20	—	—	54	520
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						46.8	67,262

SOYBEAN YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
S007-Y4 (RT)	22	36	28	30	9,786	46	13,997
P001A48X (RR2X)	—	38	27	32	2,393	44	6,544
S003-R5X (RR2X)	—	—	—	—	—	48	3,946
PV 22S002 R2X (RR2X)	—	—	—	—	—	37	3,700
YOUNG R2X (RR2X)	—	—	—	25	1,309	44	3,525
S007-A2XS (RR2X)	—	—	—	—	—	53	2,870
B0012RX (RR2X)	—	—	—	34	710	43	2,049
P006A37X (RR2X)	24	31	—	—	—	47	1,985
NSC WARREN RR (RT)	—	—	—	—	—	29	1,913
HART R2X (RR2X)	—	—	30	32	1,054	45	1,713
S0009-M2 (RT)	22	35	23	32	1,997	45	1,634
S0009-F2X (RR2X)	—	—	—	24	1,257	46	1,594
TH 87003 R2X (RR2X)	—	—	14	—	—	45	1,532
NSC ARDEN RR2X (RR2X)	—	—	—	—	—	45	1,466
DKB002-32 (RR2X)	—	—	26	27	944	45	1,336
P003A97X (RR2X)	—	37	24	27	1,856	47	1,167
PV 16S004 R2X (RR2X)	—	—	—	—	—	31	936
PS 0027 RR (RT)	18	31	29	—	—	39	908
NSC DAUPHIN RR2X (RR2X)	—	—	—	—	—	30	768
FRESCO R2X (RR2X)	—	—	—	—	—	33	690
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						41.8	67,818

BARLEY* YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
RICHER	—	—	—	—	—	95	2,910
CDC AUSTENSON	67	82	31	38	1,651	68	2,460
CELEBRATION	29	—	35	—	—	50	1,390
CDC MAVERICK	—	—	—	—	—	26	517
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						78.6	11,175

OATS YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CS CAMDEN	91	113	37	77	6,974	112	9,794
CDC ARBORG	—	128	44	88	2,215	82	2,190
CDC ENDURE	—	—	—	99	1,269	111	1,918
SUMMIT	76	103	28	65	869	120	1,350
AAC DOUGLAS	—	—	—	100	1,065	125	1,228
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						103.2	18,738

FIELD PEA YIELDS BY VARIETY 2019–2023†						RISK AREA 15	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
CDC LEWOCHKO	—	—	19	40	1,100	61	1,062
AAC CHROME	—	63	20	33	662	79	755
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						67.7	2,707

RISK AREA 16

WHEAT YIELDS BY VARIETY 2019–2023†						RISK AREA 16	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
AAC REDBERRY (RS)	—	46	63	69	6,807	55	7,584
CDC LANDMARK (RS)	66	33	57	71	1,857	56	2,364
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						56.6	12,224

CANOLA YIELDS BY VARIETY 2019–2023†						RISK AREA 16	
Variety¶	2019 Yield	2020 Yield	2021 Yield	2022 Yield	2022 Acres	2023 Yield	2023‡ Acres
L234PC (LT)	—	—	30	51	2,780	55	4,545
45CM39 (RT)	—	—	—	—	—	54	2,938
L340PC (LT)	—	—	—	—	—	58	2,531
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						53.4	17,593

ADDITIONAL CHARACTERISTICS KEY

WHEAT

(D)	Durum
(HWS)	Hard White Spring
(NHR)	Northern Hard Red
(OS)	Other Spring
(PS)	Prairie Spring
(RS)	Red Spring
(W)	Winter

SUNFLOWER

(C)	Confectionary
(O)	Oilseed
(ST)	Clearfield
(ET)	ExpressSun

CANOLA AND SOYBEAN

(LT)	Liberty Link (LL) - (Glufosinate Ammonium); Invigor varieties
(RT)	Roundup Ready - (Glyphosate Tolerant)
(RR2X)	Xtend - (Glyphosate and Dicamba Tolerant)
(ST)	Pursuit Smart, Odyssey (Imazethapyr) (~IMI); Clearfield varieties

CORN

(HX1)	Herculex insect protection gene
(LT)	Liberty Link (LL) - (Glufosinate Ammonium); Invigor varieties
(RIB)	Single bag blend for non-Bt refuge compliance
(RT)	Roundup Ready - (Glyphosate Tolerant)
(ST)	Pursuit Smart, Odyssey (Imazethapyr) (~IMI); Clearfield varieties
(YG)	YieldGard

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
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Catellier Seed Service Inc.....	56
Corteva Agriscience	37, 41, 51
Court Seeds	56
Efficiency Manitoba	45
Ens Quality Seed	56
Fisher Seeds Ltd.	56
FMC Canada	15
Friesen Seeds	19, 56
Horizon Agro Inc.	56
James Frms Ltd.	57
Keating Seed Farms Inc.	57
KWS Seeds Canada	2
Manness Seeds	52
Miller Agritec Inc.	57
Nadeau Seeds Inc.	57
Pitura Seed Service	57
Pride Seeds	59
RJP Seed Ltd.	57
R-Way Ag Ltd.	57
Sanders Seed Farm.....	57
Scoular Canada Ltd.	53
SeCan	9, 60
Seed Depot Corp.	23, 35, 39, 43, 47, 49, 54, 57
SeedNet Inc.....	24
Seine River Seed Farm	57
Sierens Seed Service	58
Sissons Farms Ltd.	58
Syngenta	31
Unger Seed Farm Ltd.	58
Wheat City Seeds	58
Willowdale Seeds	58

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Unger Seed Farm Ltd.

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141 comparisons	Dry T/Acre*	Milk/Acre	% Dry Matter
PRIDE Seeds AS1047RR EDF	7.5	23342	32.4
Competition Leading Products	6.9	21537	34.1
Difference	0.6	1805	-1.7

* Values shown in dry tons per acre

All product images shown are AS1047RR EDF

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The performance data included is from internal field testing comparing similar maturity PRIDE and competitive products. Performance may vary from location to location and from year to year, as local growing, soil, and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields. PRIDE Seeds makes no guarantees and provides no warranties on the performance of PRIDE Seeds' products. Always read and follow IRM, where applicable, grain marketing, stewardship practices, and pesticide label directions. PRIDE® and the PRIDE Seeds Design® are registered trademarks of AgReliant Genetics Inc. and its affiliated companies.
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