

yield

2019

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Correspondence may be addressed to:
400 - 50 24th St. NW, Portage la Prairie, MB R1N 3V9
Doug Wilcox, Ph.D., P.Ag.
Manager, Research Administration
Phone: 204-239-3269 Fax: 204-239-3401
dwilcox@masc.mb.ca
www.masc.mb.ca www.mmpp.com

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Management Plus program a pioneer in the Big Data field

A pilot project that began 25 years ago turned crop insurance data submitted by farmers into a more valuable resource

By Allan Dawson, Manitoba Co-operator staff

Long before ‘Big Data’ was a thing or cell phones existed, and the internet was in its infancy, there was the Manitoba Management Plus Program.

This year marks its 25th anniversary and *Yield Manitoba 2019* is the 20th edition of the glossy version of the annual magazine that summarizes and adds context to some of the Management Plus data available online (https://www.masc.mb.ca/masc.nsf/mmpp_index.html).

“We’ve been providing ‘Big Data’ since before people knew what Big Data was,” says Doug Wilcox, manager of research administration at the Manitoba Agricultural Services Corporation

(MASC), which administers the federal-provincial crop insurance program and Management Plus.

Management Plus is the biggest and most comprehensive crop yield database in Manitoba and perhaps the world, Wilcox said.

Norm Mabon, the retired Manitoba Agriculture farm management specialist who championed the program’s creation, agrees. After all Management Plus is based on yield, fertilizer and other information supplied by every Manitoba farmer enrolled in crop insurance, covering more than 90 per cent of the province’s 10 million or so acres of crop production.

“It’s not a sample we’re doing here, it’s the



PHOTO: REPUBLICA/ISTOCK/GETTY IMAGES

whole population,” said Mabon, who farms near Notre Dame du Lourdes in an interview Dec. 11, 2018. “That makes all the difference (when it comes to accuracy).”

By accessing the Management Plus Yield Data Browser (https://www.masc.mb.ca/masc.nsf/mmpp_browser_variety.html) farmers, researchers and agronomists can dig deep into Manitoba crop yields going back to 1993.

They can find the average yields for insured crops province-wide and break them down to specific risk areas or municipalities.

(To protect individual farmers’ privacy, no data is reported unless it comes from at least 500 acres and three different farmers.)

They can get that same information by variety too.

Farmers can then compare their yields with others in the same area and province-wide.

That’s a powerful tool, Wilcox says.

“Any business needs to benchmark for success,” he said. “Whether you’re a car dealership or whatever, you want to compare yourself to the neighbours. Are you doing as well or better than the neighbours? If not, what do you need to improve?”

Things like Management Plus and *Yield Manitoba* allow you to do that. The average yield in my RM (rural municipality) is X and I am above or below that. Then you ask why and whether you need to do anything differently.”

Management Plus and *Yield Manitoba* are also great ways to assess varieties, says Pilot Mound farmer and seed grower Walt Smith, part of Seed Depot, the seed company founded by his late father John Smith.

“*Yield Manitoba* is a great tool,” Smith said in a recent interview. “I usually have five or six copies kicking around the office.”

Smith credits *Yield Manitoba* with vindicating Seed Depot’s feed barley, Conlon. Not long after Conlon was commercialized, *Seed Manitoba*, an annual magazine that publishes variety evaluation trials, including yields, showed Conlon yielding 90 per cent of the check variety.

“But *Yield Manitoba* showed it out yielded the check by five to 10 per cent (based) on real farm data, which was what we were seeing on our farm,” Smith said.

According to Smith, Conlon yields were lower in some trials because it heads earlier than other barleys and suffered predation at some test sites, which skewed the yield results.

“It just goes to show you how valuable that data is to tell you how a variety is performing,” he added. “When you break it down by the risk

area you can see if that average is accurate or not because maybe it was just one area that had a really good yield.

“*Seed Manitoba* does a great job, but it’s nice to have another set of data to back up *Seed Manitoba*. It’s nice to see long-term trends. As a seed grower it’s nice to see how many acres are being planted of crop types.”

(*Seed Manitoba* provides important data on new varieties, which because they are new, haven’t been grown widely and therefore little or no data is available through Management Plus.)

Most precision agriculture companies offer aggregated yield information to their customers based on data collected from other customers, but they have a long way to go to match Management Plus, says Smith.

“It’s (Management Plus) a far superior resource to anything that’s out there...” he said, because it

We’ve been providing ‘Big Data’ since before people knew what big data was.”

— Doug Wilcox

includes data from almost every Manitoba farmer, including those close farming under similar conditions.

Although Management Plus has been operating since 1995, it began as a modest pilot project led by Mabon in the RM of Lorne in 1993 with funding from the Canada-Manitoba Farm Business Management Council, Wilcox said.

Around 200 farmers took part and only a few crops were covered.

Some of the early reporting involved coloured maps to illustrate the data.

“We had the latest technology and we were going to use it,” Mabon said. “But what farmers were most interested in were the numbers on the back.”

Mabon and his colleagues at MASC (then the Manitoba Crop Insurance Corporation, the Crown agency administering crop insurance) realized they were on to something.

The corporation had been collecting crop yields and other agronomic data from farmers since crop insurance was rolled out in 1960. Meanwhile, farmers’ paperwork was increasing with the introduction of the Gross Revenue Insurance Plan (GRIP) in 1991.

Continued on next page

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(GRIP insured a percentage of a farmer's gross revenue. While crop insurance insured against a production-related drop in yield and/or grade, GRIP, which ended in 1995, also insured against a drop in market prices.)

"It got to the point where they (farmers) didn't want to provide it (data) because they didn't see the value of it," Neil Hamilton, who retired as MASC's general manager in 2017, said in an

"If they (farmers) see something goofy, we can correct it..." he said.

Hamilton agrees. Farmers also think twice about misrepresenting their data because they may well rely on it in the future, he says.

MASC also does random audits to verify the data, Wilcox said.

Around the time GRIP started, Manitoba Agriculture launched a massive program to teach farmers how to accurately measure their bins, Mabon said. That resulted in more accurate production reporting too.

In 1995, very few people were connected to the internet, especially in rural areas. The Pew Research Center found only 14 per cent of American adults were online then. Most were using dial-up modems and only three per cent had signed on to the World Wide Web.

That's why *Yield Manitoba*—a partnership between the *Manitoba Co-operator* and MASC—was created.

Although rural dwellers still generally suffer poor internet service, it is generally much better than 25 years ago. But Wilcox says *Yield Manitoba* is still valuable making summarized information quickly available, along with stories, tables and graphs that provide context to the data.

"I think people find value in that," he said.

A lot about agriculture has changed since the 1993 pilot project. Farmers are now using auto-steer, yield mapping, genetically modified crops, variable rate technology, precision planters and so much more.

"Yield Manitoba is a great tool. I usually have five or six copies kicking around the office."

— Walt Smith

interview. "Then we came up with this notion if we can package this in a way that's meaningful to them, and give the data back, they'll see what the point of this is and be quite happy to participate."

It worked.

GRIP resulted in a jump in farmers enrolling in crop insurance, which made the yield and other data collected even more accurate and meaningful.

Farmers enrolled in crop insurance continue to receive annually a five-year summary of what crops they grew on each of their fields.

Wilcox believes those reports also improve the accuracy of the data.

Table 1: CURRENT MANITOBA CANOLA, RED SPRING WHEAT, CORN YIELDS COMPARED TO 25 YEARS AGO

Crop	Nitrogen	Phosphorus	Potassium	Sulphur	Average Yield Bushels/Acre	Percentage Yield increase
Canola						
2015-17 average pounds per acre	104.8	33.9	7.3	16.7	43	
1993-95 average pounds per acre	76.8	29.1	4	8.4	24	+80
Pounds per acre increase	28	4.8	3.3	8.3		
Percentage increase	36.5	16.5	82.5	98.8		
Wheat						
2015-17 average pounds per acre	94.6	33.8	8.8	4.6	56	
1993-95 average pounds per acre	65.2	29.6	2.8	1.5	28	+102
Pounds per acre increase	29.4	4.2	6	3.1		
Percentage increase	45	14.2	214.3	206.7		
Corn						
2015-17 average pounds per acre	131.2	39	22.2	9.5	139.3	
1993-95 ave pounds	88.2	34.4	30.2	6.6	59.9	+133
Pounds per acre increase	43	4.6	-8.2	2.9		
Percentage increase	48.75	13.4	-26.5	43.9		

SOURCE: Manitoba Agricultural Services Corporation's (MASC) Management Plus webpage and necessary calculations

In 1995, Management Plus listed 15 wheat varieties and 40 canolas; in 2018 there are 35 wheats, a 133 per cent increase, and 78 canolas, up 95 per cent.

Management Plus data show on average, Manitoba fertilizer use is up and along with crop yield.

Manitoba red spring wheat averaged 56 bushels an acre 2015 to 2017, double the 28-bushel average recorded between 1993 and 1995. (See Table)

During the same period average nitrogen applications on wheat jumped 45 per cent.

Canola and corn yields went up 80 and 133 per cent, respectively.

Nitrogen on canola and corn rose 37 and 49 per cent, respectively

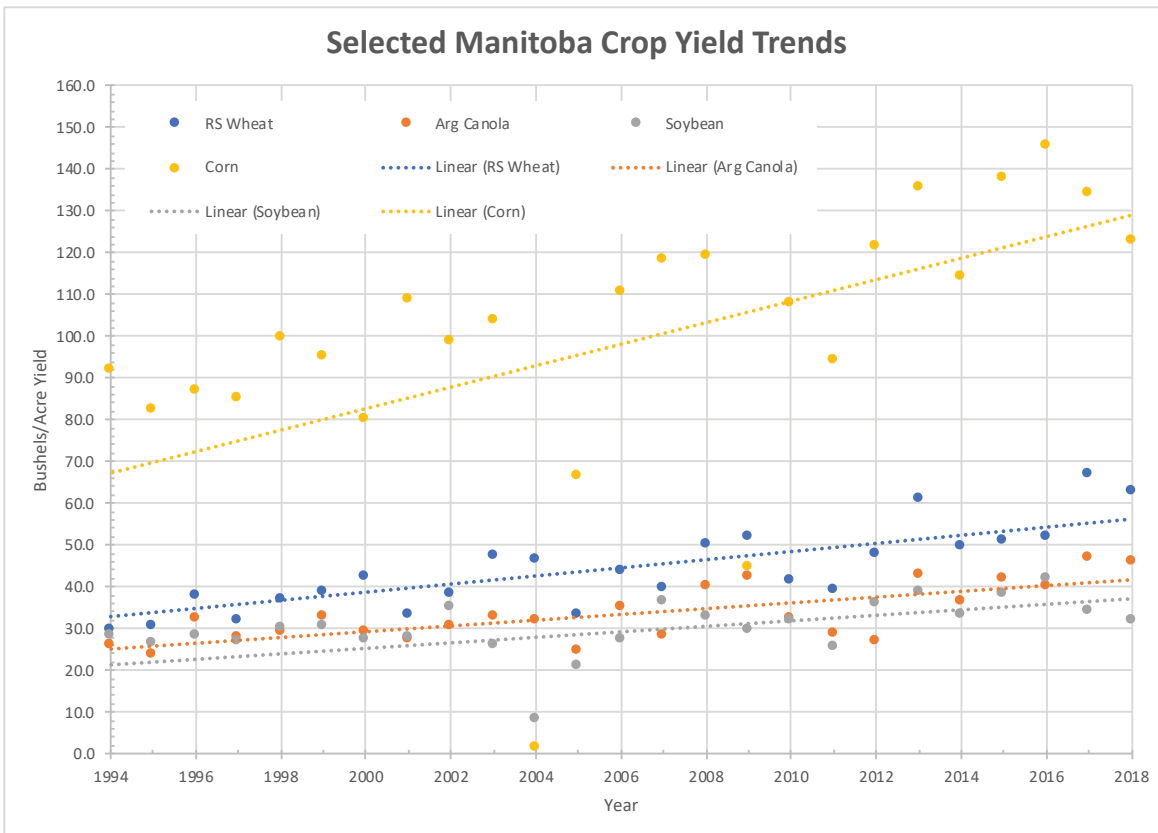
The jump in yields, based on the trend line using average yields from 1993 to 2017 for wheat, canola and corn are a bit lower at 81, 54 and 86 per cent, respectively. (See graph below)

Mabon, Wilcox and Hamilton say working to create Management Plus was an important career highlight.

“I have nothing but positive to say about Management Plus,” Hamilton said. “It brought value to the farmer and helped us get better value out of something we had always been doing.”



PHOTOS: AVALON_STUDIOS/E+/GETTY IMAGES



Source: Doug Wilcox, Manitoba Agricultural Services Corporation

Many Manitoba crops yielded above 10-year average in 2018

For most farmers another bumper crop turned out to be a pleasant surprise — AGAIN!

By Allan Dawson, Manitoba Co-operator staff

Manitoba farmers harvested their sixth bumper crop in a row in 2018, despite the hot summer weather and another year of scant rainfall.

Oxforddictionaries.com defines a bumper crop as “exceptionally large, fine, or successful.” The 2018 crop fits the definition.

Of the 13 Manitoba crop yields analyzed for this story, nine exceeded the provincial 10-year average, two — soybeans and winter wheat — were below average, and two — non-oil and oil sunflowers — set new yield records.

Not every farmer had a bountiful harvest.

Yields were below average for many crops in a few municipalities.

As of this writing Jan. 10, MASC had not wrapped up all its 2018 crop insurance claims, however, an official said the corporation expects it will have collected more money in premiums than it will pay in claims.

With a bit more rain, the potential was there for record-breaking yields a second year in a row, says Timi Ojo, Manitoba Agriculture’s Provincial Meteorology Specialist

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Table 1: 2018 YIELDS OF SELECTED INSURED MANITOBA CROPS

Crop	2018 Yield bushels/acre	2017 Yield bushels/acre	% change	10- year average	% change	New Record in 2018	Previous Record Yield	Year of Previous Record
Argentine Canola	46	47	-2	38	+21	No	47	2017
Red Spring Wheat	63	67	-6	51	+24	No	67	2017
Winter Wheat	56	61	-8	65	-14	No	72	2016
Northern Hard Red Wheat*	72	80	-10	67	+7	No	80	2017
Soybeans	32	34	-6	36	-11	No	42	2016
Barley	75	86	-13	65	+15	No	86	2017
Oats	100	129	-22	98	+2	No	129	2017
Grain Corn	123	133	-8	121	+2	No	123	2017
Field Peas	49	53	-8	40	+23	No	53	2017
Flax	27	29	-7	23	+17	No	29	2017
White Pean Beans	1,815 lbs/acre	1,995 lbs/acre	-9	1,701	+7	No	2,214	2012
Non-oil Sunflowers	2,261 lbs/acre	2,123 lbs/acre	+7	1,517	+49	Yes	2,192	2012
Oil Sunflowers	2,329 lbs/acre	1,966 lbs/acre	+18	1,652	+41	Yes	2,059	2013

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

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

These data were from a MASC database containing 99.9 per cent of the aggregated yield information submitted by crop insured Manitoba farmers in late 2018. To protect farmers' privacy MASC doesn't make public yields unless they come from at least three farmers with fields of at least 500 acres. Yields from pedigreed seed and organic production are not included in this table. Yields reported on MASC's Management Plus webpage (https://www.masc.mb.ca/masc.nsf/mmpp_browser_variety.html) are subject to revision and may differ from this table.

TABLE 2: SUMMARY OF BEST AND WORST 2018 YIELDS FOR SELECTED INSURED MANITOBA CROPS

Crop	2018 Yield bushels per acre	Variety	Rural Municipality	Acres	Percentage share
RED SPRING WHEAT					
Highest average yielding variety province wide	73	AC Stettler	Province-wide	5,607	0.2
Highest average yielding variety in a municipality	88	AAC Viewfield	Lorne	708	1.5
Highest average yield by municipality	79	All varieties	Hanover	9,231	
Lowest average yield by municipality	27	All varieties	West Interlake	1,446	
Highest acre variety province-wide	64	AAC Brandon	Province-wide	1.6 million	67
WINTER WHEAT					
Highest average yielding variety province wide	69	CDC Falcon	Province-wide	1,571	5
Highest average yielding variety in a municipality	73	Emerson	Brokenhead	1,627	5
Highest average yield by municipality	74	All varieties	Cartier	919	
Lowest average yield by municipality	33	All varieties	Glenella-Lansdowne	500	
Highest acre variety province-wide	56	Emerson	Province-wide	15,209	45
NORTHERN HARD RED WHEAT					
Highest average yielding variety province wide	74	Prosper	Province-wide	29,744	19
Highest average yielding variety in a municipality	92	Prosper	Emerson-Franklin	2,011	32
Highest average yield by municipality	89	All varieties	Louise, Riding Mountain West	3,460, 3,424	
Lowest average yield by municipality	40	All varieties	Riverdale	681	
Highest acre variety province-wide	75	Faller	Province-wide	124,147	80
ARGENTINE CANOLA					
Highest average yielding variety province wide	51	6080 RR Brett Young, L255PC INVIGOR	Provincial-wide	7,002, 131,360	0.2, 4
Highest average yielding variety in a municipality	62	6074 RR Brett Young	Oakview	755	0.2
Highest average yield by municipality	54	All varieties	Roblin	72,140	
Lowest average yield by municipality	14	All varieties	Grahamdale	4,363	
Highest acre variety province-wide	48	L233P Bayer	Province-wide	1,192,833	38
SOYBEANS					
Highest average yielding variety province wide	43	24004RR Thunder	Province-wide	1,204	0.7
Highest average yielding variety in a municipality	52	P002A63R Pioneer	Lorne	1,038	5
Highest average yield by municipality	44	All varieties	Whitmouth	10,741	
Lowest average yield by municipality	15	All varieties	Grahamdale	5,498	
Highest acre variety province-wide	33	S007-Y4 RR2Y Syngenta	Province-wide	223,384	13
BARLEY					
Highest average yielding variety province wide	84	AAC Synergy, Canmore	Province-wide	19,792, 9,448	9, 4
Highest average yielding variety in a municipality	103	AAC Synergy	Emerson-Franklin	1,624	55
Highest average yield by municipality	97	All varieties	Tache	2,805	1
Lowest average yield by municipality	27	All varieties Grahamdale	735	574	
Highest acre variety province-wide	78	CDC Austenson	Province-wide	51,141	22
OATS					
Highest average yielding variety province wide	119	Triactor	Province-wide	1,019	0.3
Highest average yielding variety in a municipality	153	Souris	Louise	710	19
Highest average yield by municipality	146	All varieties	Reynolds	1,030	
Lowest average yield by municipality	30	All varieties	Alonsa	2,041	
Highest acre variety province-wide	106	CS Camden	Province-wide	155,485	40
GRAIN CORN					
Highest average yielding variety province wide	155	P8542AM Pioneer	Province-wide	553	0.2
Highest average yielding variety in a municipality	173	DKC35-88RIB DeKalb	Stanley	644	3
Highest average yield by municipality	152	All varieties	Stanley	18,200	
Lowest average yield by municipality	51	All varieties	Stuartburn	806	
Highest acre variety province-wide	132	DKC33-78RIB DeKalb	Province-wide	55,580	16
FIELD PEAS					
Highest average yielding variety province wide	63	Abarth	Province-wide	9,012	12
Highest average yielding variety in a municipality	73	CDC Meadow	Swan River West	1,893	21
Highest average yield by municipality	70	All varieties	Roblin	4,975	
Lowest average yield by municipality	27	All varieties	Riverdale	2	908
Highest acre variety province-wide	45	CDC Amarillo	Province-wide	18,799	26
FLAX					
Highest average yielding variety province wide	29	CDC Sorrel, CDC Glas, Westlin	Province-Wide	5,858, 7,001, 1,124	19, 23, 4
Highest average yielding variety in a municipality	40	CDC Sorrel	St. Andrews	598	100
Highest average yield by municipality	51	All varieties	Louise	580	
Lowest average yield by municipality	21	All varieties	Cartier, Deloraine-Winchester	2,525, 905	
Highest acre variety province-wide	23	CDC Bethune	Province-wide	6328	21
SUNFLOWERS (oil)					
Highest average yielding variety province wide	2,781 lbs/acre	P63ME70 Pioneer	Province-wide	5,560	20
Highest average yielding variety in a municipality	3,299 lbs/acre	P63ME70 Pioneer	Springfield	965	34
Highest average yield by municipality	3,120 lbs/acre	All varieties	Rhineland	635	
Lowest average yield by municipality	1,809 lbs/acre	All varieties	Argyle	1,743	
Highest acre variety province-wide	1,950 lbs/acre	Talon Nuseed	Province-wide	6,449	23
WHITE PEA BEANS					
Highest average yielding variety province wide	1,865 lbs/acre	T9905	Province-wide	14,367	74
Highest average yielding variety in a municipality	2,447 lbs/acre	All varieties	Glenboro-South Cypress	530	77
Highest average yield by municipality	2,348 lbs/acre	All varieties	Glenboro-South Cypress	685	
Lowest average yield by municipality	1,613 lbs/acre	All varieties	North Cypress-Langford	510	
Highest acre variety province-wide	1,865 lbs/acre	T9905	Province-wide	14,367	74

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

These data were from a MASC database containing 99.9 per cent of the aggregated yield information submitted by crop insured Manitoba farmers in late 2018. To protect farmers' privacy MASC doesn't make public yields unless they come from at least three farmers with fields of at least 500 acres. Yields from pedigree seed and organic production are not included in this table. Yields reported on MASC's Management Plus webpage (https://www.masc.mb.ca/masc.nsf/mmp_browser_variety.html) are subject to revision and may differ from this table.

“If we’d had very similar moisture that we had in 2014 and 2015, 2018 would’ve been the best year ever on record because we had the heat in 2018,” Ojo said in a December interview. “We had a warm spring and an early start to the summer. We were actually clocking 20 per cent above normal heat units. It’s been awhile to have seen such numbers.”

Agro-Manitoba experienced its warmest May, June and July in almost a decade, Ojo said. But it started to cool down in late August and temperatures were below average the rest of the fall right up to mid-December.

While the pace of spring seeding in 2018 was similar to 2017, harvest started sooner. By the second week of September, Manitoba

continued to slide, totalling just under 43,000, down 25 per cent from 2017 and a long way below the 10-year average of 96,000. (See Table 3).

The highest-yielding municipal oil sunflowerers averaged a remarkable 3,120 pounds on 635 acres in Rhineland in the southern Red River Valley.

CANOLA

Above average yields for many crops in 2018 came as delightful surprise.

The provincial average canola yield, at 46 bushels an acre, almost matched the record of 47 set just last year.

It was a great year for canola in the municipality of Roblin in northwest Manitoba. It had the highest average canola yield of any municipality at 54, based on almost 72,000 acres of production.

The variety with the highest average yield in a municipality, 62 bushels an acre, was Brett Young’s 6074 RR in Oakview. However, the acreage was small at 755 acres.

The most popular canola variety grown on almost 1.2 million acres was Bayer’s L233P averaging 48 bushels an acre province-wide.

Insured canola acres of 3.1 million were up 100,000 acres from 2017 and the 10-year average. Canola remained Manitoba’s biggest acreage crop in 2018.

RED SPRING WHEAT

MASC’s red spring wheat category, which consists of wheat in Canada’s premier Canada Western Red Spring wheat class, was the second most planted crop at 2.4 million acres — up 400,000 acres from 2017 and nine per cent higher than the 10-year average.

Red spring wheat averaged 63 bushels an acre — only four bushels under the record set in 2017 and well above the 10-year average of 51.

The variety with the highest average yield in a municipality was AAC Viewfield at 88 bushels an acre in Lorne located above the escarpment in south-central Manitoba. However, it was from just 708 acres. Still, all red spring yield varieties grown on 46,000 acres in Lorne averaged a remarkable 75 bushels an acre.

Hanover municipality in southeastern Red River Valley had the highest municipal average yield of 79 bushels an acre on 9,200 acres.

Those yields are more common to Canada Northern Hard Red (CNHR) varieties.

*Oxforddictionaries.com defines a bumper crop as
“exceptionally large, fine, or successful.”*

The 2018 crop fits the definition.

Agriculture estimated 67 per cent of Manitoba’s crop was in the bin compared with 58 per cent in 2017. Then rain delayed harvest. By the third week of October an estimated 84 per cent of the crop was off versus 93 per cent the year before.

This analysis is based on 99.9 per cent of insured farmers’ yield data having been tabulated by the Manitoba Agricultural Services Corporation (MASC).

Readers can access some of the yield and variety data through MASC’s Manitoba Management Plus Program (https://www.masc.mb.ca/masc.nsf/mmpp_browser_variety.html).

The data reported here is subject to change and could vary with what’s online.

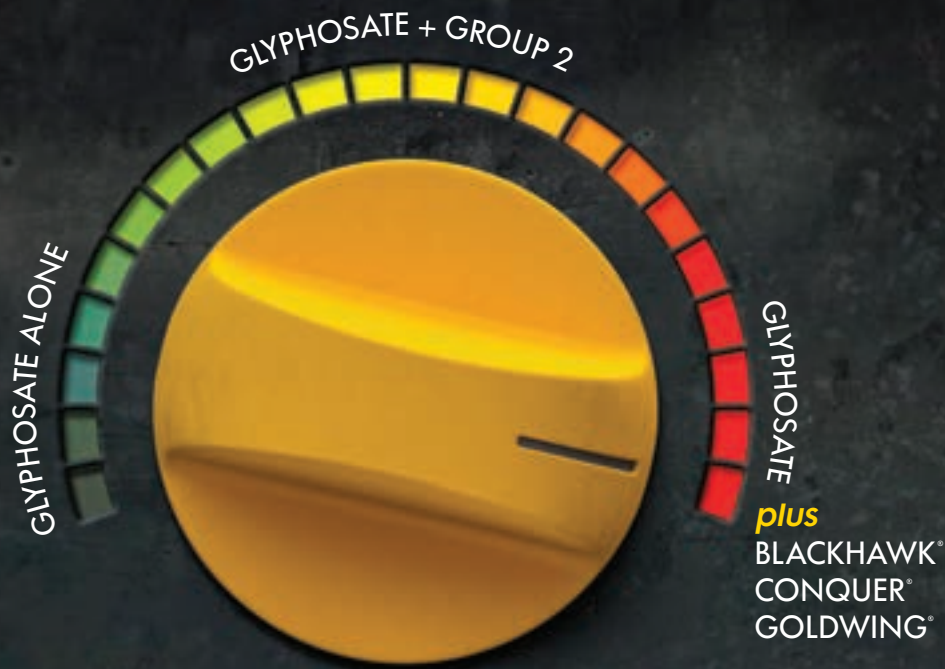
SUNFLOWERS

Sunflowers need heat and are known to dig deep for moisture and nutrients so the fact that average yields set new records doesn’t come as complete surprise. While all plants need moisture to thrive, wet conditions can raise the risk of disease, resulting in reduced yields.

Non-oil and oil sunflowers in Manitoba averaged 2,261 and 2,329 pounds an acre, respectively, up seven and 18 per cent from the records set in 2012 and 2013.

Sunflowers yielded well, but insured acres con-

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NORTHERN HARD RED

The Feed Wheat category is now called Other Spring Wheat and no longer includes varieties such as Faller and Prosper — CNHR wheats that make up most of the varieties in MASC's Northern Hard Red category.

Northern Hard Red wheats averaged 72 bushels an acre, nine bushels higher than the Red Spring Wheat average.

There were some remarkable yields when broken down by variety and municipality (See Table 2)

For example, the highest yielding Northern Hard Red wheat variety in a municipality was Prosper, averaging 92 bushels an acre on 2,000 acres in Emerson-Franklin in the southern Red River Valley.

Faller, the most popular Northern Hard Red wheat grown on more than 124,000 acre averaged 75 bushels an acre provincially.

SOYBEANS

Dry weather, especially at the end of July and early August took its toll (see below) on soybeans. The 2018 provincial average yield was 32 bushels an acre, down from 34 in 2017, which is also the 10-year average.

Still there were pockets of excellent yields, probably where there was more moisture, especially at the critical reproductive stage.

The municipality of Whitemouth in eastern Manitoba recorded the highest average soybean yield — 44 bushels on almost 11,000 acres.

Lorne had the highest yielding soybean variety, Pioneer's P002A63R, at 52 bushels on 1,038 acres.

GRAIN CORN

Grain corn, another late maturing crop, averaged 123 bushels an acre province-wide, down 10 bushels from 2017 and just slightly above the 10-year average of 121.

Insured grain corn acres were down 10 per cent from 2017 to 350,000. Still, that's 42 above the 10-year average.

Grain corn kept its fifth place ranking in harvested acres. (See Table 3)

It wasn't the greatest year for corn. The crop averaged 114 bushels an acre in Roland municipality, the heart of Manitoba's corn belt.

However, just to southwest in Stanley the average on more than 18,000 acres was 152.

Stanley also had the highest yielding variety, DeKalb's DKC35-88RIB, averaging 173 bushel on 644 acres.

WINTER WHEAT

Winter wheat averaging just 56 bushels an acre, down from 61 in 2017 and below the 10-year average of 65, didn't fare as well as spring wheat due largely to winter kill.

Emerson, the most popular variety grown on 15,000 acres averaged 56 bushels.

The variety did much better in Brokenhead municipality averaging 73 bushels on 1,600 acres.

Acreage also continues to decline. In 2018 almost 34,000 insured winter wheat acres were harvested, down 32 per cent from 2017 and well below the 10-year average of 264,000. (See Table 3)

Winter wheat remained Manitoba's 12th biggest acreage crop.

"If we'd had very similar moisture that we had in 2014 and 2015, 2018 would've been the best year ever on record because we had the heat in 2018."

— Timi Ojo

OTHER CROPS

Oats, barley, field peas and flax averaged 100, 75, 49 and 27 bushels an acre in 2018.

White pea beans averaged 1,815 pounds an acre.

While those yields were all down from 2017, they were well above the 10-year average. (See Table 1)

OTHER HIGHLIGHTS

There were exceptional yields in the municipalities of Lorne, Emerson-Franklin and Roblin.

Lorne had the highest yielding Hard Red Spring wheat variety, AAC Viewfield, averaging 88 bushels an acre.

Lorne also had the highest yielding soybean by variety — Pioneer's P002A63R, at 52 bushels.

And while Lorne's corn yield at 128 bushels an acre wasn't the highest among municipalities, it was above the provincial average and some yields in Manitoba's corn belt.

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Timely rains no doubt were a factor, but corn and soybeans are relatively new crops for Lorne, which is above the escarpment. The higher altitude often results in delayed spring seeding and fewer heat units compared with the Red River Valley.

Emerson-Franklin had the highest yielding Northern Hard Red variety in a municipality — Prosper, at 92 bushels an acre.

It also had the highest yielding barley variety, AAC Synergy, at 103 bushels an acre.

Of all municipalities Roblin had the highest average canola and field pea yields at 54 bushels and 70 bushels an acre, respectively.

THE MAKING OF A BUMPER CROP, OR NOT

Most were shocked when the 2017 crop broke yield records in canola, wheat, barley, grain corn, field peas and flax because it was so dry. The consensus among experts was a lack of growing season rain was offset by a combination of soil moisture reserves, cooler than normal temperatures, less disease pressure, timely rains and good agronomic practices.

Given those stupendous yields and lack of rain in 2017, followed by a dry winter and dry, hot conditions in 2018, many were not expecting another bumper crop.

“I think Winnipeg had one of the driest Aprils in the last 30 years,” Ojo said.

“And generally I think we had about half the normal snow accumulation over the winter so the winter was quite dry. By around the fourth week of May we got an inch to two inches of rain pretty much across the whole province. So that really helped to kick start stuff. Most of the short season crops — canola, wheat — the data is showing they had enough moisture to get through the growing season because it wasn’t so dry until mid-July.”

There was also more soil moisture in the spring of 2018 than people assumed after a dry 2017 growing season.

“We had some rainfall that really helped (the 2018 crop) in the fall of ’17,” Ojo said. “It came at a time when there wasn’t a lot of upward transpiration. So definitely we had that reserve, but definitely not as much as we had from the fall of ’16 (going into the 2017 growing season).”

So many Manitoba crops got off to a decent start in the spring before it got really dry after mid-July. From then until the end of August the weather station at Carman, for example, received less than a quarter inch of rain, Ojo said. The result was a below average provincial soybean yield.


“It’s a critical moment because mid-July, especially for crops like soybean that’s when the reproductive phase starts,” Ojo said. “When you have low precipitation around that period it affects the yield. By mid-July wheat canola — most of the short-season crops — have already gone through their reproductive phase. So the low moisture didn’t affect those short-season crops as much as the long-season crops.”

Table 3: TOP MANITOBA INSURED GRAIN & OILSEED CROPS IN 2018

Rank	Crop	2018 Acres	2017 Acres	% change	Rank in 2017	10 Year Average	% change
1	Argentine Canola	3.1 million	3.0 million	+3 1	3.0 million	+3	+2
2	Red Spring Wheat	2.4 million	2.0 million	+20	3	2.2 million	+9
3	Soybeans	1.7 million	2.3 million	-26 2	1.0 million	+70	+123
4	Oats	386,075	431,447	-8 4	437,679	-12	+258
5	Corn	349,610	387,399	-10	5	246,069	+42
6	Barley	227,425	232,137	-2 6	405,724	-43	-40
7	Northern Hard Red*	154,972	N/A	N/A	N/A	N/A	N/A
8	Dry edible Beans	118,628	120,808	-2 8	118,440	0	+132
9	Field Peas	72,498	63,304	+15	9	71,504	+1
10	Prairie Spring Wheat	47,678	59.	-20 11	21,845	+118	+78
11	Sunflowers (All)	42,779	57,417	-25	12	96,039	-77
12	Winter Wheat	33,853	49,705	-32	13 264	133 -87	-47
13	Fall Rye	33,108	60,327	-45	10	62,795	-47
14	Flax	30,394	41,304	-26	14	127,261	-76
	All wheat	2.6 million	2.3 million	+13	2.7 million		-15

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

These data were from a MASC database containing 99.9 per cent of the aggregated yield information submitted by crop insured Manitoba farmers in late 2018. To protect farmers’ privacy MASC doesn’t make public yields unless they come from at least three farmers with fields of at least 500 acres. Yields from pedigreed seed and organic production are not included in this table. Yields reported on MASC’s Management Plus webpage (https://www.masc.mb.ca/masc.nsf/mmp_browser_variety.html) are subject to revision and may differ from this table.



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The numbers prove it — farm size matters

Whether small farm or large, increased productivity is already reflected in crop insurance coverage and premiums

By Doug Wilcox, MASC

There has been a steady increase in average farm size in Manitoba. Over the past 25 years, the average number of acres insured per Manitoba Agricultural Services Corporation (MASC) crop insurance contract doubled from about 600 to 1,200 acres.

In the same period, the number of contracts decreased from about 12,000 to 7,000. Census data shows a similar trend. This indicates the largest census farms (more than 1,600 acres) are getting larger, mainly by swallowing up mid-sized farms in the 560- to 1,600-acre size range. The number of small farms (under 240 acres) has remained relatively constant.

In 2017, MASC insured 32 farms over 10,000 acres, compared to just 10 farms that size in 2007. The largest farm insured in 2017 was more than double the acreage of the largest insured in 2007.

Farm size by decile

One way of understanding the distribution of farm sizes is to look at the average insured acres per MASC contract by decile group — any one group-

ing of percentile ranges after sorting and dividing a variable's (in this case farm size) group into 10 subgroups with equal frequencies. For example, the tenth decile group includes 91 to 100 per cent of the variable's population (i.e. the top 10 per cent).

The average insured acres by decile group (sorted by total insured acres) in 2017 are listed in Table 1. The average insured acres in the first decile group (smallest 10 per cent) is 58 acres. The average insured acres in the tenth decile group (largest 10 per cent) is 5,152 acres. The middle fifth and sixth decile groups have average insured sizes of 621 and 869 acres respectively.

Efficiencies — small versus large

It has been argued that compared to larger farms, smaller farms should be more efficient, productive, and less risky for crop insurance. Small farms, as argued, should be able to use labour and other resources more efficiently and be able to more closely monitor operations. Many have heard of the large farm that got too big too fast or whose hired hand accidentally sowed a distant



PHOTOS: ALLAN DAWSON

Table 1: 2017 MASC AVERAGE INSURED ACRES BY DECILE GROUP

Decile Group	1	2	3	4	5	6	7	8	9	10
Percentile Range	0-10th	11-20th	21-30th	31-40th	41-50th	51-60th	61-70th	71-80th	81-90th	91-100th
Average Acres	57.8	155.9	274.0	423.7	620.7	868.6	1,197.2	1,674.7	2,470.9	5,152.3

field that wasn't theirs. One would hope smaller farmers would never make such a costly mistake.

A contrasting argument is that larger farms should be more efficient, productive and less risky for crop insurance. Larger farms have better access to capital, asset resources, and larger, more capable equipment. Additionally, large farms are more spread out, with greater variation in topography, soils, weather and crops. As argued, these large farm characteristics create greater opportunities to avoid losses over the entire land base, and increased opportunities for offsetting any localized crop losses.

The dominant current opinion is that larger farms have increased productivity and lower risk compared to small farms, and producers ask for this to be reflected in the insurance coverages and premiums.

Splitting large farms?

Farmers also sometimes ask to split large operations into smaller units for crop insurance. This is currently considered risk-splitting under federal-provincial crop insurance agreements and would therefore have a significant impact on cost-sharing arrangements, with the possible result of significantly increasing producer premiums on those fields. Only legally, operationally, and financially independent farms can have separate crop insurance contracts and be entitled to current cost sharing. Splitting farms is not a realistic option.

Those who ask for increased coverage and reduced premiums for large farms may not fully appreciate that MASC's existing crop insurance program already has coverage and rating methodologies that recognize and reflect any positive experience from large farms. This is not limited to large farms — this is the case for any size of operation that successfully uses risk-reducing management practices (e.g. pedigreed seed, tile drainage, fungicides, etc.).

For example, producers who make better management choices over time will have higher probable yields. Additionally, producers who receive lower crop insurance indemnity payouts because of their management choices will receive premium discounts. This combination means that producers using "bad management" pay more premium

for less coverage than producers practising "good management."

Measures of farm size

MASC recently reviewed whether large farms have lower risk for crop insurance, and if so, the extent to which coverages and premiums are recognized.

This review involved studying the influence of various farm-size indicators on various risk and coverage measures for over 6,900 crop insurance contract holders in 2017.

As farm size can mean different things to different people, MASC chose four potential indicators: (1) total number of acres, (2) total number of fields, (3) a farm-specific dispersion index, and (4) all three farm size factors combined (i.e. adding all grouped values from 1, 2 and 3 together and deriving an average within new combined groups).

The farm dispersion index is a measure of average straight-line distance for all fields on a farm. The more spread out the fields on the farm, the larger the dispersion index value.

Only legally, operationally, and financially independent farms can have separate crop insurance contracts and be entitled to current cost sharing. Splitting farms is not a realistic option.

Across each of the 6,900 contracts, the farm-size indicators were divided into 10 ranked decile groups (690 contracts each) and averages and trendlines were plotted on graphs for analysis.

Risks for various sizes

Figure 1 illustrates the relationship between the 2017 MASC contract loss ratio averages from four selected farm-size indicators, ranked sequentially by decile group average. The loss ratio is the ratio of indemnities paid to premiums collected for each contract and is a measure of relative historic risk for crop insurance. The loss

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ratio experience is a major component of the crop insurance discount-surcharge system.

For all four farm-size indicators, the smallest farms had higher average loss ratios than the largest farms. This supports the argument that larger farms are less risky. All farm-size indicators showed a good relationship between average loss ratio and average farm size.

It is also interesting that average loss ratio for the smallest farms based on total acres (decile group 1) at 2.4 is nearly double that of the largest farms at 1.25 (decile group 10). Also note that, except for dispersion index, there is a rapid drop in loss ratio as the decile group increases until plateauing at around decile group 6 (i.e. all the larger farms have similar low loss ratios). Similar

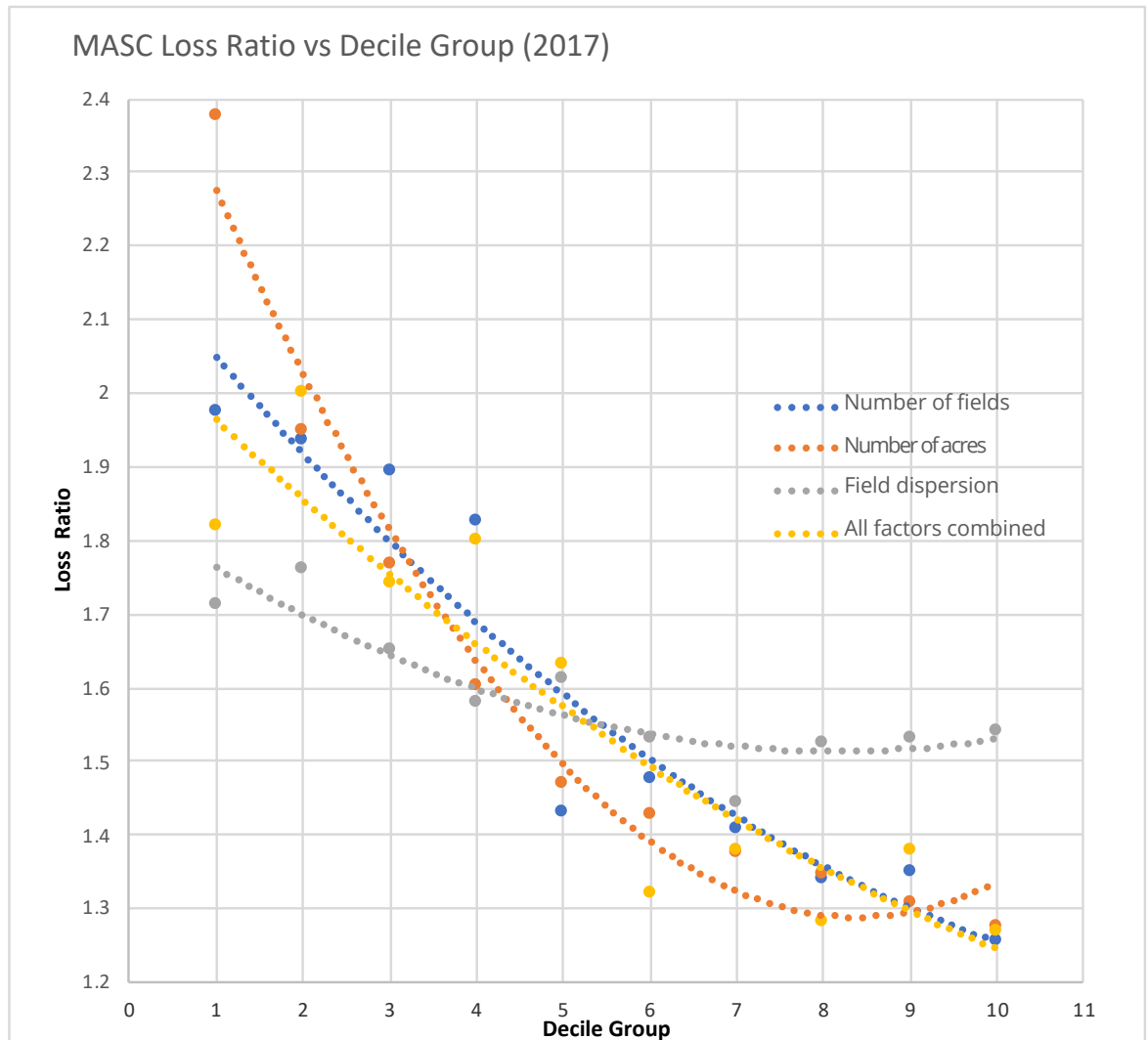
findings were generally observed by MASC for plots of discount/surcharge percentages in relation to these four farm-size indicators.

Productivity

Figure 2 illustrates the relationship between the 2017 MASC contract red spring wheat IPI averages from four selected farm-size indicators ranked sequentially by decile group average. MASC's Individual Productivity Index (IPI) reflects how well a producer's crop has yielded over the long term relative to other fields of the same crop on the same soil type in the same risk area. It is a measure of relative yield experience that helps establish an individual producer's crop insurance yield guarantee.

For all four farm-size indicators, the general trend was that the smallest farms had lower average RS wheat IPIs than the largest farms. This

Figure 1:



This graph shows the crop insurance loss ratio for the factors in the 10 deciles or groups representing the smallest to largest farms. The loss ratio strongly declines with farm size in all cases except for dispersion of fields within farms.

supports the argument that larger farms generally achieve higher yields.

All farm-size indicators showed a good relationship between average loss ratio and average farm size. The best relationship was for number of fields versus farm size grouping. The average RS wheat IPI for the smallest farms based on farm size (decile group 1) at 0.94 is significantly lower than that of the largest farms at 1.05 (decile group 10).

It is interesting that, except for dispersion index, there is an IPI plateau around 0.935 for the smaller farm groupings that rapidly increases after decile group 5 for the largest groups (i.e. larger farms have the highest IPIs). Similar findings were generally observed for plots of canola IPIs in relation to these four farm-size indicators.

The best indicator of farm size impact on risk or coverage depends on the factor being looked

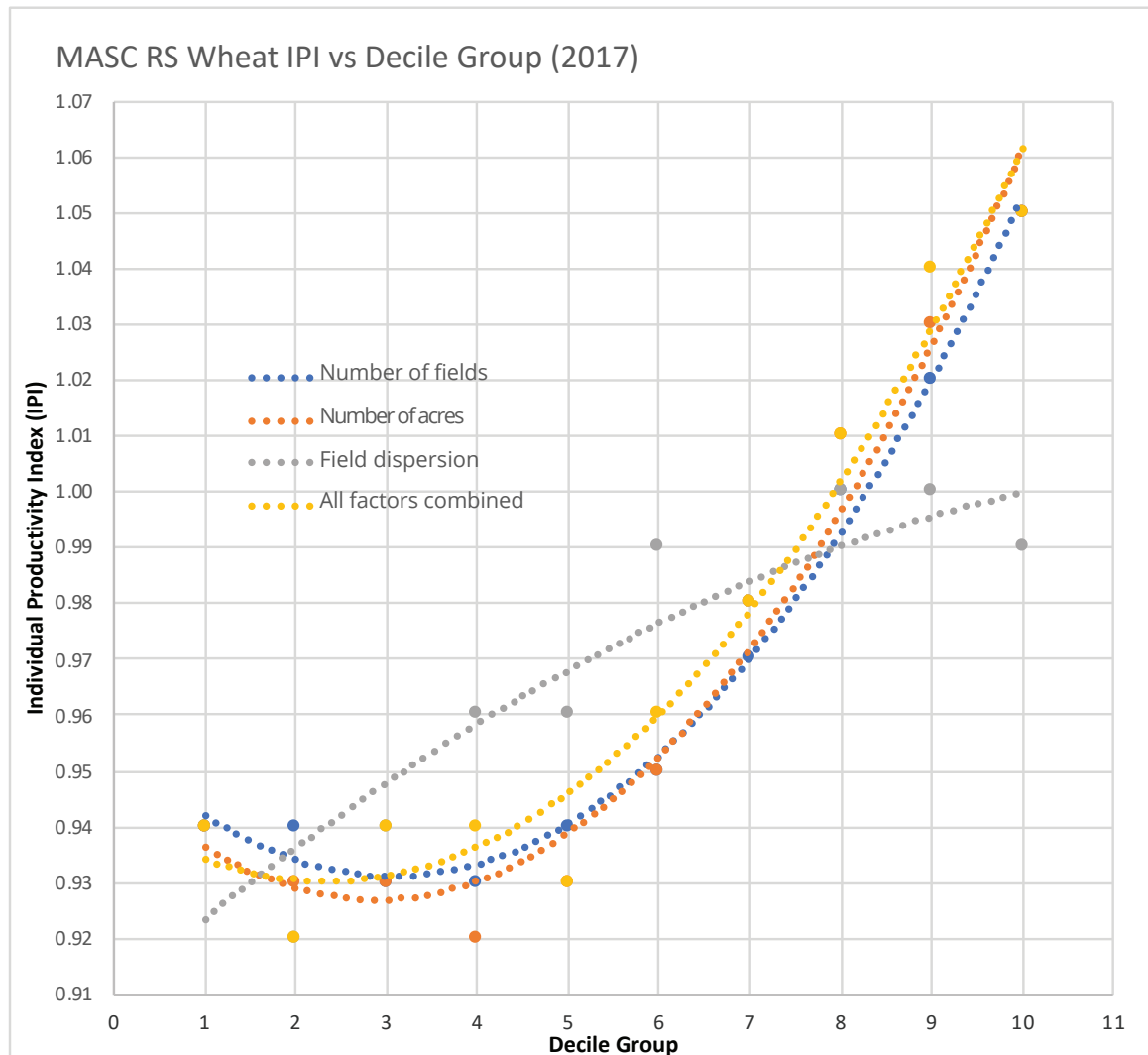
at. The total acres factor had the best relationship with loss ratio decile groupings and discount surcharge percentage decile groupings, whereas the number of fields had the best relationship with both RS wheat and canola IPI decile groupings. There was also no benefit observed by a simple additive combination of total acres, number of farms, and dispersion index.

Little field spread effect

An unexpected find was that the dispersion index (i.e. field spread) does not appear to be as useful an indicator of farm-size impact on risk and yield potential compared to total acres or number of fields. The graphed results clearly show that larger

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Figure 2:



This graph shows the Individual Productivity Index (IPI) for the factors in the 10 deciles or groups representing the smallest to largest farms.

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farms are less risky (lowest loss ratios) and have the highest yield potential (IPIs). These graphs also indicate that large farms are already benefiting, without special recognition, through MASC's existing discount surcharge and IPI systems used for all producers on all sizes of farms.

It is also important to recall that "correlation is not causation." The relationships observed between farm-size indicators and loss ratios and yields may not be a direct result of farm-scale differences but could be due to other factors. For example, one might argue that only "better" farm managers can afford to expand their farms, and there may be a disproportionate number of "better" farm managers with better access to advanced technologies on large farms. This was not studied in this review.

It is also important to recall that loss ratios and yields are only a few of the many components that go into farm profitability — large farms may have better loss ratios and yields but that does not necessarily mean they are more profitable.

Larger farms, lower premiums

The obvious follow-up question is: "What is the relative scale of differences in benefits received by large farms under MASC's existing crop insurance coverage and rating methodologies that MASC uses for all sizes of farms?"

Since MASC knows the average discount/surcharge and IPI for each decile grouping, MASC can compare what the effective premium rate and coverage would be for each. Table 2 shows this comparison for RS wheat in 2018 at the 80 per cent coverage level on D32 soil (one of the most common soil types insured by MASC).

Table 2 indicates that larger farms have higher coverages and a lower effective premium rate than average. In contrast, smaller farms have lower coverage and higher effective premium rates than average. A comparison of coverage from the largest decile group (Group 10) to coverage from an average producer indicates that the producers from the largest farm decile group have eight per cent higher coverage. The largest decile group also has an effective premium rate that is on average nine per cent less than an average Manitoba producer. The differences are even greater when the Group 10 decile is compared to Group 1. Similar results are observed for other crops (results not presented).

Good management rewarded

This analysis has demonstrated that larger farms on average are a better crop insurance risk than smaller farms and that they generally have higher yields. However, additional analysis demonstrates that MASC's existing program has coverage and rating methodologies that already recognize the benefits to large farms. In my opinion, this suggests there is no current need for special recognition for larger or dispersed farms into MASC's methodologies. MASC's existing program already has insurance coverage and rating methodologies that recognize and reflect any positive experience from any farm size advantage or any other yield-increasing or risk-reducing management practices.

It does bode well for MASC that average farm size is increasing, as this should provide reduced risk in the crop insurance pool, leading to reduced premiums for all producers. This would benefit governments and insured producers down the road. However, regardless of size, all farms have important roles to play in producing food, providing ecological goods and services, and maintaining rural values.

Table 2: A COMPARISON OF MASC RED SPRING WHEAT 2018 COVERAGES AND RATES AT THE 80 PER CENT COVERAGE LEVEL ON D32 SOIL IN RELATION TO TOTAL ACRES DECILE GROUPS

Group*	\$ Value \$/bu	MB 80% Coverage bu/ac	Avg Wheat IPI	Ind 80% Coverage bu/ac	Ind 80% Coverage \$/ac	MB Prem 80% \$/ac	Ind Discount	Ind Prem 80% \$/ac	Effective Prod Rate
1	6.53	41.3	0.94	38.8	\$253.51	\$9.76	0.046	9.31	3.7%
2	6.53	41.3	0.93	38.4	\$250.81	\$9.76	0.055	9.22	3.7%
3	6.53	41.3	0.93	38.4	\$250.81	\$9.76	0.065	9.13	3.6%
4	6.53	41.3	0.92	38.0	\$248.11	\$9.76	0.073	9.05	3.6%
5	6.53	41.3	0.93	38.4	\$250.81	\$9.76	0.091	8.87	3.5%
6	6.53	41.3	0.95	39.2	\$256.20	\$9.76	0.091	8.87	3.5%
7	6.53	41.3	0.98	40.5	\$264.30	\$9.76	0.101	8.77	3.3%
8	6.53	41.3	1.01	41.7	\$272.39	\$9.76	0.109	8.70	3.2%
9	6.53	41.3	1.03	42.5	\$277.78	\$9.76	0.115	8.64	3.1%
10	6.53	41.3	1.05	43.4	\$283.17	\$9.76	0.109	8.70	3.1%
Average	6.53	41.3	0.97	40.1	\$261.60	\$9.76	0.086	8.92	3.4%

* Grouped by total farm acreage – smallest (Grp 1) to largest (Grp 10).



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A new online portal called myMASC will handle all of the organization's insurance and lending services

It's interesting to see how the changing times, practices and technologies have guided the delivery of programs for the Manitoba Agricultural Services Corporation (MASC). And as MASC comes up on six decades of service, the corporation continues pushing forward with program delivery that's equal to its forward-thinking customers.

Colleen Bernier joined the Manitoba Crop Insurance Corporation (MCIC, a former com-

However, change was soon to come — the corporation's head office was being computerized. Mark Storen, now MASC's manager of IT development, recalled the chaotic click-clack sound of rows of mechanical keyboards when staff entered

MASC will soon have a single online portal for loans, crop insurance and farmland school tax rebate. GRAPHIC: WWW.MASC.MB.CA

data for seeding and production reports. But by 1989, these data-entry terminals were being moved out to the agency offices.

David Koroscil, manager of claim services, came aboard as an agent in the early 1990s and remembered the move to agency computerization. “I used to set up in the local communities for face-to-face farmer meetings — Harvested Production Reports (HPRs), Seeded Acreage Reports (SARs), and so on.”

As more agency offices became connected to what was then Manitoba’s provincial data network, the need for direct contact meetings was reduced.

Looking back, it seemed like a perfect customer-oriented service, but the allure of face-to-face and onsite availability is misleading. “Before cellphones and email,” said Koroscil, “we’d be out of the office (and out of contact) for long stretches, and other customers would just have to wait.”

Stepping into the future

In 2004, MASC (as the corporation became known after the amalgamation of MCIC and MACC) unveiled its online services that allowed farmers to report their crop production online. By 2012, most of MASC’s current online services were up and running.

Like most financial service companies, MASC’s first online applications were held back by cost-efficient but aging information systems first designed in the 1980s. Recognizing this, MASC has committed to full-scale replacement of legacy technologies as a necessary step towards modernized delivery of products and services.

MASC began changing its approach to digital services in 2016, under the leadership of new chief information officer Tyler Gooch. “Along with the much-needed modernization of supporting technology, we saw this as a chance to improve the way we do business with our customers.”

Gooch said there were four main goals:

- Provide a quality digital customer experience
- Apply innovative technologies to improve the ways MASC delivers service
- Manage customer information for greater customer benefit
- Improve the speed and quality of MASC’s internal processes

A new client portal

Producers began to see benefits from MASC’s investment in digital capabilities in 2018, with

the unveiling of myMASC, the seed of a new client portal for all of MASC’s insurance and lending services. Since the unveiling, MASC has added the ability for a producer to have their insurance claims deposited directly into their bank account, with more services planned for the upcoming year.

“The myMASC is a platform for online delivery of products and services,” said Gooch, “and more and more customer choices are coming online. Producers can now register hail insurance claims online, and they’ll soon be able to go online and submit their own AgriInsurance and wildlife-damage compensation claims.”

“And it’s not just an insurance platform,” said Gooch. “If you have an MASC loan, you can see a summary of loan activity via the same portal. And if you own farmland in Manitoba, you’ll soon be able to apply online for the Farmland School Tax Rebate. All from your mobile phone.”

“Producers can now register hail insurance claims online, and they’ll soon be able to go online and submit their own AgriInsurance and wildlife damage compensation claims.”

— Tyler Gooch, MASC

A workforce on the go

The changed approach to technology also supports the operations of MASC’s mobile workforce. Adjusters can now enter adjusting data via tablets, accept signatures digitally and submit claims right from the field.

“It really improves our personal service,” said Gooch. “Our lending representatives and insurance agents can come and do business at your kitchen table, only now, they aren’t disconnected from all of their other clients.”

Open data

MASC has long subscribed to the idea that non-private data (that which can be anonymized) should be shared for mutual benefit of clients, the industry, and public research and analysis. For years, the Manitoba Management Plus

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Program (MMPP) has taken requests for raw data from researchers, industry partners, and individual producers for their own analyses, in addition to the MMPP thematic maps and online tools for browsing yield and fertilizer data.

“Our policy of open data will continue, and we’re working towards a bi-directional future,” said Gooch, “a future where MASC may soon accept data supplied directly from a producer’s farm management software.”

Looking to the future

Perhaps the biggest changes for MASC are the increased efficiencies of its internal, behind-the-scenes processes, which bring benefits to

both customers and staff. “We expect to see quicker claim processing, and generally shorter turnaround times for loan approvals and claim approvals,” said Gooch.

Now, as MASC moves to the forefront of its digital business transformation, 35 per cent of clients already use myMASC to do business with the corporation. That’s the highest rate of participation in Canada, and it’s expected to grow.

A roadmap for the future has been laid out, but it’s been left open to accommodate any unforeseen turns. “The future is never certain,” said Gooch, “emerging technologies like artificial intelligence, blockchain, and the internet of things are continually disrupting the agriculture and financial services industries. With the changes we’ve made to the way MASC does business, we are in a good place to act on these and other opportunities.”

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Everything is about timing: late summer precipitation and cool spell limit crop yield

By Timi Ojo, Ag Meteorology Specialist, Manitoba Agriculture

The weather cards rarely play exactly as we want. Each year, there is often a juggle between excess and deficit and the 2018 growing season was no different. Following a dry growing season in 2017, about three-quarters of agro-Manitoba received less than 40 per cent of normal precipitation between November 01, 2017 and April 29, 2018. In Winnipeg, the month of April was the driest April in 30 years and this set the stage for a dry start to the 2018 growing season. Seeding progressed quickly due to the dry weather and just as the concern over the dry weather was growing, many areas, especially in the eastern and central

regions received an inch to almost two inches of rain during the third week of May. Other regions received similar amounts during the fourth week of May.

Cumulative precipitation was below normal throughout the growing season at most locations. Few locations with above normal precipitation such as Stonewall, Birch River, Kenton and Swan Valley had short periods of high rainfall intensity. On July 01, Stonewall received 60 mm (2.4 inches) of rain in two hours and Swan Valley received 44 mm (1.7 inches) between 5:15 pm and 6:45 pm on May 24. Apart from the total amount of precipitation that was

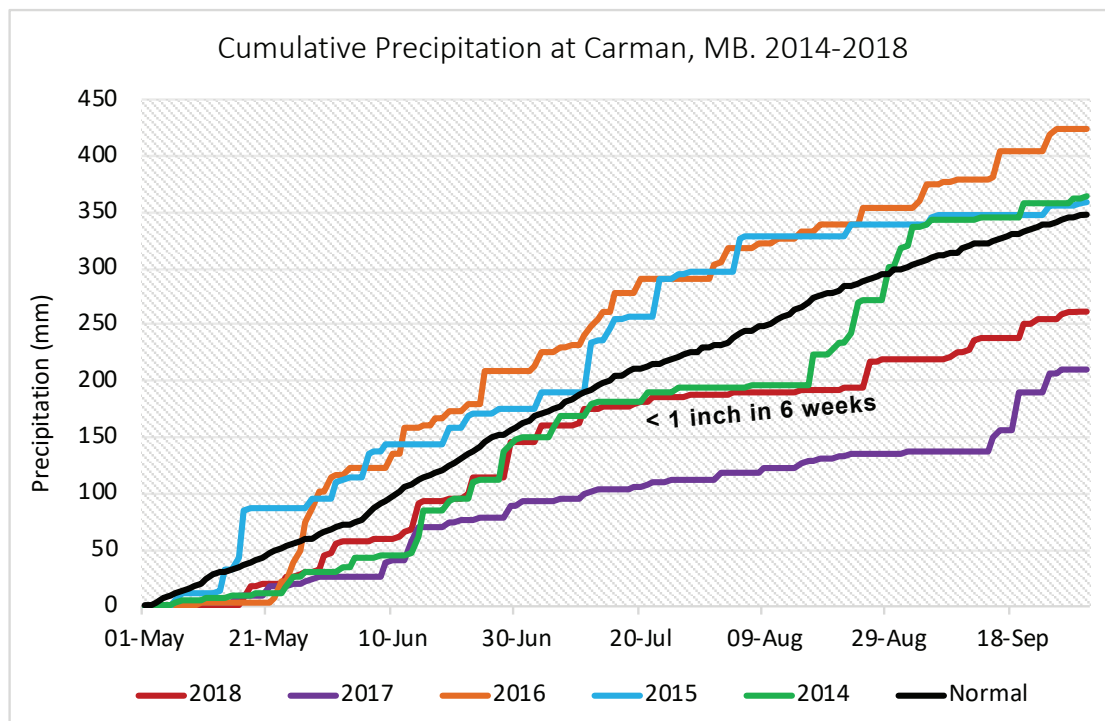


Figure 1: Cumulative precipitation from May 01 – Sept 30 at Carman, MB.
The normal line is the 30-year Climate Normal (historical average) for the location.

generally lower than normal, the timing of the events played an important role in limiting crop yield. For example, areas around Carman received less than an inch of rain (18 mm) in six weeks between July 12 and August 25. This period is critical as it coincides with the onset of the reproductive phase of many crops, especially, long season crops such as soybean and corn. About two-thirds of agro-Manitoba ended the season at 70 to 90 per cent of normal precipitation on September 30 due to late August and September precipitation. However, the per cent of normal accumulated precipitation from May 1st to August 19th was between 43 to 75 per cent at about two-thirds of the locations. Moosehorn and areas East of Dauphin Lake were dry; Moosehorn got 55 per cent of normal precipitation at the end of the growing season in September but was at 35 per cent of normal at the end of July and August. The soil moisture deficit severely limited hay production in the areas around Moosehorn.

The last spring frost occurred on May 11 at many locations in the central and eastern regions

but occurred on May 19 in the southwest, northwest and Interlake regions. The maximum daily temperature was warmer than normal in May with some locations such as Deerwood, Morden, Eden, Minnedosa and Arborg consistently having double digits overnight low air temperatures. Heat accumulation was above normal at all locations throughout the spring and early summer. Record breaking temperatures swept across the province on August 12 producing the warmest day of the year. Over half of the 134 stations monitored recorded maximum air temperature greater than 35 C. Both Elm Creek and Waskada had the highest temperature at 40 C. There was brief frost at Narcisse (-1.1 C), Grandview (-0.5 C) and Wasagaming (-0.2 C) on August 26. However, the first widespread fall frost occurred on September 20. Heat unit accumulation (growing degree-day and corn heat unit) was mostly 12 to 25 per cent above historical average from May until August 12 but dropped to two to eight per cent above historical average from May 01 to September 30 due

Continued on next page

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A photograph of a man and a young boy standing in front of a farm building. The man is wearing a blue cap and a brown jacket, and the boy is wearing a green vest over a grey long-sleeved shirt. They are both looking towards the camera. The background shows a large, light-colored metal building with a dark roof.

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Continued from previous page

to below normal air temperature in late August and throughout September.

Recent air temperature trends during late summer and early fall shows that average daily air temperature have been consistently above normal. However, the 2018 late summer-early fall temperature was below normal at all locations across agro-Manitoba (figure 2). The unexpected cooler and wetter than normal fall weather affected harvest operations as well as fall fertilizer application.

Similar to the 2017 growing season, crops in some areas benefitted from moisture from previous years that had built up groundwater levels. Yield varied widely among and within the regions but was generally at average levels for most crops. The 2018 fall soil moisture survey (<https://www.gov.mb.ca/agriculture/environment/soil-management/manitoba-fall-soil-moisture-survey.html>) shows area close to the Red River such as Kane, Dominion City and Steinbach has 20 to 40 per cent of the plant available water holding capacity prior to soil freeze up. The available water holding capacity is the total amount of water the soil can hold that is made available to plants. Like a soaked sponge, the soil is at saturation level when the pore spaces are completely filled with water. The excess water will drain from the soil under the force of gravity until it reaches the field capacity, which is the maximum amount of water the

soil can hold once drainage ceases. The permanent wilting point is the moisture content that the soil holds tightly and unavailable to plants, causing the plants to wilt. The soil water held between field capacity and the wilting point is the plant available water holding capacity.

The Province of Manitoba, with a total number of 109 weather stations within the Manitoba Agriculture weather network, continues to implement value-added products to enhance weather monitoring across the province. Existing stations were retrofitted with soil moisture and soil temperature sensors buried at 5, 20, 50 and 100 cm depths as well as barometric pressure sensors. In 2018, Manitoba Agriculture released an online map viewer designed to provide current weather data across the agricultural regions of the province at a glance. The map viewer can be used on any mobile device and it updates weather information on an hourly basis to display air temperature, relative humidity, average wind speed and direction, maximum wind speed, rainfall (past hour and since midnight), solar radiation, soil temperature (at five and 20 cm). The weather map viewer can be found at: <https://www.gov.mb.ca/agriculture/weather/current-weather-viewer.html>.

The seasonal summary maps for precipitation, corn heat units, growing degree-days and fall soil moisture are shown. Additional information is located at your local Manitoba Agriculture office, www.gov.mb.ca/agriculture, <http://crop-chatter.com/> and Twitter: @MBGovAg.

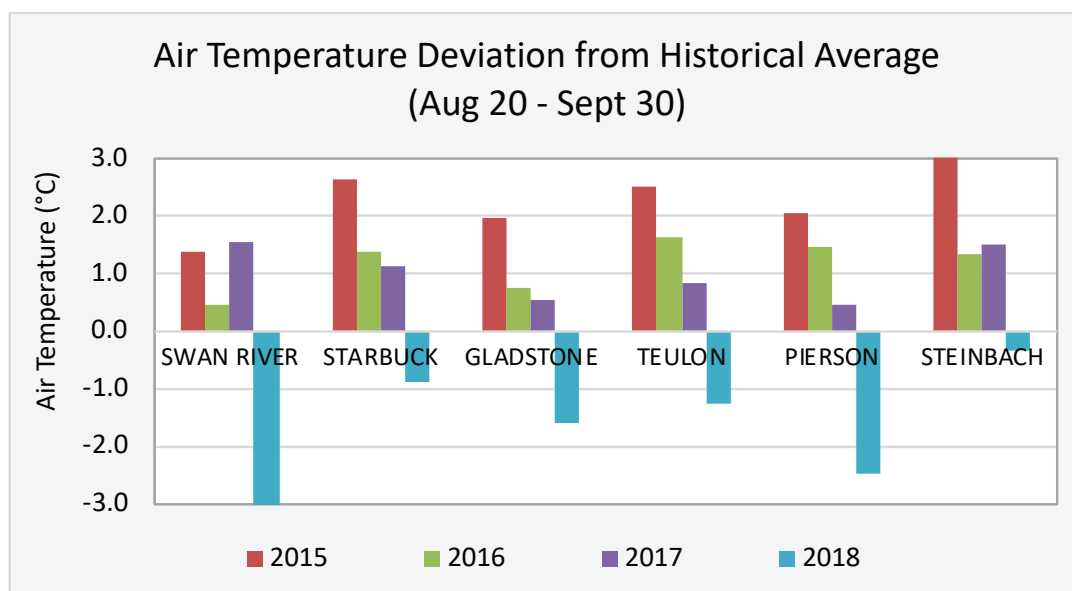
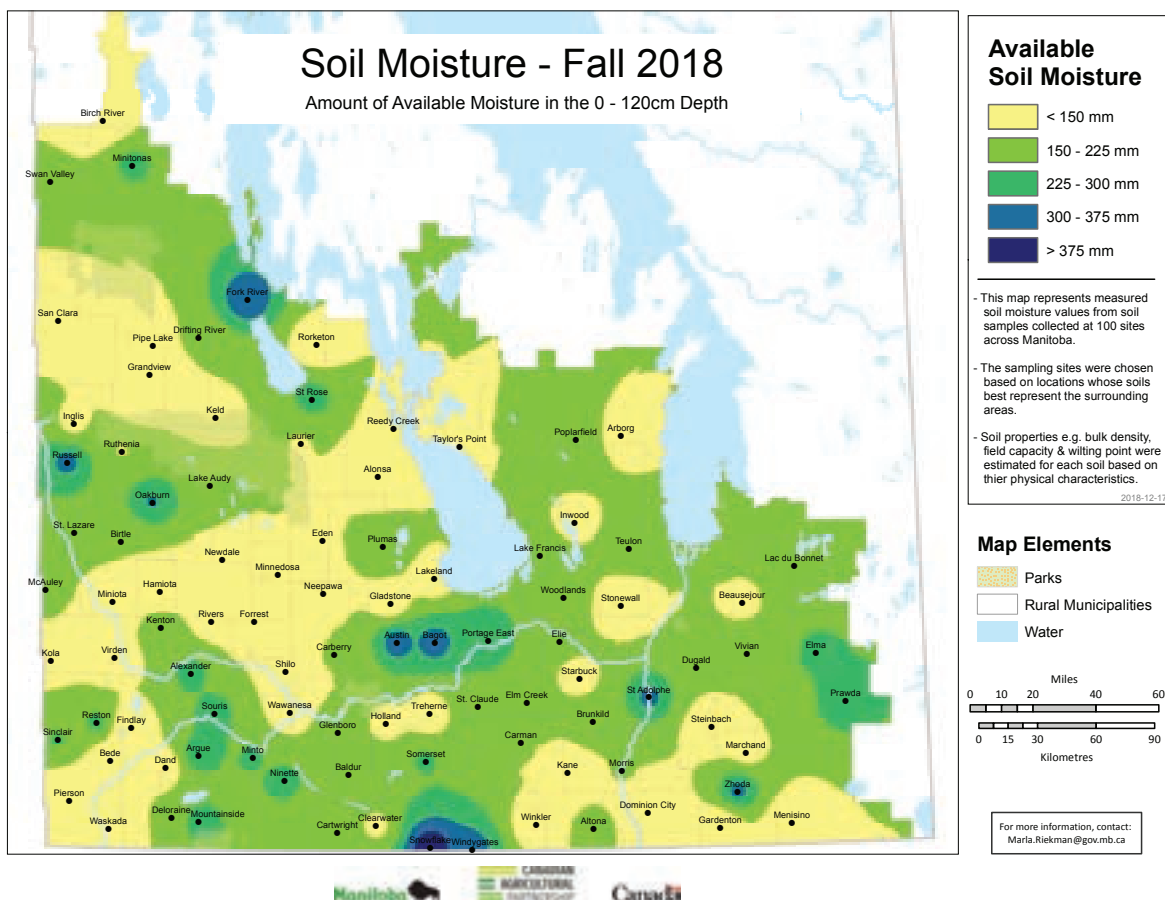
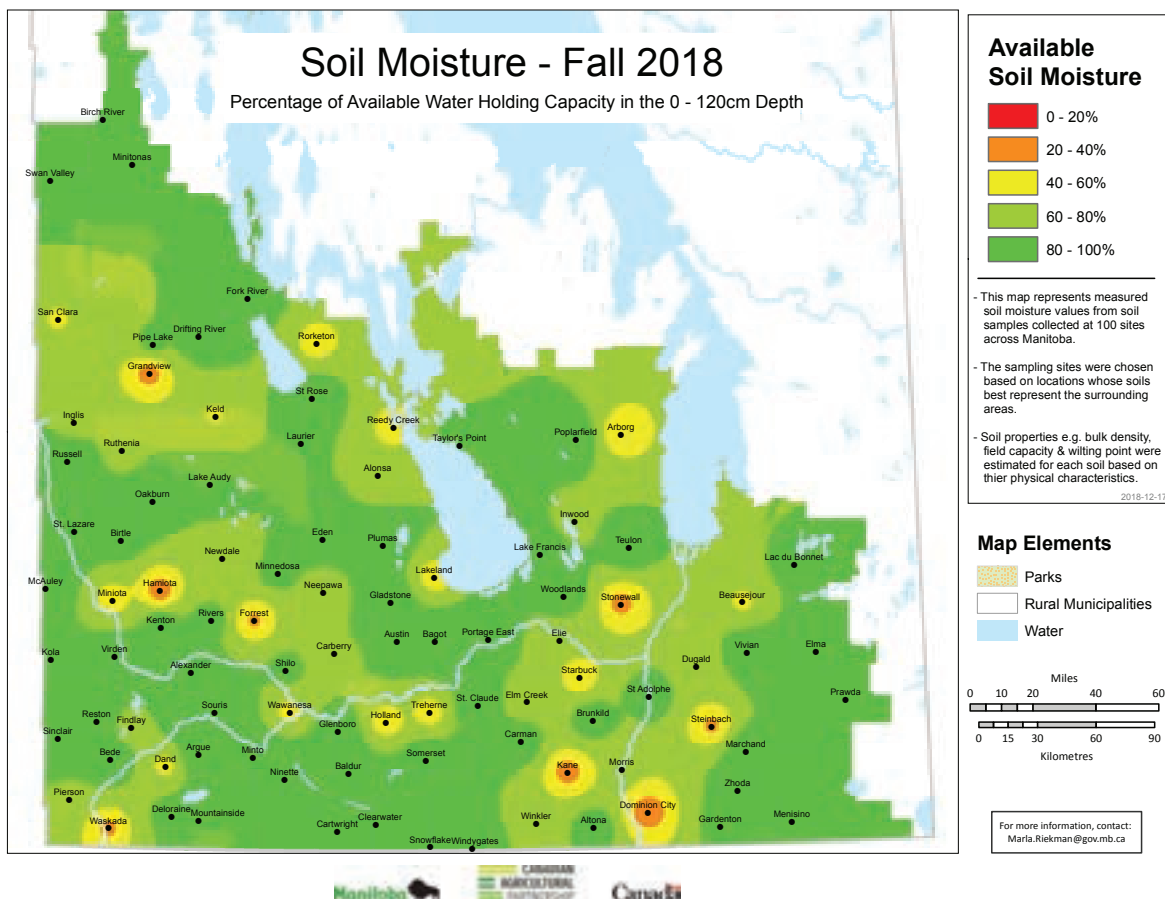
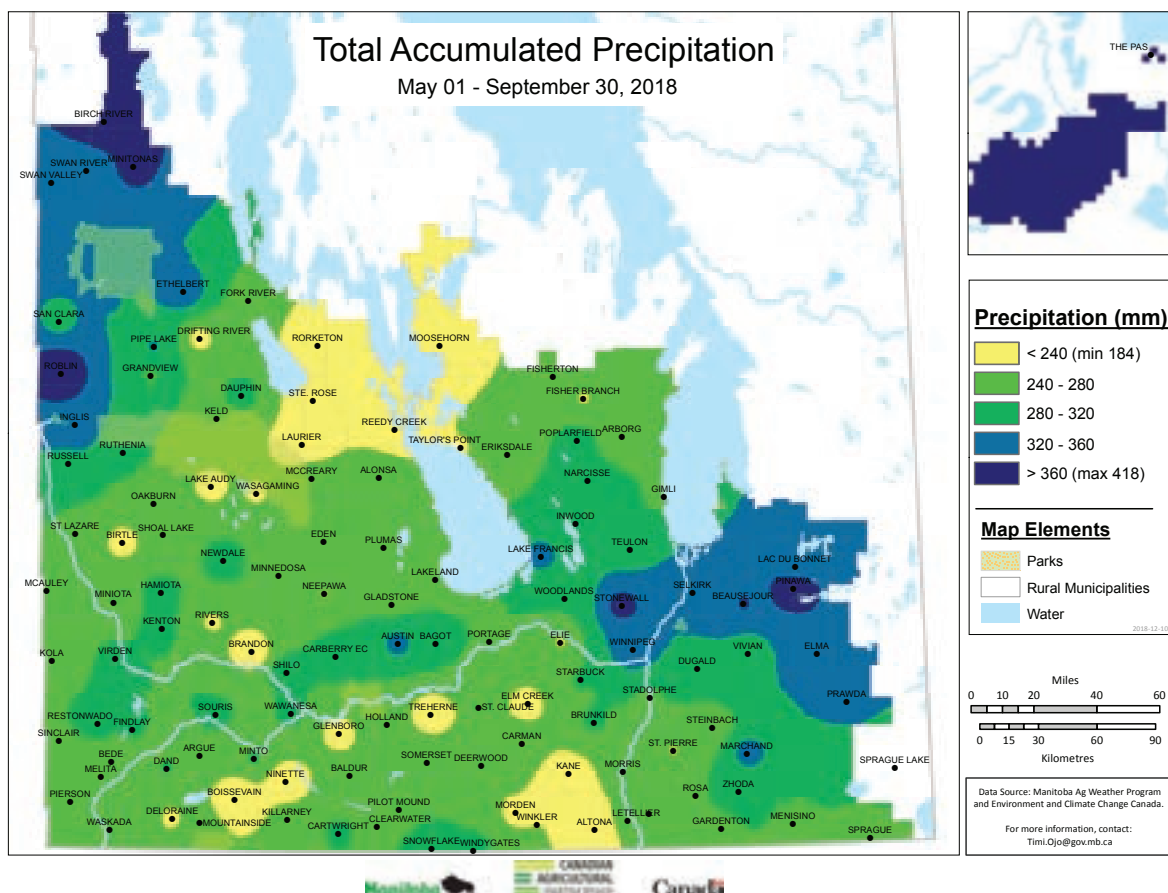
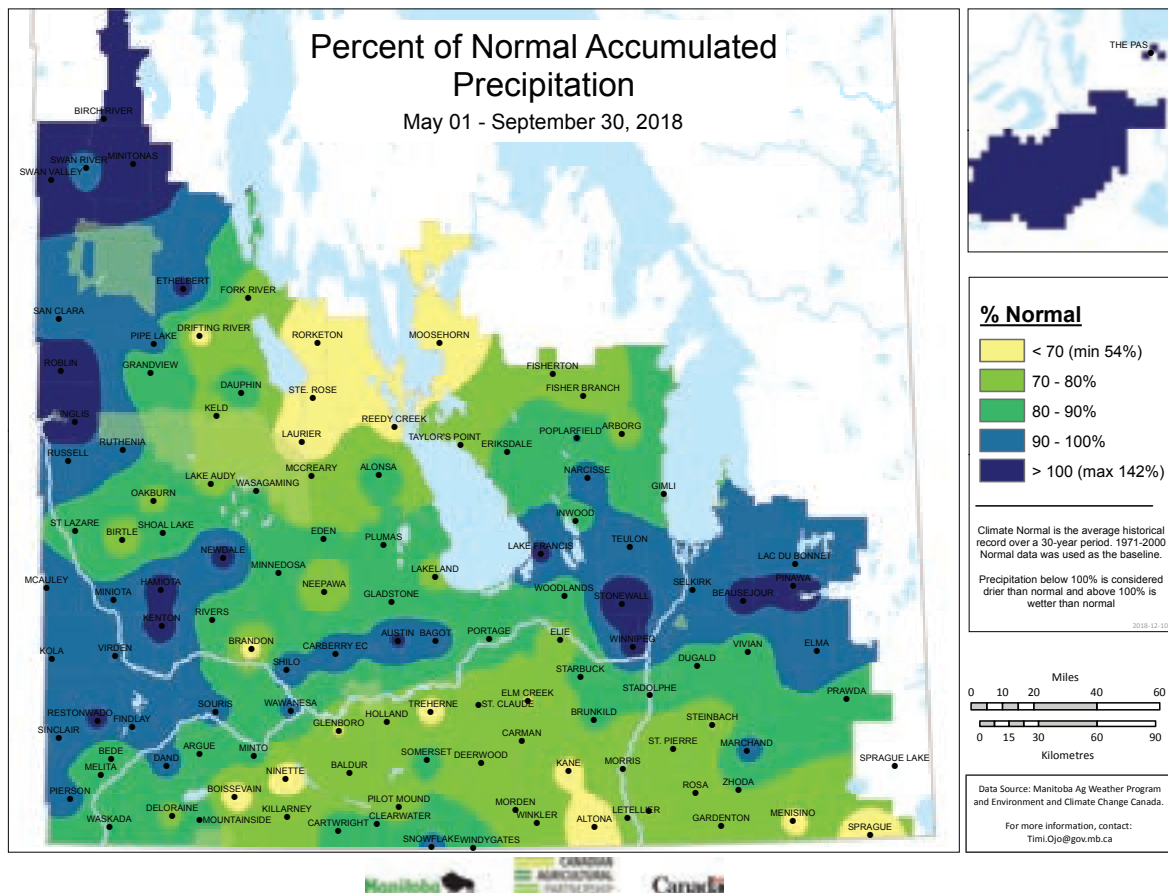
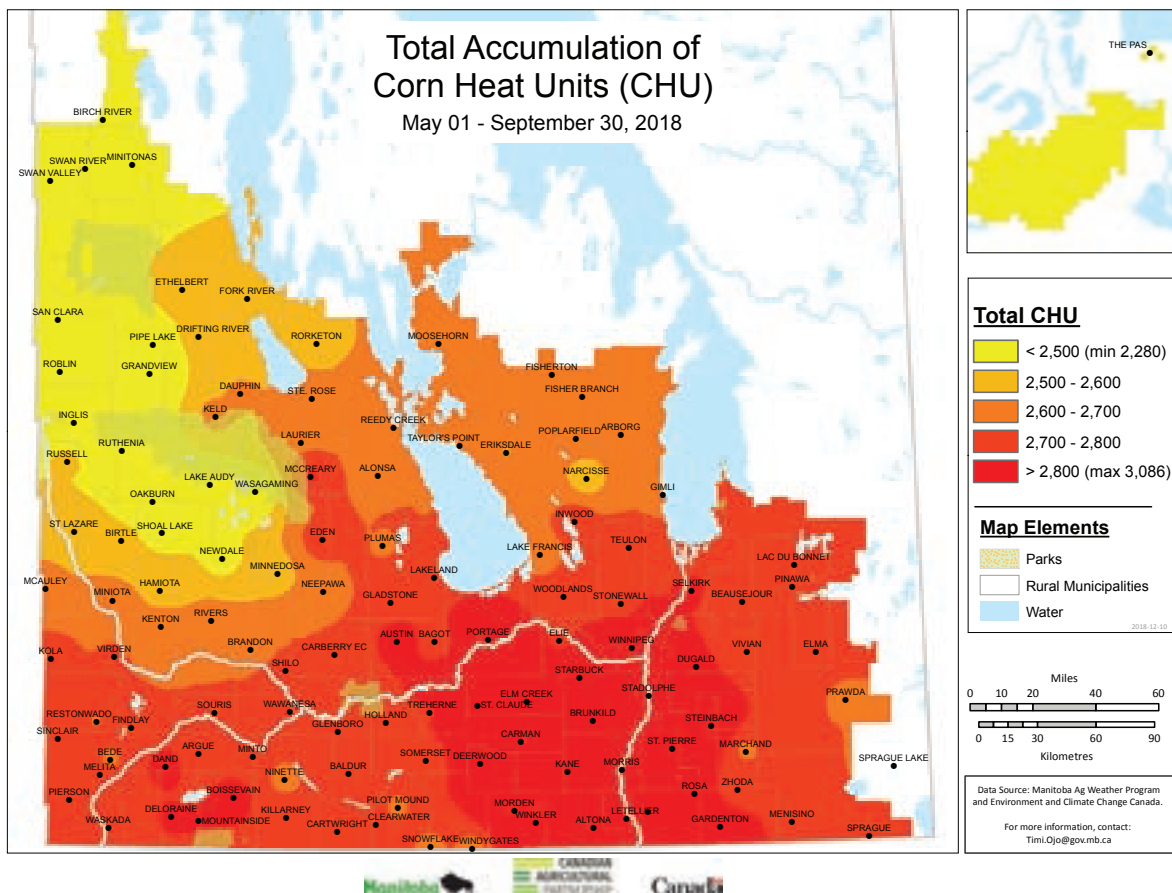
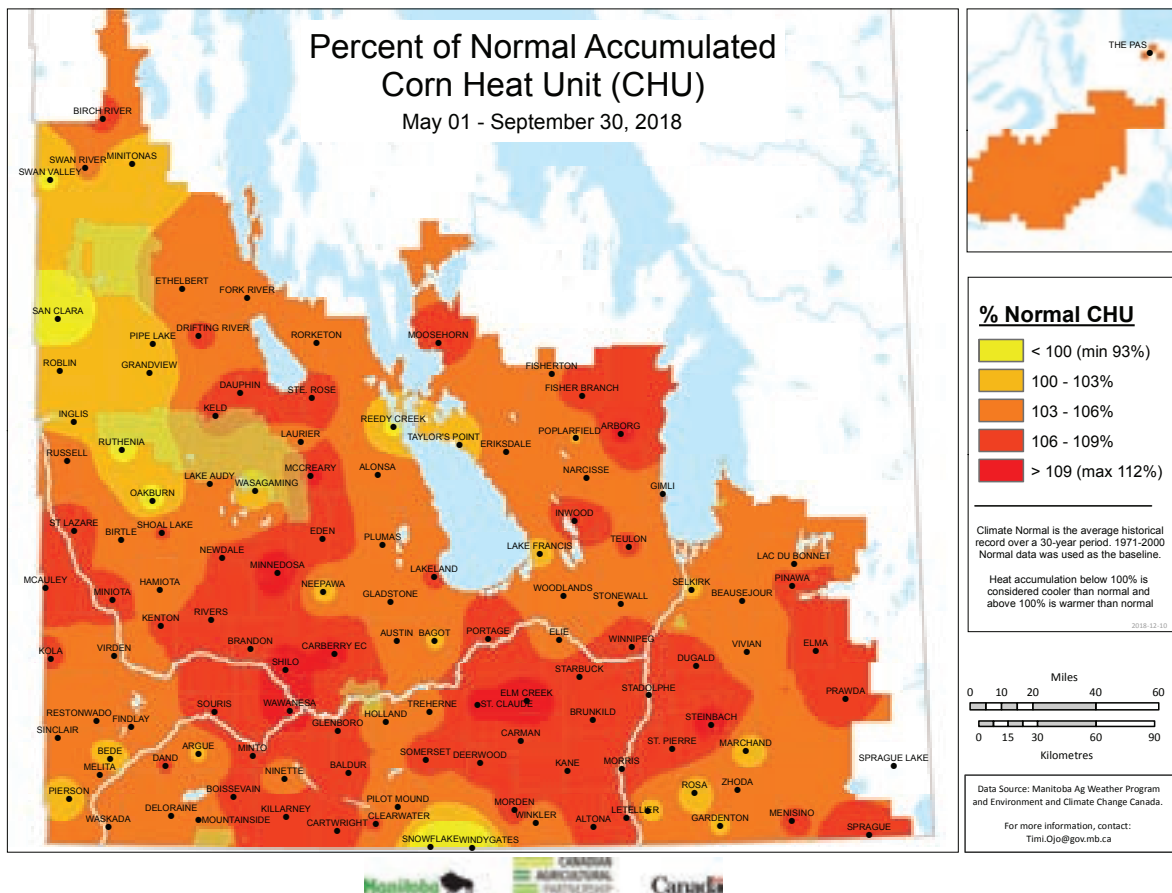
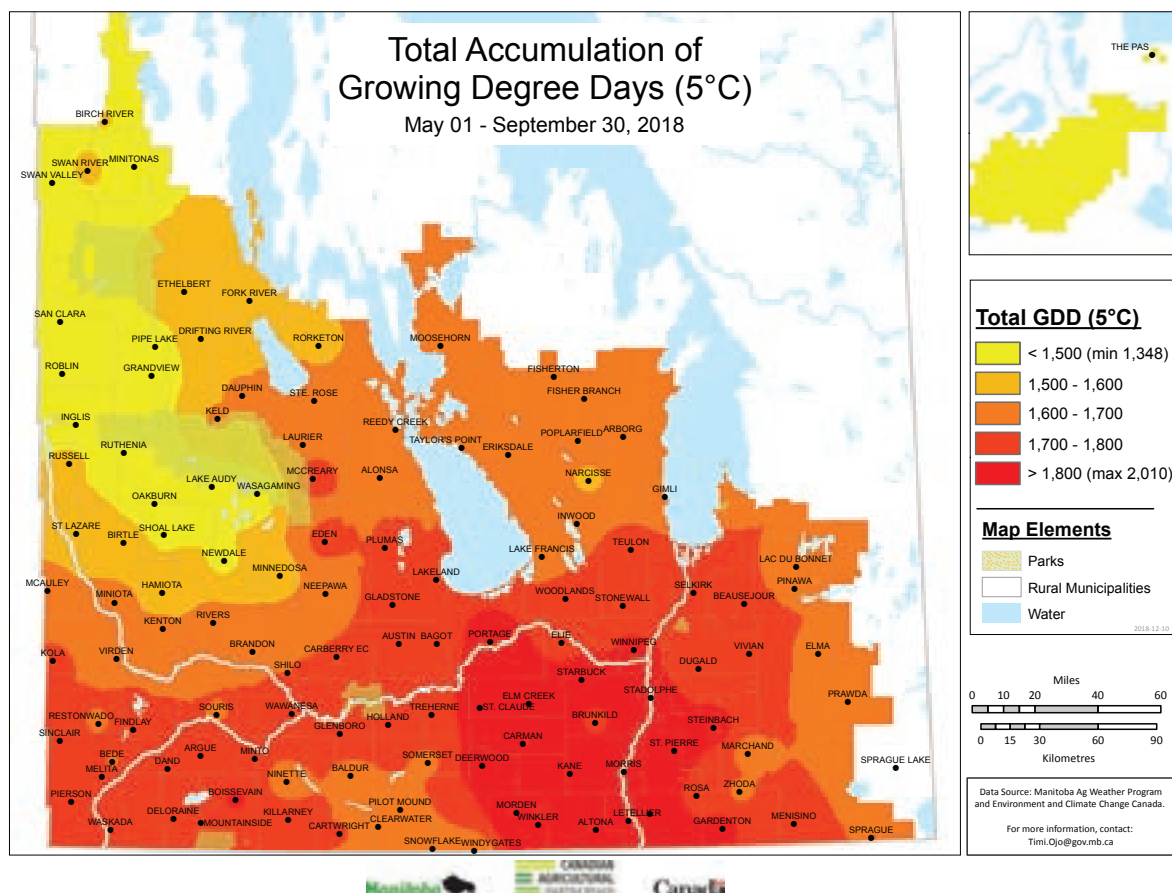
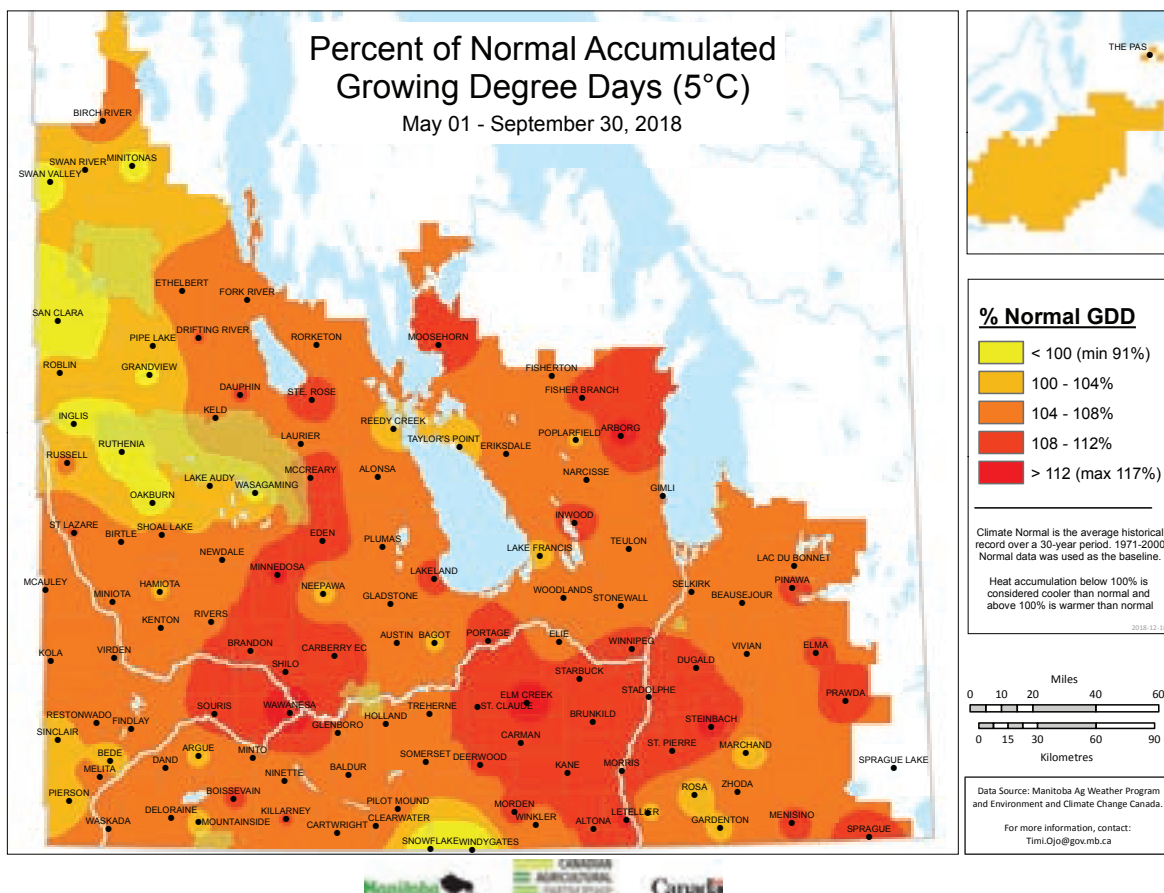


Figure 2: Air temperature deviation from historical average over the last four years from August 20 – September 30 at six locations across MB.









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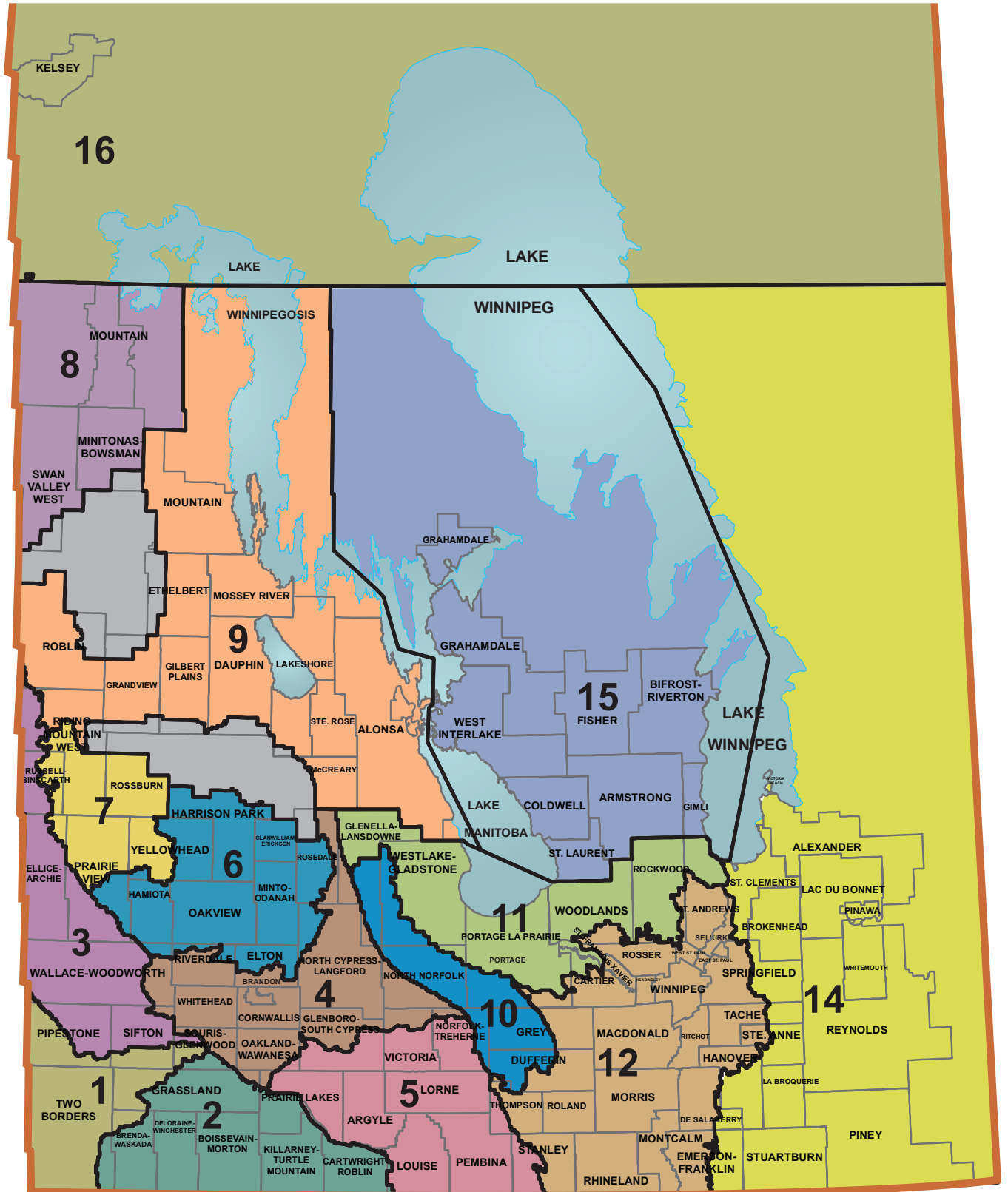


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CANOLA YIELDS BY VARIETY 2014–2018†								MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres		
L233P (LT)	—	—	—	52	300,986	48	1,196,640		
L252 (LT)	41	45	42	48	762,507	46	543,022		
L140P (LT)	40	45	42	50	530,970	46	183,827		
L230 (LT)	—	—	—	47	150,330	45	168,739		
L255PC (LT)	—	—	—	—	—	51	131,360		
75-65 RR (RT)	—	44	36	41	82,432	41	74,579		
1022 RR (RT)	—	—	39	43	92,981	42	71,923		
46H75 (ST)	35	43	41	49	67,613	46	69,343		
74-44 BL (RT)	37	40	37	41	97,928	40	52,468		
6074 RR (RT)	—	42	39	45	50,100	44	46,778		
45H33 (RT)	15	43	40	43	50,131	43	46,714		
PV 540 G (RT)	—	—	36	41	21,226	40	36,671		
1024 RR (RT)	—	—	—	40	4,341	40	32,392		
45M35 (RT)	—	—	—	44	34,928	45	31,731		
L241C (LT)	—	—	42	48	53,093	45	26,938		
L157H (LT)	—	—	39	48	49,962	46	25,788		
1012 RR (RT)	34	39	38	41	66,570	40	24,961		
2024 CL (ST)	—	—	—	44	18,505	40	24,652		
PV 200 CL (ST)	—	36	35	44	21,738	44	24,438		
2026 CL (ST)	—	—	—	—	—	42	19,181		
2022CL (ST)	—	—	35	42	64,952	41	18,496		
V22-1 (RT)	—	39	34	39	2,120	38	16,904		
1026 RR (RT)	—	—	—	—	—	41	15,515		
45H76 (ST)	36	42	36	42	10,943	36	14,923		
75-45 RR (RT)	34	38	36	42	15,142	44	14,561		
45CS40 (RT)	—	—	35	44	15,054	44	12,501		
45H75 CL (ST)	38	42	41	49	7,612	44	12,396		
45CM36 (RT)	—	—	—	—	—	47	11,738		
45M38 (RT)	—	—	—	—	—	38	10,577		
4157 RR (RT)	—	41	36	45	11,184	41	9,940		
CS2100 (RT)	—	—	37	41	21,097	38	9,090		
CS2300 (RT)	—	—	—	—	—	43	8,889		
1020 RR (RT)	—	41	43	45	25,869	47	8,709		
D3154S (RT)	34	47	36	42	6,049	44	7,856		
6080 RR (RT)	—	—	42	45	2,164	51	7,002		
PV 560 GM (RT)	—	—	—	40	5,938	36	5,265		
2020 CL (ST)	—	36	38	41	26,909	43	5,202		
46M34 (RT)	—	—	43	45	15,083	43	5,143		
C5507	—	—	—	35	1,346	32	4,942		
CS2000 (RT)	—	45	35	43	13,542	34	4,596		
5545CL (ST)	—	—	—	40	1,649	49	4,311		
L130 (LT)	37	42	40	46	48,698	46	3,672		
46H76	—	—	—	—	—	47	3,520		
45H31 (RT)	34	43	41	41	7,345	36	3,492		
4187 RR (RT)	—	—	—	47	2,629	33	3,312		
6090 (RT)	—	—	—	—	—	40	3,178		
5440 (LT)	37	43	42	44	110,127	31	2,970		
PV 533 G (RT)	—	39	34	39	14,073	37	2,676		
1970 (RT)	34	41	34	40	5,636	35	2,572		
6076 CR (RT)	—	—	—	46	1,946	43	2,496		
1140 (LT)	34	45	46	52	5,691	46	2,226		
CS2500 CL (ST)	—	—	—	—	—	49	1,789		
D3155C (RT)	—	40	40	36	5,747	46	1,673		
45S56 (RT)	—	39	36	45	3,618	46	1,583		
45A51 (RT)	—	—	—	—	—	50	1,576		
D3156M (RT)	—	—	—	—	—	43	1,518		
1918 (RT)	21	33	24	31	2,741	30	1,496		
73-65 RR (RT)	—	—	—	45	1,000	39	1,491		
1134 CA	—	—	—	—	—	45	1,458		
45H37 (RT)	—	—	—	—	—	38	1,429		
6060 RR (RT)	35	40	34	41	3,604	38	1,349		
PV 530 G (RT)	34	38	32	35	2,444	38	1,305		
43E03RR (RT)	—	39	34	34	2,064	33	1,275		
PV 581 GC (RT)	—	—	—	43	4,059	37	1,227		
6050 RR (RT)	—	38	32	31	1,928	37	1,217		
45H29 (RT)	36	39	39	39	2,988	36	1,181		
73-75 RR (RT)	34	37	35	39	3,128	41	1,127		
CS2200 CL (ST)	—	—	—	47	1,586	50	1,076		
SY4166 (RT)	—	—	40	41	609	43	1,051		
45A76 (ST)	19	50	43	34	722	47	1,022		
VT 500 G (RT)	31	35	28	32	2,467	40	949		
75-42 CR (RT)	—	—	—	—	—	40	921		
72-65 RR (RT)	32	—	—	44	970	42	912		
46A76 (ST)	26	28	27	33	2,750	40	676		

CANOLA YIELDS BY VARIETY 2014–2018†								MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres		
45H26 (RT)	—	37	—	52	1,187	48	640		
73-15 RR (RT)	29	—	17	33	812	41	640		
1010 RR (RT)	39	—	—	40	852	39	589		
V12-2 (RT)	34	40	45	37	1,435	42	588		
9551 (RT)	—	—	—	—	—	39	574		
2012 CL (ST)	28	34	34	41	4,032	26	513		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§								45.7	3,119,507

WHEAT YIELDS BY VARIETY 2014–2018†								MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres		
AAC BRANDON (RS)	63	58	55	70	1,140,233	65	1,592,386		
AAC ELIE (RS)	61	58	55	67	169,878	62	211,748		
CARDALE (RS)	58	55	51	68	229,536	61	169,718		
FALLER (NHR)	—	—	—	—	—	72	126,303		
AAC VIEWFIELD EXP (RS)	—	—	—	77	7,134	68	96,583		
CARBERRY (RS)	50	48	45	58	88,504	53	49,845		
GLENW (RS)	49	48	48	61	100,086	56	45,497		
CDC LANDMARK (RS)	—	—	—	73	5,614	68	36,847		
CDC PLENTIFUL (RS)	53	50	49	61	53,531	60	35,035		
AC DOMAIN (RS)	36	41	49	63	35,317	55	33,265		
AAC REDWATER (RS)	—	—	57	61	26,363	63	32,017		
PROSPER (NHR)	—	—	—	—	—	74	31,314		
SY ROWYN (PS)	—	—	61	77	26,781	68	28,694		
AAC PENHOLD (PS)	—	64	65	78	32,736	72	20,497		
AAC W1876 (RS)	—	47	47	59	13,196	59	18,323		
5605HR CL (RS)	38	52	42	53	20,248	47	16,783		
AAC CAMERON VB (RS)	—	—	—	53	2,944	58	15,728		
EMERSON (W)	57	66	71	59	28,998	53	15,533		
CDC STANLEY (RS)	46	47	45	62	18,247	49	13,040		
AAC GATEWAY (W)	70	70	81	66	13,332	62	12,346		
AAC REDBERRY (RS)	—	—	—	66	743	62	11,273		
AAC CONNERY (RS)	—	—	55	67	10,649	68	10,696		
MUCHMORE (RS)	51	52	54	66	15,274	65	9,351		
CDC TITANIUM (RS)	—	—	48	56	6,309	58	6,460		
CDC VR MORRIS (RS)	47	45	49	60	8,853	68	6,081		
AAC TISDALE (RS)	—	—	—	—	—	65	5,708		
AC STETTLER (RS)	—	—	—	—	—	73	5,607		
CDC GO (RS)	52	54	56	68	5,419	61	4,301		
5604HR CL (RS)	47	47	45	63	5,458	58	3,652		
WR859 CL (RS)	50	51	50	63	6,174	58	3,385		
CDC UTMOST (RS)	48	47	48	46	2,054	48	2,596		
AC BARRIE (RS)	46	39	39	43	2,666	45	2,265		
SY SOVITE (RS)	—	—	—	71	801	53	2,159		
CDC IMAGINE (RS)	41	54	66	74	2,316	61	1,982		
PASTEUR (OS)	69	62	58	79	4,272	70	1,802		
HARVEST (RS)	53	51	54	72	32,096	58	1,662		
AC SPLENDOR (RS)	40	48	44	48	2,345	46	1,621		
CDC FALCON (W)	59	72	79	66	2,473	69	1,571		
CDC BUTEO (W)	38	49	62	49	2,371	48	1,420		
AAC ELEVATE (W)	—	—	—	—	—	40	1,376		
CDC HUGHES (RS)	—	—	—	—	—	70	1,250		
ELGIN ND (NHR)	—	—	—	—	—	54	1,081		
AC INTREPID (RS)	39	37	29	37	884	36	993		
KANE (RS)	47	41	43	42	2,306	47	917		
SY SLATE (RS)	—	—	—	—	—	68	917		
MCCLEINTOCK (W)	40	50	58	50	658	62	719		
BOLLES (OS)	—	—	—	—	—	60	710		
5602HR (RS)	33	40	39	54	1,071	45	502		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§								63.8	2,706,019

SOYBEAN YIELDS BY VARIETY 2014–2018†								MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres		
S007-Y4 RR2Y (RT)	38	41	44	38	180,497	33	233,811		
DKB005-52 (RT)	—	—	54	38	26,451	32	106,899		
S0009-M2 (RT)	—	43	41	37	74,166	35	94,476		
AKRAS R2 (RT)	—	42	41	35	117,767	31	85,481		
NSC WATSON RR2Y (RT)	—	45	41	34	71,645	32	78,939		
24-10RY (RT)	35	42	47	37	96,750	34	71,828		
23-60RY (RT)	36	38	40	34	131,547	31	62,255		
P006T46R (RT)	—	—	45	33	116,464	31	61,188		
S006-W5 (RT)	—	—	—	38	27,580	33	58,523		
P007A90R (RT)	—	—	—	36	4,909	33	51,526		
TH 87003R2X (RR2X)	—	—	46	34	6,477	33	45,390		
ISIS RR (RT)	30	35	38	31	42,933	23	38,034		

† Yields only for those varieties grown on more than 500 acres and by more than

SOYBEAN YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
LS MISTRAL (RT)	—	—	43	38	8,392	34	37,897	
PS 0027 RR (RT)	—	33	33	28	49,198	29	37,389	
25-10RY (RT)	38	43	47	33	69,350	32	30,920	
LS 003R24N (RT)	36	39	44	33	65,602	35	29,623	
22-60RY (RT)	—	38	40	37	45,127	33	27,462	
P002A63R (RT)	—	—	—	34	6,448	33	26,545	
NSC RICHER RR2Y (RT)	38	40	44	33	38,612	33	24,733	
MAHONY R2 (RT)	—	45	44	35	40,497	32	24,204	
LS ECLIPSE (RT)	—	—	44	36	16,790	31	23,916	
NSC GLADSTONE RR2Y (RT)	33	37	40	32	47,384	33	23,223	
TH 33003R2Y (RT)	30	39	39	34	47,647	33	20,399	
P006T78R2 (RT)	—	43	41	36	36,800	30	20,087	
24-12RY (RT)	—	—	50	33	79,921	30	18,823	
LS SOLAIRE (RT)	—	—	—	32	5,508	33	18,736	
NSC JORDAN RR2Y (RT)	—	—	—	34	5,996	30	17,781	
S003-L3 (RT)	—	—	46	36	18,369	31	17,068	
TH 32004R2Y (RT)	33	37	42	37	42,709	31	16,768	
PRO 2525R2 (RT)	—	34	47	36	27,133	31	15,182	
P005A27X (RR2X)	—	—	—	33	1,115	31	13,329	
NSC STARBUCK (RR2X)	—	—	48	32	25,720	31	12,932	
TORRO R2 (RT)	—	—	—	36	8,500	33	12,381	
S008-M2 (RT)	—	—	—	37	2,737	33	12,233	
PV10S005RR2 (RT)	—	—	—	36	5,568	33	11,768	
NOTUS R2 (RT)	—	40	39	35	9,717	37	9,561	
PS 0074 R2 (RT)	39	41	43	36	11,478	28	9,560	
TH ASTRO R2Y (RT)	—	—	—	32	14,392	37	9,546	
LS 003R24N (RT)	31	37	41	34	21,031	29	9,435	
DUGALDO R2X (RR2X)	—	—	47	36	4,920	32	8,943	
OAC PRUDENCE	27	35	32	24	12,665	23	8,366	
P008T22R2 (RT)	36	39	44	32	25,054	32	8,316	
LS 003R22 (RT)	34	38	40	33	7,138	28	7,926	
NSC WARREN RR (RT)	31	38	30	26	11,241	24	7,570	
P002A19X (RR2X)	—	—	—	33	2,948	31	7,552	



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SOYBEAN YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
DYLANO R2X (RT)	—	—	—	33	9,192	31	7,248	
DKB003-29 (RR2X)	—	—	—	—	—	31	7,091	
TH 33005R2Y (RT)	37	41	46	35	32,023	32	6,763	
LONO R2 (RT)	—	—	47	33	9,607	30	6,669	
BARKER R2X	—	—	—	29	4,620	32	6,287	
NSC LEROY RR2Y (RT)	—	—	—	33	10,223	30	6,231	
GRAY R2 (RT)	35	42	44	34	9,952	34	6,200	
LS 005R22 (RT)	35	41	43	34	14,282	30	5,417	
MCLEOD R2 (RT)	33	37	39	32	11,775	29	5,398	
TH 87000 R2X (RT)	—	—	—	—	—	22	5,251	
TH 88007 R2X	—	—	—	—	—	33	4,958	
S0009-D6 (RT)	—	—	—	33	1,168	33	4,788	
NSC RESTON RR2Y (RT)	31	37	39	32	30,988	28	4,629	
23-11RY (RT)	—	38	40	32	20,144	34	3,904	
TH 34006R2Y (RT)	36	40	45	35	11,062	30	3,842	
P002T04R (RT)	29	35	39	32	32,744	31	3,750	
NSC GREENRIDGE RR2Y	—	—	—	34	988	28	3,668	
LS 0036RR (RT)	—	39	48	26	1,714	40	3,525	
LS 004XT (RR2X)	—	—	—	—	—	34	3,463	
B003-29 (RT)	—	—	—	—	—	29	3,385	
PS 0035 NR2 (RT)	—	38	42	31	12,961	31	3,377	
P005T13R (RT)	—	—	46	32	11,117	32	3,335	
ASTRO R2 (RT)	40	42	44	35	6,184	35	3,200	
TH 3303R2Y (RT)	—	38	42	34	6,327	33	3,148	
DKB006-29 (RR2X)	—	—	—	38	917	29	3,069	
FOOTE R2 (RT)	—	—	—	32	878	36	3,053	
TH 37004 R2Y (RT)	—	—	—	35	4,239	29	2,852	
P0007A43R (RT)	—	—	—	28	1,350	28	2,848	
MAXUS	—	—	—	34	528	23	2,655	
0066 XR (RR2X)	—	—	40	32	2,729	32	2,610	
27005RR (RT)	—	—	43	35	1,704	31	2,456	
NSC ARNAUD RR2Y (RT)	—	45	40	33	9,348	30	2,186	
PV 12S007 RX2 (RT)	—	—	—	—	—	32	2,162	
AAC EDWARD	—	—	—	18	2,067	11	2,104	
HS 006RYS24 (RT)	35	35	46	29	3,019	31	2,049	
S006-M4X (RR2X)	—	—	—	—	—	31	2,033	
PS 00095 R2 (RT)	—	—	—	31	850	23	1,880	
PV11S001RR2	—	—	—	—	—	22	1,707	
LS 006XT (RR2X)	—	—	—	—	—	27	1,682	
KOSMO R2 (RT)	—	—	—	34	4,118	30	1,575	
P000A87R (RT)	—	—	—	32	2,375	27	1,571	
90A06 (RT)	—	—	—	36	1,500	28	1,460	
TH 24004RR (RT)	34	35	41	30	574	43	1,364	
TH 33004R2Y (RT)	—	35	45	31	4,759	32	1,348	
S001-B1 (RT)	—	—	—	34	2,030	21	1,263	
NSC AUSTIN RR2Y (RT)	—	—	44	36	8,736	20	1,206	
BISHOP R2 (RT)	35	35	43	34	1,888	39	1,112	
DARIO R2X (RT)	—	—	—	31	3,395	31	1,100	
LS TRI9R2Y (RT)	—	—	—	—	—	22	1,045	
S0007B-7X (RR2X)	—	—	—	—	—	35	1,031	
NSC SPERLING RR2Y (RR2X)	—	—	—	—	—	31	993	
TH 88005 R2X	—	—	—	—	—	30	948	
NSC STARCITY RR2X (RR2X)	—	—	—	32	13,640	27	935	
TH 23005RR (RT)	36	41	40	—	—	29	898	
PS0044 XRN (RR2X)	—	—	—	—	—	30	878	
90A07	—	—	—	37	1,503	36	869	
23-10RY (RT)	31	35	37	36	4,104	40	860	
NSC NEWTON RR2X (RT)	—	—	—	—	—	27	855	
DKB006-99 (RR2X)	—	—	—	—	—	26	848	
TH 36007R2Y (RT)	—	—	51	38	1,316	21	842	
MARDUK R2X (RT)	—	—	—	—	—	30	842	
LS TRI7XT (RR2X)	—	—	—	—	—	23	832	
DKB007-67 (RR2X)	—	—	—	—	—	32	819	
24-61RY (RT)	38	39	42	—	—	27	817	
DS0067Z1 (RT)	—	—	—	—	—	28	798	
25-04R (RT)	—	—	—	38	1,642	29	771	
PRINCE R2X (RR2X)	—	—	—	—	—	28	746	
TH 27003RR (RT)	28	41	46	37	1,593	33	732	
CROPLAN RX00797 (RT)(DT)	—	—	—	—	—	32	720	
SR006HP	—	—	36	27	2,236	25	687	
NOCOMA R2	—	—	—	—	—	30	687	
900Y61 (RT)	30	35	40	29	751	34	672	
OPUS	—	—	—	34	902	30	666	
TH 88008 R2X	—	—	—	36	698	30	635	
LS 002R23 (RT)	31	37	46	34	2,572	33	602	
NSC REDVERS RR2X (RR2X)	—	—	—	—	—	31	600	
DKB008-81 (RT)	—	—	46	36	5,943	31	590	

† 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 3, 2019;
 * Assuming 48 lbs./bu.



SOYBEAN YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
24-60RY (RT)	—	37	—	31	631	35	570	
NSC COULEE RR (RT)	—	—	—	—	—	27	521	
PR110524Z023	—	—	—	—	—	25	518	
TH 33006R2Y (RT)	—	44	53	28	724	25	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							31.8 1,841,379	

OATS YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	130	125	140	130,578	107	161,266	
SUMMIT	110	114	116	137	161,636	106	148,462	
SOURIS	97	101	101	110	72,739	87	35,628	
PINNACLE	73	85	94	103	12,385	84	6,465	
FURLONG	90	94	97	101	7,435	69	4,327	
LEGGETT	75	81	86	84	4,778	70	3,805	
BIG BROWN	85	99	109	121	5,518	105	3,748	
AC MORGAN	91	73	97	110	4,947	77	2,859	
AAC JUSTICE	—	102	105	93	1,726	77	2,560	
RONALD	109	99	80	142	4,580	95	2,550	
CDC HAYMAKER	—	91	74	98	1,538	75	2,057	
CDC MORRISON	73	115	87	143	1,305	94	1,877	
CDC DANCER	66	84	97	77	2,699	46	1,868	
TRIPLE CROWN	53	67	67	81	2,026	45	1,849	
CDC SO-I	—	64	82	64	1,814	63	1,471	
ORE3542M	—	—	—	—	—	120	1,448	
CDC BALER	45	106	89	101	918	40	1,372	
ORE3541M	—	—	—	—	—	127	1,299	
STRIDE	85	101	96	96	2,212	61	1,267	
GEHL	70	62	70	86	1,695	67	1,153	
RIEL	73	105	—	112	1,017	56	1,063	
TRIACTOR	104	105	101	128	2,409	119	1,019	
HAYWIRE	—	125	128	149	2,051	90	920	
DUMONT	—	54	—	—	—	70	810	
ROBERT	30	58	51	55	760	94	583	
CDC NASSER	—	—	—	—	—	77	524	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							100.5 401,797	

CORN YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7527AM (LT)(RT)	—	—	—	136	20,487	126	65,914	
DKC33-78RIB (RIB)	—	—	176	155	25,884	132	55,580	
P7211HR	—	—	142	129	34,585	118	35,762	
P7958AM	99	147	149	142	53,834	133	32,290	
P7632AM (BT)(LT)(RT)	—	140	147	133	68,010	122	27,394	
TH 7578 VT2P RIB (RIB)	—	133	147	130	15,473	126	13,480	
P7227R	—	—	—	—	—	106	12,624	
DKC26-40 (RIB)	—	—	—	—	—	104	9,543	
39V09AM (BT)(HX1)(LT)(RT)	—	—	153	140	10,776	128	9,327	
A4939G2 RIB (RIB)	—	—	170	154	4,425	123	8,467	
P7202AM (HX1)(LT)(RT)	—	—	134	121	16,467	117	7,355	
39V05 (RT)	126	139	152	126	6,948	113	6,425	
DKC35-88RIB (RIB)(RT)	—	—	—	—	—	150	5,566	
DKC32-12RIB (RIB)(RT)	—	—	175	164	1,975	110	5,452	
DKC27-55RIB (BT)(RIB)	—	—	144	137	11,009	85	4,381	
P8387AM (BT)(HX1)(LT)(RT)	—	—	164	142	3,155	135	3,783	
P7332R (RT)	101	134	141	130	33,291	119	3,282	
DKC26-28RIB (BT)(RIB)(RT)	115	135	144	135	7,654	89	2,670	
DKC23-17RIB (VT2P)(RIB)	—	—	124	119	6,811	114	2,407	
MZ 1633DBR (RT)	86	122	156	130	2,406	115	2,190	
P7958YHR (HX1)(LT)(RT)	—	—	—	—	—	136	2,131	
P7632HR (BT)(RT)	119	142	149	145	3,563	135	1,700	
TH 7677 VT2P RIB (RIB)	—	143	146	120	3,603	114	1,579	
PS 2210VT2P RIB (RIB)	—	—	—	94	742	87	1,496	
DKC30-07 (RT)	126	154	157	147	3,254	82	1,279	
A4199G2 RIB (VT2P)(RIB)	—	—	133	126	6,058	105	1,257	
MZ 1624DBR	—	—	—	—	—	128	1,188	
LR 9676VT2PRIB (VT2P)(RIB)	—	—	160	111	1,278	115	1,171	
TH 7673 (VT2P)(RIB)	—	—	131	127	1,943	100	1,135	
P7410HR (HX1)(LT)(RT)	—	138	152	131	8,640	106	1,067	
TH 7681 VT2P (RIB)	—	—	—	115	837	128	1,039	
TH 6875 VT2P (RIB)	—	—	—	—	—	116	1,002	
CROPLAN 2123 VT2P RIB (RIB)	—	—	—	—	—	110	966	
PV60075 RIB RR (RIB)(RT)	—	—	—	—	—	101	841	
MZ 1340DBR (RIB)	—	—	—	134	1,526	98	815	
TH 7574 VT2P RIB (RIB)(RT)	118	121	131	127	1,498	78	805	
NS 72-521 VT2P RIB (RT)	—	—	—	—	—	77	725	

† 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 2014–2018†							MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
9474 (RT)	—	—	135	—	—	76	670	
P7005AM (BT)(HX1)(LT)(RT)	—	—	119	106	5,213	117	660	
P7535HR (BT)(LT)(RT)	—	—	—	—	—	153	585	
HZ 1885	—	—	—	—	—	108	575	
P8542AM (BT)(HX1)(LT)(RT)	—	—	—	159	1,663	155	553	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							122.5 351,775	

BARLEY* YIELDS BY VARIETY 2014–2018†							MANITOBA	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	70	80	78	88	50,355	77	53,876	
CONLON	68	69	73	99	51,734	77	49,856	
AC METCALFE	52	64	58	76	14,661	76	22,274	
AAC SYNERGY	—	—	77	90	19,834	84	20,605	
CDC COPELAND	55	64	70	82	19,523	77	19,897	
NEWDAL	58	74	69	78	13,369	70	12,169	
CELEBRATION	66	71	71	83	17,467	60	11,349	
CANMORE	—	—	80	100	9,279	83	9,629	
TRADITION	62	73	69	92	10,365	73	6,924	
CHAMPION	61	66	65	77	6,380	77	5,783	
AAC CONNECT	—	—	—	—	—	80	3,684	
BENTLEY	61	70	71	66	4,931	68	3,154	
CDC MAVERICK	—	—	58	60	1,352	33	1,966	
LEGACY	47	64	68	76	1,200	75	1,640	
CDC COWBOY	40	54	54	48	2,270	42	1,468	
STELLAR-ND	55	68	62	67	1,264	65	1,216	
CLAYMORE	—	—	—	—	—	66	1,189	
CDC KINDERSLEY	—	64	70	62	1,377	76	859	
DESPERADO	56	62	81	92	631	51	693	
ROBUST	70	74	32	63	914	53	656	
LACEY	68	74	63	65	850	58	587	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							74.7 236,212	



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DRY BEAN YIELDS BY VARIETY 2014–2018†								MANITOBA
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
WINDBREAKER (PINTO)	1,801	2,161	1,744	2,407	39,373	1,953	26,462	
ECLIPSE (BLACK)	1,530	1,834	1,609	2,103	18,732	1,750	23,037	
T9905 (WHITE PEA)	1,918	1,905	1,967	2,123	18,541	1,874	14,367	
VIBRANT (PINTO)	—	—	—	2,635	1,053	2,050	8,607	
MONTERREY (PINTO)	—	1,898	1,314	2,216	4,527	1,949	6,915	
ETNA (CRANBERRY)	1,413	1,949	—	1,799	1,187	1,682	3,614	
PINK PANTHER (KIDNEY)	1,241	1,788	1,351	2,167	3,367	1,607	3,609	
CHIANTI (CRANBERRY)	1,757	2,028	2,039	2,015	3,830	1,797	3,260	
DYNASTY (KIDNEY)	—	—	—	—	—	1,702	3,197	
INDI (WHITE PEA)	1,188	1,607	2,487	2,046	3,460	1,691	3,031	
SV6533GR (PINTO)	—	—	2,154	2,324	3,977	2,103	2,690	
CDC BLACKSTRAP (BLACK)	—	—	—	—	—	2,055	1,946	
BERYL (OTHER)	1,658	—	—	2,500	1,594	1,618	1,821	
RED HAWK (KIDNEY)	—	1,232	1,001	1,691	3,584	1,056	1,423	
HIME (OTHER)	—	—	—	—	—	1,892	1,399	
ENVOY (WHITE PEA)	1,433	1,576	1,949	1,446	3,733	1,574	1,123	
ZENITH (BLACK)	—	—	—	—	—	1,592	1,005	
MONTCALM (KIDNEY)	1,279	1,631	937	1,759	889	946	900	
CRIMSON (CRANBERRY)	1,896	2,072	—	2,416	1,546	2,485	857	
MERLOT (SMALL RED)	—	1,704	2,004	—	—	1,676	769	
CABERNET (KIDNEY)	—	—	—	—	—	1,373	740	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§					1814.7		118,882	

FIELD PEA YIELDS BY VARIETY 2014–2018†								MANITOBA
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AMARILLO	—	47	37	49	18,288	46	20,803	
CDC MEADOW	31	42	39	55	20,481	51	13,957	
AAC CARVER	—	—	40	70	2,998	49	10,306	
ABARTH	—	—	43	56	3,418	63	9,012	
AAC LACOMBE	—	—	—	59	1,480	54	5,539	
AGASSIZ	35	51	27	55	6,190	41	3,566	
4010	24	31	27	33	2,415	33	3,173	
CDC SAFFRON	—	—	60	70	2,034	58	1,459	
CDC STRIKER	35	36	45	—	—	28	1,411	
CDC SPECTRUM	—	—	—	—	—	21	1,337	
LIVIOLETTA	24	42	20	53	1,241	44	1,320	
AAC ARDILL	—	—	34	54	779	60	764	
CDC INCA	—	—	—	—	—	42	710	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§					48.8		78,085	

SUNFLOWER YIELDS BY VARIETY 2014–2018†								MANITOBA
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
6946 DMR (C)	1,506	1,638	1,598	2,112	18,781	2,198	9,295	
TALON (O)	1,292	1,537	1,609	1,759	5,069	1,975	6,784	
P63ME70 (O)	1,967	1,746	1,627	2,269	11,107	2,782	5,560	
P63ME80 (O)	1,345	1,843	1,532	2,321	6,425	2,626	5,141	
P63M80 (O)	1,839	1,695	1,896	1,808	3,037	1,907	3,432	
N4HM354 (O)	—	—	—	2,213	806	2,712	2,880	
6946 (C)	1,257	1,603	1,226	2,319	3,110	2,361	2,021	
COBALT II (ST) (O)	1,314	1,305	1,691	1,567	1,460	1,870	1,787	
JAGUAR DMR (C)	1,598	1,579	1,653	1,638	1,168	1,870	1,473	
MYCOGEN 8H288DM (O)	—	—	—	1,744	1,738	1,554	747	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§					2304.5		42,914	

FLAX YIELDS BY VARIETY 2014–2018†								MANITOBA
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC GLAS	28	28	26	35	6,376	29	7,648	
CDC BETHUNE	20	21	21	27	10,027	24	7,264	
CDC SORREL	20	22	17	27	7,241	29	6,472	
CDC NEELA	—	—	—	30	851	28	2,543	
AAC BRAVO	—	19	25	33	2,579	26	2,166	
HANLEY	22	26	30	36	2,272	20	1,573	
LIGHTNING	24	23	25	23	4,971	25	1,477	
WESTLIN 72	—	—	—	39	928	29	1,124	
NULIN VT 50	—	25	26	—	—	30	548	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§					27.1		33,665	

† 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.

RISK AREA 1

CANOLA YIELDS BY VARIETY 2014–2018†								RISK AREA 1
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	40	8,332	38	34,814	
L252 (LT)	34	34	36	36	25,967	38	24,464	
L140P (LT)	—	33	35	38	19,019	38	12,540	
L255PC (LT)	—	—	—	—	—	39	4,986	
L230 (LT)	—	—	—	40	5,642	33	4,783	
75-65 RR (RT)	—	—	36	33	5,203	37	4,320	
1022 RR (RT)	—	—	35	38	6,318	35	3,869	
45H33 (RT)	—	32	31	34	2,864	35	3,782	
L241C (LT)	—	—	39	38	2,512	36	2,733	
6074 RR (RT)	—	—	38	49	4,700	38	2,272	
74-44 BL (RT)	37	32	36	33	4,115	39	1,681	
L157H (LT)	—	—	—	33	4,491	34	1,455	
6076 CR (RT)	—	—	—	—	—	37	1,447	
V22-1 (RT)	—	—	—	—	—	38	1,394	
46H75 (ST)	29	30	30	37	4,208	34	1,380	
75-45 RR (RT)	—	—	34	—	—	36	1,377	
2026 CL (ST)	—	—	—	—	—	19	1,026	
2022CL (ST)	—	—	25	31	5,291	29	945	
PV 540 G (RT)	—	—	—	34	1,178	37	781	
6080 RR (RT)	—	—	—	—	—	35	735	
CS2100 (RT)	—	—	—	32	851	34	635	
45H76 (ST)	—	31	—	—	—	32	528	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						37.0	118,495	

WHEAT YIELDS BY VARIETY 2014–2018†								RISK AREA 1
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	45	46	49	40,782	53	59,937	
AAC ELIE (RS)	—	43	52	49	14,440	53	27,938	
CARBERRY (RS)	34	38	39	45	7,828	47	11,308	
AAC CAMERON VB (RS)	—	—	—	44	1,603	48	2,689	
GLENN (RS)	37	39	40	37	3,423	39	2,532	
5605HR CL (RS)	—	—	31	39	2,205	44	2,229	
EMERSON (W)	—	49	55	49	4,664	42	2,164	
CARDALE (RS)	—	38	32	31	2,090	40	1,958	
FALLER (NHR)	—	—	—	—	—	52	1,071	
PROSPER (NHR)	—	—	—	—	—	55	1,046	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	54	789	
CDC GO (RS)	34	41	42	41	1,472	44	721	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						51.4	118,740	

SOYBEAN YIELDS BY VARIETY 2014–2018†								RISK AREA 1
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S007-Y4 RR2Y (RT)	—	39	40	34	12,917	27	18,021	
ISIS RR (RT)	—	—	35	32	10,677	22	11,413	
AKRAS R2 (RT)	—	—	41	32	14,315	25	9,819	
23-60RY (RT)	—	33	39	34	9,141	23	5,421	
P006T46R (RT)	—	—	—	24	581	26	3,572	
P006T78R2 (RT)	—	—	41	31	3,029	26	2,476	
NSC WARREN RR (RT)	—	—	—	—	—	30	2,347	
NSC RESTON RR2Y (RT)	30	33	37	28	6,182	25	1,752	
NSC WATSON RR2Y (RT)	—	—	24	21	909	26	1,257	
S0009-M2 (RT)	—	—	—	32	534	28	1,229	
DKB005-52 (RT)	—	—	—	—	—	30	1,165	
NSC GLADSTONE RR2Y (RT)	—	—	36	—	—	25	1,019	
LS 003R24N (RT)	—	—	—	—	—	25	987	
TORRO R2 (RT)	—	—	—	—	—	31	827	
P005A27X (RR2X)	—	—	—	—	—	31	769	
NSC STARCITY RR2X (RR2X)	—	—	—	25	545	21	545	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						25.4	69,374	

OATS YIELDS BY VARIETY 2014–2018†								RISK AREA 1
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
SUMMIT	67	78	100	101	13,002	93	9,777	
CS CAMDEN	—	—	113	84	2,664	92	8,279	
SOURIS	63	75	94	87	11,190	91	5,006	
PINNACLE	71	80	98	99	6,605	88	4,190	
LEGGETT	57	66	89	92	2,102	77	2,503	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						89.7	32,622	

‡ On system as of January 3, 2019;
* Assuming 48 lbs./bu.





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CHANGE

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CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 1	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
P7211HR	—	—	110	118	720	116	1,372	
P7227R	—	—	—	—	—	116	1,299	
P7527AM (LT)(RT)	—	—	—	98	510	98	1,092	
P7202AM (HX1)(LT)(RT)	—	—	—	93	1,182	74	702	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							100.9	5,831

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 1	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
AC METCALFE	—	—	—	—	—	66	2,203	
CDC COPELAND	—	57	64	64	1,808	59	2,098	
CELEBRATION	53	55	68	60	2,297	65	1,474	
CDC AUSTENSON	—	69	—	—	—	79	1,331	
BENTLEY	44	60	—	—	—	61	521	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							63.9	9,453

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 1	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CDC AMARILLO	—	—	36	38	1,919	39	2,966	
CDC MEADOW	18	41	34	45	2,345	42	1,248	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							41.5	6,035

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 1	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
TALON (O)	—	1,775	1,543	1,759	2,705	1,673	3,414	
COBALT II (ST) (O)	—	—	1,916	—	—	752	580	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							1814.1	7,804

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 1	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CDC BETHUNE	12	18	21	21	2,338	23	1,294	
CDC NEELA	—	—	—	—	—	27	1,013	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							24.8	2,793

RISK AREA 2

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
L233P (LT)	—	—	—	49	33,652	47	131,951	
L252 (LT)	35	41	40	47	80,691	44	57,454	
L230 (LT)	—	—	—	47	23,649	44	23,329	
L140P (LT)	42	44	39	47	62,620	44	21,678	
L255PC (LT)	—	—	—	—	—	47	14,195	
74-44 BL (RT)	39	39	37	43	16,636	39	7,945	
6074 RR (RT)	—	41	31	46	7,585	42	7,300	
PV 540 G (RT)	—	—	—	40	3,450	39	7,083	
75-65 RR (RT)	—	—	34	42	5,991	39	6,590	
L241C (LT)	—	—	39	46	6,496	39	4,533	
L157H (LT)	—	—	44	46	7,331	43	3,207	
1022 RR (RT)	—	—	35	41	6,125	39	3,039	
2024 CL (ST)	—	—	—	—	—	45	3,023	
4157 RR (RT)	—	41	34	45	1,204	37	2,761	
46H75 (ST)	40	40	44	46	3,127	41	2,715	
2022CL (ST)	—	—	35	45	6,120	41	2,696	
45H33 (RT)	—	44	34	37	1,463	38	1,744	
45M35 (RT)	—	—	—	41	1,749	44	1,564	
PV 560 GM (RT)	—	—	—	42	734	41	1,540	
1024 RR (RT)	—	—	—	—	—	33	1,308	
PV 200 CL (ST)	—	—	32	42	3,041	40	1,166	
45CM36 (RT)	—	—	—	—	—	41	905	
1012 RR (RT)	32	35	34	32	1,426	30	875	
45H75 CL (ST)	—	—	—	—	—	37	780	
6080 RR (RT)	—	—	—	—	—	41	531	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							44.5	315,207

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
AAC BRANDON (RS)	67	54	55	64	142,755	64	204,276	
AAC ELIE (RS)	—	59	59	64	40,799	66	41,227	
CARDALE (RS)	53	52	50	56	17,721	58	10,871	
AAC VIEWFIELD EXP (RS)	—	—	—	71	550	66	7,973	
CDC PLENTIFUL (RS)	51	56	49	58	9,692	63	6,785	
FALLER (NHR)	—	—	—	—	—	77	6,436	
AAC W1876 (RS)	—	—	50	60	5,486	59	6,060	
PROSPER (NHR)	—	—	—	—	—	73	4,996	
CARBERRY (RS)	49	47	48	51	13,200	47	4,320	
AAC CAMERON VB (RS)	—	—	—	—	—	64	3,169	
GLENN (RS)	51	53	51	65	11,387	62	2,556	
5605HR CL (RS)	—	—	39	53	2,840	48	1,791	
AAC REDBERRY (RS)	—	—	—	—	—	59	1,398	
AAC GATEWAY (W)	—	—	78	65	1,124	71	1,114	
CDC LANDMARK (RS)	—	—	—	—	—	62	875	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							63.8	310,341

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
S007-Y4 RR2Y (RT)	—	36	44	40	37,469	30	41,274	
ISIS RR (RT)	—	36	44	33	14,650	23	14,201	
AKRAS R2 (RT)	—	—	40	37	21,479	25	12,104	
23-60RY (RT)	—	33	40	37	18,967	26	9,021	
TH 32004R2Y (RT)	37	35	44	39	14,161	33	5,734	
NSC WATSON RR2Y (RT)	—	—	34	38	7,773	29	5,381	
22-60RY (RT)	—	—	45	39	7,629	24	4,347	
S0009-M2 (RT)	—	—	40	37	5,375	30	4,257	
P006T46R (RT)	—	—	—	33	9,592	30	4,179	
TH 87003R2X (RR2X)	—	—	—	—	—	31	4,177	
S006-W5 (RT)	—	—	—	—	—	28	3,552	
DKB003-29 (RR2X)	—	—	—	—	—	31	3,500	
PV10S005RR2 (RT)	—	—	—	29	665	29	2,875	
MAHONY R2 (RT)	—	—	47	38	3,740	30	2,715	
NOTUS R2 (RT)	—	—	34	39	2,474	28	2,159	
DKB005-52 (RT)	—	—	—	43	1,458	27	1,807	
P005A27X (RR2X)	—	—	—	—	—	22	1,519	
P007A90R (RT)	—	—	—	—	—	25	1,491	
P002A63R (RT)	—	—	—	—	—	25	1,358	
LS 003R24N (RT)	—	—	—	36	3,578	27	1,354	
NSC LEROY RR2Y (RT)	—	—	—	33	848	32	1,274	
S003-L3 (RT)	—	—	—	33	2,929	30	1,138	
TH 33003R2Y (RT)	27	37	47	39	2,646	23	961	
LS SOLAIRE (RT)	—	—	—	—	—	25	935	
P006T78R2 (RT)	—	—	43	37	5,239	12	925	
LS 003R22 (RT)	—	—	—	—	—	17	908	
P005T13R (RT)	—	—	—	34	2,274	32	886	
23-11RY (RT)	—	37	—	35	1,592	34	776	
S006-M4X (RR2X)	—	—	—	—	—	34	725	
KOSMO R2 (RT)	—	—	—	—	—	28	680	
NSC GLADSTONE RR2Y (RT)	—	32	47	39	1,884	19	655	
PS 0035 NR2 (RT)	—	35	48	37	1,832	20	526	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							27.5	154,475

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
SUMMIT	100	90	128	134	17,060	104	14,850	
CS CAMDEN	—	—	—	138	12,183	110	12,138	
SOURIS	93	96	95	93	4,888	88	1,770	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							102.3	29,947

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
P7227R	—	—	—	—	—	78	4,336	
P7527AM (LT)(RT)	—	—	—	123	1,480	104	2,750	
P7211HR	—	—	153	111	2,986	115	2,677	
DKC26-40 (RIB)	—	—	—	—	—	99	1,995	
DKC26-28RIB (BT)(RIB)(RT)	96	123	144	131	3,823	82	1,497	
P7332R (RT)	97	153	141	125	8,378	111	974	
P7202AM (HX1)(LT)(RT)	—	—	—	102	1,663	99	672	
DKC32-12RIB (RIB)(RT)	—	—	—	—	—	108	611	

† 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 3, 2019;
* Assuming 48 lbs./bu.

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
DKC33-78RIB (RIB)	—	—	—	—	—	94	527	
TH 7578 VT2P RIB (RIB)	—	—	—	—	—	106	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							97.6	20,455

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
NEWDALÉ	55	62	69	75	1,298	56	4,595	
AAC SYNERGY	—	—	87	78	3,275	91	2,796	
CDC AUSTENSON	96	89	90	100	2,260	102	2,720	
AC METCALFE	—	68	58	68	1,546	77	2,615	
CONLON	75	70	84	93	1,577	75	2,052	
CELEBRATION	56	72	75	71	985	61	1,403	
CDC COPELAND	—	—	85	—	—	64	1,315	
TRADITION	66	64	63	76	1,898	61	919	
BENTLEY	67	71	79	76	1,198	78	505	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							74.0	20,054

DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC BLACKSTRAP (BLACK)	—	—	—	—	—	1,870	1,221	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1869.5	1,221

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AGASSIZ	—	47	31	67	801	39	832	
CDC MEADOW	32	43	33	51	923	41	825	
CDC AMARILLO	—	—	40	—	—	41	711	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							37.9	4,699

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 2	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC SORREL	17	25	18	26	1,294	26	1,882	
CDC BETHUNE	19	21	19	32	1,130	20	1,422	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							25.2	4,401

RISK AREA 3

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	45	12,092	46	39,115	
L252 (LT)	36	41	39	43	40,283	42	25,449	
L230 (LT)	—	—	—	37	9,019	40	11,592	
L255PC (LT)	—	—	—	—	—	47	7,840	
45H33 (RT)	—	40	36	40	4,102	39	5,881	
46H75 (ST)	31	40	33	41	7,388	45	5,532	
L140P (LT)	36	43	38	42	10,303	41	4,562	
1024 RR (RT)	—	—	—	—	—	38	4,125	
1022 RR (RT)	—	—	39	38	8,875	43	3,959	
45M35 (RT)	—	—	—	39	5,972	39	3,853	
75-65 RR (RT)	—	—	36	38	3,870	36	2,838	
6074 RR (RT)	—	—	38	38	3,928	41	2,805	
4157 RR (RT)	—	—	41	—	—	35	2,113	
45H75 CL (ST)	—	38	—	—	—	51	1,542	
45CM36 (RT)	—	—	—	—	—	43	1,535	
45H76 (ST)	—	38	41	—	—	39	1,495	
45CS40 (RT)	—	—	—	36	1,974	32	1,451	
45H31 (RT)	31	38	42	37	937	36	1,383	
74-44 BL (RT)	31	37	33	33	2,829	40	1,278	
2024 CL (ST)	—	—	—	—	—	36	1,247	
CS2100 (RT)	—	—	38	39	2,544	38	1,151	
V22-1 (RT)	—	—	—	—	—	39	924	
L241C (LT)	—	—	33	34	1,912	40	876	
1012 RR (RT)	33	40	37	39	4,890	37	754	
D3154S (RT)	—	—	—	40	780	40	753	
2022CL (ST)	—	—	—	38	2,544	40	527	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							42.1	144,349

† 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.

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	55	52	50	57	62,994	61	77,776	
AAC ELIE (RS)	—	49	43	55	9,828	63	11,731	
GLENN (RS)	40	41	46	43	11,178	49	6,056	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	61	5,823	
CDC LANDMARK (RS)	—	—	—	—	—	66	4,651	
CARDALE (RS)	38	40	39	49	5,669	54	2,966	
AAC REDWATER (RS)	—	—	—	46	1,093	62	2,139	
CDC PLENTIFUL (RS)	—	46	47	53	1,865	60	1,893	
CARBERRY (RS)	40	47	41	54	4,833	53	1,813	
FALLER (NHR)	—	—	—	—	—	61	1,701	
PROSPER (NHR)	—	—	—	—	—	56	1,021	
AAC CAMERON VB (RS)	—	—	—	—	—	65	1,020	
EMERSON (W)	—	43	54	49	4,080	32	987	
5605HR CL (RS)	—	50	28	36	1,392	36	850	
AAC REDBERRY (RS)	—	—	—	—	—	61	622	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							59.7	122,823

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S007-Y4 RR2Y (RT)	—	—	—	37	2,012	32	5,634	
TH 33003R2Y (RT)	30	38	36	33	9,070	31	5,039	
AKRAS R2 (RT)	—	—	32	31	2,789	30	3,137	
S0009-M2 (RT)	—	—	39	31	3,893	32	2,620	
P006T46R (RT)	—	—	—	39	740	24	1,811	
MAHONY R2 (RT)	—	—	—	28	2,481	31	1,514	
TORRO R2 (RT)	—	—	—	30	578	28	1,269	
ISIS RR (RT)	—	—	—	—	—	21	1,245	
P002A63R (RT)	—	—	—	—	—	31	1,238	
23-60RY (RT)	—	40	33	35	7,049	28	1,167	
TH 87003R2X (RR2X)	—	—	—	—	—	27	825	

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† On system as of January 3, 2019;
 * Assuming 48 lbs./bu.



SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P005A27X (RR2X)	—	—	—	—	—	29	757	
P006T78R2 (RT)	—	—	21	34	1,764	29	510	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						29.6	32,775	

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	—	131	91	2,528	89	3,602	
SOURIS	63	85	83	82	2,876	65	2,641	
SUMMIT	90	68	88	83	1,690	67	1,374	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						70.7	9,817	

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7211HR	—	—	91	115	1,149	111	2,400	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						103.4	3,604	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	46	67	72	80	4,441	71	5,809	
CDC COPELAND	46	59	63	72	1,296	73	2,289	
BENTLEY	42	61	59	57	1,369	58	1,399	
NEWDALE	38	58	63	63	1,227	76	1,019	
CONLON	47	66	72	83	816	70	577	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						67.5	14,974	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AMARILLO	—	—	—	32	1,818	37	1,624	
CDC MEADOW	28	38	39	36	2,508	42	1,447	
4010	25	37	—	33	1,071	28	879	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						36.2	4,996	

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 3	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC BETHUNE	—	16	12	27	1,076	11	763	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						18.8	1,580	

RISK AREA 4

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	51	16,686	47	75,068	
L252 (LT)	44	44	43	46	65,814	44	42,376	
L230 (LT)	—	—	—	47	14,595	45	13,142	
L140P (LT)	41	44	44	48	30,403	43	8,648	
L255PC (LT)	—	—	—	—	—	50	4,458	
1022 RR (RT)	—	—	41	39	4,055	41	4,384	
75-65 RR (RT)	—	—	36	41	6,497	37	4,164	
L241C (LT)	—	—	40	50	5,294	48	4,002	
PV 540 G (RT)	—	—	—	38	1,849	40	2,700	
45H33 (RT)	—	40	37	45	3,906	41	2,271	
74-44 BL (RT)	36	38	38	38	5,124	37	2,106	
V22-1 (RT)	—	—	—	—	—	36	1,932	
1970 (RT)	33	41	—	38	2,117	32	1,798	
2026 CL (ST)	—	—	—	—	—	34	1,547	
2024 CL (ST)	—	—	—	—	—	37	1,405	
L157H (LT)	—	—	46	45	3,824	46	1,264	
46H75 (ST)	37	43	43	38	938	42	1,125	
45H31 (RT)	38	40	31	33	1,239	26	1,010	
6074 RR (RT)	—	—	35	45	1,914	44	956	
45CS40 (RT)	—	—	—	—	—	29	895	
45CM36 (RT)	—	—	—	—	—	39	861	
4157 RR (RT)	—	45	40	42	1,219	41	801	
72-65 RR (RT)	—	—	—	—	—	42	692	
45M35 (RT)	—	—	—	45	868	43	562	
2022CL (ST)	—	—	31	48	2,253	44	555	
CS2100 (RT)	—	—	—	39	1,674	38	540	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						44.1	189,100	

† 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.

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	54	55	67	92,882	60	122,476	
AAC ELIE (RS)	—	60	58	68	8,224	62	16,577	
CARDALE (RS)	50	47	46	56	8,753	51	6,608	
FALLER (NHR)	—	—	—	—	—	56	6,510	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	65	4,506	
AC DOMAIN (RS)	46	44	53	56	4,279	47	4,303	
PROSPER (NHR)	—	—	—	—	—	68	3,966	
CDC PLENTIFUL (RS)	—	43	51	58	3,244	55	3,555	
5605HR CL (RS)	—	—	51	55	4,420	49	2,513	
AAC W1876 (RS)	—	—	—	50	2,201	58	2,028	
CARBERRY (RS)	47	44	40	52	4,927	43	1,395	
GLENN (RS)	47	48	44	61	6,749	44	1,308	
CDC LANDMARK (RS)	—	—	—	—	—	64	1,283	
AAC TISDALE (RS)	—	—	—	—	—	63	529	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						58.9	183,004	

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S007-Y4 RR2Y (RT)	—	43	45	41	13,648	34	24,759	
AKRAS R2 (RT)	—	—	43	38	12,083	35	9,363	
MAHONY R2 (RT)	—	—	52	39	10,768	31	7,496	
P006T78R2 (RT)	—	—	44	41	7,583	31	7,382	
23-60RY (RT)	—	37	41	36	11,519	32	6,676	
S0009-M2 (RT)	—	48	41	40	3,884	33	6,177	
NSC WATSON RR2Y (RT)	—	—	39	35	5,903	27	5,236	
TH 87003R2X (RR2X)	—	—	—	—	—	32	4,793	
P006T46R (RT)	—	—	—	39	2,464	31	3,526	
S003-L3 (RT)	—	—	—	37	5,798	34	3,283	
S006-W5 (RT)	—	—	—	38	835	33	2,743	
LS 003R24N (RT)	—	—	43	34	1,875	27	1,807	
TH 33003R2Y (RT)	32	39	41	38	5,638	36	1,782	
TH 32004R2Y (RT)	37	35	48	38	3,809	29	1,734	
P002A63R (RT)	—	—	—	—	—	26	1,464	
PV10S005RR2 (RT)	—	—	—	—	—	24	1,305	
P005A27X (RR2X)	—	—	—	—	—	34	1,276	
MCLEOD R2 (RT)	—	39	39	38	962	27	1,033	
24-10RY (RT)	—	—	—	—	—	32	1,004	
DKB005-52 (RT)	—	—	—	—	—	30	1,004	
TH 33004R2Y (RT)	—	—	—	—	—	31	992	
LS SOLAIRE (RT)	—	—	—	—	—	28	891	
LS MISTRAL (RT)	—	—	—	—	—	36	744	
TORRO R2 (RT)	—	—	—	—	—	29	617	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						32.2	107,356	

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	—	—	91	1,887	82	4,448	
SUMMIT	79	94	105	94	3,654	70	2,629	
SOURIS	84	69	86	91	2,306	64	896	
PINNACLE	45	60	89	75	1,250	66	580	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						71.5	10,486	

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7211HR	—	—	135	130	7,805	122	9,643	
P7527AM (LT)(RT)	—	—	—	146	949	133	3,530	
P7227R	—	—	—	—	—	131	2,141	
DKC33-78RIB (RIB)	—	—	—	—	—	137	643	
DKC23-17RIB (VT2P)(RIB)	—	—	133	119	1,028	113	525	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						124.9	21,316	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	67	80	75	86	5,699	55	4,049	
CDC COPELAND	—	64	65	77	4,237	78	3,762	
CONLON	58	60	61	94	2,673	78	2,755	
CELEBRATION	62	59	67	64	1,549	58	1,666	
NEWDALE	53	64	60	74	2,157	73	920	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						65.2	17,263	

‡ On system as of January 3, 2019;
* Assuming 48 lbs./bu.



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DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
ECLIPSE (BLACK)	—	—	—	2,432	1,969	1,720	3,660	
CHIANTI (CRANBERRY)	—	—	—	—	—	1,832	1,284	
PINK PANTHER (KIDNEY)	—	—	—	—	—	2,460	1,091	
BERYL (OTHER)	—	—	—	—	—	1,790	1,060	
T9905 (WHITE PEA)	—	—	—	2,132	625	1,742	840	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1810.5	12,714	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AMARILLO	—	—	32	42	2,609	30	4,111	
AAC CARVER	—	—	—	—	—	33	2,056	
4010	—	22	—	—	—	24	655	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						30.3	7,553	

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
6946 DMR (C)	—	1,464	—	2,103	1,579	2,024	1,814	
P63ME70 (O)	1,735	2,359	2,302	2,288	1,731	2,628	1,296	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						2360.5	3,802	

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 4	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC BETHUNE	19	23	24	29	2,399	32	1,811	
LIGHTNING	25	21	24	20	2,827	24	611	
CDC SORREL	—	21	—	26	567	28	563	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						29.6	3,130	

RISK AREA 5

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	54	30,114	50	125,908	
L252 (LT)	50	48	41	49	93,953	48	49,161	
L255PC (LT)	—	—	—	—	—	52	15,012	
74-44 BL (RT)	46	46	37	44	22,906	44	12,367	
75-65 RR (RT)	—	47	34	42	15,530	39	12,356	
L140P (LT)	49	50	40	51	50,293	50	11,744	
PV 540 G (RT)	—	—	37	43	6,364	41	10,856	
1022 RR (RT)	—	—	36	44	16,588	43	9,659	
L230 (LT)	—	—	—	46	14,672	45	9,481	
6074 RR (RT)	—	—	40	49	4,884	44	5,626	
46H75 (ST)	45	45	38	48	7,896	51	4,576	
2024 CL (ST)	—	—	—	46	5,087	47	4,487	
2026 CL (ST)	—	—	—	—	—	50	3,368	
1026 RR (RT)	—	—	—	—	—	42	3,211	
4157 RR (RT)	—	47	34	47	4,458	50	2,671	
75-45 RR (RT)	—	—	38	39	3,019	39	2,612	
45CM36 (RT)	—	—	—	—	—	46	2,279	
CS2300 (RT)	—	—	—	—	—	40	2,180	
2022CL (ST)	—	—	34	45	8,800	35	2,132	
L157H (LT)	—	—	37	52	3,291	51	2,082	
45H76 (ST)	—	41	39	—	—	41	1,535	
1024 RR (RT)	—	—	—	42	1,807	34	1,341	
V22-1 (RT)	—	43	34	—	—	41	1,338	
45H33 (RT)	—	45	33	46	2,003	44	1,333	
4187 RR (RT)	—	—	—	—	—	47	1,263	
46H76	—	—	—	—	—	50	1,222	
CS2100 (RT)	—	—	44	45	4,893	40	1,122	
PV 200 CL (ST)	—	—	32	43	1,613	37	890	
L241C (LT)	—	—	33	46	3,881	50	795	
75-42 CR (RT)	—	—	—	—	—	47	737	
2020 CL (ST)	—	45	35	49	2,708	55	707	
45H75 CL (ST)	44	43	31	—	—	47	629	
5545CL (ST)	—	—	—	—	—	46	597	
45CS40 (RT)	—	—	36	44	543	38	536	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						47.6	312,608	

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	70	66	55	73	165,235	70	205,565	
AAC ELIE (RS)	—	61	52	66	15,581	62	17,691	
CARDALE (RS)	65	60	50	66	21,432	59	12,172	
FALLER (NHR)	—	—	—	—	—	86	8,426	
AAC VIEWFIELD EXP (RS)	—	—	—	83	615	70	5,081	
AAC PENHOLD (PS)	—	—	66	77	5,225	80	4,399	
AAC W1876 (RS)	—	—	—	58	1,482	56	4,223	
AAC CAMERON VB (RS)	—	—	—	—	—	55	4,094	
AAC REDBERRY (RS)	—	—	—	—	—	67	3,694	
PROSPER (NHR)	—	—	—	—	—	71	2,580	
SY ROWYN (PS)	—	—	—	—	—	72	2,294	
CARBERRY (RS)	57	58	48	65	5,245	57	2,040	
AAC TISDALE (RS)	—	—	—	—	—	75	1,771	
CDC PLENTIFUL (RS)	—	61	45	63	4,531	56	1,499	
HARVEST (RS)	66	62	49	74	2,961	59	1,444	
AAC CONNERY (RS)	—	—	53	71	1,944	62	1,429	
5605HR CL (RS)	—	48	42	52	786	38	1,023	
EMERSON (W)	—	67	65	66	2,631	55	1,022	
AAC GATEWAY (W)	—	72	70	—	—	81	915	
CDC LANDMARK (RS)	—	—	—	—	—	85	841	
CDC HUGHES (RS)	—	—	—	—	—	75	807	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						68.6	286,432	

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S007-Y4 RR2Y (RT)	—	39	47	40	28,859	38	34,799	
P006T46R (RT)	—	—	42	37	14,948	37	9,853	
AKRAS R2 (RT)	—	—	45	38	8,784	36	8,830	
23-60RY (RT)	35	39	44	38	18,404	40	8,647	
S006-W5 (RT)	—	—	—	42	1,117	38	6,169	
S0009-M2 (RT)	—	43	44	39	4,083	36	6,063	
NSC WATSON RR2Y (RT)	—	—	42	38	2,835	32	3,884	
P006T78R2 (RT)	—	—	44	39	4,956	32	3,184	
PS 0027 RR (RT)	—	32	35	32	1,971	32	2,746	
PV10S005RR2 (RT)	—	—	—	35	1,210	36	2,205	
DKB005-52 (RT)	—	—	—	—	—	34	2,172	
NSC GLADSTONE RR2Y (RT)	—	35	—	35	2,139	32	2,168	
TH 32004R2Y (RT)	37	39	50	38	4,174	42	2,121	
MAHONY R2 (RT)	—	—	52	41	3,190	33	1,916	
LS 003R24N (RT)	40	36	45	38	3,361	39	1,734	
24-10RY (RT)	37	36	54	39	2,557	38	1,630	
NSC LEROY RR2Y (RT)	—	—	—	39	1,141	29	1,516	
P007A90R (RT)	—	—	—	—	—	35	1,424	
LS MISTRAL (RT)	—	—	—	—	—	37	1,413	
22-60RY (RT)	—	37	37	36	1,654	37	1,277	
P002A63R (RT)	—	—	—	—	—	52	1,038	
P005T13R (RT)	—	—	—	36	1,048	40	1,025	
TH 87003R2X (RR2X)	—	—	—	—	—	30	914	
S003-L3 (RT)	—	—	—	41	1,271	31	838	
NSC RESTON RR2Y (RT)	31	39	40	39	2,733	34	790	
FOOTE R2 (RT)	—	—	—	—	—	39	736	
B003-29 (RT)	—	—	—	—	—	29	725	
P005A27X (RR2X)	—	—	—	—	—	33	544	
0066 XR (RR2X)	—	—	—	—	—	32	509	
LS ECLIPSE (RT)	—	—	—	38	1,366	47	508	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						36.6	118,876	

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	143	131	141	11,734	108	14,041	
SUMMIT	115	126	137	150	8,338	126	9,409	
BIG BROWN	—	—	—	124	3,178	130	2,462	
SOURIS	110	114	110	124	7,265	130	2,295	
AC MORGAN	—	—	—	—	—	128	680	
FURLONG	97	115	124	88	1,085	75	613	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						115.9	30,332	

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7211HR	—	—	158	136	4,346	139	4,304	
P7958AM	—	—	136	132	2,851	124	2,876	
P7527AM (LT)(RT)	—	—	—	—	—	138	2,217	

† 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 3, 2019;
* Assuming 48 lbs./bu.

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7632AM (BT)(LT)(RT)	—	140	152	138	1,948	126	1,560	
P7202AM (HX1)(LT)(RT)	—	—	137	134	3,061	131	1,464	
P7227R	—	—	—	—	—	127	1,323	
DKC33-78RIB (RIB)	—	—	—	—	—	122	960	
DKC26-40 (RIB)	—	—	—	—	—	113	946	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						124.5	19,605	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CONLON	82	76	71	96	14,574	77	12,313	
AAC SYNERGY	—	—	70	89	4,005	80	5,308	
CDC AUSTENSON	101	91	82	89	2,552	45	2,204	
TRADITION	84	82	77	99	3,067	78	2,076	
AC METCALFE	74	74	61	—	—	81	1,171	
NEWDALE	83	83	77	91	1,555	84	546	
BENTLEY	77	83	75	82	1,115	78	525	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						73.9	25,993	

DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
ECLIPSE (BLACK)	—	—	—	2,359	1,167	1,878	4,337	
T9905 (WHITE PEA)	2,114	2,277	1,995	2,302	4,622	1,933	3,780	
VIBRANT (PINTO)	—	—	—	—	—	2,319	2,702	
WINDBREAKER (PINTO)	—	—	2,403	2,260	3,510	1,662	1,426	
INDI (WHITE PEA)	1,927	—	—	1,989	1,008	1,881	1,250	
ETNA (CRANBERRY)	—	—	—	—	—	1,603	633	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1969.2	18,616	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC MEADOW	52	45	38	54	1,876	49	1,769	
AAC CARVER	—	—	—	—	—	49	1,632	
AAC LACOMBE	—	—	—	—	—	67	561	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						51.9	5,918	

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
6946 DMR (C)	1,733	2,103	1,429	2,154	2,711	2,004	1,433	
6946 (C)	—	1,138	1,323	—	—	2,394	1,119	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1941.0	6,491	

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 5	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC GLAS	30	27	26	38	1,990	39	1,822	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.8	3,176	

RISK AREA 6

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L252 (LT)	41	46	46	48	93,998	50	80,120	
L233P (LT)	—	—	—	53	22,846	51	67,321	
L230 (LT)	—	—	—	47	18,132	48	24,497	
45H33 (RT)	—	44	43	45	15,219	49	14,384	
1022 RR (RT)	—	—	44	45	19,395	47	13,208	
74-44 BL (RT)	35	41	40	39	20,281	42	12,168	
46H75 (ST)	37	46	44	50	6,276	49	10,141	
L255PC (LT)	—	—	—	—	—	55	8,776	
PV 200 CL (ST)	—	—	40	46	6,297	48	8,545	
6074 RR (RT)	—	—	44	45	5,928	51	7,790	
45M35 (RT)	—	—	—	50	4,383	52	7,651	
75-65 RR (RT)	—	—	38	45	5,786	46	7,598	
L140P (LT)	36	47	45	49	26,401	52	7,252	
1024 RR (RT)	—	—	—	—	—	44	5,413	
2022CL (ST)	—	—	44	40	9,058	46	5,177	

† 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 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L241C (LT)	—	—	43	49	7,720	53	4,557	
PV 540 G (RT)	—	—	—	48	2,588	45	4,240	
L157H (LT)	—	—	45	48	5,176	53	3,856	
45CS40 (RT)	—	—	29	45	4,895	50	3,492	
1026 RR (RT)	—	—	—	—	—	48	3,170	
75-45 RR (RT)	32	—	35	42	1,952	47	3,061	
45H76 (ST)	35	45	43	44	3,286	41	2,990	
45H75 CL (ST)	34	—	40	51	730	48	2,877	
D3154S (RT)	35	44	37	39	2,326	53	2,768	
45CM36 (RT)	—	—	—	—	—	52	2,246	
CS2300 (RT)	—	—	—	—	—	51	1,824	
CS2100 (RT)	—	—	37	41	4,480	44	1,679	
45M38 (RT)	—	—	—	—	—	42	1,625	
V22-1 (RT)	—	—	—	—	—	40	1,491	
2024 CL (ST)	—	—	—	46	1,405	40	1,337	
1012 RR (RT)	36	43	38	40	4,067	44	1,292	
6076 CR (RT)	—	—	—	—	—	52	1,049	
2020 CL (ST)	—	37	44	44	1,331	42	970	
2026 CL (ST)	—	—	—	—	—	45	953	
4157 RR (RT)	—	38	41	46	2,274	43	817	
5545CL (ST)	—	—	—	—	—	55	731	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						49.0	338,141	

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	48	54	54	68	128,916	64	150,898	
AAC ELIE (RS)	—	44	56	70	22,417	67	24,564	
AAC VIEWFIELD EXP (RS)	—	—	—	65	957	67	20,986	
FALLER (NHR)	—	—	—	—	—	74	11,349	
GLENN (RS)	47	47	47	61	18,123	56	7,145	
CARDALE (RS)	48	49	48	62	17,645	58	6,490	
AAC REDWATER (RS)	—	—	—	69	3,013	66	5,271	



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Avondale Seed Farm	Reston	877-3813	Miller Agritec	Oakville	267-2363
Boissevain Select Seeds	Boissevain	534-6846	Nickel Bros.	Solsgirith	773-6734
Catellier Seeds	Dufrost	347-5588	Pittura Seed Service	Domain	736-2849
Clearview Acres Ltd.	Virden	748-2666	Pugh Seeds	Portage la Prairie	274-2179
Court Seeds	Plumas	386-2354	Redsper Enterprises	Rivers	328-5346
Durand Seeds	Notre Dame	248-2268	Rutherford Farms	Grosse Isle	467-5613
Ellis Farm Supplies	Wawanesa	824-2290	R-Way Ag	St. Claude	379-2582
Ens Quality Seed	Winkler	325-4658	Seine River Seeds	Ste. Anne	355-4495
Friesen Seeds Ltd.	Morris	746-8325	Sierens Seeds	Somerset	744-2883
Gagnon Seeds	Ste. Rose	447-2118	Swan Valley Seeds	Swan River	734-2526
HB Agri-Seed Ltd.	Killarney	523-7464	Triple "S" Seed	Grandview	546-2590
James Farms	Winnipeg	222-8785	Wheat City Seeds	Brandon	727-3337
Jeffries Seeds Ltd.	Glenboro	827-2102	Wilson Seeds Ltd.	Darlingford	246-2388
Manness Seeds	Domain	736-2622	Zeghers Seed Farm	Holland	526-2145

† On system as of January 3, 2019;
 * Assuming 48 lbs./bu.

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
MUCHMORE (RS)	52	52	56	59	3,572	66	3,814	
CDC LANDMARK (RS)	—	—	—	—	—	71	2,969	
5605HR CL (RS)	—	—	56	55	3,334	51	2,376	
CDC PLENTIFUL (RS)	—	46	46	60	4,222	53	2,204	
SY ROWYN (PS)	—	—	—	69	4,193	84	2,166	
AC DOMAIN (RS)	42	36	45	49	1,547	46	2,037	
AAC CAMERON VB (RS)	—	—	—	—	—	61	1,938	
CARBERRY (RS)	46	47	43	49	5,435	46	1,724	
AAC PENHOLD (PS)	—	—	70	84	4,234	82	1,697	
AAC REDBERRY (RS)	—	—	—	—	—	60	1,625	
PROSPER (NHR)	—	—	—	—	—	82	1,499	
EMERSON (W)	—	53	64	62	4,011	42	1,323	
CDC TITANIUM (RS)	—	—	47	52	1,763	57	1,022	
AAC W1876 (RS)	—	—	31	—	—	55	747	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							64.3	259,307

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
S0009-M2 (RT)	—	—	40	35	10,790	33	12,823	
S007-Y4 RR2Y (RT)	—	—	47	38	6,628	34	11,491	
NSC WATSON RR2Y (RT)	—	—	39	31	6,839	30	7,239	
AKRAS R2 (RT)	—	—	47	37	4,321	32	6,483	
22-60RY (RT)	—	40	40	36	8,802	34	5,481	
23-60RY (RT)	—	42	42	33	10,914	32	3,766	
P002A63R (RT)	—	—	—	—	—	30	3,664	
P006T46R (RT)	—	—	—	34	2,180	29	3,158	
S003-L3 (RT)	—	—	—	—	—	35	2,816	
MAHONY R2 (RT)	—	—	—	32	4,299	30	2,588	
P005A27X (RR2X)	—	—	—	—	—	34	2,120	
P002A19X (RR2X)	—	—	—	—	—	29	1,579	
LS SOLAIRE (RT)	—	—	—	32	680	27	1,418	
TH 33003R2Y (RT)	30	41	41	32	2,000	31	1,293	
24-10RY (RT)	—	—	—	—	—	33	1,154	
DKB003-29 (RR2X)	—	—	—	—	—	35	1,065	
B003-29 (RT)	—	—	—	—	—	31	1,034	
TH 87003R2X (RR2X)	—	—	—	—	—	27	1,024	
S0009-D6 (RT)	—	—	—	32	638	37	978	
TH 3303R2Y (RT)	—	—	42	39	928	31	948	
P000A87R (RT)	—	—	—	—	—	27	921	
P006T78R2 (RT)	—	—	42	37	3,644	30	909	
P002T04R (RT)	—	39	39	31	8,165	30	816	
NSC RESTON RR2Y (RT)	27	36	39	32	2,111	33	718	
TORRO R2 (RT)	—	—	—	—	—	34	687	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							31.9	87,905

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CS CAMDEN	—	—	97	109	3,624	119	6,546	
SUMMIT	106	111	103	123	7,822	106	5,766	
SOURIS	75	96	105	109	3,027	108	653	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							105.8	14,607

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
P7211HR	—	—	—	—	—	133	855	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							97.4	2,426

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CDC AUSTENSON	65	79	72	82	9,342	82	8,522	
CDC COPELAND	77	74	80	85	7,988	82	6,561	
CONLON	64	68	77	99	3,725	89	4,080	
AC METCALFE	46	60	65	78	3,789	79	3,088	
NEWDAL	56	79	68	83	3,309	77	2,437	
AAC SYNERGY	—	—	91	92	1,977	97	1,096	
AAC CONNECT	—	—	—	—	—	81	1,012	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							81.2	29,401

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CDC AMARILLO	—	—	32	48	4,407	50	3,450	
CDC MEADOW	23	45	39	60	2,701	53	2,584	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							53.4	8,243

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 6	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
CDC BETHUNE	19	21	18	27	1,860	28	1,024	
CDC GLAS	23	26	22	36	764	25	567	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							29.0	3,325

RISK AREA 7

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
L233P (LT)	—	—	—	51	16,824	52	50,251	
L252 (LT)	45	47	44	46	37,125	49	25,748	
L230 (LT)	—	—	—	47	17,072	47	18,633	
1022 RR (RT)	—	—	43	44	7,813	45	7,613	
L255PC (LT)	—	—	—	—	—	54	5,709	
L140P (LT)	43	46	47	48	21,681	51	5,590	
6074 RR (RT)	—	—	38	42	5,738	47	5,499	
45H33 (RT)	—	46	44	44	8,961	44	5,117	
75-65 RR (RT)	—	50	39	45	6,672	49	5,018	
1012 RR (RT)	38	42	38	42	9,701	44	4,857	
1024 RR (RT)	—	—	—	—	—	42	4,640	
D3154S (RT)	35	—	—	45	2,744	39	4,335	
1020 RR (RT)	—	—	41	41	7,628	50	3,809	
75-45 RR (RT)	—	—	40	43	3,448	42	3,398	
46H75 (ST)	41	45	48	48	1,528	49	2,608	
74-44 BL (RT)	37	42	40	44	2,301	40	2,370	
V22-1 (RT)	—	—	—	—	—	47	2,074	
CS2300 (RT)	—	—	—	—	—	52	1,907	
45CS40 (RT)	—	—	43	45	2,745	48	1,904	
45M35 (RT)	—	—	—	43	3,061	47	1,805	
45CM36 (RT)	—	—	—	—	—	49	1,422	
D3155C (RT)	—	44	42	34	3,398	46	1,093	
C5507	—	—	—	—	—	32	1,031	
CS2000 (RT)	—	—	41	46	4,311	50	850	
PV 540 G (RT)	—	—	—	—	—	48	795	
45H76 (ST)	—	46	31	—	—	25	535	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							48.3	176,080

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
AAC BRANDON (RS)	61	52	51	65	68,640	67	69,087	
CDC LANDMARK (RS)	—	—	—	73	2,768	71	20,560	
AAC REDWATER (RS)	—	—	57	58	17,605	65	18,064	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	71	7,336	
CARDALE (RS)	52	51	47	65	8,101	65	5,751	
FALLER (NHR)	—	—	—	—	—	91	4,992	
CARBERRY (RS)	47	50	44	58	7,008	57	4,983	
GLENN (RS)	46	48	49	56	8,718	62	3,958	
AAC ELIE (RS)	—	57	62	65	6,859	71	3,778	
AAC REDBERRY (RS)	—	—	—	—	—	62	3,194	
CDC PLENTIFUL (RS)	52	54	42	60	2,607	66	2,522	
EMERSON (W)	—	—	—	—	—	67	1,337	
PROSPER (NHR)	—	—	—	—	—	86	1,268	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							68.0	151,606

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018† Acres	
S0009-M2 (RT)	—	—	39	35	4,592	30	7,076	
P002A63R (RT)	—	—	—	—	—	25	1,875	
NSC WATSON RR2Y (RT)	—	—	—	31	1,480	31	1,503	
P002A19X (RR2X)	—	—	—	—	—	30	1,467	
P002T04R (RT)	—	—	39	33	3,538	30	999	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							29.2	17,326

† 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 3, 2019;
 * Assuming 48 lbs./bu.

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OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
SUMMIT	98	103	107	121	6,783	93	4,579	
CS CAMDEN	—	—	119	89	2,825	113	3,685	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						99.0	10,000	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC COPELAND	50	59	—	88	3,081	87	2,902	
CDC AUSTENSON	57	78	69	76	2,802	88	1,918	
AC METCALFE	53	74	51	74	738	73	1,869	
AAC SYNERGY	—	—	75	77	1,617	85	1,440	
AAC CONNECT	—	—	—	—	—	80	692	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						83.4	10,664	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 7	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AMARILLO	—	—	34	58	1,955	47	2,626	
CDC MEADOW	38	55	37	45	1,398	55	1,386	
AAC LACOMBE	—	—	—	—	—	56	994	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						50.9	7,554	

RISK AREA 8

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	57	24,368	49	103,905	
L252 (LT)	33	49	52	50	48,101	45	26,732	
L255PC (LT)	—	—	—	—	—	58	23,581	
L140P (LT)	26	53	52	50	45,585	47	13,517	
75-65 RR (RT)	—	—	49	47	7,065	44	9,322	
L230 (LT)	—	—	—	47	6,554	43	9,236	
6074 RR (RT)	—	—	41	44	6,019	45	5,610	
45M38 (RT)	—	—	—	—	—	50	4,817	
L241C (LT)	—	—	57	56	11,352	54	4,426	
45M35 (RT)	—	—	—	46	4,694	53	3,685	
45H33 (RT)	—	44	52	44	4,243	46	3,431	
PV 540 G (RT)	—	—	—	40	1,472	41	3,321	
46H75 (ST)	34	48	52	52	5,258	43	2,440	
45CS40 (RT)	—	—	28	49	1,969	49	2,440	
1022 RR (RT)	—	—	44	44	503	42	2,314	
46M34 (RT)	—	—	50	44	9,170	48	1,945	
45CM36 (RT)	—	—	—	—	—	53	1,415	
1020 RR (RT)	—	—	51	50	3,441	49	1,264	
1012 RR (RT)	29	46	39	45	1,940	34	1,262	
V22-1 (RT)	—	—	—	—	—	45	1,144	
2020 CL (ST)	—	46	49	51	2,818	41	1,082	
2022CL (ST)	—	—	—	—	—	52	1,048	
1140 (LT)	—	—	—	52	1,627	47	1,000	
2024 CL (ST)	—	—	—	—	—	51	873	
45S56 (RT)	—	—	42	46	1,766	47	828	
PV 560 GM (RT)	—	—	—	41	1,620	38	810	
6080 RR (RT)	—	—	44	44	1,262	44	765	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						48.4	238,072	

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	—	62	82	17,991	72	32,394	
CARDALE (RS)	50	47	60	77	23,583	70	21,682	
AAC VIEWFIELD EXP (RS)	—	—	—	86	1,277	81	13,484	
AC DOMAIN (RS)	35	34	50	61	8,358	54	8,021	
AAC CONNERY (RS)	—	—	—	71	3,321	74	7,329	
AC STETTLER (RS)	—	—	—	—	—	73	5,607	
MUCHMORE (RS)	45	46	61	68	4,532	71	4,206	
CDC PLENTIFUL (RS)	50	52	55	68	12,135	58	3,814	
AAC REDWATER (RS)	—	—	—	82	1,051	69	2,646	
CDC IMAGINE (RS)	44	56	66	74	2,316	61	1,982	
CDC LANDMARK (RS)	—	—	—	—	—	74	1,542	
AAC ELIE (RS)	—	—	66	75	3,011	71	1,516	
AC SPLENDOR (RS)	46	50	61	57	1,348	53	995	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						70.0	110,688	

† 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 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S0009-M2 (RT)	—	—	42	40	6,359	43	11,150	
NSC WATSON RR2Y (RT)	—	—	47	39	7,917	37	8,501	
P002A63R (RT)	—	—	—	—	—	39	5,405	
PS 0027 RR (RT)	—	—	—	40	542	39	1,736	
ISIS RR (RT)	—	—	—	25	3,992	40	940	
P002A19X (RR2X)	—	—	—	—	—	28	673	
TORRO R2 (RT)	—	—	—	37	1,022	39	655	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						38.8	35,950	

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
SUMMIT	81	99	101	99	3,062	90	2,544	
SOURIS	69	73	88	110	1,378	55	1,313	
TRIPLE CROWN	—	73	85	—	—	80	640	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						75.7	5,753	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	62	73	72	96	723	91	1,117	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						72.3	2,406	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 8	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
ABARTH	—	—	—	57	942	61	6,274	
CDC MEADOW	—	—	60	70	5,081	60	3,134	
CDC SAFFRON	—	—	77	76	1,514	64	1,229	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						60.4	11,964	

RISK AREA 9

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 9	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	51	31,256	47	123,421	
L252 (LT)	33	46	46	48	107,057	46	92,496	
L230 (LT)	—	—	—	46	16,601	48	24,695	
1022 RR (RT)	—	—	43	46	14,383	44	14,386	
75-65 RR (RT)	—	34	40	44	17,561	47	12,269	
46H75 (ST)	27	41	40	46	8,064	43	11,999	
L140P (LT)	31	46	47	45	34,321	45	11,153	
1024 RR (RT)	—	—	—	—	—	40	10,821	
1012 RR (RT)	29	41	43	42	30,359	43	9,760	
L255PC (LT)	—	—	—	—	—	49	8,247	
45H33 (RT)	—	46	45	40	6,039	45	6,923	
45M35 (RT)	—	—	—	50	5,949	56	6,565	
74-44 BL (RT)	38	39	37	41	9,271	32	6,333	
6074 RR (RT)	—	—	49	46	6,678	42	6,171	
PV 200 CL (ST)	—	—	45	39	2,175	42	4,851	
6080 RR (RT)	—	—	—	—	—	63	3,553	
PV 540 G (RT)	—	—	—	44	806	41	3,208	
V22-1 (RT)	—	—	—	—	—	35	2,814	
1020 RR (RT)	—	—	44	43	4,615	43	2,451	
75-45 RR (RT)	—	—	52	45	3,589	52	2,306	
2024 CL (ST)	—	—	—	40	3,394	34	2,157	
2022CL (ST)	—	—	41	38	6,771	34	2,092	
C5507	—	—	—	—	—	34	1,839	
2026 CL (ST)	—	—	—	—	—	43	1,788	
PV 533 G (RT)	—	—	37	39	3,887	38	1,684	
L157H (LT)	—	—	41	48	5,655	41	1,543	
45M38 (RT)	—	—	—	—	—	42	1,243	
L130 (LT)	29	45	43	43	8,098	49	1,131	
5545CL (ST)	—	—	—	—	—	55	883	
45H75 CL (ST)	29	47	48	46	889	42	850	
45H76 (ST)	—	39	—	43	1,947	38	732	
45H31 (RT)	39	42	45	50	896	47	679	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						45.7	391,553	

† On system as of January 3, 2019;
 * Assuming 48 lbs./bu.

WHEAT YIELDS BY VARIETY 2014–2018†						RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres
AAC BRANDON (RS)	—	50	55	69	62,194	62	114,024
CARDALE (RS)	41	48	52	64	27,294	60	20,754
AAC ELIE (RS)	—	—	52	70	8,045	56	16,989
AC DOMAIN (RS)	29	42	50	65	18,252	58	16,572
GLENN (RS)	38	44	49	62	19,532	55	12,554
CDC PLENTIFUL (RS)	—	44	52	64	11,379	64	9,812
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	67	8,231
FALLER (NHR)	—	—	—	—	—	78	7,581
CDC STANLEY (RS)	35	49	53	66	8,000	55	5,706
CARBERRY (RS)	43	45	50	59	10,745	60	5,061
AAC W1876 (RS)	—	—	47	62	3,287	61	4,865
CDC VR MORRIS (RS)	20	50	55	71	4,634	70	4,564
5605HR CL (RS)	—	—	47	59	3,197	50	3,560
SY ROWYN (PS)	—	—	—	73	2,135	53	3,366
AAC REDWATER (RS)	—	—	58	71	2,487	47	2,986
CDC LANDMARK (RS)	—	—	—	—	—	57	2,143
AAC CAMERON VB (RS)	—	—	—	—	—	67	1,290
AAC TISDALE (RS)	—	—	—	—	—	54	1,278
CDC BUTEO (W)	29	43	60	56	788	49	792
AAC REDBERRY (RS)	—	—	—	—	—	45	640
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						60.7	246,502

SOYBEAN YIELDS BY VARIETY 2014–2018†						RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres
S0009-M2 (RT)	—	—	41	39	19,784	35	30,003
NSC WATSON RR2Y (RT)	—	—	45	34	14,137	35	16,116
22-60RY (RT)	—	—	37	37	13,363	35	13,501
AKRAS R2 (RT)	—	—	38	38	12,504	35	9,737
S007-Y4 RR2Y (RT)	—	40	41	39	8,231	35	8,417
ISIS RR (RT)	—	32	37	30	6,226	28	6,519
NOTUS R2 (RT)	—	41	40	34	6,145	42	6,043
P002A63R (RT)	—	—	—	—	—	35	4,947

SOYBEAN YIELDS BY VARIETY 2014–2018†						RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres
P006T46R (RT)	—	—	—	35	2,974	33	3,463
TH 32004R2Y (RT)	30	41	40	37	3,556	27	3,424
TORRO R2 (RT)	—	—	—	38	1,224	31	3,045
NSC WARREN RR (RT)	—	40	32	28	6,817	26	2,326
S0009-D6 (RT)	—	—	—	—	—	36	1,637
P002A19X (RR2X)	—	—	—	—	—	38	1,525
NSC LEROY RR2Y (RT)	—	—	—	31	4,758	35	1,053
P002T04R (RT)	—	35	41	34	8,500	34	977
MAHONY R2 (RT)	—	—	45	34	1,377	43	856
TH 33003R2Y (RT)	33	41	38	34	3,358	39	845
23-11RY (RT)	—	—	41	37	3,115	41	743
LS TRI7XT (RR2X)	—	—	—	—	—	21	528
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.0	139,625

OATS YIELDS BY VARIETY 2014–2018†						RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres
CS CAMDEN	—	—	140	121	3,998	58	3,069
SOURIS	48	75	79	93	6,343	66	2,996
AC MORGAN	96	73	100	112	3,792	60	2,075
SUMMIT	57	76	90	105	4,458	86	1,906
CDC SO-I	—	70	91	73	1,065	72	648
CDC BALER	—	—	—	—	—	36	598
TRIPLE CROWN	51	44	59	56	614	19	560
CDC DANCER	—	—	—	—	—	22	557
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						57.9	16,328

CORN YIELDS BY VARIETY 2014–2018†						RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres
P7211HR	—	—	—	—	—	113	1,108
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						114.8	1,383

† 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 3, 2019;
* Assuming 48 lbs./bu.





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BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	80	77	69	71	4,164	66	6,043	
AC METCALFE	43	66	59	73	3,110	72	4,522	
CELEBRATION	50	67	60	72	1,411	48	1,252	
CHAMPION	—	—	—	—	—	71	1,161	
CONLON	25	51	38	—	—	61	768	
CDC COPELAND	—	—	—	—	—	62	660	
LEGACY	37	68	68	—	—	49	588	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							66.1	18,517

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 9	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AMARILLO	—	—	56	60	3,845	64	3,965	
ABARTH	—	—	47	63	1,104	71	2,284	
CDC MEADOW	46	41	51	55	3,047	55	1,011	
LIVIOLETTA	9	29	19	38	521	40	550	
AAC LACOMBE	—	—	—	—	—	57	509	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							61.3	9,219

RISK AREA 10

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	52	6,650	45	35,476	
L252 (LT)	44	42	37	46	15,589	43	12,364	
L140P (LT)	43	41	39	49	16,330	45	5,787	
L230 (LT)	—	—	—	49	1,340	40	4,054	
1022 RR (RT)	—	—	36	43	1,104	34	2,319	
L255PC (LT)	—	—	—	—	—	50	2,188	
2026 CL (ST)	—	—	—	—	—	36	1,315	
5440 (LT)	39	40	33	42	3,004	45	740	
L157H (LT)	—	—	—	43	2,092	43	668	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							43.0	71,611

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	53	53	71	11,941	59	31,883	
CARDALE (RS)	56	53	48	66	9,161	58	5,963	
FALLER (NHR)	—	—	—	—	—	65	5,428	
AAC ELIE (RS)	—	—	61	63	1,385	51	3,365	
AAC PENHOLD (PS)	—	—	54	76	1,321	58	1,729	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	54	922	
AAC ELEVATE (W)	—	—	—	—	—	37	601	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							56.5	54,621

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
24-10RY (RT)	32	41	43	40	12,529	33	8,219	
P007A90R (RT)	—	—	—	—	—	35	7,858	
S007-Y4 RR2Y (RT)	—	42	41	40	6,199	35	7,516	
LS MISTRAL (RT)	—	—	—	38	661	34	5,126	
DKB005-52 (RT)	—	—	—	38	1,456	35	4,977	
TH 87003R2X (RR2X)	—	—	—	27	844	34	4,259	
NSC WATSON RR2Y (RT)	—	—	—	37	1,063	32	4,097	
AKRAS R2 (RT)	—	—	38	37	3,527	27	4,019	
PS 0027 RR (RT)	—	31	32	26	4,046	30	3,192	
LS 003R24N (RT)	—	40	41	34	7,017	30	2,726	
GRAY R2 (RT)	—	42	42	31	3,207	31	2,614	
23-60RY (RT)	—	40	42	39	4,855	30	2,387	
LS 005R22 (RT)	36	42	41	35	5,089	29	2,078	
P006T46R (RT)	—	—	—	34	6,147	31	2,070	
PRO 2525R2 (RT)	—	—	44	37	2,778	36	2,049	
PS 0074 R2 (RT)	—	39	40	34	1,814	34	2,034	
P005A27X (RR2X)	—	—	—	—	—	25	1,760	
TH 33005R2Y (RT)	37	41	50	40	3,330	41	1,745	
NSC RICHER RR2Y (RT)	37	36	45	34	1,267	36	1,385	
BARKER R2X	—	—	—	28	865	30	1,374	
TH 32004R2Y (RT)	31	36	43	33	2,030	25	1,319	
P006T78R2 (RT)	—	—	39	31	3,016	32	1,283	
NSC GLADSTONE RR2Y (RT)	33	39	39	31	1,217	28	1,273	
S006-W5 (RT)	—	—	—	43	1,941	30	1,070	

† 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 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
LS ECLIPSE (RT)	—	—	—	—	—	38	1,009	
DYLANO R2X (RT)	—	—	—	34	757	30	677	
LS SOLAIRE (RT)	—	—	—	—	—	31	635	
LS 003R22 (RT)	25	36	36	—	—	21	631	
DUGALDO R2X (RR2X)	—	—	—	—	—	34	629	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							32.2	92,318

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
SUMMIT	82	98	103	132	7,086	91	11,414	
CS CAMDEN	—	90	100	118	5,292	101	6,324	
SOURIS	88	93	88	103	4,602	75	2,359	
FURLONG	80	75	87	99	1,863	62	808	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							88.4	23,584

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7527AM (LT)(RT)	—	—	—	139	2,694	133	9,394	
P7958AM	—	124	132	139	8,600	135	7,138	
P7632AM (BT)(LT)(RT)	—	128	127	143	8,017	131	5,428	
DKC33-78RIB (RIB)	—	—	—	167	1,663	149	4,087	
P7211HR	—	—	122	127	3,791	104	3,293	
39V05 (RT)	101	110	125	129	1,505	118	2,705	
A4939G2 RIB (RIB)	—	—	—	160	1,820	140	2,273	
DKC26-40 (RIB)	—	—	—	—	—	105	1,683	
TH 7578 VT2P RIB (RIB)	—	—	136	149	2,488	132	1,535	
DKC23-17RIB (VT2P)(RIB)	—	—	—	118	1,551	119	1,386	
P7202AM (HX1)(LT)(RT)	—	—	—	119	1,385	115	1,251	
P7227R	—	—	—	—	—	111	790	
P7332R (RT)	97	127	121	130	4,895	144	779	
DKC32-12RIB (RIB)(RT)	—	—	—	—	—	149	765	
39V09AM (BT)(HX1)(LT)(RT)	—	—	152	135	772	133	715	
MZ 1624DBR	—	—	—	—	—	119	648	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							127.8	51,861

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	56	68	86	91	3,808	67	4,230	
CONLON	50	63	69	79	1,801	78	3,608	
AAC SYNERGY	—	—	—	—	—	75	681	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							71.4	9,472

DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
T9905 (WHITE PEA)	1,940	1,682	1,971	1,894	6,082	1,927	3,300	
ECLIPSE (BLACK)	1,579	—	1,310	2,427	773	1,870	1,045	
MONTERREY (PINTO)	—	—	1,371	—	—	2,064	998	
WINDBREAKER (PINTO)	1,008	1,704	1,433	2,249	2,715	2,200	890	
INDI (WHITE PEA)	1,265	—	—	—	—	1,548	637	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							1683.3	11,439

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 10	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P63ME70 (O)	1,609	1,746	1,724	2,476	1,748	2,696	988	
N4HM354 (O)	—	—	—	—	—	1,887	578	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							2376.6	1,988

RISK AREA 11

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety‡	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	50	20,482	44	88,631	
L252 (LT)	40	42	40	48	39,767	42	23,591	
L140P (LT)	36	43	40	49	38,306	39	11,669	
L230 (LT)	—	—	—	50	5,779	43	8,209	
L255PC (LT)	—	—	—	—	—	42	7,951	
2024 CL (ST)	—	—	—	46	1,038	33	5,291	

‡ On system as of January 3, 2019;
* Assuming 48 lbs./bu.

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Leading standability, ultra high yields and strong disease resistance will give you the highest ROI in the industry. And more profit means more time for other things – like fishing with the family.

TWO NEW CWRS WHEATS THAT HAVE IT ALL

CDC LANDMARK VB

- Top of class standability
- Top in class yield (113%)
- Wheat midge tolerant

AAC VIEWFIELD

- Top of class standability
- Very high yielding (109%)
- High protein, good sprouting resistance



The Cereal Seed Experts

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
75-65 RR (RT)	—	—	36	40	3,904	33	3,639	
1022 RR (RT)	—	—	38	46	4,578	33	3,390	
74-44 BL (RT)	30	34	37	41	4,287	39	3,157	
L157H (LT)	—	—	41	50	3,018	46	2,326	
46H75 (ST)	40	42	—	53	1,075	43	2,110	
CS2100 (RT)	—	—	—	44	1,946	33	2,006	
V22-1 (RT)	—	33	31	—	—	37	1,841	
2026 CL (ST)	—	—	—	—	—	39	1,794	
1026 RR (RT)	—	—	—	—	—	38	1,520	
PV 540 G (RT)	—	—	—	45	893	34	1,002	
1024 RR (RT)	—	—	—	—	—	37	934	
4187 RR (RT)	—	—	—	—	—	24	910	
2022CL (ST)	—	—	31	45	9,076	43	878	
6074 RR (RT)	—	—	—	42	565	31	668	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						41.6	176,677	

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	68	58	60	78	96,748	64	144,136	
CARDALE (RS)	55	55	55	70	21,800	61	16,096	
FALLER (NHR)	—	—	—	—	—	65	12,072	
AAC ELIE (RS)	—	46	54	73	11,482	49	10,882	
AAC VIEWFIELD EXP (RS)	—	—	—	74	711	64	3,806	
SY ROWYN (PS)	—	—	—	73	4,086	54	3,048	
CARBERRY (RS)	49	50	51	64	5,079	53	2,139	
AAC GATEWAY (W)	—	85	84	76	1,964	52	1,218	
WR859 CL (RS)	49	51	55	73	1,153	65	845	
AAC ELEVATE (W)	—	—	—	—	—	43	775	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						62.8	200,147	

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S007-Y4 RR2Y (RT)	39	42	43	38	20,826	32	22,137	
24-10RY (RT)	36	45	48	37	27,622	31	17,812	
DKB005-52 (RT)	—	—	—	42	1,466	27	12,612	
AKRAS R2 (RT)	—	48	40	39	11,902	30	11,218	
TH 87003R2X (RR2X)	—	—	—	34	1,430	31	10,727	
LS MISTRAL (RT)	—	—	—	43	1,728	33	10,177	
S006-W5 (RT)	—	—	—	44	1,672	32	6,957	
P006T46R (RT)	—	—	44	35	11,469	32	6,425	
NSC WATSON RR2Y (RT)	—	—	37	35	4,511	34	5,601	
NSC GLADSTONE RR2Y (RT)	40	35	40	33	6,172	38	4,313	
P007A90R (RT)	—	—	—	—	—	32	3,929	
S003-L3 (RT)	—	—	—	39	2,052	27	3,857	
LS SOLAIRE (RT)	—	—	—	33	565	33	3,506	
23-60RY (RT)	34	39	39	33	11,530	28	3,256	
MAHONY R2 (RT)	—	—	44	34	2,991	33	3,183	
LS 002R24N (RT)	—	39	43	36	7,381	29	3,145	
LS 003R24N (RT)	—	38	45	36	9,559	44	3,092	
NSC RICHER RR2Y (RT)	39	46	46	37	3,016	41	2,727	
LS 005R22 (RT)	36	38	41	35	2,954	31	2,672	
S0009-M2 (RT)	—	—	41	34	4,694	31	2,500	
DUGALDO R2X (RR2X)	—	—	—	38	1,318	33	2,399	
PS 0027 RR (RT)	—	33	25	—	—	22	2,355	
TH 33003R2Y (RT)	30	36	34	34	7,022	32	2,336	
GRAY R2 (RT)	34	46	38	36	2,443	39	2,261	
TORRO R2 (RT)	—	—	—	36	1,823	31	1,835	
ISIS RR (RT)	30	35	33	—	—	18	1,734	
BARKER R2X	—	—	—	—	—	39	1,413	
MCLEOD R2 (RT)	33	40	42	35	3,034	26	1,393	
PS 0035 NR2 (RT)	—	—	41	33	1,599	32	1,376	
LS 003R22 (RT)	39	40	41	31	825	23	1,251	
P002A19X (RR2X)	—	—	—	—	—	33	1,167	
PV10S005RR2 (RT)	—	—	—	35	758	36	1,157	
TH 32004R2Y (RT)	31	38	38	35	5,361	29	1,014	
NSC STARBUCK (RR2X)	—	—	—	31	2,727	27	916	
DYLANO R2X (RT)	—	—	—	32	2,011	31	768	
23-11RY (RT)	—	—	—	37	2,444	29	749	
DKB003-29 (RR2X)	—	—	—	—	—	40	726	
P005A27X (RR2X)	—	—	—	—	—	36	716	
NSC GREENRIDGE RR2Y	—	—	—	—	—	35	560	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						31.3	177,801	

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	131	120	148	11,033	113	10,589	
SUMMIT	83	105	112	142	8,943	100	7,864	
SOURIS	92	100	87	116	3,040	76	1,301	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						101.5	21,835	

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7211HR	—	—	140	126	3,378	112	2,560	
P7527AM (LT)(RT)	—	—	—	150	1,037	89	1,965	
DKC26-40 (RIB)	—	—	—	—	—	104	1,333	
DKC27-55RIB (BT)(RIB)	—	—	144	127	1,159	75	1,246	
P7632AM (BT)(LT)(RT)	—	155	157	135	2,518	67	929	
TH 7578 VT2P RIB (RIB)	—	—	—	—	—	116	787	
DKC33-78RIB (RIB)	—	—	—	—	—	120	522	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						103.6	14,369	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC AUSTENSON	75	81	85	101	9,361	83	10,556	
CONLON	65	67	80	103	11,177	69	10,052	
CANMORE	—	—	76	101	4,002	87	3,283	
AAC SYNERGY	—	—	75	—	—	62	1,179	
CELEBRATION	67	58	77	81	1,732	47	824	
TRADITION	38	84	77	—	—	77	760	
DESPERADO	—	62	—	—	—	59	551	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						75.5	28,258	

DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
WINDBREAKER (PINTO)	1,885	2,233	2,286	2,291	6,568	1,971	4,823	
T9905 (WHITE PEA)	1,797	1,755	2,476	2,119	4,449	1,601	2,716	
ECLIPSE (BLACK)	1,806	2,161	2,077	2,251	2,281	1,832	1,850	
ENVOY (WHITE PEA)	1,523	1,515	1,850	1,658	1,645	1,574	1,123	
CHIANTI (CRANBERRY)	—	—	—	—	—	1,746	848	
INDI (WHITE PEA)	—	1,563	3,466	—	—	1,625	729	
CABERNET (KIDNEY)	—	—	—	—	—	1,362	640	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1713.2	17,819	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC CARVER	—	—	—	75	1,718	50	2,040	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						50.4	2,230	

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 11	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P63ME70 (O)	1,464	1,347	1,854	1,984	933	2,593	766	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						2625.7	1,728	

RISK AREA 12

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	56	65,344	50	262,240	
L252 (LT)	46	45	41	53	103,477	50	69,326	
L140P (LT)	47	44	40	53	137,961	49	49,193	
46H75 (ST)	42	43	43	56	20,683	46	23,783	
L255PC (LT)	—	—	—	—	—	52	19,566	
L230 (LT)	—	—	—	55	12,299	51	10,754	
L157H (LT)	—	—	36	54	11,446	48	7,898	
2026 CL (ST)	—	—	—	—	—	42	5,729	
45H75 CL (ST)	41	44	40	55	2,669	42	5,373	
2024 CL (ST)	—	—	—	49	4,210	44	3,798	
45H76 (ST)	33	43	38	52	1,953	44	2,980	
PV 200 CL (ST)	—	—	39	54	2,336	52	2,922	

† 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 3, 2019;
* Assuming 48 lbs./bu.

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NOCOMA^{R2}

2250 CHU | 000.8 RM

SUNNA^{R2X}

2375 CHU | 00.3 RM

NOTUS^{R2}

2300 CHU | 00.1 RM

MANI^{R2X}

2425 CHU | 00.4 RM

AKRAS^{R2}

2375 CHU | 00.3 RM

LONO^{R2}

2450 CHU | 00.5 RM

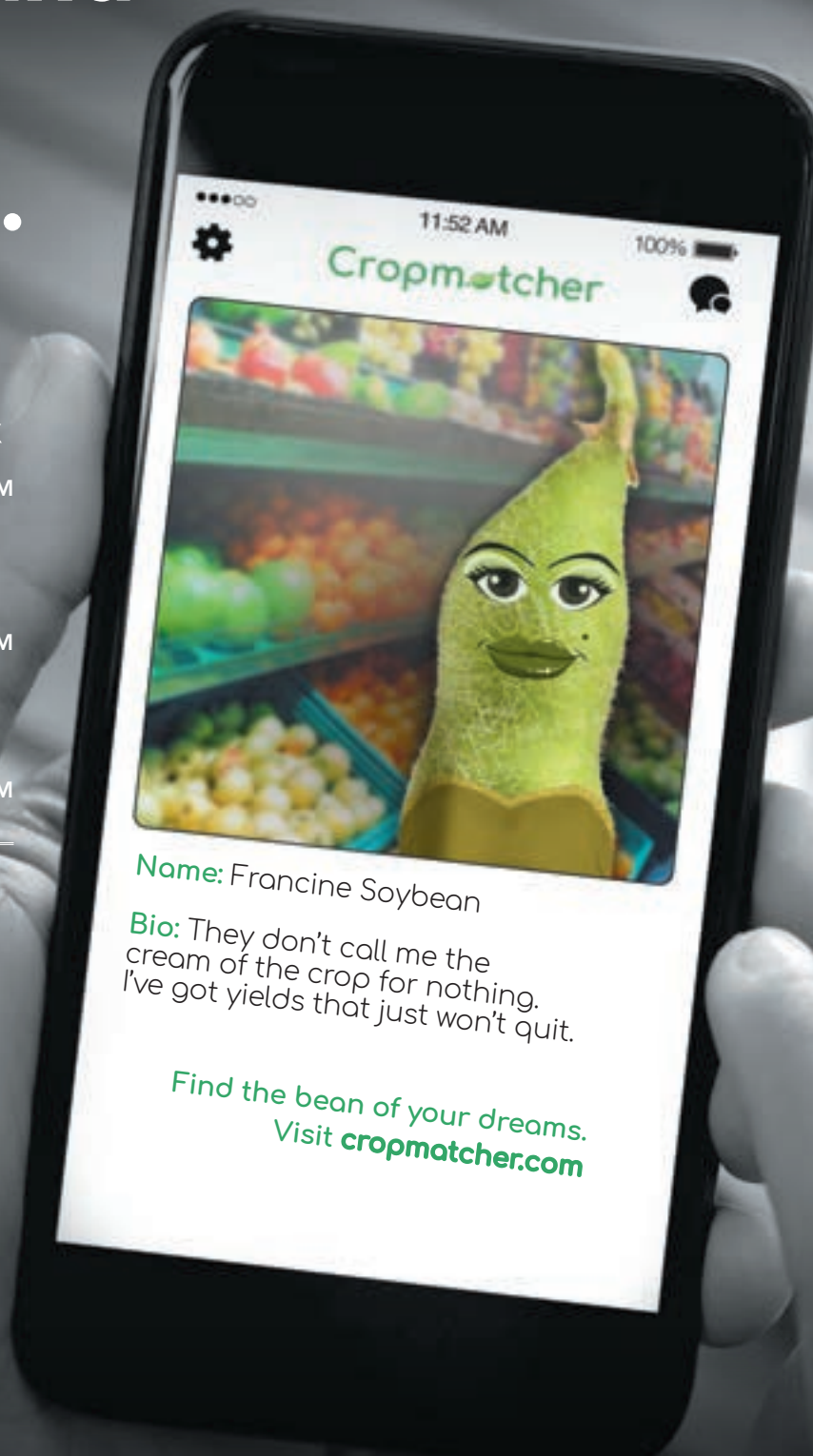
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CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
1022 RR (RT)	—	—	32	49	1,528	35	1,898	
46H76	—	—	—	—	—	48	1,426	
2022CL (ST)	—	—	33	48	8,387	41	1,400	
45M35 (RT)	—	—	—	47	1,261	37	1,178	
CS2500 CL (ST)	—	—	—	—	—	51	1,092	
CS2100 (RT)	—	—	—	47	894	36	1,035	
75-65 RR (RT)	—	—	37	39	1,358	40	1,002	
5545CL (ST)	—	—	—	53	516	45	996	
45A76 (ST)	—	—	—	—	—	46	832	
74-44 BL (RT)	30	39	38	47	4,352	38	743	
46M34 (RT)	—	—	—	—	—	32	727	
1012 RR (RT)	40	34	33	47	1,688	33	700	
L130 (LT)	41	39	36	52	748	56	535	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							49.3	485,221

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	73	65	59	79	214,235	68	311,940	
CARDALE (RS)	69	61	51	76	50,552	62	44,309	
FALLER (NHR)	—	—	—	—	—	72	42,515	
AAC ELIE (RS)	—	64	55	78	21,437	67	25,206	
AAC VIEWFIELD EXP (RS)	—	—	—	80	1,253	64	14,623	
PROSPER (NHR)	—	—	—	—	—	78	13,429	
SY ROWYN (PS)	—	—	62	87	10,203	73	12,661	
CARBERRY (RS)	58	57	50	71	16,831	58	9,361	
AAC PENHOLD (PS)	—	79	66	82	11,619	71	8,019	
GLENN (RS)	62	58	48	71	6,066	59	4,136	
AAC GATEWAY (W)	—	82	89	80	1,074	63	3,616	
EMERSON (W)	66	73	81	63	1,442	66	2,496	
5604HR CL (RS)	61	59	57	73	1,770	66	1,191	
SY SOVITE (RS)	—	—	—	—	—	49	1,162	
WR859 CL (RS)	57	57	55	71	1,844	78	1,040	
CDC PLENTIFUL (RS)	—	62	59	59	969	56	935	
CDC FALCON (W)	70	80	85	70	1,214	73	832	
AAC TISDALE (RS)	—	—	—	—	—	72	772	
CDC LANDMARK (RS)	—	—	—	—	—	62	582	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							67.5	504,120

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
DKB005-52 (RT)	—	—	54	37	19,506	31	69,419	
S007-Y4 RR2Y (RT)	38	42	45	36	32,084	33	43,720	
S006-W5 (RT)	—	—	—	37	19,549	32	31,066	
25-10RY (RT)	38	42	47	34	63,665	32	30,070	
P007A90R (RT)	—	—	—	35	4,707	32	29,528	
24-10RY (RT)	36	43	47	36	30,513	31	24,934	
PS 0027 RR (RT)	—	33	36	28	38,113	28	23,533	
LS ECLIPSE (RT)	—	—	47	36	14,844	31	20,937	
NSC RICHER RR2Y (RT)	38	40	43	33	32,458	32	20,552	
24-12RY (RT)	—	—	50	33	66,664	30	17,447	
NSC JORDAN RR2Y (RT)	—	—	—	34	5,631	30	17,343	
P006T46R (RT)	—	—	48	32	41,949	30	14,605	
LS MISTRAL (RT)	—	—	—	37	3,599	31	13,422	
23-60RY (RT)	39	41	42	31	30,387	30	12,844	
PRO 2525R2 (RT)	—	34	47	36	22,809	30	12,766	
S008-N2 (RT)	—	—	—	37	2,512	33	11,270	
NSC GLADSTONE RR2Y (RT)	31	40	40	31	24,054	32	11,268	
TH 87003R2X (RR2X)	—	—	47	40	2,032	34	11,056	
NSC STARBUCK (RR2X)	—	—	48	33	19,552	30	10,354	
LS 003R24N (RT)	—	41	46	33	15,758	34	8,770	
AKRAS R2 (RT)	—	42	43	33	16,953	31	8,170	
TH ASTRO R2Y (RT)	—	—	—	33	11,814	35	8,134	
PS 0074 R2 (RT)	41	41	44	36	9,414	27	7,526	
LONO R2 (RT)	—	—	49	33	7,589	30	6,589	
NSC WATSON RR2Y (RT)	—	45	44	31	5,036	29	6,586	
P008T22R2 (RT)	36	40	44	31	16,865	33	5,947	
DUGALDO R2X (RR2X)	—	—	—	37	2,452	32	5,205	
OAC PRUDENCE	31	38	34	25	5,694	22	4,935	
TH 88007 R2X	—	—	—	—	—	33	4,591	
TH 33005R2Y (RT)	38	42	47	34	21,716	29	4,440	

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
S0009-M2 (RT)	—	—	37	34	4,712	31	4,146	
S003-L3 (RT)	—	—	50	34	2,456	28	3,795	
P005A27X (RR2X)	—	—	—	—	—	35	3,706	
BARKER R2X	—	—	—	29	3,353	30	3,500	
NSC GREENRIDGE RR2Y	—	—	—	34	988	27	3,108	
LS 003R22 (RT)	37	34	38	33	3,813	29	2,796	
P002A63R (RT)	—	—	—	35	4,641	33	2,730	
PV10S005RR2 (RT)	—	—	—	38	2,570	37	2,720	
TH 34006R2Y (RT)	38	41	47	34	8,593	31	2,595	
ASTRO R2 (RT)	40	42	44	35	3,948	36	2,507	
DKB006-29 (RR2X)	—	—	—	38	917	31	2,375	
LS SOLAIRE (RT)	—	—	—	30	568	27	2,290	
NSC ARNAUD RR2Y (RT)	—	45	40	33	9,338	30	2,126	
27005RR (RT)	—	—	50	33	1,214	30	2,054	
TH 33003R2Y (RT)	33	42	41	35	4,510	39	1,951	
DYLANO R2X (RT)	—	—	—	33	2,463	28	1,702	
0066 XR (RR2X)	—	—	—	31	1,177	32	1,666	
LS 006XT (RR2X)	—	—	—	—	—	26	1,637	
HS 006RYS24 (RT)	34	37	48	34	1,918	29	1,604	
PV 12S007 RX2 (RT)	—	—	—	—	—	32	1,427	
TH 37004 R2Y (RT)	—	—	—	34	1,565	29	1,425	
P006T78R2 (RT)	—	44	43	33	5,034	27	1,404	
GRAY R2 (RT)	35	41	48	34	4,302	30	1,325	
LS 004XT (RR2X)	—	—	—	—	—	29	1,151	
NSC RESTON RR2Y (RT)	33	41	39	30	5,391	24	1,035	
S006-M4X (RR2X)	—	—	—	—	—	30	994	
NSC SPERLING RR2Y (RR2X)	—	—	—	—	—	31	993	
MAXUS	—	—	—	—	—	24	955	
MCLEOD R2 (RT)	36	38	36	28	3,432	30	919	
TH 87000 R2X (RT)	—	—	—	—	—	27	899	
DKB006-99 (RR2X)	—	—	—	—	—	26	848	
TH 36007R2Y (RT)	—	—	52	38	1,111	21	842	
DKB007-67 (RR2X)	—	—	—	—	—	32	819	
24-61RY (RT)	38	39	42	—	—	27	817	
DS0067Z1 (RT)	—	—	—	—	—	28	798	
MAHONY R2 (RT)	—	—	40	31	5,717	26	779	
TH 88005 R2X	—	—	—	—	—	31	773	
25-04R (RT)	—	—	—	38	1,602	29	771	
CROPLAN RX00797 (RT)(DT)	—	—	—	—	—	32	720	
MARDUK R2X (RT)	—	—	—	—	—	30	707	
TH 32004R2Y (RT)	34	40	43	37	2,762	37	706	
SR006HP	—	—	36	26	1,705	25	687	
OPUS	—	—	—	32	534	30	666	
TH 88008 R2X	—	—	—	38	608	30	635	
DKB008-81 (RT)	—	—	46	35	5,073	31	590	
TORRO R2 (RT)	—	—	—	—	—	34	539	
NSC COULEE RR (RT)	—	—	—	—	—	27	521	
TH 33006R2Y (RT)	—	50	—	—	—	25	515	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							31.0	602,632

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
SUMMIT	126	137	129	154	69,314	115	67,205	
CS CAMDEN	—	135	128	157	50,549	114	60,301	
SOURIS	124	130	126	147	16,256	103	10,734	
RONALD	139	131	119	166	3,665	108	1,996	
CDC MORRISON	—	128	87	143	1,305	94	1,877	
ORE3542M	—	—	—	—	—	124	996	
ORE3541M	—	—	—	—	—	130	894	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							113.5	148,333

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
DKC33-78RIB (RIB)	—	—	177	157	23,285	132	47,038	
P7527AM (LT)(RT)	—	—	—	141	11,318	126	37,923	
P7958AM	—	149	152	144	38,563	134	19,160	
P7632AM (BT)(LT)(RT)	—	148	153	133	47,695	123	16,983	
TH 7578 VT2P RIB (RIB)	—	134	146	126	10,670	126	8,831	
39V09AM (BT)(HX1)(LT)(RT)	—	—	156	145	8,641	127	7,760	
P7211HR	—	—	159	134	7,577	108	5,753	

† 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 3, 2019;
* Assuming 48 lbs./bu.



CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
DKC35-88RIB (RIB)(RT)	—	—	—	—	—	150	5,566	
A4939G2 RIB (RIB)	—	—	172	154	1,959	115	4,933	
DKC32-12RIB (RIB)(RT)	—	—	180	164	1,975	106	3,515	
39V05 (RT)	131	144	162	142	3,550	111	3,321	
P8387AM (BT)(HX1)(LT)(RT)	—	—	164	149	2,381	137	3,213	
DKC27-55RIB (BT)(RIB)	—	—	148	140	6,481	85	2,523	
DKC26-40 (RIB)	—	—	—	—	—	111	2,063	
P7202AM (HX1)(LT)(RT)	—	—	137	132	3,182	145	1,425	
P7227R	—	—	—	—	—	115	1,283	
P7958YHR (HX1)(LT)(RT)	—	—	—	—	—	133	1,104	
MZ 1633DBR (RT)	—	134	156	124	1,561	95	1,036	
TH 7681 VT2P (RIB)	—	—	—	115	828	127	968	
P7632HR (BT)(RT)	128	149	150	146	1,484	127	924	
PS 2210VT2P RIB (RIB)	—	—	—	93	679	95	821	
P7332R (RT)	124	141	155	137	5,996	90	748	
LR 9676VT2PRIB (VT2P)(RIB)	—	—	—	—	—	124	625	
CROPLAN 2123 VT2P RIB (RIB)	—	—	—	—	—	106	565	
P8542AM (BT)(HX1)(LT)(RT)	—	—	—	159	1,663	155	553	
MZ 1340DBR (RIB)	—	—	—	130	697	84	502	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						126.3	189,201	

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CONLON	77	82	80	109	11,736	79	11,630	
AAC SYNERGY	—	—	64	99	5,122	89	5,407	
AC METCALFE	95	75	52	93	1,698	82	5,156	
CDC AUSTENSON	84	94	84	111	3,450	99	4,166	
CANMORE	—	—	94	104	2,888	84	4,088	
TRADITION	74	83	73	99	4,051	78	2,101	
CELEBRATION	79	86	79	102	6,344	83	1,871	
NEWDALE	68	85	87	107	999	83	882	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						84.4	36,726	

DRY BEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
WINDBREAKER (PINTO)	1,870	2,187	1,581	2,471	26,021	1,960	19,108	
ECLIPSE (BLACK)	1,570	1,792	1,457	2,048	10,938	1,702	11,940	
VIBRANT (PINTO)	—	—	—	2,635	1,053	1,969	4,907	
T9905 (WHITE PEA)	1,753	1,940	1,579	2,416	2,623	1,993	3,731	
MONTERREY (PINTO)	—	1,735	999	2,328	2,409	1,933	3,673	
ETNA (CRANBERRY)	—	1,911	—	1,949	600	1,638	2,124	
SV6533GR (PINTO)	—	—	—	2,264	1,643	1,821	974	
ZENITH (BLACK)	—	—	—	—	—	1,603	885	
DYNASTY (KIDNEY)	—	—	—	—	—	1,854	764	
CRIMSON (CRANBERRY)	1,795	1,962	—	2,518	791	2,555	702	
MERLOT (SMALL RED)	—	—	—	—	—	1,770	674	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1865.4	53,235	

FIELD PEA YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC CARVER	—	—	33	60	702	56	2,676	
AAC LACOMBE	—	—	—	—	—	41	2,035	
AGASSIZ	53	58	21	60	1,932	37	1,254	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						45.8	8,352	

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P63ME80 (O)	1,486	1,861	1,482	2,423	4,533	2,698	4,358	
TALON (O)	—	—	—	2,127	1,101	2,399	2,418	
P63ME70 (O)	2,315	1,713	1,532	2,392	4,793	2,939	1,977	
6946 DMR (C)	1,825	1,640	1,365	2,478	4,159	2,520	1,570	
N4HM354 (O)	—	—	—	—	—	2,981	921	
P63M80 (O)	1,812	1,964	1,883	—	—	2,784	516	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						2678.2	14,019	

† 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.

FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 12	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC GLAS	39	31	30	38	1,571	25	2,612	
CDC SORREL	25	25	21	33	1,299	31	1,452	
HANLEY	26	32	32	37	1,990	20	1,343	
WESTLIN 72	—	—	—	—	—	27	666	
CDC NEELA	—	—	—	—	—	28	635	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						26.4	8,292	

RISK AREA 14

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	59	7,517	49	29,100	
L140P (LT)	30	46	36	55	28,341	46	15,500	
L255PC (LT)	—	—	—	—	—	48	4,676	
L252 (LT)	31	43	30	48	3,043	44	4,458	
L241C (LT)	—	—	—	44	899	38	1,047	
74-44 BL (RT)	—	—	—	—	—	37	776	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						46.7	59,487	

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	53	50	69	14,734	70	29,451	
FALLER (NHR)	—	—	—	—	—	80	10,456	
CARDALE (RS)	45	59	47	67	7,921	67	8,547	
AAC ELIE (RS)	—	77	66	83	5,035	75	7,853	
GLENN (RS)	48	60	54	75	6,117	74	4,025	
CARBERRY (RS)	42	55	42	64	3,244	67	2,928	
EMERSON (W)	—	61	73	—	—	66	2,739	
SY ROWYN (PS)	—	—	—	77	509	75	2,574	
AAC GATEWAY (W)	—	—	—	—	—	73	1,480	
CDC STANLEY (RS)	41	49	43	67	2,056	55	1,383	
AAC PENHOLD (PS)	—	—	62	75	2,325	74	1,158	
CDC TITANIUM (RS)	—	—	—	59	1,061	58	925	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						71.4	76,656	

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
24-10RY (RT)	33	40	45	35	21,826	42	16,987	
DKB005-52 (RT)	—	—	—	36	2,117	44	13,046	
LS 003R24N (RT)	—	41	43	31	19,132	39	7,363	
LS MISTRAL (RT)	—	—	—	35	1,922	43	6,535	
S007-Y4 RR2Y (RT)	—	38	40	36	2,955	43	6,191	
23-60RY (RT)	28	39	41	30	7,304	38	5,840	
P007A90R (RT)	—	—	—	—	—	39	5,386	
TH 87003R2X (RR2X)	—	—	—	28	713	41	5,310	
LS SOLAIRE (RT)	—	—	—	29	1,809	42	5,283	
S006-W5 (RT)	—	—	—	38	735	42	5,044	
S0009-M2 (RT)	—	—	38	31	3,291	39	3,035	
NSC WATSON RR2Y (RT)	—	—	—	34	882	36	2,951	
OAC PRUDENCE	26	36	30	23	4,669	23	2,676	
P006T46R (RT)	—	—	—	26	13,573	36	2,433	
AKRAS R2 (RT)	—	—	43	29	4,510	42	2,107	
TH 33003R2Y (RT)	26	37	39	33	6,728	39	1,951	
LS 0036RR (RT)	—	—	—	25	1,047	39	1,856	
TORRO R2 (RT)	—	—	—	—	—	42	1,829	
P008T22R2 (RT)	—	37	44	25	1,949	30	1,644	
NSC GLADSTONE RR2Y (RT)	34	37	37	29	6,849	41	1,641	
TH ASTRO R2Y (RT)	—	—	—	23	2,160	44	1,306	
P006T78R2 (RT)	—	—	40	—	—	36	1,173	
PV10S005RR2 (RT)	—	—	—	—	—	39	1,106	
LS ECLIPSE (RT)	—	—	—	—	—	30	1,017	
NSC STARBUCK (RR2X)	—	—	—	29	2,677	39	997	
PS 0035 NR2 (RT)	—	42	40	30	4,697	33	877	
LS 003R22 (RT)	34	41	35	31	1,426	42	872	
25-10RY (RT)	34	46	50	30	4,577	33	842	
MCLEOD R2 (RT)	24	34	39	25	1,290	34	670	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						39.3	130,693	

‡ On system as of January 3, 2019;
* Assuming 48 lbs./bu.



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OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	—	122	145	8,709	120	12,436	
SUMMIT	94	121	95	147	7,315	118	6,631	
FURLONG	61	84	65	99	1,146	66	1,550	
SOURIS	82	94	80	77	2,800	50	1,351	
BIG BROWN	—	94	87	136	1,457	49	993	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							108.2	24,653

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7527AM (LT)(RT)	—	—	—	110	1,695	128	6,651	
P7632AM (BT)(LT)(RT)	—	130	147	113	6,052	126	1,907	
DKC33-78RIB (RIB)	—	—	—	103	936	110	1,803	
TH 7578 VT2P RIB (RIB)	—	—	—	116	1,154	134	1,602	
P7211HR	—	—	136	132	924	134	945	
P7958AM	—	156	156	129	2,303	122	817	
39V09AM (BT)(HX1)(LT)(RT)	—	—	139	110	1,103	131	607	
P8387AM (BT)(HX1)(LT)(RT)	—	—	—	110	559	121	570	
DKC26-40 (RIB)	—	—	—	—	—	110	557	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							123.3	19,459

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CHAMPION	56	81	62	94	1,470	92	2,477	
NEWDALE	—	—	—	—	—	60	582	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							83.9	5,922

SUNFLOWER YIELDS BY VARIETY 2014–2018†							RISK AREA 14	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
TALON (O)	—	—	—	—	—	2,458	502	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							2627.9	1,955

RISK AREA 15

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	52	4,823	40	22,822	
L252 (LT)	31	33	44	49	7,642	41	6,929	
L140P (LT)	36	31	44	51	9,406	43	4,994	
1026 RR (RT)	—	—	—	—	—	34	4,187	
L255PC (LT)	—	—	—	—	—	45	3,785	
1012 RR (RT)	30	30	38	43	5,286	32	3,531	
PV 200 CL (ST)	—	—	38	39	2,985	33	3,324	

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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.

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L230 (LT)	—	—	—	45	2,351	42	3,168	
L241C (LT)	—	—	39	45	3,669	34	2,780	
PV 560 GM (RT)	—	—	—	39	2,095	30	2,044	
1022 RR (RT)	—	—	40	43	1,586	29	1,755	
1024 RR (RT)	—	—	—	40	796	35	1,749	
45M35 (RT)	—	—	—	40	1,399	34	1,391	
75-65 RR (RT)	—	—	—	32	1,238	29	1,157	
74-44 BL (RT)	—	37	34	35	3,196	15	999	
46M34 (RT)	—	—	35	43	1,450	40	751	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							36.5	72,079

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
AAC BRANDON (RS)	—	44	52	68	20,186	52	37,773	
FALLER (NHR)	—	—	—	—	—	56	7,766	
CARDALE (RS)	48	45	55	71	7,814	54	4,156	
CDC STANLEY (RS)	35	46	33	56	1,675	40	3,448	
AAC VIEWFIELD EXP (RS)	—	—	—	—	—	55	2,703	
AAC ELIE (RS)	—	—	—	56	1,335	45	2,431	
AAC PENHOLD (PS)	—	—	69	80	3,278	61	2,201	
SY ROWYN (PS)	—	—	—	—	—	61	1,298	
CARBERRY (RS)	38	42	47	60	1,005	45	1,113	
AAC GATEWAY (W)	—	—	—	—	—	41	569	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							52.1	68,433

SOYBEAN YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
NSC WATSON RR2Y (RT)	—	—	43	32	10,624	28	10,276	
S007-Y4 RR2Y (RT)	—	35	44	36	8,669	30	9,852	
P006T46R (RT)	—	—	—	33	9,573	28	6,093	
TH 33003R2Y (RT)	29	34	41	29	4,444	29	3,228	
S0009-M2 (RT)	—	—	45	39	1,655	32	3,096	
MAHONY R2 (RT)	—	—	46	34	5,092	32	3,092	
23-60RY (RT)	—	33	43	25	597	29	2,769	
LS SOLAIRE (RT)	—	—	—	—	—	31	2,660	
TH 87003R2X (RR2X)	—	—	—	—	—	30	1,975	
PS 0027 RR (RT)	—	—	—	29	1,017	30	1,921	
P002A63R (RT)	—	—	—	—	—	33	1,726	
LS 003R24N (RT)	—	37	44	32	3,895	33	1,542	
P007A90R (RT)	—	—	—	—	—	32	1,494	
BISHOP R2 (RT)	34	34	43	33	1,778	39	1,112	
PV11S001RR2	—	—	—	—	—	14	765	
S0009-D6 (RT)	—	—	—	—	—	23	686	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							26.8	74,273

OATS YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CS CAMDEN	—	—	121	127	13,552	83	15,808	
SUMMIT	76	88	101	108	3,109	49	2,514	
SOURIS	74	82	92	119	4,060	68	1,784	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							73.4	23,301

CORN YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
P7211HR	—	—	—	—	—	133	692	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							106.9	2,075

BARLEY* YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CANMORE	—	—	—	—	—	81	1,567	
CHAMPION	60	57	67	82	1,408	68	1,167	
CELEBRATION	43	59	—	—	—	31	992	
CDC AUSTENSON	50	49	66	73	1,334	73	931	
TRADITION	47	51	36	68	751	68	517	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							62.8	6,691

‡ On system as of January 3, 2019;
 * Assuming 48 lbs./bu.



FLAX YIELDS BY VARIETY 2014–2018†							RISK AREA 15	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC GLAS	—	—	—	31	851	27	1,893	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							27.4	3,527

RISK AREA 16

CANOLA YIELDS BY VARIETY 2014–2018†							RISK AREA 16	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
L233P (LT)	—	—	—	—	—	17	6,617	
75-65 RR (RT)	—	—	—	—	—	22	3,656	
L230 (LT)	—	—	—	—	—	17	2,914	
L252 (LT)	—	—	16	—	—	24	2,354	
45H76 (ST)	—	41	12	—	—	—	1,974	
6074 RR (RT)	—	—	6	—	—	29	1,694	
PV 540 G (RT)	—	—	—	—	—	17	1,520	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							18.0	30,827

WHEAT YIELDS BY VARIETY 2014–2018†							RISK AREA 16	
Variety¶	2014 Yield	2015 Yield	2016 Yield	2017 Yield	2017 Acres	2018 Yield	2018‡ Acres	
CDC PLENTIFUL (RS)	—	56	31	—	—	37	1,831	
CARDALE (RS)	—	—	47	—	—	42	1,395	
CDC UTMOST (RS)	42	62	47	—	—	34	945	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							37.2	6,302

ADDITIONAL CHARACTERISTICS KEY

WHEAT

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

SUNFLOWER

- (C) Confectionary
- (O) Oilseed

CANOLA & SOYBEAN

- (BT) Compas (Bromoxynil) Tolerant (BX), Navigator Varieties
- (LT) Liberty Link (LL) - (Glufosinate Ammonium); Invigor varieties
- (RR2X) Glufosinate and dicamba resistant
- (RT) Roundup Ready - (Glyphosate Tolerant)
- (ST) Pursuit Smart, Odyssey (Imazethapyr) (-IMI) ; Clearfield varieties
- (TT) Triazine Tolerant

CORN

- (BT) Contains Bacillus thuringiensis (Bt) insecticidal protein
- (HX1) Herculex insect protection gene
- (LT) Liberty Link (LL) - (Glufosinate Ammonium); Invigor varieties
- (RA) Single bag blend for non-Bt refuge compliance
- (RIB) Single bag blend for non-Bt refuge compliance
- (RT) Roundup Ready - (Glyphosate Tolerant)
- (ST) Pursuit Smart, Odyssey (Imazethapyr) (-IMI) ; Clearfield varieties
- (TT) Triazine Tolerant
- (VT2P) Roundup Ready and Liberty Link tolerant

† 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 3, 2019;
 * Assuming 48 lbs./bu.



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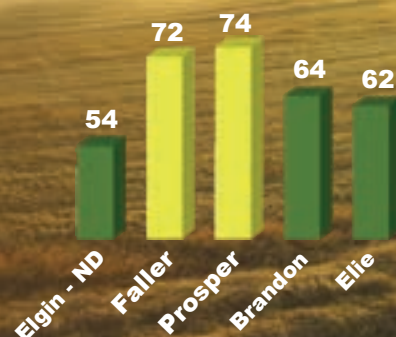
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2018 Seed MB Data

- ✓ **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**


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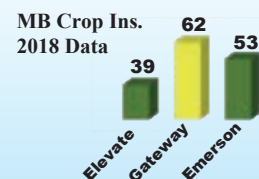
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