

yield²⁰⁰⁹

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Too cool, too wet, yet too dry above average yields



by Allan Dawson, *Manitoba Co-operator* staff

It was the best of times and the worst of times, depending on where you farmed in Manitoba last year.

Manitoba farmers harvested above-average yields in 2008 — despite too much rain in the Interlake, not enough in the southwest and widespread frost in late May that damaged or killed canola seedlings, and cold temperatures that stunted corn.

Preliminary data from Manitoba Agricultural Services' (crop insurance) 'Management Plus' program (www.mmpp.com) points to record yields for spring wheat (50 bushels an acre), winter wheat (72), canola (41), flax (26) and grain corn (120). (Although the data is almost complete, results could change slightly after all of it has been entered and refined.)

But the outcome — above average-yields — isn't expected to change, which is remarkable given the year.

Spring seeding started off colder than normal and even dry in many areas. Below-average temperatures

continued through much of the growing season. By mid-June, agronomists and farmers alike feared fall frost damage, especially with grain corn.

Cool temperatures probably boosted cereal and canola yields, especially in the southwest, which according to Waskada-area farmer Lance Vanbeselaere, started off the driest in 50 years with little subsoil moisture, no runoff and dry sloughs.

Cool summer

Cooler weather typically hurts yields of heat-loving crops like corn and soybeans. Not in 2008. Manitoba's corn belt only received 86 per cent (Morden) to 94 per cent (Carman) of normal corn heat units, according to weather data collected by Manitoba Agriculture, Food and Rural Initiatives (MAFRI), yet corn yields averaged a record 120 bushels an acre, up from the previous record of 117.2 set in 2007. (Some grain corn has yet to be

"I find it hard to believe, but I've done the numbers a couple of times. I've never combined a crop of oats like that in my life. It was phenomenal."

— Albert Peters

harvested so the final yield could be lower.) Nevertheless, many corn farmers say they harvested their best yields ever in 2008. According to preliminary Management Plus figures, corn yields averaged an amazing 133 and 132 bushels an acre in the Rural Municipalities of Stanley and Rhineland, respectively.

Albert Peters, who farms near Winkler, harvested 140 bushels an acre. But he also knows how lucky corn growers were.

"We are so fortunate the good Lord didn't let it freeze until towards the end of October," he said. "If we would've had a frost in the middle of September we would've had a total disaster in the corn crop."

Peters' oats did even better — 140 to 150 bushels an acre.

"I find it hard to believe, but I've done the numbers a couple of times," he said. "I've never combined a crop of oats like that in my life. It was phenomenal."

Peters attributes it to high bushel weight.

Late freeze

The arrival of the first killing frost varied throughout the province. But most areas didn't have one until October.

Soybeans benefited too. Seeing how well they performed has encouraged Andy Baker, who farms near Beausejour, to double his soybean acres in 2009. He's cutting back on oil sunflowers, a crop that has been good to him in the past, but not recently because of waterlogged soils.

"Sunflower can use a ton of moisture if you get them growing, but they just can't be standing in water all the time," he said.

"We need a drought and I'm not saying that jokingly

either. If we don't get our water table here down it's going to be hard to grow a good crop."

Eastern Manitoba, didn't have the extensive flooding seen in the Interlake, but there was too much moisture for most crops, in part due to a rising water table, Baker said. Some wells in the area are overflowing. Baker said a lot of his crop, seeded in wet soils, got off to a poor start. He reseeded a field of canola because of soil crusting.

"The canola did pretty good in the end considering I had a 70-acre piece that was probably 30 per cent drowned out completely, but I still ended up above my crop insurance coverage," he said.

Too wet

Baker's wheat varied from 25 to 55 bushels an acre. His oats yielded just over 90 bushels an acre — 10 bushels above the municipal average. But he's used to getting closer to 120.

Baker's non-genetically modified soybeans performed the best of all, yielding 38.5 bushels an acre. Moreover, he saved money on fertilizer and seed costs and earned a \$1 a bushel premium because they were non-GM.

Province wide, soybean yields averaged 34 bushels an acre, down from the record 36.6 set in 2007, but well above the 10-year average of 27.

Crops yielded well in the northwest. Calvin Gust, who farms near Minitonas, said his canola did around 40 bushels an acre, while his wheat was in the mid 40s. Nearby Swan River received 293 mm of rain from April to October, which is about 86 per cent of normal. Spring wheat in the R.M. of Swan River averaged 50 bushels an acre — nine bushels ahead of the provincial average.

Wheat yields weren't as good in the southwest, no doubt

Wheat yields high in 2008, but FHB bad

by Allan Dawson, *Manitoba Co-operator* staff

For red spring wheat yields to average 50 bushels an acre across the province is remarkable.

And even if the final figures fall below the 47.3 bushels an acre set in 2003, last year will still be one to remember. Unfortunately, a lot of the harvest has, or will be downgraded, because of fusarium head blight damage and weathering, for those unable to get the crop in before the fall rains hit.

Think what the average might have been had the Interlake and southwest had better growing conditions.

Average milling wheat yields in a number of municipalities exceeded 50 bushels an acre and even 60, including the municipalities of Rhineland and Roland, where wheat yields averaged 62 bushels an acre.

Across the province, the variety Kane had the highest average red spring wheat yield at 60 bushels an acre. However, that came from just 5,563 acres. New varieties tend to get planted on the best land and get the most inputs, which tends to skew the results.

CDC GO came in a close second, averaging 58, but it was severely infected with Fusarium head blight in the areas where the disease is often a problem.

The single highest red spring wheat yield on a municipal basis, was CDC GO, averaging a whopping 78 bushels an acre in the R.M. of Dufferin.

AC Barrie remains popular, accounting for more than 517,000 acres in 2008 and averaging 50 bushels an acre provincially. The almost 6,600 acres planted in the R.M. of Roland averaged 60 bushels an acre.

due to the dry spring, but timely rains resulted in many farmers being pleasantly surprised with the yields they took off.

"I think many farmers would consider yields to be almost normal," Vanbeselaere said, adding that 30 years ago it would have been considered a bumper crop.

Vanbeselaere said his wheat yielded 30 to 40 bushels an acre, his barley did 50 to 70, oats went 60 to 75, Nexera canola 30 to 35 and regular canola better than 35.

Not so lucky

While last year's crop turned out better in the southwest than expected, the same didn't hold for the sodden Interlake.

"I don't want to see a year like that again," said Len Loewen who farms near Riverton, in the R.M. of Bifrost. Spring wheat averaged 25 bushels per acre, winter wheat 58, canola 26, oats 53, flax 14 and soybeans 19 in that municipality.

Loewen's winter wheat, like many others in the region was severely infected with fusarium head blight. Some

samples were as high as 15 per cent damage and graded sample or feed.

Loewen said his spring wheat fared a bit better at five to seven per cent fusarium damage. His grass and alfalfa seed yielded almost nothing, but his canola averaged 27 bushels an acre. Loewen's oats yielded a remarkable 135 bushels an acre. He credits planting them on alfalfa ground, which not only improves fertility, but internal drainage.

Gimli, just south of Riverton, received 537 mm of rain from April to October — 37 per cent more than normal. And it wasn't just the total, but how much that came at once that caused problems. Arborg, for example, was hit with 106.4 mm (four inches) of rain Aug. 21 and there were anecdotal reports of some places getting five or six inches from one storm.

Meanwhile, last year's excessive rain will haunt Interlake farmers this spring.

"Your chances for an average yield are very, very slim," Loewen said. "You've got to get those fields worked up and you'll see (the effect) of those ruts (on yields) for a number of years."

Crop	2008 yield b/a	2007 yield b/a	% change	10 year average	% change	New yield record	Previous 2008	Year record
Red spring wheat	50	39.7	26+	39.9	25+	50	47.3	2003
Winter wheat	72	65.5	10+	56.4	28+	72	66.1	2006
Argentine Canola	41	28.2	45+	30.2	36+	41	34.9	2006
Oats	94	90.7	4+	79.6	22+	-	97.5	2004
Flax	26	21.7	16+	19.1	36+	26	22.98	1996
Grain Corn	120	117.2	2+	88.2	36+	120	117.2	2007
Soybeans	34	36.6	7-	27	26+	-	36.6	2007
White Pean Beans	1534	1491.2 lbs/a	3+	1378	11+	-	1761.5	2006
Non-oil sunflowers	1647	1531.4 lbs/a	7+	1333	24+	-	1926.8	2006

RM	Region	Spring wheat b/a	winter wheat	canola	Oats	Flax	Corn	Soybeans	White pea lbs/a	Non-oil sunflowers lbs/a
Armstrong	Interlake	39	NA	16	35	NA	NA	NA	NA	NA
Arthur	Southwest	39	44	31	72	20	NA	NA	NA	1675
Bifrost	Interlake	25	58	26	53	14	NA	19	NA	NA
Brenda	Southwest	38	41	34	79	25	NA	NA	NA	1370
Brokenhead	Eastern	43	70	38	82	23	NA	32	NA	1061
Dufferin	Central	61	79	43	109	27	116	33	1536	1540
Edward	Southwest	36	44	28	51	19	NA	NA	NA	NA
Fisher	Interlake	22	43	18	35	9	NA	NA	NA	NA
Gimli	Interlake	28	NA	25	22	NA	NA	NA	NA	NA
Lac Du Bonnet	Eastern	45	70	37	92	27	NA	31	NA	NA
MacDonald	Central	52	79	40	116	29	127	38	NA	1698
Rhineland	Central	62	80	47	120	27	132	31	1636	1603
Stanley	Central	60	80	45	106	24	133	32	1771	1638
Swan River	Northwest	59	NA	48	87	NA	NA	NA	NA	NA
Winchester	Southwest	41	45	39	93	23	NA	NA	NA	1792





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Challenging business environment for Manitoba vegetable producers



We've needed to work together...

Before wheat became King in this province, vegetable gardens not only kept homesteaders fed year round, they brought in extra income from sales of surplus root crops.

A few Manitoba farmers never stopped growing vegetables.

They went on to establish market gardens and this province's first commercial vegetable farms, selling to both the fresh market and to canneries and pickling companies at the turn of the century. In the early 20th century there was a thriving market garden sector around Winnipeg. Commercial vegetable production was first recorded in Manitoba in 1936.

By mid-century, descendants of many of these vegetable farmers began looking for better land and growing conditions elsewhere. They found it on the fertile river plains around Portage la Prairie. Meanwhile, in southern Manitoba, around Winkler, Altona and Emerson, more vegetable farms had established. Production has always concentrated wherever heat units were the highest and there's been access to rivers or aquifers. Virtually all vegetable land is irrigated.

Strong reputation

Today this province has a strong reputation, both domestically and internationally, for production and export of exceptionally high-quality table market vegetables.

In 2006, Manitoba marketed close to 119 million pounds of vegetables for a total value of more than \$28 million, based on figures from the *2006 Manitoba Agriculture Yearbook*.

It's a sector with an intensely local focus too. Even in their winter-bound province, Manitobans can buy and enjoy fresh locally grown vegetables year round.

All this takes place on an astonishingly small number of farms on an equally small number of acres.

Potatoes comprise a major portion of total vegetable production, with Manitoba now producing approximately 20 per cent of the entire Canadian potato crop. But growers additionally produce over 120 varieties of other kinds of fresh vegetables on about 6,000 acres.

A to Z

They comprise a hugely diverse crop of root and summer crops on a list literally spanning from A (asparagus) to Z (zucchini.) Carrots, onions and sweet corn cover the most acres. The *2006 Manitoba Agriculture Yearbook* notes 900 acres of carrots, 700 acres of sweet corn, and 1,100 acres of cooking onions planted that year. Growers also devote substantial acres to summer crops such as cauliflower (500 acres), green onions (500 acres), broccoli (430 acres) asparagus, and cabbage including Chinese cabbage (420 acres). Other root crops include parsnips (95 acres), beets (55 acres) and rutabagas and turnips (40 acres).

Anywhere from 10 to 100 acres are additionally devoted to growing squash and zucchini, celery, green beans, asparagus,

cucumbers, lettuce and kale, peppers and other summer crops.

A core of about a dozen major commercial producers, plus another 250 market gardeners own and operate Manitoba's vegetable farms. Farms tend to concentrate in the Portage la Prairie and Marquette areas, where an estimated 60 per cent of the province's vegetables are grown. But they are also found in and around southern Manitoba near Winkler, and in East St. Paul, the Emerson area and west and south of Winnipeg.

Commercial core

The core commercial producers, many with generational ties to the early last century market gardeners, have led industry development through mechanization, infrastructure and new technology development, and by establishing production protocols that have become standard industry practice over the years.

Founders of Peak of the Market are among these growers. Since 1942, growers have controlled production of their vegetable commodities through this grower-owned supply and marketing company.

Vegetable farmers say Peak has played a fundamental role in enabling vegetable growers to stay in a much better position, relative to other commodity producers, over the years. "What it does is it makes an atmosphere here so that you can be more profitable," says Doug Connery, director of Connery Riverdale Farms Ltd. established in the Portage area in 1960. "When I go to other provinces and talk with other producers they're main complaint is how they're being beat up by the wholesalers."

Not every grower opts to sell through Peak, he notes, but he said he believes the mentality that prevails in their industry embraces the merits of working together, rather than eyeing one another as competitors.

"We've needed to work together... to put the pressure outward," he said.

Pressures intense

That's because even with the marketing muscle of Peak behind them, they're always under intense price pressures.

About 65 per cent of provincial production is exported to markets in both Eastern and Western Canada, as well as to points in the U.S. and throughout the world. (Manitobans can't possibly consume all that's grown here. Beet acreage alone supplies demand across most of Western Canada, for example.)

As a result Manitoba-growers selling their produce in a free market are up against a host of worldwide competitors, including loads of offshore operators with lower costs of production. That price-reduced green pepper with no country-of-origin listed was probably handpicked by Chinese vegetable farmer working for wages of about \$1 a day, for example. ➡

to put the pressure outward. — Doug Connery

Wholesalers, tempted by this cheap produce, are constantly pressuring Canadian farmers to lower their prices. Public demand for locally grown product in recent times has had only minimal impact on where buyers source product, growers say.

As well, there are few national produce buyers around anymore; the big three are Sobeys, Loblaws (Superstore) and Canada Safeway. Unless there's pressure from the public to source produce locally, they tend to pursue the lowest price they can find, regardless of source.

Brutal

"It's a brutal, brutal industry," says vegetable specialist Brian Hunt with Manitoba Agriculture Food and Rural Initiatives (MAFRI). "There are always those pressures coming back from the grocery trade."

Those continuing pressures make growers like Connery wary about the future. Farm cash receipts of vegetable growers have not changed substantially in a decade. But cost of production has been a different story.

"Cost of production is really going out of line," he said.

Like all commodity producers, they've been taking a substantial hit from the rising costs of fertilizer and fuel.

But there's another rising cost that vegetable producers uniquely bear; the price of labour.

It takes many pairs of hands to harvest and process vegetables and plenty of cash to pay their annual wages. Close to 2,000

full-time and seasonal farm workers are employed every year in the sector in Manitoba.

"Fifty per cent of vegetable production costs is labour, especially when you're talking summer crops," says Connery.

Costs rising

And labour costs are rising sharply in Manitoba. Connery estimates that recent minimum wage hikes over the past three years have raised vegetable growers' costs of production at least 10 per cent.

"Are prices going up 10 per cent?" he asks rhetorically. He speculates further increases will kill or continue to reduce local production of Manitoba's most labour-intensive crops such as asparagus, cucumbers and green onions.

"Growers are going to say 'I just can't afford to grow them anymore.'"

Other business environment expenses facing commercial growers include new provincial building codes for agricultural buildings, and more environmental regulation on production. Input costs, such as seed and safer chemicals, some of which are now partly plant-based, cost more. So does farm equipment. The price tag on a carrot harvester is as high, or higher than a new combine these days.

It all creates pressure on growers to expand so they can spread those costs over a larger production base.

"We can't still farm on the same acreage as we did before." ■



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AgriStability flawed or

by Ron Friesen, *Manitoba Co-operator* staff

At a recent Manitoba Cattle Producers Association annual meeting in Brandon, a roomful of producers listened as Dianne Smith, an Agriculture and Agri-Food Canada client relations officer, spoke on the topic "AgriStability: How to Make it Work."

There were few questions — and it wasn't because they were satisfied with the program. Quite the opposite.

Livestock farmers are so disillusioned with AgriStability, they feel it isn't worth talking about, said Betty Green, a cattle producer from Fisher Branch. "They've absolutely given up," Green said.

Larry Clifford, a Dauphin producer, was more specific. "It doesn't work," said Clifford. "It's complicated, it's not understood, it's not predictable and the bankers don't accept it."

Ah, AgriStability. Mention the name to farmers and you'll get an earful. It isn't always complimentary.

Complaints about AgriStability, part of the federal-provincial "suite" of farm business risk management programs, usually boil down to a few key ones.

Margin based

Like its predecessors CAIS, CFIP and AIDA, AgriStability is based on an individual producer's long-term average financial margin (cash receipts minus allowable costs). Producers argue that because it is margin-based, AgriStability does not reflect true income declines. If market revenues fall for a sustained period (as cattle producers' did after BSE), margins fall too. As a result, coverage drops until finally there is no margin on which to base a payment.

Producers also complain that, since payments are based on the tax year just ended, they arrive after the fact. They don't come at the moment they're needed. They're not adequately predictable. You can't take the promise of a possible payment to a bank as collateral for an operating loan.

That's perhaps the biggest problem with AgriStability says Robert McLean, Keystone Agricultural Producers vice-president.

Not bankable

"Farmers need to know well in advance what they're covered for and this program hasn't been able to tell them that," said McLean, a grain and cattle farmer near

Manitou. "You can't take a number to the bank that they can work with."

AgriStability is designed to manage farm business risk. Ironically, rising input costs may force farmers to accept more risk under the program instead of less, said KAP president Ian Wishart.

"In the longer term, with our increasing costs of farming, most input costs have gone up fairly substantially, although they've pulled back a bit recently," said Wishart, who farms at Portage la Prairie. "The margins just aren't growing with the increased costs. Therefore, farmers are actually absorbing more risk."

"I can see the program becoming increasingly inadequate as time goes on."

*Mention AgriStability to
farmers and you'll get an earful.
It isn't always complimentary.*

Unfair

Federal bureaucrats charged with delivering AgriStability find the criticism a bit unfair, especially since the program pays out a lot of money.

Ellen Funk, an AgriStability spokesperson for the federal government, said as of January 4, the program had paid out \$56.3 million to 1,767 Manitoba producers for the 2007 tax year. That included final payments, interim payments and targeted advance payments (TAP).

Final 2007 payment figures could be substantially higher because the remaining 20 per cent of applications still to be processed include some large claims.

For 2008 thus far, 314 Manitoba hog producers have received \$32.6 million in targeted advance payments, while 173 cattle producers have received \$1.7 million under TAP.

Funk said AgriStability has undergone significant improvements since its inception in 2007. Those include replacing mandatory deposits with fees, as well as changing inventory valuations and negative margin coverage. Some



just misunderstood?

changes were incorporated into CAIS in 2006 and carried over into AgriStability the following year.

Changes unnoticed

These changes may have gone unnoticed because AgriStability is still a work in progress, Funk said.

"There have been significant improvements and they've been gradual. So I think people have not been taking into account some of these positive changes."

Funk said officials continue to work on making AgriStability more transparent and bankable. A national program advisory committee established late last year has 22 farmer representatives charged with bringing their fellow producers' concerns to the table.

"That's another area where we continue to get feedback from farmers and work on improvements in delivery of the program," said Funk.

Hard to say

It's hard to say if AgriStability works or not because it is so individualized. What works for one farmer may not work for another, said Lorne Martin, Manitoba Agriculture, Food and Rural Initiatives assistant deputy minister.

"The program is not designed for one sector or another. Once the grain sector said it didn't work for them because of declining margins. Now the livestock industry is telling us it doesn't work for them; it was designed for the grain people. It depends on an individual's situation," said Martin.

Farmers may not like the fact that AgriStability is based on financial margins rather than market shortfalls. But that's the way the program is designed and people have to work within that framework, he said.

"The way I would look at AgriStability is to focus on what it does, which is to protect a margin. I would try to look at both sides of the picture and say, is it doing what it should do or isn't it?"

Offsets

"If you have a 20 per cent drop in revenue and think you should get a payment based on that drop in revenue, maybe you'll get it but only if it isn't offset on the cost side. It's not that simple just to look at one side or another."

As for negative margins, Martin said the program will only exclude producers with three negative margins in the last five years.

AgriStability is cost-shared between Ottawa, which pays 60 per cent, and the provinces, which contribute the remaining 40 per cent. Martin called it "a demand driven program" in which governments have to pay whatever amount is triggered.

For example, in 2005 Manitoba budgeted \$52 million as its share of CAIS, then in effect. But excess moisture that summer drove up the province's costs to around \$115 million, more than twice the original budget, Martin noted. ■

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MAFRI test driving potential field crops for Manitoba

by Tammy Jones, Diversification Specialist, MAFRI

Predicting success is always difficult, so Manitoba Agriculture Food and Rural Initiatives' Diversification Centres are test driving a number of crops to see what might add value to farming operations in Manitoba. Here are just a few of the crops that are showing promise for diversification.

Industrial hemp

In Canada, industrial hemp is a new alternative crop grown for grain and fibre. It breaks the traditional crop disease cycles affecting cereals while offering enhanced cropping profits for farm businesses.

Hemp grows well in Manitoba's wide variety of climate and soil types, making it ideal for areas of the province that do not have the option of some of the longer-season cash crops such as beans and sunflowers. Since 1998, hemp has grown into a \$10 million dollar industry of processed products.

Industrial hemp is a high-volume renewable source of

quality fibre. The fibre is well suited for supplementing or substituting non-renewable sources of fibre used in big market products such as paper, insulation, bio-composites, energy, or in the horticultural industry. The full plant utilization of hemp has a high potential in the emerging bio-economy. The fibre processing industry is just starting to develop with a number of initiatives being investigated across Canada.

A crop that can be eight to 12 feet tall has some challenges at harvest time, but producers have successfully modified their conventional equipment.

Marketing, as with any small acreage crop, is a challenge with industrial hemp. There are a limited number of grain processing companies, that contract their needs every year. It is strongly advised to have a contract before growing hemp as it is currently still a niche crop that is vulnerable to overproduction. ➡

Existing Manitoba grain processors/contractors include Hemp Oil Canada (Ste. Agathe, MB), Manitoba Harvest (Winnipeg, MB) and Farm Genesis Group, (Waskada). These companies primarily crush industrial hemp grain for oil, the nut, protein powder and other products. Other grain processing companies using Manitoba hemp grain are located in British Columbia, Alberta, Saskatchewan, Ontario, and Quebec.

Parkland Industrial Hemp Growers Co-op Ltd. (PIHG) in Dauphin is a grower co-op that is sponsoring a hemp plant breeding program to make locally adapted varieties available. PIHG is also providing the fundamentals for a fibre processing facility. It relies on dedicated growers prepared to grow the crop for grain or fibre.

The Emerson Hemp Distribution Company, (Emerson) is currently the only company that processes raw hemp fibre into the components of hurd and bast fibre.

It is strongly advised to have a contract before growing hemp as it is currently still a niche crop.

Whole hemp grain is also marketed for bird seed but must be sterilized before it can be sold. Fisher Seeds Ltd. (Dauphin) is the only firm in Manitoba that has the facilities to provide non-viable whole hemp grain.

Do a Google search of these companies for further information. For Production information refer to the Manitoba Agriculture, Food and Rural Initiatives website <http://www.gov.mb.ca/agriculture/crops/hemp/>

Calendula (*Calendula officinalis*)

Calendula or Pot Marigold has been grown in flower gardens across the prairies for many years providing cheerful, brightly coloured blooms well into the fall. Calendula is a biennial, but is generally grown as an annual plant.

Trials conducted in Manitoba last summer demonstrated that calendula can be grown quite successfully as a field crop. Insects, in particular grasshoppers, were not attracted to this crop, which may give it a real advantage in certain regions. At present, seed yields of 1,000 to 1,500 kg/ha are obtained on a farm scale, but with improved production systems and selected varieties, it is believed yields could double.

Currently no herbicides are registered for calendula in Canada, so early seeding (about the beginning of May) is important to allow the crop to establish and compete against weeds. The crop does have more frost tolerance than flax in the fall, so there is less chance of a fall frost ending the growing season prematurely. That being said, desiccation is required to halt growth so that the crop may be harvested. The seed is very light and bulky, which does have some potential harvesting issues, either blowing out the back of the combine or bridging as it is being unloaded from the hopper.

The plant has several potential commercial uses. The seed oil contains a specific compound called calendic fatty acid. The seed of calendula contains 18 to 22 per cent oil and this oil contains



45 to 60 per cent of the very reactive C18:3 calendic fatty acid. The chemical structure of calendic acid makes it a potentially useful compound within industrial products and for chemical modification.

Market opportunities have been identified for calendula oil as an ingredient to replace volatile organic compounds in the manufacturing of paints and as a replacement for tung oil. The essential oils can also be for topical medicinal products and the pigments from the flowers are used for cosmetic products. Variety trials are being conducted with support from a Dutch company, and while contract production is not currently being offered in Canada, there is potential for that to happen in the next few years.

Camelina

Camelina is an ancient crop originating southeast Europe and becoming well established during the Bronze Age. Like other cruciferous species, it is likely best adapted to cooler climates where excessive heat during flowering is not important.

Camelina is short seasoned (85 days), grows 30 to 90 cm tall, requires one-third the nitrogen that canola needs, is frost tolerant, drought tolerant, insect tolerant, and very competitive among weeds. The seed is orange and one-fifth the size of flax. The oil of the seed is of interest with oil content ranging from 38 to 42 per cent, which is near that of canola at 44 per cent. However it has a much healthier profile with omega-3 fatty acids (linoleic and linolenic) content being 34 per cent of the total oil profile, similar to flax but more stable, with a boosted tocopherol (Vitamin E) content in comparison. Markets for the oil include health food enrichment, biodiesel production, soaps, cosmetics, birdseed and oil for cooking. ➔

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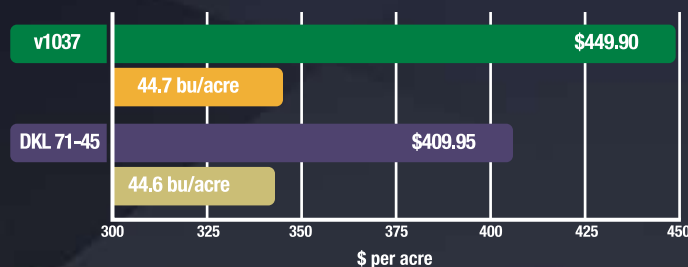
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Research on camelina is being conducted by the diversification centres co-ordinated by the Westman Agricultural Diversification Organization (WADO) based out of Melita. Tests on camelina include oil temperature clouding point assessments, nitrogen fertility response trial in comparison to canola, fall and spring seeding date trials, regional adaptation trials, and a cultivar demonstration plots.

Camelina may have a fit as a biodiesel additive for low temperatures, a low-input oil seed for organic production, and food additive for new health foods. In 2007, producers reported a total of 246 acres of camelina grown in Manitoba from their seeded acreage report. In contrast, Saskatchewan producers reported 4,564 acres in 2007 in their seeded acreage report.

Hulless oats (*Avena Nuda*)

Hulless oats were used by the settlers in Asian and Europe many centuries ago. This staple of their diet was used rather than corn, which was considered a livestock feed. Harvesting problems in the past were caused by, “hairs” (trichomes) on the bare seed that would cause bridging in equipment, and were very itchy when the grain was handled. New breeding has reduced the number of these hairs and has greatly increased the handling ability of the seed.

Hulless oats production is similar to most cereal crops. However the crop requires more attention at harvest to remove the loosely attached hulls, but not damage the de-hulled seed or groat.

The de-hulled groats have become very popular in the livestock feeding industry due to the high lysine, protein and amino acid levels. Special interest has been shown by the racehorse markets as well as regular poultry and swine producers. In addition to livestock, this product has shown some potential in the human consumption market, especially with celiac patients. Currently there are a number of companies contracting production in Canada and Manitoba for this grain with markets worldwide.

High-yielding wheats:

One of the next frontiers for crop production in Manitoba may involve pushing the limits of our most popular crop — wheat.

Higher protein, greater gluten strength, along with better nutrition and cooking properties have been the focus of most wheat breeding since agriculture began in Western Canada. However, new markets to feed livestock and fuelling engines are developing where maximum starch production per acre is most desirable. Although some of the excitement surrounding ethanol has dissipated, new technology is being implemented that will make ethanol production and use much more efficient and economical. So this market still has considerable potential.

While corn may be King as an ethanol feedstock in North America, wheat has significant genetic potential to increase yields

while lowering protein and increasing starch content. It is with this in mind that Manitoba's Diversification Centres took part in a Prairie-wide project to evaluate the cereal varieties with the greatest potential for ethanol production for this region. Wheats from Europe and from many different classes were evaluated, as well as hulless barley, triticale and even oats were tested. Results show it is possible to produce much more starch per acre with varieties that would not be suitable for bread production. But growers need to be cautious with many of these varieties, especially in Manitoba where fusarium head blight and other cereal diseases can quickly wipe out any yield advantage in a susceptible variety.

In field trials done over the past three years in Manitoba — wheat varieties like AC Andrew, and CPSR's like 5700PR and ACVista did very well. While final testing of starch content and ethanol potential from all of these trials is yet to be completed, there are varieties that seem to have good combinations of yield and ethanol potential. However, all of these wheats have significant disease concerns when grown in Manitoba. Some of the new triticales did very well too, but the market potential for triticale as an ethanol feedstock is still developing and needs more research.

Disease susceptibility in high-yielding wheats is a significant obstacle for this new opportunity to flourish in Manitoba. This concern is a priority for the Western Feed Grains Development Co-op (<http://www.wfgd.ca/>). The WFGD Co-op is using genetic material to develop wheat varieties that have good potential for high yields while still providing reasonable disease protection. These new wheats will be maintained within a closed co-op so all types of genetic material can be utilized without jeopardizing Canada's quality assurance system. Manitoba's Diversification Centres tested some of the WFGD varieties and found some lines are equal to or better than any of the other high-yielding wheats currently developed but with much better disease protection.

With initiatives like this, high-yielding, high-starch wheats may soon be another important cropping option for Manitoba farmers. ■



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The updated data tells the same story

Canola on canola – your fields say it doesn't work

by Anastasia Kubinec, Oilseed Business Development Specialist, MAFRI

There was a lot of canola in Manitoba in 2008 — almost three million acres, our largest planting ever. For 2009, canola still pencils out as a good crop to grow. So maybe you're thinking that your 2008 field of canola, should be canola again in 2009.

Hold that thought for a moment.

An excellent free “risk management” resource from Manitoba Agricultural Services Corporation (MASC) may add new insight to your cropping choices. The MASC database, created with data submitted from your annual harvest reports, holds thousands of real-life yield responses across the province of how crop A planted on stubble B (or C, D, E, F) yielded.

This can help reduce risk on your operation is by removing some of the guessing game over how canola on canola might yield, or whether wheat on canola would be better.

The information from the database is already available for 1994 to 1998, and offers a snapshot of the impact of the previous years stubble type on present year crop yields. Looking at information on the MASC website, “Crop On Crop — How Common?”, it shows canola yielded only 88 per cent of the average in those years when planted on canola stubble. Compared to other crop choices, the canola-on-canola rotation had the poorest yield potential.

The data is older and may not be as relevant to present-day varieties with better hybrid yield potentials. To take a look of how crop yields are responding to stubble today, the table has been updated and expanded with the assistance of the

Manitoba Agriculture, Food and Rural Initiatives (MAFRI) crop specialists at the Crops Knowledge Centre.

The longer-term and more current database (from 1998 to 2007) tells the same story (Table 1). Canola planted on canola stubble results in an 83 per cent potential yield, a five per cent decline from the 1994 to 1998 data set. We could speculate that the further yield decrease may be due to increased disease pressure, such as blackleg, but do not know for sure, as yield-limiting factors are not a part of the information collected in the MASC harvest reports.

Compared to other crop choices, the canola-on-canola rotation had the poorest yield potential

In brief, Table 1 is a crop rotation chart, one planting season at a time. The table provides the potential yield of a crop on stubble combination, as compared to the average yield for the planted crops on all stubble types in Manitoba from 1994 to 2007. The table includes both the major and minor acreage crops currently being grown in Manitoba; forage crop information has not been presented. Personal common sense should also be used when reading the table. Many crops are presented, but some crops are better suited to specific areas and regardless of



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rotation will not perform in other areas. The table and all of the combinations are to provide interested producers with an additional tool to determine crop sequences and their yield risks.

The MASC database also provides information on the frequency that a specific crop on stubble rotation is practised (Table 2). This information on “how many farmers actually do this” can indicate what works by chance and what sequences enjoy good success. For example Hard Red Spring wheat (HRS) planting on navy bean stubble looks like a fantastic rotation option with the HRS yielding 124 per cent over average HRS yields, but only one per cent of farmers reported using that rotation sequence. With that low of frequency, you may not want to put all your HRS on navy bean land, but this may be an idea to try one or two fields

to find out if those results work on your farm.

Cases where there are a yield benefit (over 100 per cent of average) in combination with a high frequency of farmers using the crop on stubble sequence like flax on HRS stubble or HRS on canola stubble, are more likely to also be reflected on your farm.

In summary, if you are wondering how a crop will work on last year's stubble, this spreadsheet may be of value to you and could give you some confidence in trying out a new crop sequence combination or reinforce some of the trends you see on your own farm. This is a very limited view of what happens, but with 15 years of information from actual fields, it does provide some potential combinations that consistently do not work. Avoiding them could be a simple step towards improving your 2009 yields. ■

Table 1: Relative yield response (per cent of 1998-2007 average) of Manitoba crops sown on large (>120 acre) fields of various previous crops (stubble) in rotation. Yield responses in brackets are those relative yields calculated previously from the 1994-1998 database.

PREVIOUS CROP	CROP PLANTED											
	Winter Wheat	Spring Wheat	Barley	Oat	Canola	Flax	Field Pea	Soybean	Navy Bean	Potato	Sunflower	Corn
Winter Wheat	76	NSD	100	102	94	105	98	102	105	101	98	79
Spring Wheat	91	90 (90)	101 (101)	101 (99)	103 (100)	102 (102)	102 (101)	107	100	107	99	96
Barley	91	92 (98)	88 (88)	91 (90)	100 (101)	99 (102)	97 (101)	92	89	102	103	82
Oat	97	93 (99)	91 (97)	85 (87)	95 (103)	97 (101)	93 (93)	104	94	98	97	101
Canola	104	103 (106)	105 (105)	104 (108)	83 (88)	90 (92)	93 (89)	99	99	99	82	98
Flax	102	98 (103)	104 (107)	102 (107)	98 (104)	NSD	79 (82)	58	62	NSD	102	NSD
Pea	90	100 (108)	104 (107)	105 (100)	101 (113)	NSD	NSD	NSD	NSD	NSD	NSD	NSD
Soybean	NSD	109	98	89	84	NSD	NSD	72	NSD	NSD	46	93
Navy Bean	NSD	124	NSD	NSD	NSD	NSD	NSD	NSD	NSD	94	NSD	120
Potato	NSD	114	NSD	NSD	NSD	NSD	NSD	NSD	116	NSD	NSD	95
Sunflower	NSD	95	97	91	NSD	97	NSD	95	NSD	NSD	NSD	90
Corn	NSD	NSD	NSD	107	NSD	NSD	NSD	84	104	90	106	92

Table 2: Previous crop (stubble) distribution (%) of large acreage fields (>120 acres) sown to the major field crops in Manitoba during the period 1998-2007. Brackets are 1994-1998 frequencies.

PREVIOUS CROP	CROP PLANTED											
	Winter Wheat	Spring Wheat	Barley	Oat	Canola	Flax	Field Pea	Soybean	Navy Bean	Potato	Sunflower	Corn
Winter Wheat	1	NSD	4	3	4	5	8	6	4	5	11	3
Spring Wheat	2	11 (30)	23 (40)	21 (32)	53 (68)	54 (72)	59 (75)	25	44	39	38	12
Barley	3	2 (4)	10 (15)	6 (7)	12 (14)	11 (10)	10 (10)	4	14	4	6	4
Oat	4	3 (2)	6 (3)	4 (9)	9 (6)	9 (4)	5 (4)	17	7	8	17	4
Canola	51	58 (44)	35 (30)	35 (30)	3 (2)	5 (4)	4 (4)	10	16	9	2	11
Flax	1	7 (11)	5 (6)	5 (13)	2 (4)	NSD	1 (3)	2	2	NSD	2	NSD
Pea	2	4 (3)	2 (2)	1 (1)	NSD	NSD	NSD	NSD	NSD	NSD	NSD	NSD
Soybean	NSD	2	2	7	1	1	NSD	9	NSD	NSD	2	7
Navy Bean	NSD	1	NSD	NSD	NSD	NSD	NSD	NSD	NSD	4	NSD	5
Potato	NSD	1	NSD	NSD	NSD	NSD	NSD	NSD	4	NSD	NSD	9
Sunflower	NSD	4	4	4	NSD	1	NSD	4	NSD	NSD	NSD	3
Corn	NSD	NSD	NSD	1	NSD	NSD	NSD	4	7	7	4	13



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Hidden within the averages

by Andrew Nadler, Agricultural Meteorologist, MAFRI

Each year, we try to summarize Manitoba's most recent growing season in a few words or with a simple chart or a map. Some years, this works quite well, particularly when a growing season is characterized by one or two dominant tendencies such as drought, excess moisture, extreme heat, or lack of heat. Other years are memorable due to anomalies such as flooding, tornadoes, hail, or a growing season cut short due to a late spring frost or an early fall frost.

With the varied composition of Manitoba's agricultural region, nearly all of the aforementioned adversities tend to be experienced somewhere at least once every few years. Or, in the case of 2008, many of these events were occurring nearly simultaneously a mere few hundred kilometres apart. With the geographical and climatological diversity of Manitoba, there are always areas that do better while others do worse. Shortly after the peak of the water shortages were experienced in western Manitoba, overland flooding struck the Interlake region following torrential downpours, which in a few weeks, brought amounts of rain that would normally fall throughout the entire summer.

Averages don't tell all

Provincially, the average precipitation during the growing season was slightly above the long-term seasonal mean. Due to averaging within large and diverse areas, the extremes tend to get smoothed out. Just like the man who drowned crossing a stream with an average depth of six inches, it is not the average that is of concern, but rather the variability. Certainly many producers in the southwest or in the Interlake regions would not have considered 2008 to be anything close to average. Furthermore, an average yield only means that about 50 per cent of acres produced more than the mean while the other 50 per cent produced less.

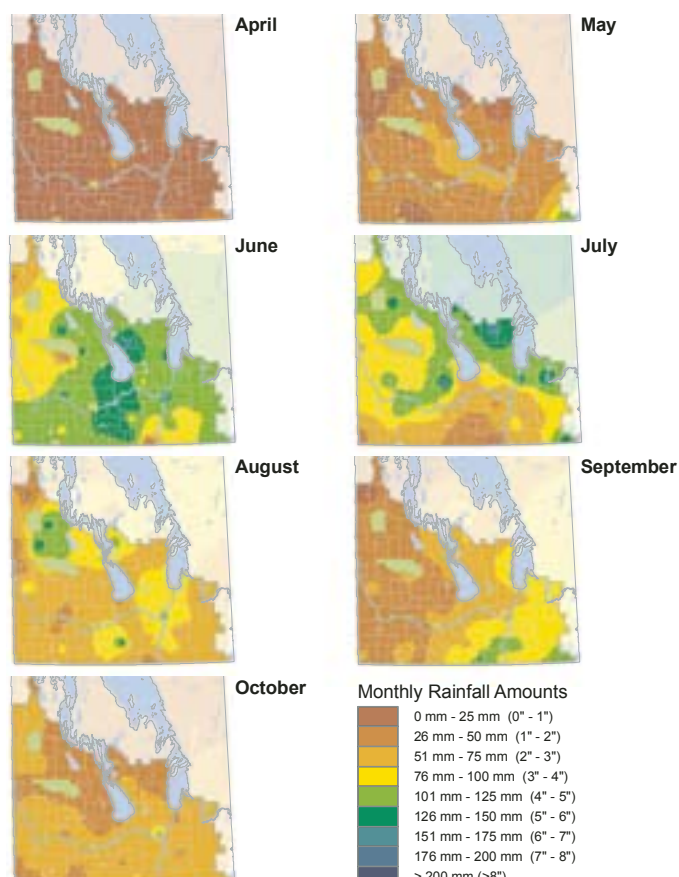
Similarly, seasonal sums accumulated over the length of the growing season can be misleading. "A man may have six meals one day and none the next, making an average of three meals per day, but that is not a good way to live" (quote by L.D. Brandeis).

Timing is everything

Again, in the case of the southwest, rainfall received at Melita for the entire growing season was nearly 50 mm greater than the 30-year average rainfall; this in an area

Rainfall — April through October, 2008

In 2008, April showers did not arrive, nor did very much rain occur during most of May either. In many areas, particularly western Manitoba, all of April and the first three weeks of May yielded less than 25mm (1") of rain. June and July were the wettest months resulting in major flooding in the Interlake region and some reprieve from the dry conditions in the southwest. With the exception of those regions that experienced either too little or too much water, overall provincial moisture conditions were relatively favourable. The province-wide average rainfall for the growing season was about 36mm (1.4") above normal.



Being situated at the northern fringe of agricultural production, growing crops on the Prairies is always vulnerable to receiving inadequate heat.

that was experiencing a drought early in the season. An important adage to remember in agriculture is that timing is everything.

Crops require a continuous supply of moisture from the soil which must be replenished by the rains. If there are no rains, the soil becomes depleted and the crop suffers. The timing and severity of stress will determine the extent of loss. Perhaps the most vulnerable period is during the spring when annual crops must germinate and emerge and when much of the yield potential for forage crops gets determined. A shortage of moisture at any stage can be detrimental; this period is particularly damaging. Following a dry fall in 2007 and little snow during the winter of 2007/2008, Melita received less than 10 mm of rainfall between April 1 and the third week in May. The timing of the rain was not ideal.

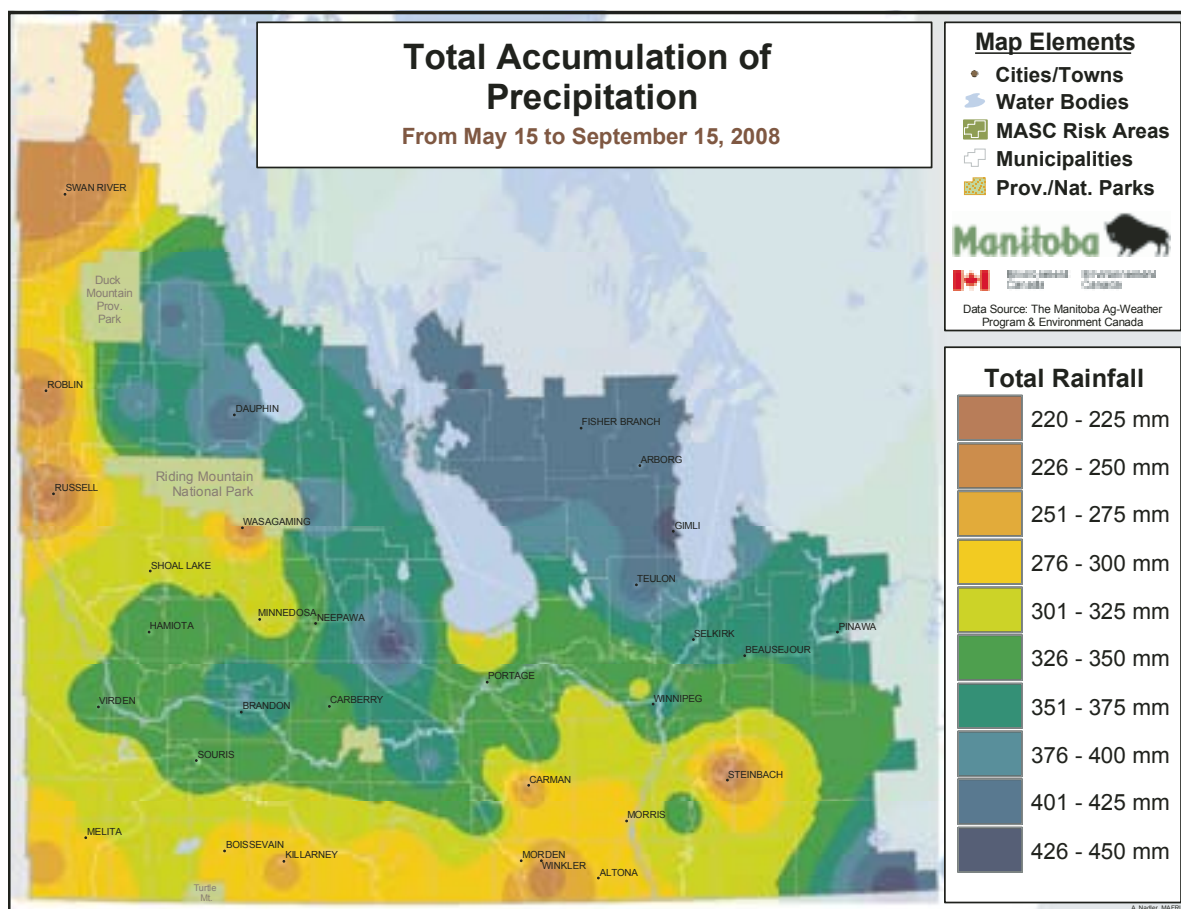
While moisture is one of the most important factors for crop production, and certainly the most variable, the another key factor is temperature. Being situated at

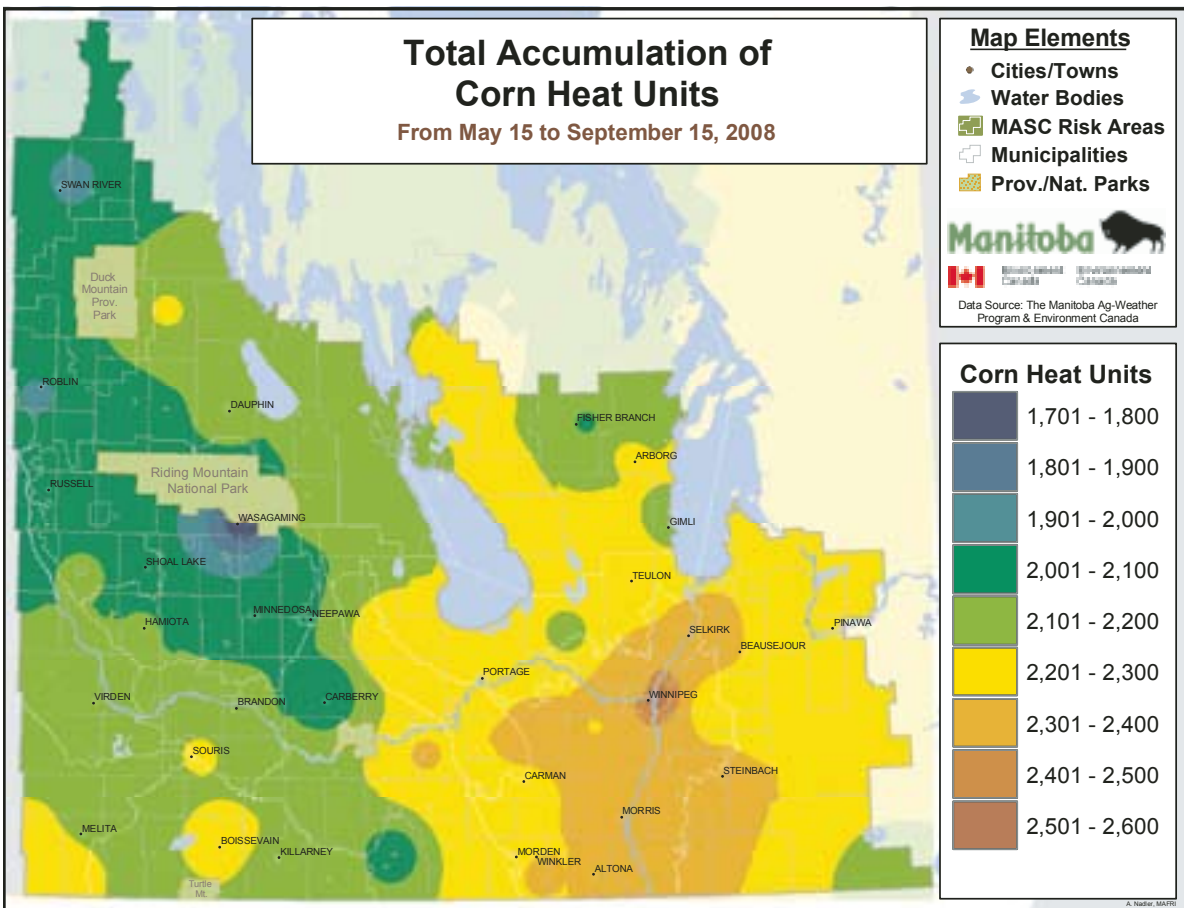
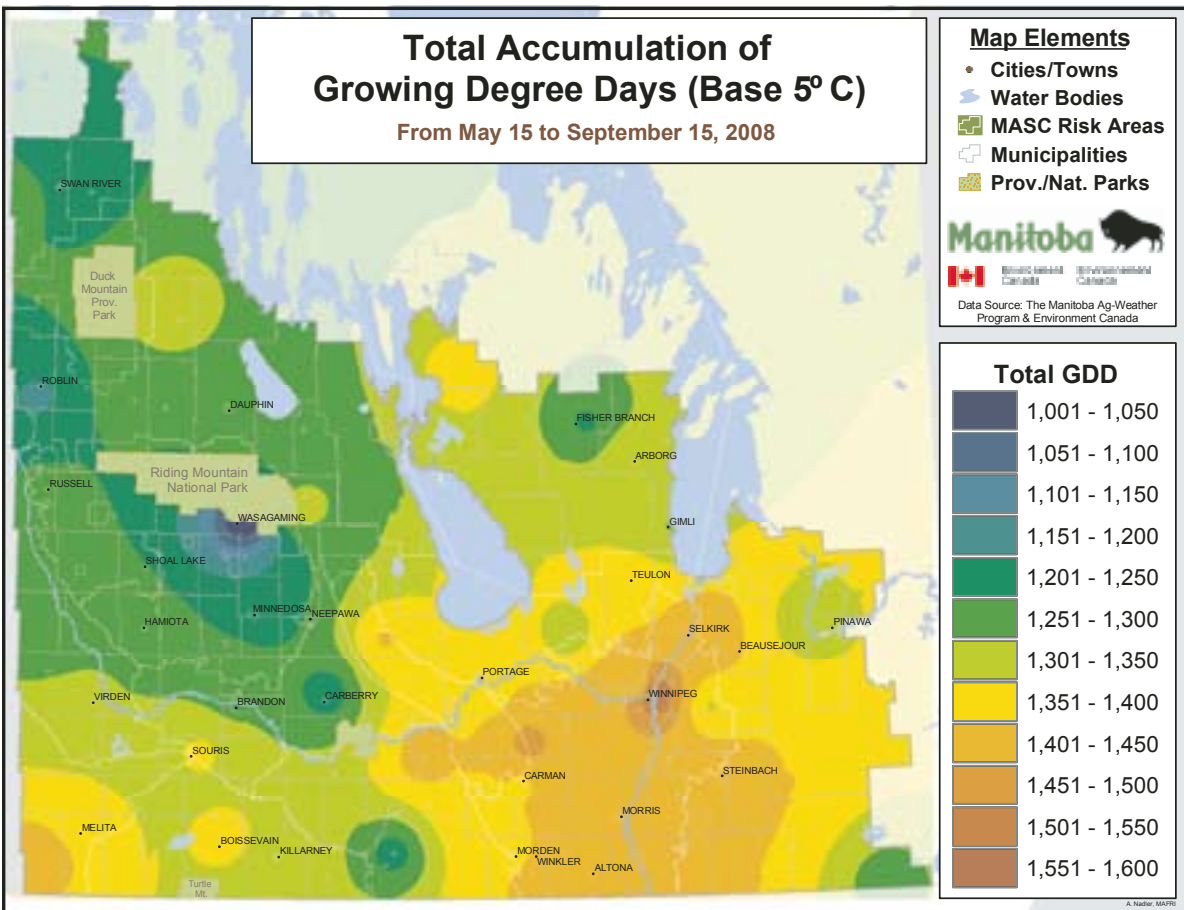
the northern fringe of agricultural production, growing crops on the Prairies is always vulnerable to receiving inadequate heat.

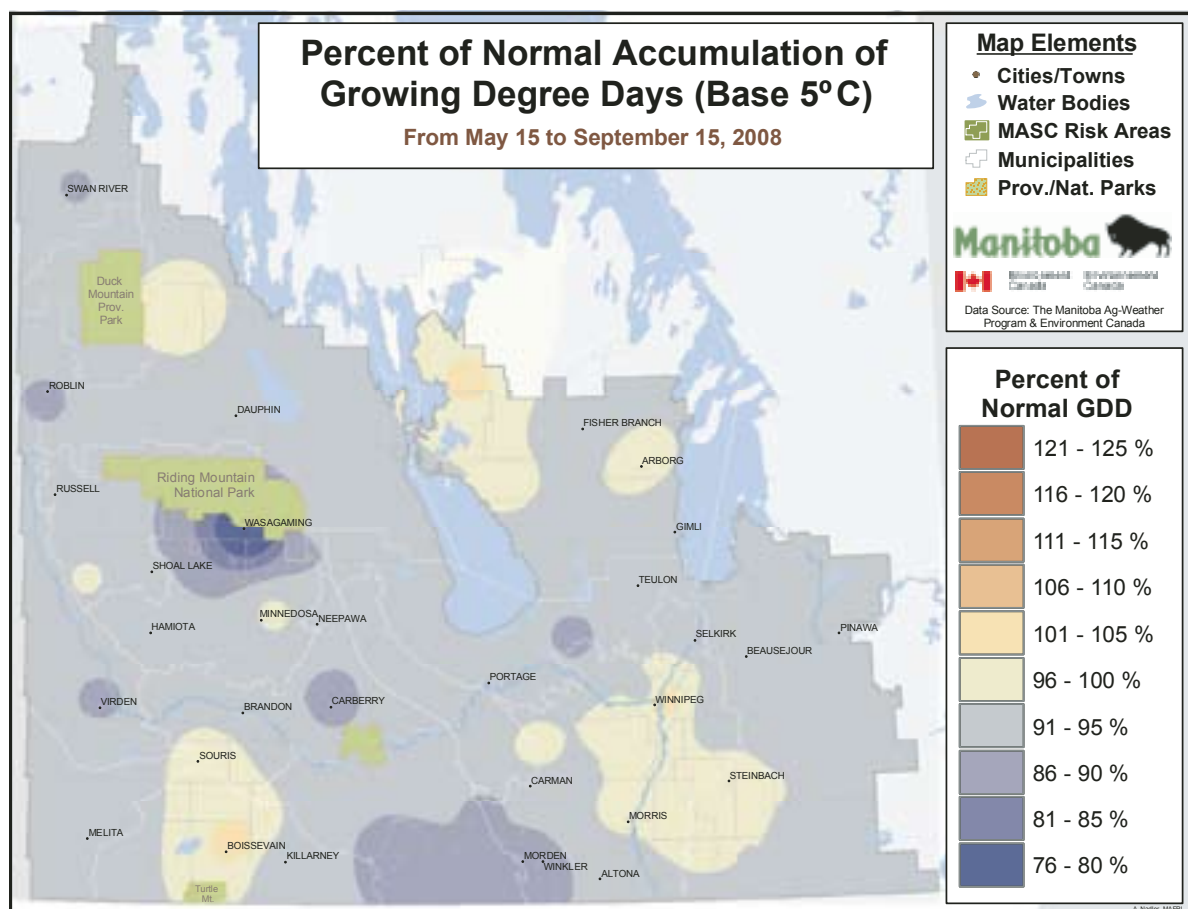
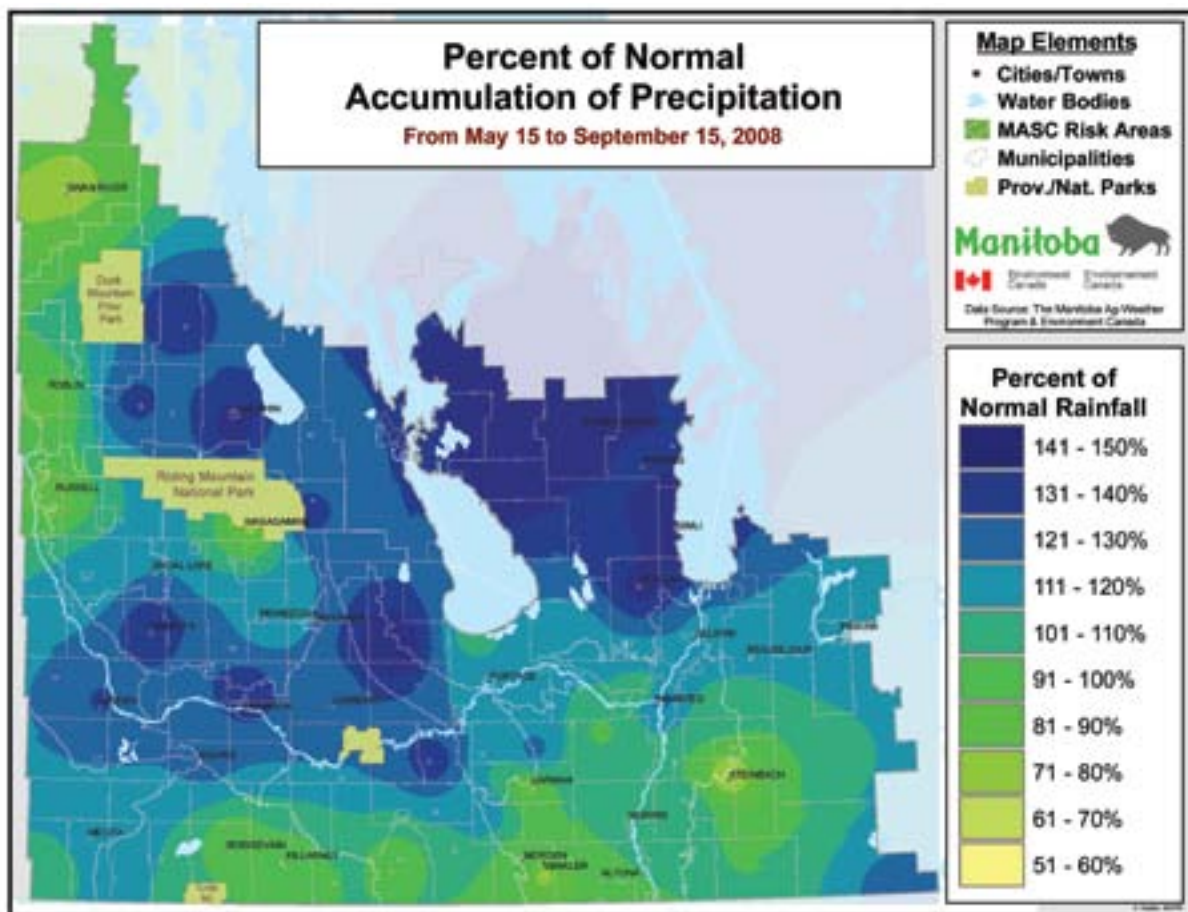
Less heat

While not as severe as some other cold years (such as 2004), 2008 did not receive as much heat as normal, ending up with between 90 per cent and 95 per cent of long-term average growing degree days during growing season. For much of southern Manitoba, this equated to a shortfall of approximately 75 to 125 growing degree days. For corn heat units, this was a shortfall of approximately 75 to 150.

While averages tell us some things about the climate, they certainly do not tell us enough. It is not the average conditions that cause the major losses, but the events that fall outside of the normal range. It is for this reason that producers must plan for the variability that inevitably occurs, enabling them to be less vulnerable and more resilient. ■







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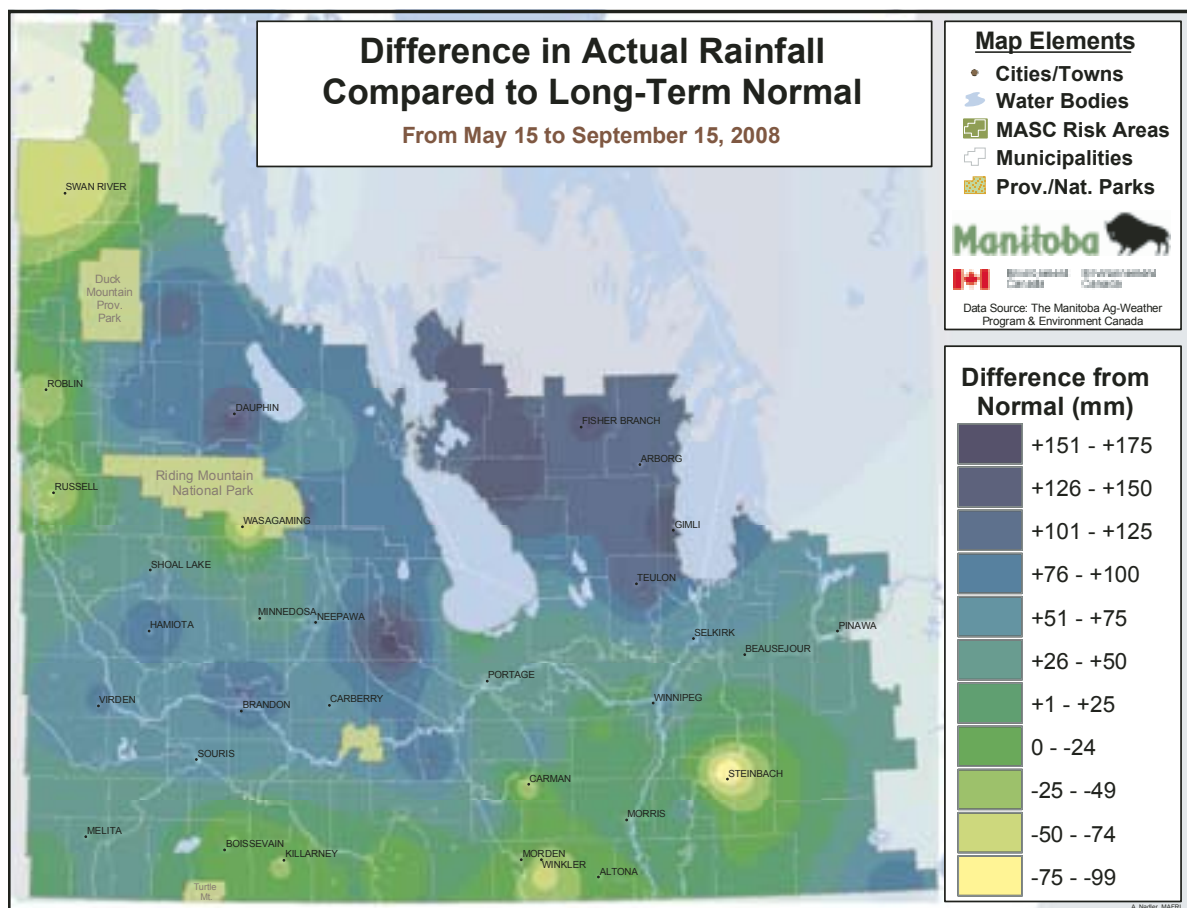
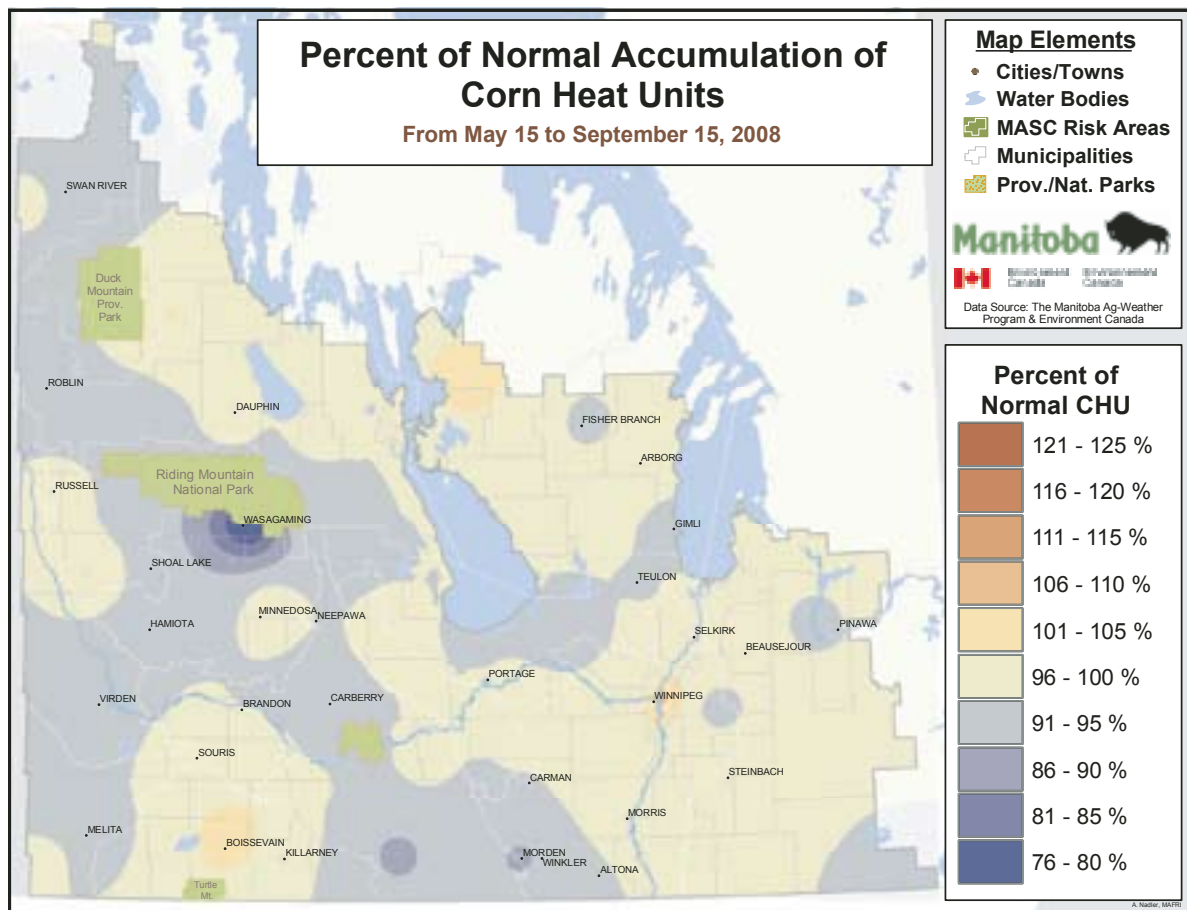
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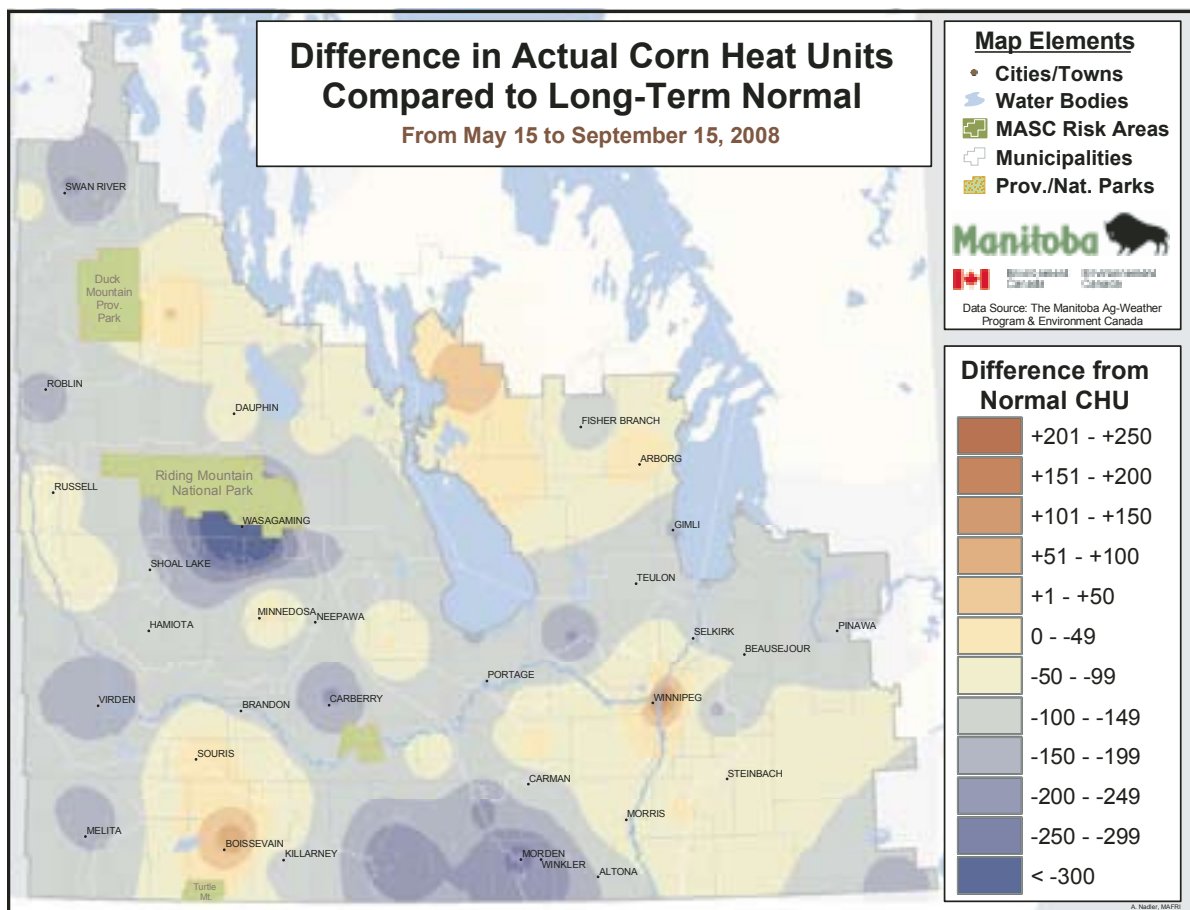
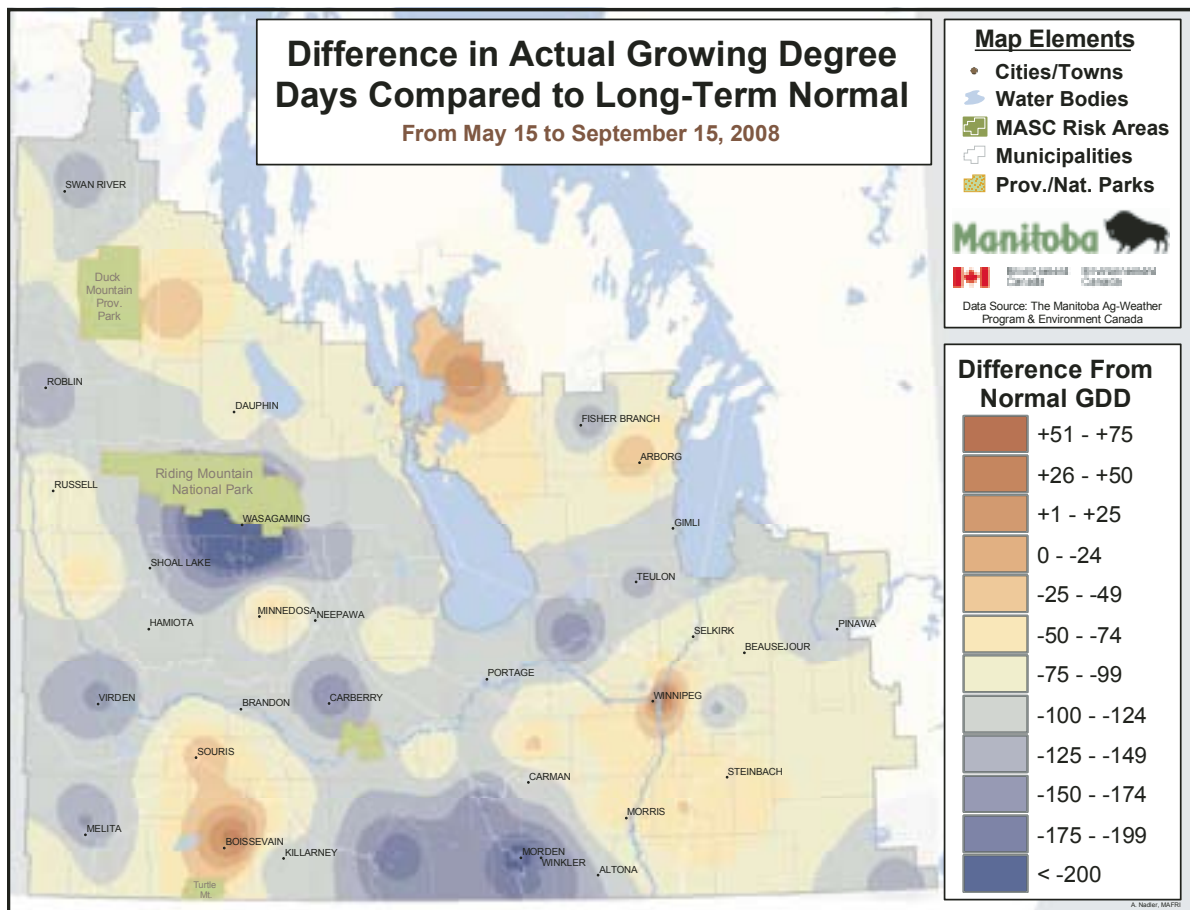
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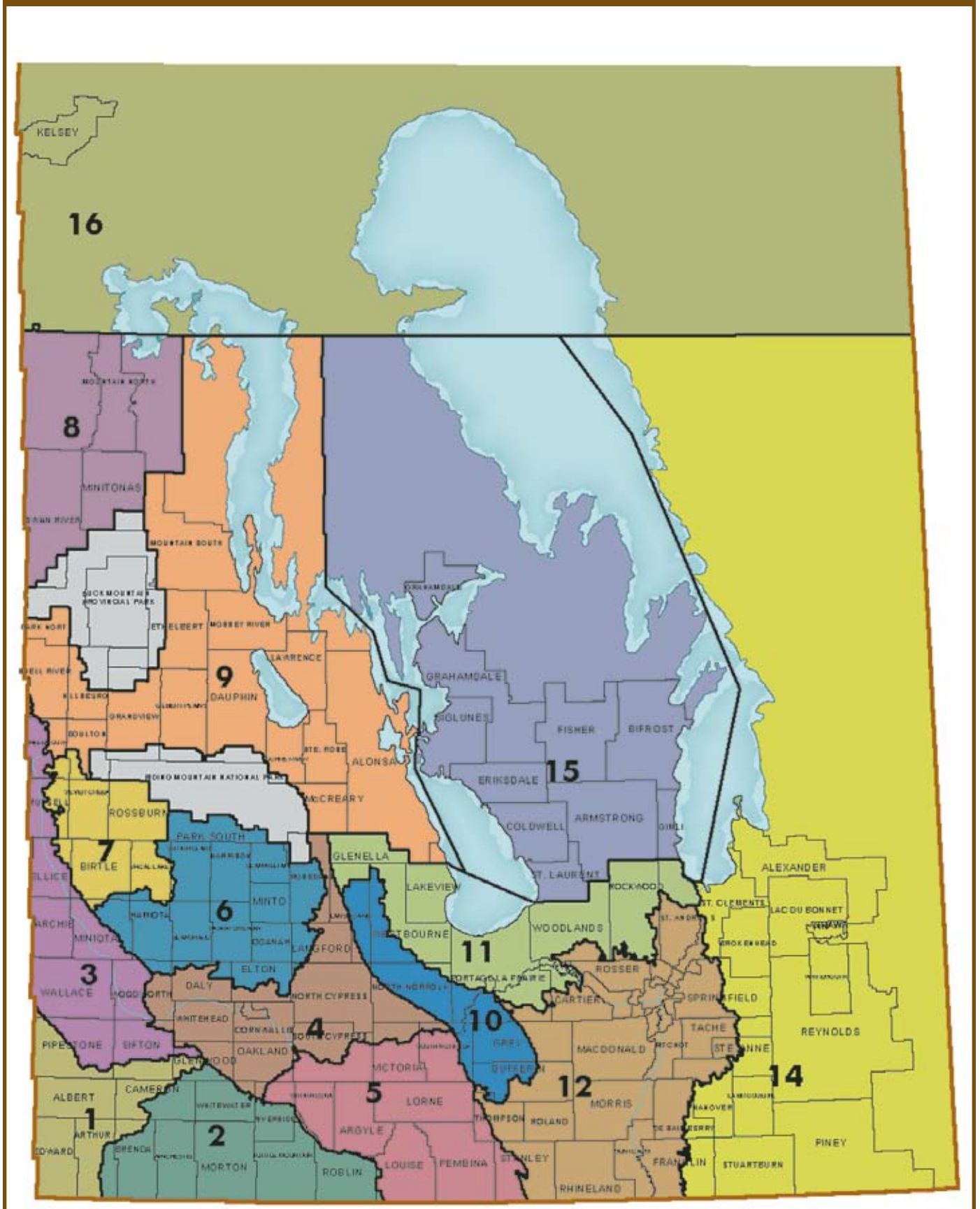
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CANOLA YIELDS BY VARIETY 2004–2008†								MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres		
5020 (LT)	38	28	38	27	426,089	41	442,494		
5030 (LT)	38	29	38	31	536,509	44	342,069		
5070 (LT)	38	27	38	31	361,522	43	248,648		
71-45RR (RT)	—	—	32	29	138,914	39	245,407		
5440 (LT)	—	—	—	—	—	45	222,283		
NEX 845CL (ST)	—	—	—	29	28,313	36	190,861		
8440 (LT)	—	—	—	—	—	44	176,900		
9590 (LT)	—	—	—	31	93,257	41	144,869		
45H26 (RT)	—	—	—	31	12,461	41	112,300		
1841 (RT)	34	19	35	30	63,797	37	80,204		
VICTORY V1035 (RT)	—	—	—	29	4,358	38	76,683		
1143 (LT)	—	—	—	—	—	40	56,081		
46P50 (RT)	—	—	—	31	43,383	38	50,498		
34-65 (RT)	—	20	35	27	74,921	34	46,922		
45H21 (RT)	34	22	34	28	78,156	35	32,426		
VICTORY V2018 (RT)	—	—	—	—	—	38	32,174		
1141 (LT)	—	—	—	—	—	37	26,440		
4414 (RT)	—	—	—	25	10,738	35	23,980		
NEX 830 CL (ST)	38	15	32	27	76,842	36	21,440		
45H73 (ST)	—	—	—	31	6,920	39	18,661		
1818 (RT)	—	28	32	27	20,515	35	18,233		
45H24 (RT)	48	31	37	29	26,263	36	16,033		
NEX 828CL (ST)	22	31	33	25	41,771	36	15,284		
VICTORY V1030 (RT)	—	20	32	25	64,997	36	15,284		
45P70 (ST)	—	—	—	26	22,429	34	11,939		
46A76 (ST)	25	23	30	23	19,851	32	10,946		
9550 (RT)	27	23	28	23	21,803	32	9,349		
997RR (RT)	—	—	—	31	1,132	29	8,057		
SP BANNER (RT)	28	27	30	25	10,424	30	7,674		
PROVEN 9551 (RT)	—	—	—	26	7,997	31	7,596		
1651H (ST)	—	—	—	—	—	38	7,553		
34-55 (RT)	30	22	30	28	17,313	34	7,387		
VICTORY V2010 (RT)	—	—	—	—	—	40	7,119		
SP FAVORABLE RR (RT)	—	—	—	—	—	34	6,932		
45H25 (RT)	—	—	35	27	56,137	38	5,998		
SP DESIRABLE RR (RT)	—	21	32	29	3,635	36	5,917		
45H72 (ST)	—	30	37	27	19,242	38	5,894		
NEX 840CL (ST)	—	—	—	26	2,087	33	5,420		
SW 3950 (RT)	—	—	32	25	12,604	31	4,581		
PRAIRIE 719RR (RT)	—	22	28	27	1,698	23	4,316		
45H28 (RT)	—	—	—	—	—	42	4,123		
84S00LL (LT)	—	—	—	24	13,089	30	3,933		
811RR (RT)	27	14	28	24	7,700	27	3,871		
71-30CL (ST)	—	—	—	—	—	37	3,711		
RUGBY (RT)	—	—	—	—	—	28	3,310		
1852H (RT)	—	—	—	25	1,775	40	3,242		
VICTORY V1037 (RT)	—	—	—	—	—	39	3,123		
4362 (RT)	—	—	—	24	4,710	32	2,958		
5108 (LT)	—	26	37	22	113,114	29	2,876		
INVIGOR 2573 (LT)	36	30	33	26	43,762	29	2,774		
71-85RR (RT)	—	20	34	25	48,504	34	2,752		
SP 621 RR (RT)	—	—	—	29	8,457	34	2,733		
1768S (RT)	—	—	—	—	—	32	2,511		
84S01LL (LT)	—	—	—	—	—	32	2,510		
45A71 (ST)	9	18	23	15	1,625	37	2,422		
93H01RR (RT)	—	—	—	—	—	35	2,371		
71-20CL (ST)	—	20	32	26	15,480	30	2,358		
72-55RR (RT)	—	—	—	—	—	44	2,283		
LBD644RR (RT)	29	13	30	25	6,109	28	2,211		
D1035 (ST)	—	—	—	—	—	42	2,136		
46A65	26	18	24	22	2,690	39	2,103		
VICTORY V1036 (RT)	—	—	—	—	—	34	2,053		
RED RIVER 1826 (RT)	—	—	30	—	—	38	1,867		
LBD 612RR (RT)	31	14	28	20	8,457	31	1,725		
289CL (ST)	26	22	26	21	6,266	29	1,586		
SW WIZZARD	—	22	16	30	1,037	37	1,547		
SW GLADIATORR (RT)	33	24	31	22	5,686	28	1,475		
1140 (LT)	—	—	—	—	—	42	1,389		
74P00LL (LT)	—	—	—	26	3,311	28	1,215		
SW 6802 (RT)	35	25	32	25	7,499	38	1,186		
9553 (RT)	—	—	—	—	—	28	1,163		
SP 451RR (RT)	—	19	27	26	14,546	35	1,153		
1855H (RT)	—	—	—	—	—	35	1,136		
Q 2	24	—	—	18	903	25	1,080		
PIONEER 45H26 (RT)	—	—	—	—	—	43	1,049		

† 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.

CANOLA YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
INVIGOR 2663 (LT)	35	25	35	27	18,813	29	981	
REAPER (RT)	—	—	30	28	1,052	33	919	
292CL (ST)	31	23	30	23	5,108	28	862	
46A45	—	—	—	—	—	42	732	
1849RR (RT)	27	21	33	32	674	30	718	
DN051505	—	—	—	—	—	42	670	
DN051692	—	—	—	—	—	48	629	
1759 S (RT)	—	—	—	—	—	37	612	
43H57	—	—	—	—	—	31	609	
VICTORY V1031 (RT)	—	22	37	27	5,269	32	595	
DN051607	—	—	—	—	—	50	582	
NEX G2X0039 (RT)	—	—	—	—	—	42	532	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							40.1	2,878,521

WHEAT YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
AC BARRIE (RS)	47	28	42	38	684,255	50	529,156	
CDC FALCON (W)	68	35	69	69	331,201	75	405,809	
AC DOMAIN (RS)	47	37	46	39	363,895	51	361,029	
SUPERB (RS)	48	36	47	42	228,119	51	248,043	
5602HR (RS)	—	39	49	45	131,152	47	239,564	
HARVEST (RS)	58	58	54	46	142,976	57	224,645	
MCKENZIE (RS)	47	33	39	39	78,472	43	110,121	
CDC GO (RS)	—	—	—	57	7,365	57	86,273	
SNOWBIRD (HWS)	52	29	45	41	86,986	51	57,565	
CDC BUTEO (W)	—	35	56	55	39,344	60	57,378	
AC INTREPID (RS)	45	45	48	38	40,379	51	45,129	
INFINITY (RS)	—	—	57	43	10,941	52	41,614	
5601HR (RS)	48	27	44	41	49,338	44	38,925	
CDC TEAL (RS)	40	44	44	38	42,069	50	38,611	
CDC IMAGINE (RS)	57	36	43	35	25,767	46	35,158	
MCCLINTOCK (W)	65	30	56	55	27,595	60	32,016	
AC CADILLAC (RS)	40	30	35	35	23,023	39	29,277	
KANE (RS)	—	—	—	47	997	61	24,527	
SOMERSET (RS)	—	—	40	40	6,074	50	17,900	
AC SPLENDOR (RS)	45	50	48	41	13,549	55	16,491	
CDC BOUNTY (RS)	42	36	37	34	24,374	41	15,638	
AC CORA (RS)	42	28	37	33	14,195	42	15,603	
AC ANDREW (F)	—	—	62	49	6,535	61	14,633	
5400IP (RS)	—	41	49	40	10,327	50	14,449	
LOVITT (RS)	57	43	40	36	10,949	42	12,597	
5701PR (PS)	—	48	54	48	8,233	56	12,479	
ALSEN (F)	48	25	51	49	19,185	57	9,885	
CDC RAPTOR (W)	58	30	52	53	16,944	56	9,183	
AC VISTA (PS)	61	51	48	44	5,895	62	8,588	
5700PR (PS)	45	37	45	49	10,114	60	7,892	
KYLE (D)	43	39	—	—	—	33	6,878	
CDC HARRIER (W)	61	30	54	54	10,603	66	6,517	
AC TABER (PS)	56	48	46	47	3,487	51	6,070	
BURNSIDE (ES)	—	19	—	37	3,755	56	5,424	
AC ELSA (RS)	47	40	44	39	6,575	47	4,601	
CDC ALSASK (RS)	—	—	—	—	—	55	3,482	
GLENN (F)	—	—	—	41	1,037	47	3,412	
HY 644 (F)	—	—	—	64	2,807	51	3,112	
BRIGGS (F)	—	—	61	55	6,776	54	3,052	
PRODIGY (RS)	32	33	36	29	4,178	44	3,038	
CDC CLAIR (W)	62	26	60	61	7,270	58	2,903	
AC MAJESTIC (RS)	41	27	37	30	7,340	42	2,634	
JOURNEY (RS)	—	29	43	40	2,976	51	2,166	
SNOWSTAR (HWS)	—	—	—	—	—	60	2,049	
CDC KESTREL (W)	56	22	58	62	3,373	68	1,924	
STRONGFIELD (D)	—	—	—	—	—	35	1,780	
LILLIAN (RS)	—	—	—	41	1,246	49	1,568	
ROBLIN (RS)	38	27	37	33	975	38	1,523	
5600HR (RS)	49	40	38	30	1,280	37	1,278	
FREYER (F)	—	—	—	49	565	45	1,206	
RUSS (F)	44	36	50	41	2,262	37	1,195	
KATEPWA (RS)	33	35	39	24	1,464	40	860	
5500HR (RS)	49	28	38	27	1,713	34	847	
IVAN (F)	33	20	52	27	1,748	53	789	
PLENTY (D)	—	—	—	—	—	23	679	
AC CRYSTAL (PS)	40	36	—	33	611	67	577	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							54.3	2,844,740

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



OAT YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
FURLONG	122	53	85	95	222,110	109	178,057	
RONALD	105	40	84	94	269,934	110	142,225	
PINNACLE	102	68	78	91	158,252	88	128,482	
LEGGETT	—	—	85	100	47,249	102	101,710	
AC ASSINIBOIA	92	39	74	80	95,884	91	47,935	
TRIPLE CROWN	97	69	83	76	53,421	97	25,996	
JORDAN	—	—	—	108	2,459	124	22,928	
CDC DANCER	123	85	104	103	20,820	116	21,967	
HIFI	—	149	98	99	7,006	110	13,577	
RIEL	86	35	74	85	8,216	107	5,311	
ROBERT	70	47	54	83	7,055	85	5,060	
DUMONT	57	40	44	53	3,814	66	3,295	
AC PRAKNESS	63	42	42	55	2,296	59	3,018	
JERRY	92	38	74	79	2,924	95	2,756	
DERBY	68	58	60	50	2,488	84	1,581	
SOURIS	—	—	—	—	—	139	1,416	
CDC WEAVER	—	—	—	—	—	127	1,201	
KAUFMANN	103	53	76	79	3,214	93	1,030	
SW BETANIA	—	—	—	68	906	74	923	
CDC BOYER	69	53	56	50	1,814	61	816	
AC MUSTANG	—	—	—	—	—	74	783	
CDC BALER	—	—	—	—	—	85	757	
AC GWEN (HULLESS)	—	—	87	51	1,195	74	744	
AC MORGAN	—	—	—	107	958	117	621	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						102.0	724,064	

BARLEY YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CONLON	74	37	71	65	251,420	75	171,534	
AC METCALFE	66	42	61	50	109,970	66	82,369	
NEWDALE	77	37	69	62	73,787	72	73,800	
LEGACY	77	49	69	64	77,300	77	71,111	
TRADITION	—	49	73	66	52,632	76	70,836	

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BARLEY YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
ROBUST	66	36	58	51	58,259	60	29,981	
CDC COPELAND	71	43	66	59	23,618	70	29,627	
LACEY	72	42	68	59	30,717	72	29,079	
CDC TREY	—	51	78	62	27,969	68	23,898	
AC RANGER	70	42	65	59	43,404	62	17,235	
EXCEL	68	46	64	47	17,517	65	7,840	
CDC YORKTON	—	61	62	59	8,109	69	6,184	
XENA	66	43	75	53	12,009	70	5,696	
CDC STRATUS	70	37	63	48	9,896	66	5,117	
CDC COWBOY	—	—	—	—	—	55	3,524	
CDC HELGASON	66	56	68	57	6,391	74	3,120	
CDC BATTLEFORD	—	—	59	67	2,756	55	2,754	
AC ROSSER	70	40	66	60	6,707	49	1,771	
BRONCO	53	46	58	47	1,680	55	1,662	
BEDFORD	66	28	58	49	3,218	61	1,535	
VIVAR	77	32	74	48	3,819	56	1,509	
STANDER	65	34	65	38	2,584	44	1,310	
AC LACOMBE	65	44	58	39	2,308	51	1,287	
CDC MCGWIRE	59	23	62	50	2,588	76	1,042	
CDC KENDALL	71	47	53	53	1,172	68	811	
STANDARD	58	20	58	45	1,071	35	695	
SUNDRE	—	—	—	—	—	63	670	
CDC DOLLY	53	31	65	32	1,085	48	660	
SOMMERVILLE	—	—	51	51	2,225	52	629	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						71.2	655,225	

SOYBEAN YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
NSC PORTAGE RR (RT)	—	—	—	39	5,597	36	55,033	
90M01 (RT)	—	—	30	40	36,209	32	47,242	
90A06 (RT)	—	—	—	36	7,747	34	32,742	
LS 0036RR (RT)	—	—	30	39	7,475	34	21,709	
25-02R (RT)	11	27	29	40	23,152	35	17,911	
OAC PRUDENCE	7	20	24	34	17,117	32	13,869	
RR ROSCO (RT)	—	21	31	29	13,965	33	13,146	
DK 24-51 (RT)	—	—	25	39	7,053	36	8,064	
MONTCALM (RT)	—	—	30	35	3,197	27	8,031	
NSC 2007 (RT)	—	20	28	36	13,459	34	7,899	
NSC WARREN RR (RT)	—	—	—	—	—	31	7,489	
THUNDER 27005RR (RT)	—	—	—	—	—	34	7,456	
GENTLEMAN	10	22	27	34	7,213	32	5,559	
NSC 2011RR (RT)	—	—	—	40	4,174	35	5,546	
RR REGIS (RT)	—	—	28	37	12,576	34	5,459	
LS 0065RR (RT)	—	—	32	39	2,463	33	5,383	
LS 0045RR (RT)	—	—	30	32	7,777	30	5,292	
90A07	6	16	31	36	10,203	35	4,557	
APOLLO RR (RT)	—	22	27	32	3,036	31	3,366	
90M02 (RT)	—	—	—	40	925	34	2,230	
26006RR (RT)	—	—	—	42	2,560	34	2,222	
THUNDER 26005RR (RT)	—	—	27	34	2,133	32	2,129	
90B11 (RT)	6	21	29	42	2,034	24	2,057	
ACCORD	7	28	34	22	2,414	34	1,912	
OLEXRR (RT)	—	—	—	37	601	33	1,719	
DRAKORR (RT)	—	—	21	—	—	29	1,622	
90A01	—	22	25	31	4,295	27	1,475	
RR RUSSELL (RT)	—	—	—	—	—	33	1,305	
OAC ERIN	10	—	37	39	1,096	39	1,124	
DK 25-04R (RT)	—	—	—	—	—	35	784	
0064 RR (RT)	—	—	—	—	—	27	761	
THUNDER 26006RR (RT)	—	—	36	—	—	36	601	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						33.4	303,709	

FLAX YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC BETHUNE	19	15	21	22	96,186	26	137,203	
HANLEY	22	13	20	23	24,007	24	34,131	
CDC SORREL	—	—	—	25	2,515	26	21,361	
TAURUS	15	19	21	20	14,958	24	16,337	
LIGHTNING	23	16	22	21	8,752	26	13,007	
PRAIRIE BLUE	—	14	20	21	4,822	23	7,569	
OMEGA	15	8	22	20	2,033	29	4,845	
AC EMERSON	21	13	20	22	4,004	22	4,265	
NORLIN	18	16	17	17	2,187	15	2,832	
AC WATSON	20	15	20	15	1,735	26	1,703	
AC CARNDUFF	18	19	25	21	2,828	25	1,476	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.

FLAX YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
FLANDERS	15	19	20	18	822	23	1,462	
AC MCDUFF	19	18	21	23	1,932	21	846	
SOMME	9	15	20	13	880	16	787	
MACBETH	—	—	—	—	—	18	529	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							25.0	252,980

CORN YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PIONEER 39D97 (BT,LT,RT)	—	—	—	128	9,199	131	31,413	
DEKALB DKC26-79 (RT)	1	80	113	113	20,917	113	26,485	
PIONEER 39B94 (BT,LT,RT)	—	—	—	—	—	128	24,221	
PIONEER 39D95 (RT)	—	—	—	117	1,132	119	13,155	
PIONEER 39B96 (BT,LT)	—	—	—	125	6,555	127	13,014	
PIONEER 39B90 (RT)	—	—	—	—	—	119	9,584	
PIONEER 39M27 (BT)	1	67	116	124	55,857	117	9,434	
DEKALB DKC26-78 (RT)	2	63	102	114	7,536	114	6,868	
PIONEER 39B93	—	—	100	128	5,668	116	5,074	
HYLAND HL R208 (RT)	—	—	—	115	3,671	103	3,653	
PIONEER 39M26 (RT)	—	—	58	106	8,417	96	3,251	
PIONEER 39F60 (BT,RT)	—	—	—	121	3,259	124	1,876	
PIONEER 39H83 (RT)	0	75	125	131	2,146	114	1,817	
PIONEER 39B63 (BT,LT)	—	—	—	115	827	123	1,488	
DEKALB DKC27-32 (RT)	—	—	—	—	—	92	1,021	
FRASER CPL 229 (RT,BT)	—	—	—	—	—	122	996	
ELITE 20T18 (RT)	—	—	—	—	—	138	990	
HYLAND HL 2093	0	76	113	118	2,379	116	938	
PIONEER 39F57 (RT)	—	—	—	118	563	113	891	
DEKALB DKC27-45 (RT)	—	—	—	—	—	127	874	
PIONEER 39H86 (RT,LT,BT)	—	—	—	118	869	114	816	
HYLAND BAXXOS RR (RT)	—	—	—	58	753	105	689	
LEGAND LS5875	—	—	—	—	—	136	612	
PIONEER 39B64 (RT)	—	—	—	—	—	125	598	
PIONEER 39Z69 (RT)	—	—	—	—	—	93	535	
DEKALB DKC27-44 (RT)	—	—	—	—	—	112	503	
PRAIRIE PACIFIC PP 2075	—	—	—	—	—	87	502	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							120.0	168,616

SUNFLOWER YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SEEDS2000 6946 (C)	489	888	2,039	1,574	74,727	1,645	65,792	
PIONEER 63M80 (O)	467	959	2,394	1,731	7,543	1,702	15,790	
SEEDS2000 JAGUAR (C) (ST)	—	—	—	1,508	625	1,651	13,482	
SEEDS2000 DEFENDER PLUS (O)	—	—	1,991	1,422	7,117	1,433	8,975	
MYCOGEN SF270 (O)	357	1,045	1,605	1,504	14,717	1,402	6,599	
DAHLGREN D-9532 (C)	470	811	1,706	1,660	6,302	1,252	6,147	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PIONEER 63M40 (O)	—	—	—	—	—	1,896	3,785	
MYCOGEN 8N358CL (O) (ST)	—	—	—	—	—	1,607	3,608	
DAHLGREN D-9530 (C)	459	774	1,885	1,931	1,923	1,325	3,343	
INTERSTATE IS 8048 (C)	370	747	1,808	1,418	7,621	1,184	3,205	
MYCOGEN 8N270 (O)	—	—	—	1,711	1,451	1,548	3,146	
CROPLAN GENETICS IS 8135 (C)	—	—	—	1,612	655	1,213	3,105	
CHS RH 1121 (C)	—	—	—	—	—	1,920	3,009	
DKF 34-33 (O)	—	—	—	—	—	1,695	2,907	
DAHLGREN D4370 (O)	—	—	—	—	—	1,140	2,478	
INTERSTATE IS6131 NS/DM (O)	—	—	—	—	—	1,711	2,140	
CHS RH 3126 (C)	—	—	—	—	—	963	2,056	
PIONEER 63A21 (O)	613	—	765	—	—	1,142	1,614	
PIONEER 63A70 (O)	258	1,149	1,967	1,728	3,292	1,854	1,504	
SEEDS2000 VIPER (O) (ST)	—	—	—	—	—	1,221	1,481	
MYCOGEN 8N337DM (O)	—	—	—	—	—	1,676	1,317	
INTEGRA INT 536 (O)	—	—	—	1,508	864	1,792	1,006	
SEEDS2000 COUGAR (C)	412	935	1,651	1,343	1,989	1,144	864	
MYCOGEN 8N386CL (O) (ST)	—	—	—	—	—	1,241	696	
SEEDS2000 PANTHER (C)	—	—	—	1,770	636	1,135	600	
ADVANTA 6039 (O)	505	1,113	—	—	—	928	531	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							1,569	164,082

DRY BEAN YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
ENVOY (WHITE PEA)	401	756	1,739	1,464	43,934	1,468	36,615	
MAVERICK (PINTO)	450	694	1,834	1,806	38,597	2,030	14,743	
WINDBREAKER (PINTO)	—	—	—	1,964	3,726	2,172	14,150	
T9903 (WHITE PEA)	—	—	1,922	1,775	5,965	1,618	11,783	
PINK PANTHER (KIDNEY)	—	324	1,823	1,391	7,622	1,515	9,065	
ECLIPSE (BLACK)	—	—	—	2,070	2,997	1,911	7,018	
AC PINTOBA (PINTO)	595	653	1,733	1,870	12,916	1,971	6,665	
CARGO (WHITE PEA)	141	421	1,722	1,431	4,907	1,534	3,710	
AC OLE (PINTO)	866	882	1,905	1,645	5,879	2,255	3,579	
CIRRUS (WHITE PEA)	293	902	2,024	1,484	5,045	1,440	2,882	
FOX FIRE (KIDNEY)	1,239	507	1,781	1,323	3,512	1,164	2,743	
T39 (BLACK)	—	675	1,669	1,583	6,570	1,559	2,551	
CDC JET (BLACK)	—	—	1,673	1,684	1,456	1,490	2,436	
ROG 331 (WHITE PEA)	520	311	1,724	1,689	1,756	1,761	2,152	
AC CRUISER (WHITE PEA)	384	670	1,812	1,561	3,860	1,550	2,124	
ETNA (CRANBERRY)	939	445	1,415	955	3,269	1,510	2,030	
BUSTER (PINTO)	454	584	—	2,163	552	2,205	1,809	
AC EARLIER (SMALL RED)	386	84	2,024	1,442	2,493	1,393	1,740	
FLOYD	—	1,054	1,872	1,455	3,076	1,982	1,708	
ROG 802 (KIDNEY)	606	218	1,795	1,415	1,237	1,444	1,631	
BERYL	—	—	1,887	1,499	1,654	2,108	1,158	
UI 911 (BLACK)	—	904	1,404	—	—	1,836	924	
AC HARBLACK (BLACK)	306	340	1,709	1,684	535	1,477	848	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



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DRY BEAN YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
BLACK VIOLET (BLACK)	—	—	—	—	—	1,984	789	
CRAN 09 (CRANBERRY)	1,186	948	1,667	—	—	1,750	630	
ROGER 331 (WHITE PEA)	—	—	—	—	—	2,061	616	
ROG 312	913	622	1,797	1,761	578	1,982	573	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1,717	142,812	

FIELD PEA YIELDS BY VARIETY 2004–2008†							MANITOBA	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC GOLDEN	—	—	48	45	28,971	40	42,000	
CDC STRIKER	—	27	45	47	7,698	41	7,850	
ECLIPSE	46	22	43	41	8,915	41	6,209	
MIDAS	—	21	40	36	4,501	36	3,665	
POLSTEAD	—	—	57	32	1,911	38	3,065	
FUSION	—	—	—	49	591	37	2,586	
ALFETTA	45	20	50	46	3,608	47	2,458	
CDC MOZART	44	16	45	24	1,998	39	2,045	
COOPER	—	—	50	37	1,552	43	1,997	
SW SALUTE	48	21	42	36	6,556	43	1,954	
CUTLASS	—	—	46	36	1,718	22	1,923	
CROMA	45	26	46	51	2,176	46	1,864	
SWING	39	22	39	38	1,863	30	1,823	
DELTA	44	24	40	42	1,931	38	1,497	
4010	29	12	36	36	979	36	1,347	
NO VAR	24	21	36	29	1,233	35	1,139	
REWARD	—	—	—	—	—	28	1,115	
SW CAPRI	—	50	37	39	798	52	1,094	
EFFEL	40	15	51	46	948	44	945	
TOLEDO	38	19	42	45	1,185	42	883	
TUDOR	—	23	45	49	1,235	45	852	
LIVIOLETTA	—	26	43	38	653	36	740	
SW CAROUSEL	—	—	—	38	1,694	35	674	
CDC MEADOW	—	—	—	—	—	54	652	
SW MIDAS	—	—	—	—	—	37	620	
DS-ADMIRAL	28	23	41	29	591	45	534	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						39.8	96,114	

RISK AREA 1

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
71-45RR (RT)	—	—	27	27	5,811	30	13,273	
5030 (LT)	40	19	27	27	12,325	33	9,096	
5020 (LT)	35	20	28	25	4,861	35	7,940	
8440 (LT)	—	—	—	—	—	33	7,551	
VICTORY V1035 (RT)	—	—	—	—	—	31	6,729	
9590 (LT)	—	—	—	30	2,956	37	6,585	
5070 (LT)	31	23	26	25	9,937	32	5,159	
5440 (LT)	—	—	—	—	—	35	4,659	
NEX 845CL (ST)	—	—	—	—	—	33	4,281	
VICTORY V1030 (RT)	—	—	—	—	—	26	2,513	
84S00LL (LT)	—	—	—	21	1,466	28	2,092	
45H26 (RT)	—	—	—	—	—	29	2,064	



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CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
1141 (LT)	—	—	—	—	—	20	1,757	
1143 (LT)	—	—	—	—	—	28	1,289	
1818 (RT)	—	—	24	24	1,419	31	1,213	
1768S (RT)	—	—	—	—	—	25	910	
46P50 (RT)	—	—	—	—	—	37	770	
4414 (RT)	—	—	—	22	1,412	33	770	
46A76 (ST)	28	17	19	22	1,021	27	730	
84S01LL (LT)	—	—	—	—	—	35	685	
SP FAVORABLE RR (RT)	—	—	—	—	—	31	625	
45P70 (ST)	—	—	—	—	—	33	620	
45H25 (RT)	—	—	24	21	3,937	28	550	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						31.5	90,432	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
MCKENZIE (RS)	45	29	34	35	14,097	39	19,764	
AC BARRIE (RS)	39	21	33	31	31,681	39	17,225	
5602HR (RS)	—	—	—	45	1,907	41	11,936	
AC CADILLAC (RS)	39	26	35	35	7,727	36	10,353	
CDC BUTEO (W)	—	—	46	51	5,389	47	9,264	
CDC FALCON (W)	57	33	48	53	8,675	56	6,346	
MCCLINTOCK (W)	—	—	48	52	3,920	51	6,335	
CDC IMAGINE (RS)	—	—	36	31	3,608	42	3,068	
LOVITT (RS)	—	—	34	32	2,677	35	2,821	
CDC BOUNTY (RS)	36	26	33	23	3,540	30	2,543	
INFINITY (RS)	—	—	—	—	—	29	2,347	
SUPERB (RS)	33	21	32	34	2,607	45	1,903	
AC CORA (RS)	35	26	30	30	1,720	36	1,694	
5701PR (PS)	—	—	—	—	—	33	1,509	
SNOWBIRD (HWS)	40	25	30	22	2,730	29	1,309	
CDC GO (RS)	—	—	—	—	—	35	719	
5500HR (RS)	—	28	32	—	—	32	608	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.6	105,815	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
PINNACLE	97	67	65	77	39,092	71	27,613	
LEGGETT	—	—	—	86	2,752	69	11,344	
FURLONG	—	49	62	76	6,215	65	3,152	
AC PREAKNESS	74	34	—	52	1,190	52	1,713	
RONALD	108	25	48	60	1,805	44	1,275	
AC ASSINIBOIA	80	31	50	51	3,435	58	1,196	
TRIPLE CROWN	88	23	—	—	—	51	580	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						68.3	48,184	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CONLON	62	33	45	47	11,372	50	6,995	
TRADITION	—	—	—	68	1,642	66	5,089	
CDC COPELAND	—	28	53	53	2,121	62	4,777	
AC METCALFE	58	27	45	45	5,650	51	3,167	
NEWDALE	68	31	63	51	5,696	48	2,305	
LEGACY	—	28	59	49	3,225	52	2,218	
CDC YORKTON	—	—	55	61	3,155	53	1,492	
LACEY	64	37	53	49	1,392	46	1,340	
CDC TREY	—	—	—	60	1,721	53	1,096	
CDC BATTLEFORD	—	—	—	—	—	51	952	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						54.3	33,360	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC BETHUNE	15	15	15	21	8,990	22	13,351	
TAURUS	18	14	17	20	3,056	20	3,861	
PRAIRIE BLUE	—	—	—	20	1,106	20	3,327	
HANLEY	—	16	—	—	—	23	1,476	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						20.8	23,164	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
SEEDS2000 6946 (C)	736	858	1,246	1,468	3,033	1,292	3,156	
SEEDS2000 DEFENDER PLUS (O)	—	—	—	1,387	2,023	979	3,021	
DAHLGREN D-9532 (C)	—	—	622	1,519	1,029	1,347	2,784	
DAHLGREN D4370 (O)	—	—	—	—	—	1,140	2,478	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PIONEER 63A21 (O)	—	—	765	—	—	1,144	1,310	
MYCOGEN 8N270 (O)	—	—	—	—	—	1,290	1,113	
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,404	958	
CROPLAN GENETICS IS 8135 (C)	—	—	—	—	—	999	780	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,178	20,009	

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 1	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	30	45	4,447	37	6,267	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						36.5	9,069	

RISK AREA 2

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5070 (LT)	35	34	37	32	63,320	43	50,919	
5030 (LT)	40	32	36	33	62,322	44	35,971	
5020 (LT)	34	28	37	30	24,603	41	33,787	
5440 (LT)	—	—	—	—	—	47	25,443	
71-45RR (RT)	—	—	33	30	19,910	40	22,482	
8440 (LT)	—	—	—	—	—	43	22,213	
NEX 845CL (ST)	—	—	—	31	2,028	39	18,168	
9590 (LT)	—	—	—	31	10,051	43	18,011	
45H26 (RT)	—	—	—	25	721	39	8,977	
1841 (RT)	30	31	37	32	3,174	40	6,916	
46P50 (RT)	—	—	—	29	7,393	40	6,812	
1818 (RT)	—	—	40	29	3,667	34	6,456	
VICTORY V1035 (RT)	—	—	—	—	—	38	3,508	
34-65 (RT)	—	—	33	25	8,141	28	3,252	
1143 (LT)	—	—	—	—	—	35	3,093	
45H21 (RT)	30	27	30	30	3,595	38	2,396	
4414 (RT)	—	—	—	—	—	34	1,675	
1141 (LT)	—	—	—	—	—	38	1,575	
45P70 (ST)	—	—	—	31	776	35	1,559	
SP FAVORABLE RR (RT)	—	—	—	—	—	37	1,555	
SW 3950 (RT)	—	—	32	28	1,255	40	1,264	
SP DESIRABLE RR (RT)	—	25	29	—	—	38	1,054	
93H01RR (RT)	—	—	—	—	—	41	888	
45H25 (RT)	—	—	32	25	4,050	37	864	
NEX 830 CL (ST)	—	24	33	29	2,358	37	741	
84S01LL (LT)	—	—	—	—	—	35	710	
45H28 (RT)	—	—	—	—	—	39	557	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						41.5	289,515	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC BARRIE (RS)	45	33	37	36	128,107	51	64,411	
MCKENZIE (RS)	47	35	39	40	27,012	41	41,527	
HARVEST (RS)	—	39	42	45	13,034	55	38,189	
CDC FALCON (W)	67	35	57	65	24,878	68	31,828	
5602HR (RS)	—	—	41	40	16,356	47	25,924	
SUPERB (RS)	48	36	39	40	15,213	48	16,698	
AC DOMAIN (RS)	44	36	39	39	15,754	47	12,240	
CDC GO (RS)	—	—	—	43	585	52	10,465	
CDC BUTEO (W)	—	—	55	60	7,765	61	9,609	
INFINITY (RS)	—	—	—	39	1,717	45	7,895	
KYLE (D)	43	31	—	—	—	31	4,544	
SNOWBIRD (HWS)	49	36	39	34	13,916	42	4,469	
AC CORA (RS)	42	29	33	34	3,117	40	4,011	
CDC IMAGINE (RS)	—	22	38	31	4,249	39	3,684	
AC CADILLAC (RS)	34	30	37	—	—	37	3,628	
LOVITT (RS)	—	—	38	35	3,270	44	3,436	
KANE (RS)	—	—	—	—	—	53	3,218	
CDC BOUNTY (RS)	40	34	35	35	5,233	35	3,191	
AC ANDREW (F)	—	—	—	40	1,027	68	2,350	
5601HR (RS)	45	36	36	38	2,364	44	1,668	
CDC RAPTOR (W)	61	35	54	52	4,600	55	1,634	
MCCLINTOCK (W)	65	32	53	57	3,449	63	1,417	
SOMERSET (RS)	—	—	37	—	—	45	1,073	
JOURNEY (RS)	—	36	43	40	1,143	60	932	
SNOWSTAR (HWS)	—	—	—	—	—	58	683	
PLENTY (D)	—	—	—	—	—	22	624	
CDC HARRIER (W)	66	29	55	57	3,829	59	580	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						50.4	304,946	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PINNACLE	118	71	82	103	42,052	98	39,659	
LEGGETT	—	—	—	106	3,884	96	9,122	
FURLONG	—	51	78	100	16,012	118	6,171	
RONALD	107	41	67	94	7,006	89	2,882	
HIFI	—	—	107	96	1,272	101	1,890	
AC ASSINIBOIA	95	38	61	75	4,103	84	1,494	
JORDAN	—	—	—	—	—	98	1,121	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						98.6	62,827	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
TRADITION	—	55	64	69	13,695	67	19,624	
NEWDAL	91	54	71	69	12,136	80	15,192	
CONLON	74	48	71	66	19,486	70	12,681	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



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BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
LEGACY	74	44	58	68	11,981	73	8,785	
CDC TREY	—	—	78	62	6,880	65	3,751	
AC METCALFE	67	41	50	50	6,707	57	3,029	
CDC COPELAND	87	44	65	56	1,759	74	2,817	
LACEY	71	40	57	63	1,910	75	2,105	
ROBUST	67	47	57	51	3,394	53	1,649	
AC RANGER	72	48	69	74	2,594	66	1,582	
CDC HELGASON	—	64	75	64	1,482	84	904	
EXCEL	73	41	67	63	1,969	70	900	
CDC COWBOY	—	—	—	—	—	28	639	
CDC YORKTON	—	—	68	83	871	89	621	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							70.6	75,521

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC BETHUNE	18	20	23	24	12,013	26	21,942	
HANLEY	15	16	21	25	6,768	23	7,767	
LIGHTNING	—	22	22	21	2,869	26	2,822	
AC EMERSON	22	21	19	24	2,556	20	2,499	
CDC SORREL	—	—	—	—	—	24	2,489	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							24.8	39,420

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
SEEDS2000 6946 (C)	653	1,232	1,664	1,431	14,701	1,640	13,246	
MYCOGEN SF270 (O)	—	1,288	1,365	1,556	4,662	1,235	2,795	
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,744	2,610	
DAHLGREN D-9532 (C)	—	—	—	1,093	655	1,107	784	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							1,595	25,589



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Durand Seeds Inc	Notre Dame, MB	248 2268
Ellis Seeds	Wawanesa, MB	824 2290
ENS Farm Ltd.	Winkler, MB	325 4658
Fisher Seeds	Dauphin, MB	622 8800
Friesen Seeds Ltd.	Morris, MB	746 8325
Hulme Agri Products Inc.	MacGregor, MB	685-2627
Manness Seeds	Domain, MB	736 2622
Nadeau Reliable Seed Service	Fannystelle, MB	436 2469
Pedigreed By Penner	Lowe Farm, MB	829 3556
Pitura Seed Service	Domain, MB	736 2849
Rutherford Farms	Grosse Isle, MB	467 5613
Smith Seeds	Crystal City, MB	873 2248
Swan Valley Seeds	Swan River, MB	734 2526
Wilson Seeds	Darlington, MB	246-2388

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FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 2	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC GOLDEN	—	—	52	48	13,364	41	16,700	
CDC STRIKER	—	29	53	54	3,446	38	4,406	
ALFETTA	49	17	50	48	2,767	48	2,346	
CROMA	48	27	51	52	1,869	46	1,864	
POLSTEAD	—	—	—	33	1,567	41	1,689	
SW SALUTE	49	18	44	42	2,319	46	855	
EIFFEL	39	13	51	49	590	48	780	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							42.3	30,956

RISK AREA 3

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
5020 (LT)	29	22	34	26	15,642	39	15,473	
9590 (LT)	—	—	—	26	3,339	43	11,253	
5030 (LT)	—	26	32	27	6,514	42	10,021	
71-45RR (RT)	—	—	30	27	2,209	37	9,554	
NEX 845CL (ST)	—	—	—	31	659	35	8,115	
5440 (LT)	—	—	—	—	—	42	4,375	
8440 (LT)	—	—	—	—	—	35	4,028	
5070 (LT)	26	29	32	26	17,845	41	3,706	
45H26 (RT)	—	—	—	—	—	37	3,127	
34-65 (RT)	—	—	28	22	4,080	34	3,085	
1841 (RT)	—	—	—	28	887	31	2,356	
NEX 830 CL (ST)	—	26	27	24	1,057	35	2,212	
46P50 (RT)	—	—	—	30	1,177	42	1,930	
45H24 (RT)	—	—	31	26	823	36	1,735	
811RR (RT)	—	—	24	24	884	27	1,608	
VICTORY V1035 (RT)	—	—	—	—	—	39	1,445	
RUGBY (RT)	—	—	—	—	—	30	1,380	
1143 (LT)	—	—	—	—	—	38	1,340	
45H25 (RT)	—	—	—	26	2,821	39	1,016	
4414 (RT)	—	—	—	—	—	42	1,016	
1141 (LT)	—	—	—	—	—	37	947	
1818 (RT)	—	—	—	27	578	37	914	
46A76 (ST)	21	22	30	23	2,711	37	897	
45H73 (ST)	—	—	—	—	—	34	863	
45H21 (RT)	30	27	30	27	1,549	37	717	
34-55 (RT)	24	25	27	25	619	25	601	
84S01LL (LT)	—	—	—	—	—	26	564	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							37.8	100,962

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
AC BARRIE (RS)	39	30	36	29	26,158	42	21,780	
5602HR (RS)	—	—	45	38	5,838	44	10,586	
AC INTREPID (RS)	41	34	41	35	5,555	51	9,215	
MCKENZIE (RS)	47	27	42	34	8,448	44	8,171	
SUPERB (RS)	40	27	38	28	5,611	44	5,988	
CDC BUTEO (W)	—	—	40	55	1,892	64	5,880	
AC DOMAIN (RS)	35	30	34	33	6,199	41	5,513	
MCCLINTOCK (W)	63	31	54	55	3,018	59	4,963	
INFINITY (RS)	—	—	—	42	667	50	4,918	
CDC FALCON (W)	39	34	49	54	2,525	60	4,404	
AC CADILLAC (RS)	42	26	33	30	3,095	42	4,332	
5700PR (PS)	40	35	46	46	3,191	59	3,608	
CDC BOUNTY (RS)	39	24	32	27	4,956	42	3,329	
5400IP (RS)	—	—	48	40	1,375	51	3,137	
HARVEST (RS)	—	—	—	—	—	54	2,832	
CDC IMAGINE (RS)	—	23	39	29	4,006	37	2,511	
LOVITT (RS)	—	—	—	33	510	36	2,257	
CDC TEAL (RS)	35	37	36	34	2,290	40	1,709	
SNOWBIRD (HWS)	42	34	40	31	1,117	49	1,233	
AC VISTA (PS)	—	—	—	—	—	55	1,159	
AC ANDREW (F)	—	—	—	—	—	62	1,153	
AC CORA (RS)	42	27	29	21	520	34	1,091	
AC ELSA (RS)	33	45	40	46	1,395	40	1,040	
KANE (RS)	—	—	—	—	—	52	819	
CDC GO (RS)	—	—	—	—	—	55	695	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							47.2	115,201

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PINNACLE	84	73	70	73	7,924	78	6,561	
LEGGETT	—	—	—	97	1,999	97	3,044	
FURLONG	—	62	49	68	5,757	91	2,715	
TRIPLE CROWN	79	56	59	67	4,153	69	2,053	
RONALD	95	50	65	54	3,996	63	1,852	
DUMONT	52	38	39	48	890	67	683	
CDC DANCER	—	—	—	85	638	97	589	
AC ASSINIBOIA	71	39	46	51	1,493	62	571	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							78.2	22,218

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC METCALFE	65	37	57	44	17,714	65	12,727	
CONLON	69	35	56	47	11,491	62	6,766	
LEGACY	—	—	69	65	2,429	89	5,703	
CDC COPELAND	—	51	65	55	3,807	66	4,809	
AC RANGER	72	51	66	60	7,631	73	3,762	
CDC TREY	—	—	—	55	2,139	60	3,724	
NEWDALE	61	37	47	49	5,123	70	2,260	
CDC STRATUS	65	45	51	35	1,412	46	1,510	
LACEY	75	41	58	48	1,591	60	1,420	
TRADITION	—	—	—	—	—	76	763	
SUNDRE	—	—	—	—	—	61	630	
CDC YORKTON	—	—	56	45	924	57	581	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							66.1	47,380

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	19	19	21	19	5,423	25	10,213	
CDC SORREL	—	—	—	—	—	23	1,592	
TAURUS	14	21	19	15	858	26	1,509	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							24.6	13,894

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 3	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	—	39	1,107	43	3,131	
ECLIPSE	48	28	38	42	1,256	46	1,336	
MIDAS	—	—	36	33	1,152	43	1,200	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							43.8	8,063

RISK AREA 4

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5030 (LT)	42	38	38	32	33,806	42	20,066	
5070 (LT)	40	37	37	32	26,214	42	17,172	
5020 (LT)	37	34	36	28	14,150	41	16,920	
71-45RR (RT)	—	—	35	30	6,282	39	15,517	
5440 (LT)	—	—	—	—	—	45	12,473	
NEX 845CL (ST)	—	—	—	29	2,517	35	12,235	
8440 (LT)	—	—	—	—	—	41	11,249	
9590 (LT)	—	—	—	33	2,276	43	8,023	
VICTORY V1035 (RT)	—	—	—	28	675	38	6,340	
45H26 (RT)	—	—	—	—	—	40	6,062	
45H21 (RT)	36	33	34	28	6,015	39	3,842	
1143 (LT)	—	—	—	—	—	44	3,351	
1141 (LT)	—	—	—	—	—	33	2,900	
46P50 (RT)	—	—	—	32	2,015	40	2,777	
SP FAVORABLE RR (RT)	—	—	—	—	—	31	2,539	
34-65 (RT)	—	—	32	26	5,384	31	2,018	
45H73 (ST)	—	—	—	—	—	42	1,633	
1841 (RT)	—	—	33	28	917	38	1,440	
NEX 830 CL (ST)	—	30	39	30	4,623	34	1,264	
SW 3950 (RT)	—	—	33	25	3,166	38	1,180	
PROVEN 9551 (RT)	—	—	—	—	—	33	1,145	
45H24 (RT)	—	—	40	29	1,148	40	1,118	
SP DESIRABLE RR (RT)	—	20	—	—	—	36	1,008	
1818 (RT)	—	—	—	—	—	35	1,002	
NEX 828CL (ST)	—	—	31	24	2,601	36	880	
4414 (RT)	—	—	—	26	1,304	35	812	
9550 (RT)	32	20	26	22	1,741	49	710	
VICTORY V1030 (RT)	—	—	—	27	4,293	32	569	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							40.0	164,002

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC BARRIE (RS)	46	36	40	34	58,839	48	47,645	
5602HR (RS)	—	—	46	41	11,989	46	28,896	
SUPERB (RS)	49	37	44	41	25,575	51	26,321	
AC DOMAIN (RS)	47	38	43	38	20,611	48	18,011	
CDC FALCON (W)	59	34	56	60	9,090	65	14,675	
MCKENZIE (RS)	51	35	40	40	8,031	47	11,077	
HARVEST (RS)	—	—	46	43	3,016	51	7,722	
CDC BUTEO (W)	—	—	49	48	6,616	58	6,775	
CDC GO (RS)	—	—	—	—	—	54	6,746	
MCCLINTOCK (W)	—	—	60	57	2,656	62	3,249	
AC CORA (RS)	43	33	38	31	3,924	40	2,861	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



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WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SNOWBIRD (HWS)	56	40	43	40	3,404	49	2,826	
AC ANDREW (F)	—	—	—	—	—	56	2,485	
CDC RAPTOR (W)	58	30	58	50	1,706	55	2,137	
SOMERSET (RS)	—	—	—	34	1,086	44	2,127	
AC CADILLAC (RS)	50	34	41	36	1,860	40	1,978	
CDC ALSASK (RS)	—	—	—	—	—	55	1,824	
CDC IMAGINE (RS)	—	—	41	35	952	44	1,192	
AC MAJESTIC (RS)	36	24	25	19	1,741	32	791	
5701PR (PS)	—	—	—	—	—	56	731	
5601HR (RS)	—	32	35	27	1,484	40	517	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						50.3	195,956	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
FURLONG	—	71	78	79	9,652	97	9,247	
PINNACLE	88	74	76	83	7,611	92	5,373	
LEGGETT	—	—	—	87	2,087	86	3,894	
AC ASSINIBOIA	77	61	67	64	4,381	74	3,057	
RONALD	98	53	73	71	6,118	86	1,992	
TRIPLE CROWN	92	53	67	64	3,313	53	858	
CDC DANCER	—	—	—	82	1,067	83	785	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						87.7	27,346	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CONLON	74	53	72	66	25,245	77	20,816	
NEWDALE	—	38	68	64	9,830	70	10,999	
LACEY	70	47	64	57	10,995	71	8,803	
LEGACY	—	54	74	67	7,352	74	8,255	
AC METCALFE	69	42	58	56	8,329	63	7,953	
AC RANGER	80	39	70	53	4,094	63	2,384	
TRADITION	—	—	65	61	1,548	65	2,181	
CDC TREY	—	—	—	69	1,134	53	1,291	
ROBUST	73	50	51	53	1,872	64	1,102	
CDC STRATUS	78	39	60	42	1,968	66	949	
VIVAR	—	—	—	56	955	62	659	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						70.2	68,489	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	17	21	25	22	14,061	25	16,945	
LIGHTNING	—	—	—	19	903	24	2,261	
CDC SORREL	—	—	—	—	—	26	1,230	
HANLEY	—	—	25	—	—	20	546	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						25.0	21,282	

CORN YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
DEKALB DKC26-79 (RT)	—	—	—	—	—	84	2,534	
PIONEER 39D95 (RT)	—	—	—	—	—	131	855	
DEKALB DKC26-78 (RT)	—	—	—	—	—	114	767	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						95.4	6,380	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SEEDS2000 6946 (C)	560	1,087	1,676	1,607	4,992	1,678	3,187	
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	2,008	965	
PIONEER 63M40 (O)	—	—	—	—	—	1,925	722	
MYCOGEN SF270 (O)	—	—	1,579	1,821	508	1,534	649	
INTERSTATE IS6131 NS/DM (O)	—	—	—	—	—	1,900	602	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,759	9,105	

DRY BEAN YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
ENVOY (WHITE PEA)	624	1,526	1,074	1,396	1,150	2,211	605	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						2,013	847	

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 4	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	55	41	2,893	33	3,943	
ECLIPSE	48	21	47	46	1,180	34	923	
CUTLASS	—	—	—	—	—	40	857	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						34.5	8,757	

RISK AREA 5

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5020 (LT)	38	32	40	33	43,853	49	54,995	
71-45RR (RT)	—	—	34	33	18,210	42	41,637	
5030 (LT)	—	34	41	34	51,608	51	29,341	
45H26 (RT)	—	—	—	32	3,167	46	24,114	
5070 (LT)	36	34	42	33	31,162	49	22,598	
8440 (LT)	—	—	—	—	—	53	19,531	
5440 (LT)	—	—	—	—	—	49	17,577	
NEX 845CL (ST)	—	—	—	32	5,219	42	13,873	
34-65 (RT)	—	25	38	29	19,877	40	12,669	
9590 (LT)	—	—	—	32	14,065	45	12,045	
46P50 (RT)	—	—	—	31	9,859	45	9,326	
1841 (RT)	—	31	40	32	9,882	44	7,560	
VICTORY V2018 (RT)	—	—	—	—	—	43	6,085	
VICTORY V1035 (RT)	—	—	—	—	—	42	4,768	
45H21 (RT)	36	29	36	33	14,714	41	4,462	
NEX 830 CL (ST)	—	27	37	28	15,369	37	3,760	
4414 (RT)	—	—	—	—	—	38	2,972	
1143 (LT)	—	—	—	—	—	45	2,526	
VICTORY V2010 (RT)	—	—	—	—	—	44	1,948	
PROVEN 9551 (RT)	—	—	—	31	1,547	38	1,789	
71-85RR (RT)	—	28	34	31	5,144	36	1,363	
1141 (LT)	—	—	—	—	—	46	1,051	
45H24 (RT)	—	29	41	30	3,468	48	1,028	
34-55 (RT)	35	28	33	29	4,810	37	905	
1651H (ST)	—	—	—	—	—	44	868	
45H73 (ST)	—	—	—	32	1,113	48	772	
72-55RR (RT)	—	—	—	—	—	46	684	
1818 (RT)	—	32	34	28	1,021	44	683	
D1035 (ST)	—	—	—	—	—	41	642	
997RR (RT)	—	—	—	—	—	44	550	
45P70 (ST)	—	—	—	29	2,689	37	537	
45H28 (RT)	—	—	—	—	—	53	520	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						45.9	311,009	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC DOMAIN (RS)	48	34	45	41	89,322	55	79,307	
CDC FALCON (W)	75	43	68	64	37,304	76	41,282	
AC BARRIE (RS)	49	36	40	38	48,085	55	35,923	
5602HR (RS)	—	—	49	45	19,124	53	30,768	
HARVEST (RS)	—	—	49	53	8,091	60	27,001	
SUPERB (RS)	55	39	47	46	14,094	60	11,679	
MCKENZIE (RS)	47	35	40	43	7,774	48	10,559	
CDC GO (RS)	—	—	—	61	891	67	10,468	
SNOWBIRD (HWS)	52	41	43	41	7,221	50	7,305	
5601HR (RS)	50	41	41	37	7,228	44	6,705	
CDC BUTEO (W)	—	—	60	57	3,470	72	5,270	
KANE (RS)	—	—	—	—	—	65	4,519	
INFINITY (RS)	—	—	—	48	627	58	3,687	
CDC BOUNTY (RS)	49	38	40	42	5,829	52	3,545	
AC CORA (RS)	46	34	36	41	1,119	48	3,156	
AC CADILLAC (RS)	45	36	32	39	3,299	46	3,038	
CDC IMAGINE (RS)	—	32	45	39	1,006	57	3,009	
LOVITT (RS)	—	40	44	41	1,820	50	2,973	
MCCLINTOCK (W)	76	—	60	58	6,313	71	2,400	
SOMERSET (RS)	—	—	—	47	685	55	1,924	
JOURNEY (RS)	—	—	42	—	—	52	933	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						58.7	299,004	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
FURLONG	—	67	87	94	24,808	105	21,549	
LEGGETT	—	—	—	107	3,042	110	5,977	
RONALD	108	53	80	95	14,746	118	4,327	
AC ASSINIBOIA	93	46	66	89	4,256	105	1,929	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
HIFI	—	149	100	111	1,555	111	1,599	
JORDAN	—	—	—	—	—	126	1,461	
CDC DANCER	—	—	—	134	570	133	1,342	
PINNACLE	—	74	75	98	879	117	912	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						108.6	41,068	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CONLON	80	50	74	64	60,079	83	34,939	
NEWDALE	—	63	65	69	4,548	82	8,719	
ROBUST	72	50	61	60	8,691	75	6,275	
TRADITION	—	60	—	60	1,584	79	4,652	
LEGACY	74	59	63	62	6,977	73	4,617	
AC METCALFE	73	49	52	53	1,864	74	2,297	
CDC YORKTON	—	—	—	59	1,675	81	1,139	
CDC TREY	—	—	—	—	—	70	736	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						80.4	66,589	

SOYBEAN YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
APOLLO RR (RT)	—	—	31	35	1,261	32	1,903	
90A06 (RT)	—	—	—	—	—	30	1,338	
90M01 (RT)	—	—	28	34	898	34	955	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						31.0	5,694	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	20	19	19	27	9,036	27	11,603	
HANLEY	22	22	23	23	3,432	26	4,396	
LIGHTNING	—	17	23	22	1,259	27	3,082	
CDC SORREL	—	—	—	25	520	26	1,815	
OMEGA	—	—	—	25	637	26	1,164	
PRAIRIE BLUE	—	17	22	21	1,017	28	956	
AC WATSON	24	14	22	19	700	23	756	
TAURUS	18	22	19	—	—	29	735	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						26.7	25,111	

CORN YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
DEKALB DKC26-79 (RT)	—	114	109	109	1,140	108	1,841	
PIONEER 39B94 (BT,LT,RT)	—	—	—	—	—	98	620	
PIONEER 39D97 (BT,LT,RT)	—	—	—	—	—	112	598	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						99.8	6,865	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SEEDS2000 6946 (C)	602	1,069	2,183	1,781	9,582	1,817	8,617	
SEEDS2000 DEFENDER PLUS (O)	—	—	—	2,028	558	1,587	2,213	
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,757	1,819	
PIONEER 63M40 (O)	—	—	—	—	—	1,892	1,116	
CHS RH 1121 (C)	—	—	—	—	—	2,308	1,090	
INTEGRA INT 536 (O)	—	—	—	—	—	1,792	1,006	
PIONEER 63M80 (O)	509	—	2,727	1,750	1,795	1,687	965	
DAHLGREN D-9532 (C)	—	1,116	2,165	—	—	877	947	
DAHLGREN D-9530 (C)	941	1,226	2,072	—	—	1,065	513	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,707	21,674	

DRY BEAN YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
ENVOY (WHITE PEA)	763	1,307	1,400	1,431	5,220	1,709	3,920	
T9903 (WHITE PEA)	—	—	1,861	1,638	878	1,801	1,036	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,857	6,045	

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 5	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	—	46	754	45	1,755	
TUDOR	—	—	—	50	789	53	672	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						46.3	3,374	

RISK AREA 6

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5020 (LT)	29	32	39	28	30,861	42	34,378	
5030 (LT)	29	33	42	32	48,801	45	29,298	
71-45RR (RT)	—	—	39	28	7,196	40	29,023	
5070 (LT)	30	33	40	31	24,259	43	25,672	
NEX 845CL (ST)	—	—	—	31	1,358	37	18,592	
5440 (LT)	—	—	—	—	—	46	15,803	
8440 (LT)	—	—	—	—	—	44	15,635	
45H26 (RT)	—	—	—	34	931	42	15,210	
VICTORY V1035 (RT)	—	—	—	31	807	40	10,066	
9590 (LT)	—	—	—	31	6,371	42	9,816	
34-65 (RT)	—	—	36	28	10,504	33	7,379	
46P50 (RT)	—	—	—	31	7,555	40	6,564	
45H73 (ST)	—	—	—	32	2,309	40	5,519	
1841 (RT)	—	33	43	31	3,650	39	5,496	
SP BANNER (RT)	25	30	33	26	5,150	32	5,108	
46A76 (ST)	19	25	34	24	5,214	33	4,149	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.

Management
Plus



CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
VICTORY V1030 (RT)	—	29	—	28	9,983	36	3,791	
1143 (LT)	—	—	—	—	—	38	3,096	
1852H (RT)	—	—	—	—	—	39	2,416	
45H24 (RT)	—	36	37	32	6,358	41	2,371	
4414 (RT)	—	—	—	—	—	35	2,246	
45H21 (RT)	28	32	35	30	2,653	38	1,820	
71-20CL (ST)	—	41	38	28	6,321	29	1,666	
SP 621 RR (RT)	—	—	—	28	3,255	33	1,657	
34-55 (RT)	28	28	34	28	3,231	38	1,327	
45H28 (RT)	—	—	—	—	—	45	1,103	
NEX 828CL (ST)	—	—	36	28	7,405	33	1,072	
SP 451RR (RT)	—	27	36	27	7,669	35	1,008	
REAPER (RT)	—	—	30	30	612	33	919	
SP DESIRABLE RR (RT)	—	38	35	29	748	40	914	
VICTORY V1036 (RT)	—	—	—	—	—	31	896	
9550 (RT)	28	26	31	28	2,876	41	885	
45P70 (ST)	—	—	—	30	1,843	38	850	
INVIGOR 2663 (LT)	28	31	39	28	2,925	30	846	
NEX 840CL (ST)	—	—	—	—	—	26	815	
997RR (RT)	—	—	—	—	—	37	777	
1141 (LT)	—	—	—	—	—	30	743	
1818 (RT)	—	—	—	27	2,016	37	683	
SW 6802 (RT)	—	30	29	—	—	38	617	
SP FAVORABLE RR (RT)	—	—	—	—	—	38	590	
45H25 (RT)	—	—	41	28	5,967	38	585	
71-85RR (RT)	—	26	38	29	4,163	37	559	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						40.5	280,582	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SUPERB (RS)	39	36	48	40	32,300	50	35,818	
AC DOMAIN (RS)	41	34	43	37	31,838	47	34,499	
AC BARRIE (RS)	39	32	39	32	39,784	47	23,472	

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WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5602HR (RS)	—	—	51	39	10,228	47	21,463	
CDC FALCON (W)	58	22	65	59	17,763	63	19,362	
AC INTREPID (RS)	44	40	51	45	9,264	54	10,980	
AC ANDREW (F)	—	—	—	48	3,438	60	7,698	
MCKENZIE (RS)	44	42	46	40	3,789	49	7,321	
CDC TEAL (RS)	40	35	38	33	7,469	45	6,126	
5701PR (PS)	—	51	52	53	758	54	5,778	
CDC BUTEO (W)	—	—	55	56	4,781	58	5,635	
5601HR (RS)	—	34	49	35	6,962	48	5,025	
MCCLINTOCK (W)	—	—	60	57	3,821	61	4,858	
CDC HARRIER (W)	56	—	68	60	3,115	68	4,277	
CDC RAPTOR (W)	51	—	67	53	4,365	57	4,246	
CDC IMAGINE (RS)	—	35	48	39	3,157	46	3,978	
CDC GO (RS)	—	—	—	—	—	50	3,577	
HARVEST (RS)	—	—	—	—	—	52	3,556	
AC TABER (PS)	41	36	51	45	1,784	51	3,417	
AC CADILLAC (RS)	37	31	32	34	2,497	37	2,947	
AC VISTA (PS)	—	—	—	49	1,416	52	2,453	
5400IP (RS)	—	—	—	—	—	47	1,524	
SOMERSET (RS)	—	—	—	39	552	51	1,343	
BRIGGS (F)	—	—	—	61	1,177	75	1,293	
AC ELSA (RS)	41	38	42	41	2,263	38	1,256	
SNOWBIRD (HWS)	40	38	45	43	2,248	57	1,245	
5700PR (PS)	46	44	52	49	1,423	58	1,222	
CDC ALSASK (RS)	—	—	—	—	—	54	1,112	
INFINITY (RS)	—	—	—	34	1,138	37	1,000	
RUSS (F)	42	35	48	41	2,262	39	915	
KANE (RS)	—	—	—	—	—	53	901	
AC CORA (RS)	28	33	38	27	1,276	42	701	
AC SPLENDOR (RS)	29	29	35	24	693	48	607	
AC MAJESTIC (RS)	35	34	35	30	3,200	43	591	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						51.0	232,919	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PINNACLE	89	84	95	87	10,175	106	11,149	
TRIPLE CROWN	114	78	104	87	23,354	119	10,901	
LEGGETT	—	—	—	88	767	107	8,970	
FURLONG	—	89	90	83	12,085	111	7,311	
CDC DANCER	—	135	130	106	6,059	120	7,185	
RONALD	103	82	94	90	9,582	101	2,762	
AC ASSINIBOIA	85	70	81	68	3,104	90	1,014	
JORDAN	—	—	—	—	—	95	540	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						110.0	51,232	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
LEGACY	64	50	77	65	22,087	80	22,265	
AC METCALFE	66	47	66	50	28,973	67	20,016	
NEWDAL	66	41	68	53	8,523	67	11,512	
CDC TREY	—	42	80	62	10,053	75	6,360	
CONLON	75	55	88	62	9,130	73	5,936	
XENA	71	52	77	53	9,186	75	4,472	
TRADITION	—	—	—	57	957	79	3,557	
LACEY	67	38	81	54	2,906	70	2,800	
CDC COPELAND	58	46	77	62	1,308	68	2,072	
AC RANGER	63	53	68	67	5,083	82	1,451	
EXCEL	60	48	78	66	2,530	67	879	
AC ROSSER	61	49	74	61	3,993	73	767	
VIVAR	—	—	—	—	—	60	681	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						72.6	86,246	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	15	20	26	23	16,715	26	22,550	
CDC SORREL	—	—	—	—	—	26	6,221	
TAURUS	10	26	25	21	3,233	25	4,714	
HANLEY	13	27	25	22	2,678	25	2,842	
LIGHTNING	—	—	—	—	—	33	768	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						25.5	39,440	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SEEDS2000 6946 (C)	161	725	2,163	2,035	746	1,757	1,375	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						1,887	2,315	

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 6	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	—	44	2,822	42	5,148	
ECLIPSE	36	24	51	42	2,571	38	2,482	
MIDAS	—	—	45	37	1,303	32	1,954	
FUSION	—	—	—	—	—	32	1,237	
COOPER	—	—	—	43	597	44	941	
TOLEDO	40	22	39	—	—	43	760	
REWARD	—	—	—	—	—	26	672	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							38.0	14,960

RISK AREA 7

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
NEX 845CL (ST)	—	—	—	—	—	40	17,097	
5030 (LT)	21	40	41	31	21,667	43	16,630	
71-45RR (RT)	—	—	42	28	6,475	40	14,271	
5070 (LT)	26	40	42	32	18,294	45	12,496	
5020 (LT)	23	37	43	28	17,674	43	12,161	
5440 (LT)	—	—	—	—	—	47	9,525	
8440 (LT)	—	—	—	—	—	48	6,956	
46P50 (RT)	—	—	—	30	2,852	41	5,377	
VICTORY V1035 (RT)	—	—	—	30	942	41	5,024	
45H26 (RT)	—	—	—	—	—	44	4,022	
34-65 (RT)	—	—	42	29	3,943	34	3,917	
45H21 (RT)	22	33	39	29	6,381	41	3,291	
9590 (LT)	—	—	—	33	3,065	46	2,808	
4414 (RT)	—	—	—	—	—	39	2,373	
1143 (LT)	—	—	—	—	—	41	2,022	
NEX 828CL (ST)	—	34	38	28	5,507	38	2,006	
46A76 (ST)	14	26	33	22	3,650	33	1,775	
1818 (RT)	—	—	—	—	—	39	1,174	

† 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.

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
45H25 (RT)	—	—	44	29	2,312	42	1,067	
1841 (RT)	—	—	41	32	1,489	40	1,061	
45H73 (ST)	—	—	—	32	579	42	1,017	
NEX 840CL (ST)	—	—	—	—	—	32	931	
LBD 612RR (RT)	—	—	—	—	—	37	624	
1141 (LT)	—	—	—	—	—	48	559	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							41.7	136,784

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC DOMAIN (RS)	35	37	43	37	20,916	45	20,721	
AC BARRIE (RS)	30	35	39	35	22,993	47	17,704	
SUPERB (RS)	29	39	47	41	14,587	48	15,783	
CDC TEAL (RS)	31	48	49	45	11,619	51	8,182	
HARVEST (RS)	—	—	57	48	3,991	56	6,666	
INFINITY (RS)	—	—	—	46	2,999	55	6,453	
5400IP (RS)	—	—	44	42	5,108	48	5,709	
AC INTREPID (RS)	36	41	46	41	6,976	50	5,520	
5602HR (RS)	—	—	47	39	5,700	50	5,000	
CDC BUTEO (W)	—	—	—	56	2,517	65	3,689	
CDC FALCON (W)	56	—	59	63	728	67	3,430	
MCKENZIE (RS)	21	35	40	30	1,971	41	2,706	
CDC IMAGINE (RS)	—	—	—	40	518	46	2,331	
AC TABER (PS)	—	—	56	52	814	48	1,859	
CDC BOUNTY (RS)	16	28	39	32	1,437	45	1,360	
LILLIAN (RS)	—	—	—	40	504	51	1,313	
KANE (RS)	—	—	—	—	—	63	1,020	
AC VISTA (PS)	—	—	—	—	—	52	875	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							50.0	114,484

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



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OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PINNACLE	102	91	82	79	9,134	106	8,641	
FURLONG	—	110	97	87	6,027	126	5,119	
LEGGETT	—	—	—	97	874	111	2,698	
RONALD	89	80	90	84	5,925	102	2,143	
TRIPLE CROWN	85	88	89	81	4,033	87	1,744	
CDC DANCER	—	140	148	96	1,815	137	1,668	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							112.2	24,578

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC METCALFE	57	49	66	51	15,733	69	14,060	
CDC COPELAND	74	43	68	57	8,198	72	8,977	
TRADITION	—	—	83	64	5,356	78	7,147	
LEGACY	—	67	85	71	6,287	85	6,216	
EXCEL	68	57	74	57	3,257	78	1,422	
CDC TREY	—	—	68	49	2,178	71	1,400	
CDC COWBOY	—	—	—	—	—	69	1,318	
NEWDALE	—	25	—	—	—	94	1,075	
AC RANGER	59	42	72	56	4,217	64	1,014	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							73.8	44,626

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	5	22	27	21	2,745	28	3,731	
CDC SORREL	—	—	—	—	—	29	2,604	
OMEGA	—	—	25	—	—	33	1,952	
TAURUS	7	24	28	22	2,937	29	1,775	
LIGHTNING	—	—	—	—	—	22	895	
NORLIN	4	21	27	—	—	23	520	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							28.2	11,959

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 7	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	—	44	1,437	46	2,561	
CDC STRIKER	—	—	45	40	1,677	45	1,182	
COOPER	—	—	—	—	—	44	895	
ECLIPSE	—	20	—	38	622	40	858	
FUSION	—	—	—	—	—	45	774	
POLSTEAD	—	—	—	—	—	43	585	
CDC MOZART	—	—	—	—	—	42	570	
DELTA	40	32	44	42	562	37	536	
SWING	30	17	38	—	—	38	529	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							42.7	12,087

RISK AREA 8

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 8	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5030 (LT)	35	46	39	32	55,261	47	42,379	
5020 (LT)	41	46	39	30	47,613	44	31,816	
5440 (LT)	—	—	—	—	—	50	19,126	
9590 (LT)	—	—	—	39	13,957	46	14,671	
71-45RR (RT)	—	—	33	31	5,511	41	12,636	
VICTORY V1035 (RT)	—	—	—	35	905	43	11,755	
1143 (LT)	—	—	—	—	—	43	9,600	
5070 (LT)	47	44	40	27	8,638	46	5,905	
45H26 (RT)	—	—	—	44	582	45	4,775	
1141 (LT)	—	—	—	—	—	43	3,919	
8440 (LT)	—	—	—	—	—	47	2,800	
46P50 (RT)	—	—	—	—	—	33	2,662	
NEX 845CL (ST)	—	—	—	—	—	39	2,334	
VICTORY V1030 (RT)	—	35	37	29	8,100	39	2,262	
997RR (RT)	—	—	—	—	—	28	1,424	
45H21 (RT)	32	34	37	23	5,292	43	1,403	
45H25 (RT)	—	—	31	30	561	37	768	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							44.6	175,478

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 8	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
HARVEST (RS)	59	60	57	51	68,037	60	78,515	
AC DOMAIN (RS)	47	52	50	43	40,393	52	42,398	
AC SPLENDOR (RS)	51	54	51	44	10,747	56	12,122	
AC INTREPID (RS)	49	51	50	35	8,145	46	8,014	

† 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.

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 8	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
INFINITY (RS)	—	—	—	49	1,414	55	3,910	
BURNSIDE (ES)	—	—	—	37	1,910	53	3,588	
SUPERB (RS)	55	55	49	37	3,831	56	2,945	
CDC TEAL (RS)	50	52	51	47	3,449	49	2,620	
CDC IMAGINE (RS)	—	58	56	49	1,186	56	1,761	
MCKENZIE (RS)	43	—	—	—	—	47	1,646	
CDC GO (RS)	—	—	—	—	—	66	1,378	
5600HR (RS)	—	39	—	30	1,280	37	1,278	
KANE (RS)	—	—	—	—	—	55	668	
SOMERSET (RS)	—	—	—	—	—	29	632	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							56.2	164,739

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 8	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
RONALD	102	89	84	72	5,018	98	2,378	
DUMONT	—	52	43	52	1,097	56	1,535	
CDC WEAVER	—	—	—	—	—	127	1,201	
TRIPLE CROWN	72	66	57	44	2,303	68	754	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							90.1	8,307

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 8	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
TRADITION	—	—	83	59	1,730	95	1,456	
ROBUST	64	57	55	46	2,786	54	1,339	
LACEY	—	48	—	53	730	56	837	
CONLON	74	64	62	34	1,485	65	733	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							69.9	5,282

RISK AREA 9

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5020 (LT)	39	41	40	21	68,362	41	57,159	
5030 (LT)	39	39	38	25	54,911	44	38,314	
NEX 845CL (ST)	—	—	—	21	2,954	36	32,089	
5440 (LT)	—	—	—	—	—	46	29,840	
71-45RR (RT)	—	—	33	25	15,013	42	25,450	
5070 (LT)	38	40	40	26	32,459	41	22,333	
VICTORY V1035 (RT)	—	—	—	24	741	38	16,985	
1143 (LT)	—	—	—	—	—	41	13,067	
NEX 828CL (ST)	—	39	33	23	16,981	36	9,964	
9590 (LT)	—	—	—	23	4,674	41	8,174	
1141 (LT)	—	—	—	—	—	37	7,684	
8440 (LT)	—	—	—	—	—	49	6,834	
34-65 (RT)	—	—	39	26	6,070	34	6,176	
1841 (RT)	36	38	34	25	5,879	36	4,535	
VICTORY V1030 (RT)	—	27	29	22	26,143	38	4,292	
45H26 (RT)	—	—	—	—	—	44	3,658	
46P50 (RT)	—	—	—	—	—	40	3,381	
4414 (RT)	—	—	—	20	1,081	37	3,365	
NEX 840CL (ST)	—	—	—	21	741	38	1,522	
VICTORY V1037 (RT)	—	—	—	—	—	42	1,385	
34-55 (RT)	25	35	31	25	1,525	39	1,368	
997RR (RT)	—	—	—	—	—	21	1,261	
PROVEN 9551 (RT)	—	—	—	20	1,349	31	1,129	
Q 2	—	—	—	—	—	25	1,080	
811RR (RT)	33	—	28	20	1,654	29	1,032	
46A76 (ST)	30	30	38	22	570	30	1,023	
1818 (RT)	—	—	36	16	2,038	26	981	
INVIGOR 2573 (LT)	39	34	35	22	15,161	29	945	
45P70 (ST)	—	—	—	22	1,127	42	895	
45H24 (RT)	—	51	47	25	957	39	848	
VICTORY V1036 (RT)	—	—	—	—	—	36	755	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							40.5	315,231

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC DOMAIN (RS)	49	41	44	31	63,158	49	72,820	
SUPERB (RS)	54	47	49	40	51,071	51	51,736	
HARVEST (RS)	—	69	54	39	37,807	55	48,697	
AC BARRIE (RS)	48	36	39	34	33,504	46	36,337	
CDC TEAL (RS)	46	48	45	35	16,593	53	19,024	

† On system as of January 12, 2009;
* Assuming 48 lbs./bu.



WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GO (RS)	—	—	—	—	—	51	11,044	
AC INTREPID (RS)	46	51	48	32	9,650	53	10,013	
CDC IMAGINE (RS)	—	42	44	33	3,323	53	9,305	
INFINITY (RS)	—	—	—	50	1,301	60	8,667	
CDC BUTEO (W)	—	—	—	48	2,486	63	5,020	
MCCLINTOCK (W)	—	—	—	38	1,074	64	3,811	
5400IP (RS)	—	—	56	36	3,335	53	3,699	
AC VISTA (PS)	68	51	50	42	2,873	75	3,617	
5701PR (PS)	—	62	61	48	6,067	68	3,236	
AC SPLENDOR (RS)	38	58	46	32	1,008	64	2,981	
CDC FALCON (W)	63	37	60	44	3,869	56	1,416	
5602HR (RS)	—	—	51	33	1,616	44	1,336	
SOMERSET (RS)	—	—	—	32	661	39	1,264	
LOVITT (RS)	—	53	39	37	2,582	44	1,010	
MCKENZIE (RS)	—	46	—	22	1,357	61	997	
CDC BOUNTY (RS)	47	49	46	—	—	51	995	
5700PR (PS)	—	—	54	47	703	47	920	
KANE (RS)	—	—	—	—	—	61	810	
BURNSIDE (ES)	—	—	—	30	880	41	726	
AC ANDREW (F)	—	—	—	—	—	71	565	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							51.9 307,799	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
FURLONG	—	73	71	59	14,394	93	12,294	
RONALD	97	77	70	70	14,193	92	10,187	
TRIPLE CROWN	90	79	66	55	9,711	75	5,140	
LEGGETT	—	—	—	65	1,568	94	4,957	
PINNACLE	96	81	64	70	2,350	92	2,449	
AC ASSINIBOIA	85	79	62	61	5,136	98	1,994	
DERBY	87	68	70	46	1,281	74	1,250	
JORDAN	—	—	—	—	—	108	1,202	
AC PREAKNESS	—	—	—	—	—	81	724	
ROBERT	56	41	44	58	728	97	649	
JERRY	—	—	—	33	512	55	505	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							88.5 44,764	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC METCALFE	76	61	69	38	10,988	72	9,619	
LEGACY	85	58	65	54	7,753	76	6,995	
CONLON	64	54	64	48	6,153	57	6,143	
TRADITION	—	—	71	52	4,504	74	4,112	
ROBUST	65	47	56	36	6,403	54	2,949	
LACEY	80	54	53	55	1,410	67	2,042	
CDC YORKTON	—	—	74	52	1,212	77	1,913	
EXCEL	72	57	62	36	2,511	62	1,725	
AC RANGER	75	72	72	58	4,076	66	1,660	
CDC STRATUS	77	62	70	54	1,805	97	1,241	
CDC TREY	—	—	—	—	—	75	986	
SOMMERVILLE	—	—	52	51	2,225	52	629	
CDC HELGASON	71	65	57	50	1,842	81	514	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							68.3 43,515	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC BETHUNE	19	17	19	19	5,448	22	6,499	
CDC SORREL	—	—	—	—	—	24	997	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							22.0 11,232	

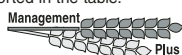
FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 9	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CDC GOLDEN	—	—	—	23	575	40	919	
LIVIOLETTA	—	26	43	—	—	36	740	
SW CAPRI	—	45	37	37	648	55	644	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							43.0 2,866	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;

‡ On system as of January 12, 2009;

§ Weighted Average Yield and Total Acreage include acres not reported in the table.

* Assuming 48 lbs./bu.



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RISK AREA 10

CANOLA YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
5020 (LT)	40	13	38	30	8,079	36	10,919
5070 (LT)	39	17	44	37	11,419	42	8,842
5030 (LT)	—	16	44	25	13,574	37	8,663
NEX 845CL (ST)	—	—	—	34	781	27	7,777
8440 (LT)	—	—	—	—	—	44	4,398
5440 (LT)	—	—	—	—	—	37	3,933
71-45RR (RT)	—	—	35	30	3,874	33	3,419
45H26 (RT)	—	—	—	—	—	36	3,100
1841 (RT)	—	—	39	—	—	37	2,623
VICTORY V2018 (RT)	—	—	—	—	—	33	2,447
34-65 (RT)	—	—	38	25	1,891	33	1,894
4414 (RT)	—	—	—	30	845	24	1,288
NEX 830 CL (ST)	—	13	38	24	3,561	26	1,240
9590 (LT)	—	—	—	36	3,473	39	1,233
1143 (LT)	—	—	—	—	—	31	776
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						35.3	68,634

WHEAT YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
AC BARRIE (RS)	53	25	47	44	19,394	51	21,818
CDC FALCON (W)	62	38	68	62	11,670	71	17,147
SUPERB (RS)	53	23	50	47	4,065	51	6,871
SNOWBIRD (HWS)	54	22	47	41	2,657	47	3,038
AC DOMAIN (RS)	53	26	50	34	2,816	50	2,884
5602HR (RS)	—	—	53	49	1,355	45	2,289
CDC GO (RS)	—	—	—	—	—	59	1,393
SOMERSET (RS)	—	—	—	—	—	51	1,129
MCCLINTOCK (W)	—	—	—	—	—	63	590
CDC BUTEO (W)	—	—	—	—	—	62	565
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						56.9	58,599





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OAT YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
FURLONG	—	30	90	88	17,655	90	11,025
LEGGETT	—	—	—	91	4,237	93	7,972
RONALD	98	36	87	91	11,006	92	4,518
AC ASSINIBOIA	90	39	83	82	8,862	75	4,472
PINNACLE	102	43	75	93	4,491	85	4,046
HIFI	—	—	89	98	909	106	1,799
JERRY	93	—	—	63	697	101	865
JORDAN	—	—	—	—	—	109	747
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						88.8	36,647

BARLEY YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
CONLON	64	14	65	62	6,743	64	6,191
LACEY	75	27	74	62	2,544	73	2,597
TRADITION	—	—	—	53	988	46	1,765
ROBUST	69	21	53	45	2,665	51	1,575
AC RANGER	78	11	64	49	4,513	58	1,113
AC METCALFE	—	22	63	49	949	38	729
LEGACY	—	28	51	—	—	76	589
CDC BATTLEFORD	—	—	—	—	—	49	523
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						61.0	16,341

SOYBEAN YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
NSC PORTAGE RR (RT)	—	—	—	—	—	31	2,893
LS 0065RR (RT)	—	—	35	30	1,046	32	1,360
90M01 (RT)	—	—	28	37	1,252	30	1,321
90A06 (RT)	—	—	—	—	—	28	1,093
RR ROSCO (RT)	—	—	—	—	—	28	526
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						28.8	11,170

FLAX YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
CDC BETHUNE	21	6	16	16	574	23	780
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						20.1	2,072

CORN YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
PIONEER 39D97 (BT,LT,RT)	—	—	—	124	1,124	114	3,835
DEKALB DKC26-79 (RT)	—	—	108	113	3,889	93	3,811
PIONEER 39D95 (RT)	—	—	—	—	—	103	2,662
PIONEER 39B94 (BT,LT,RT)	—	—	—	—	—	103	2,384
PIONEER 39M27 (BT)	2	62	112	114	6,896	95	1,979
PIONEER 39M26 (RT)	—	—	—	105	1,410	103	1,297
PIONEER 39B96 (BT,LT)	—	—	—	82	1,213	100	1,296
HYLAND HL R208 (RT)	—	—	—	109	1,035	86	1,218
PIONEER 39B90 (RT)	—	—	—	—	—	98	910
PIONEER 39B93	—	—	—	109	946	119	766
DEKALB DKC26-78 (RT)	—	—	86	124	1,173	98	705
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						99.7	24,123

SUNFLOWER YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
SEEDS2000 6946 (C)	677	642	2,280	1,876	4,857	1,563	7,461
PIONEER 63M80 (O)	—	—	—	—	—	2,011	2,058
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,634	1,714
CHS RH 3126 (C)	—	—	—	—	—	864	1,623
MYCOGEN 8N358CL (O) (ST)	—	—	—	—	—	1,345	522
DAHLGREN D-9530 (C)	—	606	—	—	—	1,252	516
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						1,526	15,136

DRY BEAN YIELDS BY VARIETY 2004–2008†						RISK AREA 10	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
ENVOY (WHITE PEA)	291	359	1,561	1,473	7,349	1,305	10,486
PINK PANTHER (KIDNEY)	—	37	1,656	1,850	1,425	1,504	3,412
ETNA (CRANBERRY)	—	—	1,448	—	—	1,276	929
MAVERICK (PINTO)	831	302	1,874	1,839	2,437	1,905	905
T9903 (WHITE PEA)	—	—	—	—	—	1,462	868
CIRRUS (WHITE PEA)	—	—	—	977	788	1,493	750
ROG 331 (WHITE PEA)	—	—	—	1,715	751	1,559	724
CARGO (WHITE PEA)	—	—	1,914	1,545	875	1,371	614
WINDBREAKER (PINTO)	—	—	—	—	—	2,125	611
FOXFIRE (KIDNEY)	992	220	2,103	1,585	1,293	1,477	535
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						1,475	22,657

† 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.

‡ On system as of January 12, 2009;
 * Assuming 48 lbs./bu.



RISK AREA 11

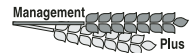
CANOLA YIELDS BY VARIETY 2004–2008†						RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
5020 (LT)	41	18	38	30	30,838	38	39,170
5030 (LT)	—	20	39	34	28,468	40	19,671
NEX 845CL (ST)	—	—	—	30	2,837	32	18,590
5440 (LT)	—	—	—	—	—	44	17,359
8440 (LT)	—	—	—	—	—	40	17,146
71-45RR (RT)	—	—	37	33	13,330	32	14,706
5070 (LT)	42	20	40	34	27,907	39	13,037
1841 (RT)	42	13	35	29	9,780	37	10,792
VICTORY V2018 (RT)	—	—	—	—	—	36	6,764
9590 (LT)	—	—	—	30	5,348	37	6,301
VICTORY V1035 (RT)	—	—	—	—	—	23	4,439
45H26 (RT)	—	—	—	34	675	36	4,228
1143 (LT)	—	—	—	—	—	24	3,409
34-65 (RT)	—	—	29	28	5,218	31	3,216
1818 (RT)	—	—	30	30	2,959	37	2,414
4414 (RT)	—	—	—	30	1,462	32	2,233
1141 (LT)	—	—	—	—	—	30	1,845
46P50 (RT)	—	—	—	27	1,010	31	1,680
NEX 830 CL (ST)	—	14	35	30	9,535	29	1,480
997RR (RT)	—	—	—	—	—	26	1,408
45H21 (RT)	37	19	32	29	6,974	29	1,330
SP DESIRABLE RR (RT)	—	—	—	32	1,104	34	1,300
PRAIRIE 719RR (RT)	—	—	—	—	—	24	1,293
1651H (ST)	—	—	—	—	—	37	1,271
45H73 (ST)	—	—	—	—	—	45	1,020
45H24 (RT)	—	—	—	—	—	36	980
93H01RR (RT)	—	—	—	—	—	28	853
NEX 828CL (ST)	—	14	33	26	2,167	29	835
9550 (RT)	27	15	32	28	1,629	30	726
34-55 (RT)	34	13	28	29	743	28	717
SP BANNER (RT)	37	10	27	31	1,187	23	514
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						36.3	210,191

WHEAT YIELDS BY VARIETY 2004–2008†						RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
AC BARRIE (RS)	55	27	48	46	54,864	52	49,702
CDC FALCON (W)	72	35	67	75	24,848	80	38,795
SUPERB (RS)	61	27	52	50	22,577	53	31,456
5602HR (RS)	—	—	56	50	17,757	48	28,191
CDC GO (RS)	—	—	—	64	2,256	55	14,799
SNOWBIRD (HWS)	60	26	50	47	15,576	52	10,069
AC DOMAIN (RS)	52	30	46	50	10,927	51	8,803
5601HR (RS)	49	20	48	48	6,091	42	4,676
KANE (RS)	—	—	—	—	—	60	4,241
SOMERSET (RS)	—	—	—	37	924	42	2,358
CDC BUTEO (W)	—	—	—	62	716	70	2,302
MCCLINTOCK (W)	—	—	—	—	—	64	1,564
GLENN (F)	—	—	—	—	—	52	1,160
BRIGGS (F)	—	—	—	51	1,291	36	1,049
ALSEN (F)	58	30	56	55	5,814	51	890
CDC IMAGINE (RS)	—	—	51	63	926	37	773
HY 644 (F)	—	—	—	66	2,125	54	639
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						57.0	204,506

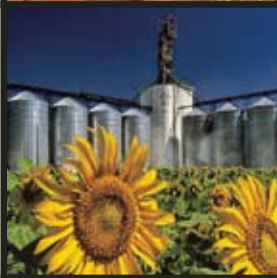
OAT YIELDS BY VARIETY 2004–2008†						RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres
FURLONG	—	56	88	101	19,807	112	16,444
LEGGETT	—	—	101	107	4,967	117	9,209
AC ASSINIBOIA	110	43	80	90	13,594	94	8,347
RONALD	111	49	87	102	15,917	106	6,560
CDC DANCER	126	71	101	110	5,811	106	4,962
JORDAN	—	—	—	159	532	129	2,447
HIFI	—	—	98	98	863	122	1,816
PINNACLE	108	42	90	105	2,073	84	1,665
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						107.7	52,674

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



- ✓ Milling Wheat – Infinity, AC Barrie, CDC Teal, AC Elsa,
- ✓ Specialty Canola Oils – Nexera
- ✓ Specialty Sunflower Oils – NuSun
- ✓ White Wheat – Snowbird
- ✓ Malt Barley – Legacy, Tradition, Newdale, CDC Copeland, AC Metcalfe
- ✓ Oats, Soybeans



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BINSCARTH	Johnny Byskal	204.532.2121
DELORAINE	Jon Turetsky	204.747.2333
GUNTON	Rick Krahn	204.886.3401
HOLLAND	Darrell Callewaert	204.526.2240
KILLARNEY	Keith McGill	204.523.8936
MELITA	Laurie Manshreck	204.522.3472
MORRIS	Roger Saurette	204.746.2347
NIVERVILLE	Greg Pauls	204.388.6565
PIERSON	John Dell	204.634.2291
ST. CLAUDE	Ron Lussier	204.379.2362
STEINBACH	Scott Warkentin	204.326.4405
WPG TERMINAL	Bill Bryer	204.694.4445
CARIEVALE, SK	Tryan Wells	306.928.2202

BARLEY YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
CONLON	84	20	80	83	29,159	84	23,560		
LACEY	88	45	80	66	4,036	72	4,388		
ROBUST	70	18	58	69	8,589	68	4,244		
LEGACY	93	34	60	72	4,329	66	3,709		
NEWDALE	80	32	81	71	6,083	74	3,191		
CDC COPELAND	71	20	71	85	2,520	79	2,483		
AC METCALFE	66	22	61	71	2,611	71	2,220		
TRADITION	—	—	—	63	1,294	70	1,530		
AC RANGER	85	31	75	68	2,954	63	1,424		
EXCEL	59	15	51	32	1,095	42	901		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						76.1	50,040		

SOYBEAN YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
NSC PORTAGE RR (RT)	—	—	—	—	—	36	1,463		
90A06 (RT)	—	—	—	—	—	40	1,185		
NSC 2007 (RT)	—	—	36	36	958	39	1,063		
APOLLO RR (RT)	—	—	25	28	1,440	34	954		
LS 0036RR (RT)	—	—	—	33	1,060	33	914		
LS 0045RR (RT)	—	—	28	34	1,757	19	907		
NSC WARREN RR (RT)	—	—	—	—	—	31	865		
RR REGIS (RT)	—	—	32	31	943	26	674		
MONTCALM (RT)	—	—	—	29	785	35	633		
LS 0065RR (RT)	—	—	32	—	—	36	595		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						33.5	10,237		

FLAX YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
CDC BETHUNE	21	9	18	28	2,315	29	2,941		
CDC SORREL	—	—	—	—	—	26	1,600		
TAURUS	24	10	18	18	651	21	1,322		
HANLEY	25	8	17	20	855	25	1,033		
PRAIRIE BLUE	—	—	19	—	—	25	630		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						25.9	8,064		

CORN YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
DEKALB DKC26-78 (RT)	—	—	—	—	—	105	1,031		
DEKALB DKC26-79 (RT)	—	—	143	96	804	120	887		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						112.4	2,671		

SUNFLOWER YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
SEEDS2000 6946 (C)	271	1,292	2,478	2,275	2,559	1,938	3,466		
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,539	760		
DAHLGREN D-9530 (C)	—	620	—	—	—	1,380	629		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1,820	8,025		

DRY BEAN YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
ENVOY (WHITE PEA)	337	800	2,048	1,398	23,203	1,466	16,780		
PINK PANTHER (KIDNEY)	—	—	2,229	1,217	3,616	1,288	2,641		
CARGO (WHITE PEA)	—	754	2,028	1,495	2,225	1,510	2,331		
FOXFIRE (KIDNEY)	1,239	575	1,836	1,186	1,650	1,089	2,205		
CIRRUS (WHITE PEA)	207	1,085	2,445	1,429	1,589	1,376	1,418		
MAVERICK (PINTO)	373	1,032	1,601	1,400	3,708	1,545	1,097		
WINDBREAKER (PINTO)	—	—	—	—	—	2,019	990		
T9903 (WHITE PEA)	—	—	—	—	—	1,642	821		
ECLIPSE (BLACK)	—	—	—	—	—	1,676	738		
AC PINTOBA (PINTO)	481	1,021	2,551	1,420	867	1,986	638		
AC CRUISER (WHITE PEA)	364	697	1,936	1,243	1,303	838	568		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1,467	32,771		

FIELD PEA YIELDS BY VARIETY 2004–2008†								RISK AREA 11	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
CDC GOLDEN	—	—	—	—	—	52	641		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						49.2	808		

RISK AREA 12

CANOLA YIELDS BY VARIETY 2004–2008†								RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
5020 (LT)	40	7	34	30	82,607	42	89,237		
5030 (LT)	46	7	33	33	121,866	44	68,836		
5070 (LT)	42	9	35	33	83,807	43	54,420		
8440 (LT)	—	—	—	—	—	43	51,313		
5440 (LT)	—	—	—	—	—	42	49,310		
71-45RR (RT)	—	—	22	27	27,254	38	39,312		
NEX 845CL (ST)	—	—	—	29	8,940	37	34,280		
1841 (RT)	38	5	32	30	23,186	37	28,803		
9590 (LT)	—	—	—	31	10,152	43	23,307		
45H26 (RT)	—	—	—	28	3,467	43	20,589		
VICTORY V2018 (RT)	—	—	—	—	—	39	15,911		
1143 (LT)	—	—	—	—	—	41	10,057		
NEX 830 CL (ST)	40	5	29	27	34,681	41	9,596		
VICTORY V1035 (RT)	—	—	—	—	—	35	4,834		
4414 (RT)	—	—	—	24	2,514	32	4,600		
45H73 (ST)	—	—	—	32	1,266	40	4,543		
1651H (ST)	—	—	—	—	—	37	4,298		
45H21 (RT)	34	9	32	30	11,301	38	4,289		
45H24 (RT)	—	7	28	32	2,053	37	4,117		
46P50 (RT)	—	—	—	33	7,041	37	3,809		
VICTORY V2010 (RT)	—	—	—	—	—	44	3,174		
1141 (LT)	—	—	—	—	—	45	2,783		
45P70 (ST)	—	—	—	29	5,110	38	2,592		
34-65 (RT)	—	—	28	26	4,611	34	2,263		
1818 (RT)	—	—	27	31	4,091	34	2,036		
9550 (RT)	28	3	22	24	3,032	35	1,760		
46A76 (ST)	30	3	22	16	2,215	34	1,738		
997RR (RT)	—	—	—	33	690	32	1,613		
PRAIRIE 719RR (RT)	—	—	24	26	687	27	1,432		
71-30CL (ST)	—	—	—	—	—	40	1,337		
4362 (RT)	—	—	—	20	1,117	39	1,235		
NEX 840CL (ST)	—	—	—	—	—	35	1,173		
PROVEN 9551 (RT)	—	—	—	26	986	30	854		
45H28 (RT)	—	—	—	—	—	43	838		
SW WIZZARD	—	—	—	—	—	33	701		
84S00LL (LT)	—	—	—	—	—	42	655		
PIONEER 45H26 (RT)	—	—	—	—	—	43	648		
45H72 (ST)	—	6	35	27	3,698	44	546		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						41.0	559,445		

WHEAT YIELDS BY VARIETY 2004–2008†								RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
CDC FALCON (W)	71	30	73	74	163,950	80	184,279		
AC BARRIE (RS)	51	16	47	44	188,218	56	161,996		
5602HR (RS)	—	—	52	49	35,116	50	54,109		
AC DOMAIN (RS)	56	25	55	46	46,102	60	41,215		
SUPERB (RS)	54	17	53	50	30,719	56	34,219		
SNOWBIRD (HWS)	54	16	46	44	34,958	54	25,311		
CDC GO (RS)	—	—	—	57	1,841	64	22,015		
5601HR (RS)	52	19	47	47	18,595	48	15,385		
KANE (RS)	—	—	—	49	658	64	7,743		
ALSEN (F)	45	12	53	50	7,812	59	6,967		
SOMERSET (RS)	—	—	—	49	1,551	59	5,659		
HY 644 (F)	—	—	—	—	—	50	2,131		
HARVEST (RS)	—	—	—	—	—	55	1,480		
MCCLINTOCK (W)	—	—	60	63	849	75	1,384		
MCKENZIE (RS)	55	15	45	51	973	41	1,324		
GLENN (F)	—	—	—	—	—	55	1,272		
AC MAJESTIC (RS)	52	17	46	38	2,399	49	992		
CDC CLAIR (W)	64	—	63	67	3,324	71	946		
CDC BUTEO (W)	—	27	70	63	2,474	67	867		
AC CORA (RS)	49	23	41	36	1,346	50	562		
CDC IMAGINE (RS)	—	—	51	47	520	53	562		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						63.6	575,145		

OAT YIELDS BY VARIETY 2004–2008†								RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres		
RONALD	107	27	87	104	153,370	121	87,959		
FURLONG	132	33	89	111	83,097	121	70,302		
LEGGETT	—	—	74	106	20,262	115	30,763		
AC ASSINIBOIA	95	27	79	100	31,990	112	15,065		
JORDAN	—	—	—	102	1,192	131	12,754		
PINNACLE	110	35	93	109	14,934	111	7,172		

† 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.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



OAT YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
RIEL	90	30	70	99	5,137	120	4,435
HIFI	—	—	93	105	1,410	111	4,148
CDC DANCER	—	—	88	101	2,020	127	3,308
TRIPLE CROWN	115	39	92	98	3,964	131	2,019
JERRY	94	40	87	99	1,715	109	1,106
ROBERT	74	22	71	106	2,783	111	1,092
SOURIS	—	—	—	—	—	140	1,023
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						119.8	242,972

BARLEY YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
CONLON	69	16	74	72	52,401	83	34,409
TRADITION	—	—	85	71	17,888	95	16,068
NEWDALE	72	12	75	76	12,974	87	10,975
ROBUST	62	16	68	60	11,418	67	4,676
AC METCALFE	58	8	61	64	8,728	72	4,027
CDC COPELAND	—	8	62	52	1,976	76	2,631
CDC TREY	—	—	74	70	1,847	87	2,079
LACEY	85	—	88	73	2,024	102	2,010
LEGACY	—	—	—	64	1,703	93	1,346
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						84.4	79,933

SOYBEAN YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
NSC PORTAGE RR (RT)	—	—	—	40	5,065	36	47,969
90M01 (RT)	—	—	30	41	33,161	33	42,536
90A06 (RT)	—	—	—	36	6,705	34	25,516
25-02R (RT)	11	27	29	40	19,970	35	16,870
OAC PRUDENCE	7	19	23	35	12,673	32	11,171
LS 0036RR (RT)	—	—	21	37	2,228	35	8,339
NSC 2007 (RT)	—	19	28	36	11,721	34	6,514
DK 24-51 (RT)	—	—	23	39	5,340	36	6,229
THUNDER 27005RR (RT)	—	—	—	—	—	34	5,984
RR ROSCO (RT)	—	21	30	33	6,689	34	5,714
NSC 2011RR (RT)	—	—	—	40	3,852	35	5,046
RR REGIS (RT)	—	—	27	37	11,044	34	4,524
LS 0045RR (RT)	—	—	28	33	5,034	31	4,155
90A07	6	15	29	38	8,178	35	4,071
NSC WARREN RR (RT)	—	—	—	—	—	32	3,749
LS 0065RR (RT)	—	—	30	45	1,257	36	2,663
26006RR (RT)	—	—	—	44	2,171	34	2,222
THUNDER 26005RR (RT)	—	—	28	35	1,645	32	2,087
90M02 (RT)	—	—	—	40	925	34	1,995
MONTCALM (RT)	—	—	—	38	1,926	30	1,980
90B11 (RT)	6	21	29	42	2,034	22	1,787
OLEXRR (RT)	—	—	—	37	601	33	1,719
RR RUSSELL (RT)	—	—	—	—	—	33	1,289
OAC ERIN	10	—	40	—	—	39	931
DRAKORR (RT)	—	—	—	—	—	29	852
DK 25-04R (RT)	—	—	—	—	—	35	695
90A01	—	21	25	28	2,660	34	585
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						34.1	224,043

FLAX YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
CDC BETHUNE	23	5	17	21	16,697	29	23,890
HANLEY	23	6	17	25	5,757	26	10,428
LIGHTNING	27	12	21	27	1,798	29	2,626
PRAIRIE BLUE	—	—	19	24	1,913	25	1,870
CDC SORREL	—	—	—	21	858	26	1,812
AC EMERSON	22	3	19	—	—	24	778
AC CARNDUFF	27	8	13	23	585	30	740
TAURUS	21	6	17	19	1,587	28	575
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						28.2	45,316

CORN YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
PIONEER 39D97 (BT,LT,RT)	—	—	—	129	6,679	133	24,121
PIONEER 39B94 (BT,LT,RT)	—	—	—	—	—	132	19,326
DEKALB DKC26-79 (RT)	—	70	116	127	11,756	127	14,209

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
‡ On system as of January 12, 2009;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.
* Assuming 48 lbs./bu.



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CORN YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
PIONEER 39B96 (BT,LT)	—	—	—	135	5,156	131	11,217
PIONEER 39M27 (BT)	1	70	118	127	43,856	123	6,820
PIONEER 39B90 (RT)	—	—	—	—	—	131	6,742
PIONEER 39D95 (RT)	—	—	—	134	730	131	6,504
PIONEER 39B93	—	—	98	133	4,093	124	3,507
DEKALB DKC26-78 (RT)	—	—	116	126	3,770	125	2,332
PIONEER 39F60 (BT,RT)	—	—	—	139	1,442	125	1,786
HYLAND HL R208 (RT)	—	—	—	124	2,019	116	1,598
PIONEER 39B63 (BT,LT)	—	—	—	—	—	123	1,203
PIONEER 39H83 (RT)	0	89	131	145	1,611	131	1,173
FRASER CPL 229 (RT,BT)	—	—	—	—	—	122	996
ELITE 20T18 (RT)	—	—	—	—	—	139	970
PIONEER 39F57 (RT)	—	—	—	—	—	115	821
DEKALB DKC27-45 (RT)	—	—	—	—	—	130	804
HYLAND HL 2093	0	83	122	124	1,996	120	722
PIONEER 39H86 (RT,LT,BT)	—	—	—	—	—	126	656
LEGAND LS5875	—	—	—	—	—	136	612
PIONEER 39M26 (RT)	—	—	—	112	4,390	109	593
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						129.3	111,893

SUNFLOWER YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
SEEDS2000 6946 (C)	342	635	2,255	1,470	32,335	1,647	22,498
PIONEER 63M80 (O)	—	959	2,447	1,687	5,111	1,845	7,410
SEEDS2000 JAGUAR (C) (ST)	—	—	—	—	—	1,400	3,133
MYCOGEN 8N358CL (O) (ST)	—	—	—	—	—	1,759	2,256
SEEDS2000 DEFENDER PLUS (O)	—	—	2,447	1,444	3,136	1,724	2,149
CHS RH 1121 (C)	—	—	—	—	—	1,649	1,809
MYCOGEN SF270 (O)	414	523	1,958	1,455	4,876	1,396	1,652
INTERSTATE IS 8048 (C)	95	377	2,092	1,296	2,961	1,261	1,334
DAHLGREN D-9530 (C)	—	489	2,066	1,852	1,006	1,290	1,212
DAHLGREN D-9532 (C)	183	348	2,064	1,504	1,685	1,444	1,162

† 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.

SUNFLOWER YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
DKF 34-33 (O)	—	—	—	—	—	1,426	1,135
INTERSTATE IS6131 NS/DM (O)	—	—	—	—	—	1,799	1,088
CROPLAN GENETICS IS 8135 (C)	—	—	—	1,612	655	1,360	865
PIONEER 63A70 (O)	260	908	2,119	1,720	1,829	1,755	744
MYCOGEN 8N270 (O)	—	—	—	—	—	1,545	655
MYCOGEN 8N386CL (O) (ST)	—	—	—	—	—	1,221	631
SEEDS2000 COUGAR (C)	—	664	1,933	1,102	984	1,135	594
SEEDS2000 PANTHER (C)	—	—	—	—	—	1,166	520
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,608	53,210

DRY BEAN YIELDS BY VARIETY 2004–2008†						RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres
WINDBREAKER (PINTO)	—	—	—	1,964	2,971	2,169	12,231
MAVERICK (PINTO)	419	717	1,867	1,859	31,363	2,070	12,204
T9903 (WHITE PEA)	—	—	1,942	1,810	4,461	1,609	9,058
ECLIPSE (BLACK)	—	—	—	2,088	2,606	1,914	5,855
AC PINTOBA (PINTO)	606	573	1,700	1,911	11,679	1,973	5,417
ENVOY (WHITE PEA)	392	529	1,642	1,795	6,434	1,579	4,509
PINK PANTHER (KIDNEY)	—	251	1,689	1,409	2,269	1,739	2,967
AC OLE (PINTO)	855	928	1,911	1,603	4,858	2,299	2,954
CDC JET (BLACK)	—	—	—	1,680	1,108	1,583	1,961
T39 (BLACK)	—	536	1,620	1,684	4,761	1,746	1,831
BUSTER (PINTO)	311	—	—	2,163	552	2,222	1,654
AC CRUISER (WHITE PEA)	525	739	1,801	1,761	1,984	1,936	1,261
FLOYD	—	—	1,863	1,429	2,896	2,026	1,176
BERYL	—	—	—	1,892	612	2,108	1,158
ROG 331 (WHITE PEA)	617	322	1,781	1,695	563	1,847	995
AC EARLIRE (SMALL RED)	454	79	—	1,817	780	1,854	878
AC HARBLACK (BLACK)	359	313	1,698	1,684	535	1,477	848
ETNA (CRANBERRY)	1,329	—	791	1,261	916	1,563	808
CARGO (WHITE PEA)	46	152	1,664	1,493	1,235	1,735	765
BLACK VIOLET (BLACK)	—	—	—	—	—	1,993	709
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						1,902	76,024

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.



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FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 12	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC STRIKER	—	—	—	44	853	46	771	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							39.6	1,926

RISK AREA 14

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
5020 (LT)	44	10	42	12	16,441	36	17,058	
9590 (LT)	—	—	—	18	6,991	39	11,930	
5030 (LT)	45	15	44	20	18,238	40	7,322	
5440 (LT)	—	—	—	—	—	42	6,178	
5070 (LT)	42	10	39	17	1,510	24	2,800	
8440 (LT)	—	—	—	—	—	38	2,000	
45H26 (RT)	—	—	—	—	—	42	1,503	
45H73 (ST)	—	—	—	—	—	28	1,435	
71-45RR (RT)	—	—	—	20	1,828	34	1,433	
45P70 (ST)	—	—	—	16	1,955	32	1,420	
NEX 845CL (ST)	—	—	—	—	—	29	1,376	
45H21 (RT)	37	8	36	10	3,791	27	1,365	
46P50 (RT)	—	—	—	—	—	35	1,123	
9550 (RT)	34	—	—	6	1,238	34	938	
34-55 (RT)	37	11	22	—	—	31	921	
VICTORY V2018 (RT)	—	—	—	—	—	32	807	
1841 (RT)	—	—	29	7	597	33	790	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							35.7	66,593

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC FALCON (W)	69	—	71	61	18,735	70	31,491	
AC BARRIE (RS)	48	17	44	24	13,076	37	11,950	
AC DOMAIN (RS)	52	16	50	27	9,178	46	9,697	
SUPERB (RS)	45	16	45	20	4,117	42	4,142	
MCKENZIE (RS)	56	23	52	39	1,831	47	2,759	
5602HR (RS)	—	—	—	—	—	42	2,402	
CDC BUTEO (W)	—	—	—	51	847	65	2,319	
5601HR (RS)	—	9	56	36	1,374	48	1,623	
AC CADILLAC (RS)	29	23	46	27	818	44	882	
IVAN (F)	—	24	55	26	1,653	53	789	
SNOWBIRD (HWS)	55	20	52	39	1,720	34	685	
MCCLINTOCK (W)	—	—	—	—	—	62	560	
CDC GO (RS)	—	—	—	—	—	53	518	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							55.1	72,786

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
RONALD	93	32	78	59	19,337	82	11,956	
FURLONG	—	—	103	66	5,084	98	11,701	
AC ASSINIBOIA	86	29	76	45	12,866	71	7,073	
LEGGETT	—	—	—	57	550	91	3,344	
JORDAN	—	—	—	—	—	103	1,677	
ROBERT	—	—	—	57	871	64	1,428	
TRIPLE CROWN	—	53	72	85	1,209	92	913	
CDC DANCER	—	—	—	86	897	110	873	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							86.5	40,829

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CONLON	71	20	77	36	8,745	70	6,791	
NEWDALE	—	—	71	30	2,908	48	3,298	
ROBUST	54	10	63	24	5,356	53	3,187	
TRADITION	—	—	—	50	735	56	641	
STANDER	64	14	61	28	1,003	45	545	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							60.6	15,828

SOYBEAN YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
LS 0036RR (RT)	—	—	42	44	3,258	35	10,192	
RR ROSCO (RT)	—	—	36	25	6,839	34	6,846	
GENTLEMAN	15	24	37	37	5,212	32	4,991	
MONTCALM (RT)	—	—	—	—	—	24	4,863	
90A06 (RT)	—	—	—	—	—	31	3,232	
OAC PRUDENCE	10	27	36	32	2,882	31	2,568	
NSC PORTAGE RR (RT)	—	—	—	—	—	33	2,403	
90M01 (RT)	—	—	—	36	869	26	2,115	
NSC WARREN RR (RT)	—	—	—	—	—	31	1,988	
DK 24-51 (RT)	—	—	—	40	1,399	34	1,835	
ACCORD	8	29	35	24	1,843	35	1,700	
THUNDER 27005RR (RT)	—	—	—	—	—	32	742	
LS 0065RR (RT)	—	—	—	—	—	26	700	
90A01	—	—	—	—	—	23	539	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							31.5	48,193

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
CDC BETHUNE	22	5	19	16	1,388	20	2,300	
HANLEY	21	6	—	22	623	21	1,225	
PRAIRIE BLUE	—	—	—	—	—	24	631	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE\$							20.4	5,030

CORN YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008† Acres	
PIONEER 39D97 (BT,LT,RT)	—	—	—	147	995	137	2,859	
DEKALB DKC26-79 (RT)	—	—	84	81	2,300	105	2,837	
PIONEER 39D95 (RT)	—	—	—	—	—	109	2,525	

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‡ On system as of January 12, 2009;
 * Assuming 48 lbs./bu.

CORN YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PIONEER 39B94 (BT,LT,RT)	—	—	—	—	—	133	1,626	
PIONEER 39B90 (RT)	—	—	—	—	—	92	1,165	
PIONEER 39B93	—	—	—	122	629	80	783	
DEKALB DKC26-78 (RT)	—	35	—	92	611	107	664	
PIONEER 39M26 (RT)	—	—	—	78	1,173	71	632	
PIONEER 39B96 (BT,LT)	—	—	—	—	—	118	501	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						111.4	14,856	

SUNFLOWER YIELDS BY VARIETY 2004–2008†							RISK AREA 14	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
SEEDS2000 6946 (C)	—	—	2,533	1,482	1,039	1,078	1,551	
PIONEER 63M80 (O)	—	—	—	—	—	1,144	1,160	
INTERSTATE IS 8048 (C)	11	525	—	1,563	680	959	651	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1,160	4,623	

RISK AREA 15

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5020 (LT)	47	22	34	27	11,801	22	14,682	
45H26 (RT)	—	—	—	30	1,186	28	10,315	
9590 (LT)	—	—	—	32	6,389	22	9,497	
1841 (RT)	—	—	35	30	2,512	24	7,642	
45H21 (RT)	41	19	33	26	6,879	21	6,640	
5030 (LT)	—	19	40	27	5,354	26	6,231	
5440 (LT)	—	—	—	—	—	25	5,666	
46P50 (RT)	—	—	—	34	3,192	19	4,007	
8440 (LT)	—	—	—	—	—	35	3,519	
5070 (LT)	46	23	39	21	4,751	24	2,637	
45H24 (RT)	—	—	36	27	8,049	22	2,441	
NEX 845CL (ST)	—	—	—	—	—	23	2,054	
45P70 (ST)	—	—	—	23	3,211	23	1,772	
9550 (RT)	35	—	25	24	1,228	16	1,146	
RUGBY (RT)	—	—	—	—	—	22	794	
PROVEN 9551 (RT)	—	—	—	23	760	5	708	
5108 (LT)	—	17	35	23	6,064	20	696	
45H73 (ST)	—	—	—	—	—	12	682	
SP BANNER (RT)	28	—	26	24	1,253	23	623	
71-45RR (RT)	—	—	—	29	5,865	17	570	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						23.2	86,745	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC BARRIE (RS)	51	26	36	39	18,338	28	19,016	
5602HR (RS)	—	—	47	48	2,427	28	15,724	
CDC FALCON (W)	72	—	71	63	6,856	52	11,354	
AC DOMAIN (RS)	51	32	39	39	5,174	24	7,666	
5601HR (RS)	43	42	35	34	3,531	17	2,513	
SUPERB (RS)	56	30	51	33	1,249	23	2,174	
CDC GO (RS)	—	—	—	—	—	30	2,074	
MCKENZIE (RS)	52	40	36	38	1,124	26	1,930	
CDC IMAGINE (RS)	—	—	40	34	965	24	1,585	
AC CADILLAC (RS)	45	—	39	45	761	38	1,120	
HARVEST (RS)	—	—	—	—	—	31	849	
ALSEN (F)	55	32	46	46	2,716	30	545	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						30.8	69,712	

OAT YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
PINNACLE	106	71	90	97	17,157	52	12,699	
CDC DANCER	—	—	—	96	1,662	101	1,255	
RONALD	129	76	88	86	1,834	52	1,184	
AC ASSINIBOIA	92	73	55	59	1,284	48	1,145	
FURLONG	—	—	—	—	—	31	817	
SW BETANIA	—	—	—	—	—	59	568	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						52.8	19,678	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CONLON	77	33	54	54	9,552	28	5,084	
NEWDAL	—	28	63	57	2,769	35	3,779	
AC RANGER	80	36	57	55	4,792	22	2,158	
AC METCALFE	74	51	64	60	1,175	34	1,987	
ROBUST	68	29	40	50	3,264	19	1,683	
TRADITION	—	—	—	—	—	43	1,421	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						29.4	19,701	

SOYBEAN YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
LS 0036RR (RT)	—	—	—	—	—	17	778	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						17.4	1,351	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
HANLEY	—	16	12	17	1,781	17	2,696	
NORLIN	26	16	15	—	—	7	891	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						12.7	5,411	

FIELD PEA YIELDS BY VARIETY 2004–2008†							RISK AREA 15	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
CUTLASS	—	—	—	36	1,112	6	929	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						9.3	1,667	

RISK AREA 16

CANOLA YIELDS BY VARIETY 2004–2008†							RISK AREA 16	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
5020 (LT)	32	27	35	18	8,704	40	6,799	
1143 (LT)	—	—	—	—	—	40	2,012	
8440 (LT)	—	—	—	—	—	42	1,727	
9590 (LT)	—	—	—	—	—	40	1,215	
5440 (LT)	—	—	—	—	—	39	1,016	
SP DESIRABLE RR (RT)	—	—	—	—	—	34	701	
45H73 (ST)	—	—	—	—	—	44	575	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.6	22,918	

WHEAT YIELDS BY VARIETY 2004–2008†							RISK AREA 16	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
HARVEST (RS)	—	41	44	25	7,392	53	8,990	
AC DOMAIN (RS)	39	30	43	27	1,507	51	4,485	
INFINITY (RS)	—	—	—	—	—	63	1,589	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						52.9	17,007	

BARLEY YIELDS BY VARIETY 2004–2008†							RISK AREA 16	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
TRADITION	—	—	—	—	—	79	830	
EXCEL	82	58	59	18	2,252	81	654	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						75.4	2,374	

FLAX YIELDS BY VARIETY 2004–2008†							RISK AREA 16	
Variety	2004 Yield	2005 Yield	2006 Yield	2007 Yield	2007 Acres	2008 Yield	2008‡ Acres	
AC WATSON	—	—	—	—	—	33	637	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						30.8	997	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
§ Weighted Average Yield and Total Acreage include acres not reported in the table.

‡ On system as of January 12, 2009;
* Assuming 48 lbs./bu.

Notice to grain producers

Know your seed

When you know which variety of wheat you seed this spring, you can deliver your crop with confidence this fall.

All registered varieties of western Canadian wheat belong to a specific class. Varieties and classes are recorded in the Canadian Grain Commission's variety designation lists. If your wheat is not on a list, it will be graded at the elevator as feed wheat or the lowest grade of amber durum.

Each year, you are required to sign a ***Declaration of Eligibility for the Class*** form at each licensed facility where you deliver. When you sign the form, you are declaring that your wheat qualifies for a particular class.

Remember, it is your responsibility to know which class your variety of wheat is eligible for.

How to be sure

Check the variety

If you are not sure which variety you are seeding, have it tested at a private lab.

Find out if the variety is listed

Check the variety designation lists on the Canadian Grain Commission's web site.

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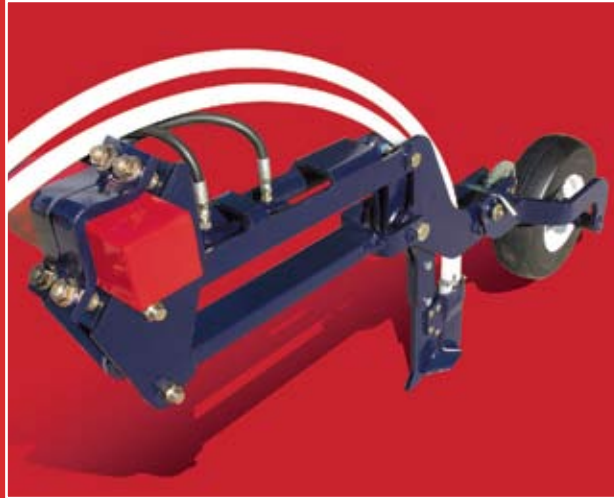
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