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A wet spring resulted in a record number of unseeded acres and a disappointing year for many. But there were exceptions.

2011 tough year for Manitoba grain farmers

by Allan Dawson, *Manitoba Co-operator* staff

2011 was a memorable year for Manitoba farmers — and most of those memories aren't good ones. Waterlogged fields at seeding time resulted in a record 3.1 million in unseeded acres and dropped province-wide yields to below the 10-year average.

But averages never tell the whole story, such as the bumper wheat and canola crops harvested in the RM of Shell River (Roblin area).

A new record-high provincial average yield for white pea beans was also set, bucking the trend for most other crops.

Above-average non-oil sunflower yields were also up from 2010. And while the average grain corn yield was down from the year before, it was above the 10-year average.

Still, for many Manitoba farmers 2011 was an unmitigated disaster. Almost a third of the acres normally planted to annual crops — didn't get seeded in 2011 because it was too wet.

Thousands more acres were "mudded in," "floated on" or seeded by airplane. It's no surprise most yields were down, Manitoba Agriculture Service Corporation (MASC) data shows.

Some of that data is in this issue of *Yield Manitoba*.

Even more is available on MASC's website under the Manitoba Management Plus Program (http://www.mmpp.commmpp.nsfmmpp_browser_variety.html).

(Data in this story are based on 99.9 per cent of yields reported to MASC. There could be small differences in the final numbers. Yields here are based only on seeded crops and don't include fields too wet to seed.)

Although it was a wet spring, ironically most of agro-Manitoba received slightly below-normal rainfall during the growing season as a whole, according to Manitoba Agriculture, Foods and Rural Initiative's (MAFRI) weather data.

But timing is everything. Many fields entered the spring already saturated by heavy rains the previous fall. Then, they were deluged with rain at planting time.

Later in the growing season, some farmers were praying for rain. Soybeans would've benefited from a good rain in mid-July.

2011 also saw more heat during the growing season than normal, which no doubt helped many longer-season crops.

Province-wide red spring (milling) wheat and canola yielded not badly at 39 bushels and 29 bushels an acre, respectively. Wheat and canola yields were down five and nine per cent, from 2010 and below the 10-year average of 42 and 33 bushels an acre.

But in percentage terms, oats, flax, corn and soybean yields dropped even more compared to 2010. (See table.)

TABLE 1: 2011 AVERAGE YIELDS FOR SELECTED MANITOBA CROPS

Crop	2011 yield bushels/acre	2010 yield bushels/acre	% change	10-year average	% change	New record yield 2011?	Old record yield	Year
Red spring wheat	39	41	-5	42	-7	no	51	2009
Winter wheat	56	63	-11	63	-11	no	71	2008
Argentine canola	29	32	-9	33	-12	no	43	2009
Oats	67	78	-14	85	-21	no	101	2008
Flax	16	18	-11	20	-20	no	28	2009
Grain corn	94	107	-12	89	6	no	118	2007
Soybeans	26	32	-19	29	-10	no	37	2007
White pea	1866	1439	30	1,348	38	yes	1,762	2006
Beans	1,866 lbs./a.	1,439 lbs./a.	30	1,348	38	yes	1,762	2006
Non-oil sunflowers	1,566 lbs./a.	1,195 lbs./a.	31	1,298	21	no	1,927	2006

SOURCE: MASC, MANAGEMENT PLUS AND NECESSARY CALCULATIONS



Although Manitoba corn yields at 94 bushels an acre were down 12 per cent from 2010, they were still above the 10-year average of 89.

It was a good year for non-oil sunflowers, which averaged 1,566 pounds an acre — well above the 2010 and 10-year average yields of 1,195 and 1,206 pounds.

The warm, dry finish to the summer and fall reduced disease problems, boosting yields. The only negative was there were so few acres planted in the first place. Management Plus says there were just 20,000 acres of non-oil sunflowers harvested in 2011, versus 117,000 in 2010 and the 10-year average of 130,000.

New record

White pea bean yields set a new record of 1,866 pounds an acre, up from 1,762 pounds set in 2006. However, only 19,000 acres of white pea beans were harvested in 2011, down from 49,000 acres in 2010 and the 10-year average of 80,000. Smaller acres can skew yield results to the good or the bad.

Dennis Lange, MAFRI's pulse crop specialist, said last year white pea beans were seeded on some of the better, well-drained land. Drier conditions later kept the disease pressure down.

The highest average yield by municipality was a whopping 2,201 pounds an acre in the RM of South Norfolk (Treherne area). But there were wrecks as well. White pea beans averaged a disappointing 896 pounds an acre not far away in the RM of Thompson (Miami area), but that was based on just 653 acres.

Most Manitoba fields were saturated last spring, but the rural municipalities surrounding Lake Manitoba and those in western and southwestern Manitoba were the hardest hit. Ninety to 100 per cent of the fields in RMs around the lake — Alonsa, Siglunes, Eriksdale, Coldwell and St. Laurent — were too wet to seed, MASC data shows.

It was same in the RMs of Albert and Edward in the southwest corner of Manitoba. Oddly enough, neither of those RMs recorded the worst average wheat yield. In fact, red spring wheat averaged 30 bushels an acre in Edward, just one bushel under the 10-year average. However, what's shocking is just 842 acres of wheat were harvested by only five farmers. The 10-year average wheat acreage in Edward is 13,800 produced by 143 farmers.

The lowest average municipal wheat yield was 16 bushels an acre in the RM of Pipestone (Reston area), just north of Alberta.

But again the acreage was small — just under 5,200 — grown by only 25 farmers.

Unseeded

The small number of acres speaks to the millions of acres that went unseeded, producing zero bushels per acre, which are not reflected in average yields.

Walter Finlay, who farms in the RM of Glenwood (Souris area), is among the many farmers who didn't seed one acre in 2011 because it was too wet.

"You could go for I don't know how many miles out here and there wasn't an acre sowed," he said in an interview.

The 10-year average for harvested wheat acres in Glenwood is 26,000. In 2011 there were just 9,794 acres harvested by 19 farmers. The average yield was 22 bushels an acre versus the 10-year average of 42.

The RM of Pipestone also had the lowest average oat yields at 15 bushels an acre and the second-lowest canola yield at 12.

The RM of Sifton had the lowest average canola yield at just nine bushels an acre.

Continued on page 8

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As poor as yields were in some parts of Manitoba, there were a few municipalities where farmers harvested bumper crops. One was the RM of Shell River (Roblin area). For the second year in a row Shell River recorded the highest average wheat yield in Manitoba at an amazing 60 bushels an acre — the same as in 2010.

Shell River also had the highest average canola yield at 47 bushels an acre. That's also the same as in 2010 when the RM had the second-highest canola yield in Manitoba behind the RM of Louise's 53.

"We were wet in the spring, but not as wet as the rest of the province and the hills helped," Roblin-based MAFRI farm Production adviser Elizabeth Nernberg. "Later the tap seemed to turn off in July. You don't have to go far south or east and they couldn't get acres seeded."

Good farming

Some canola fields in the RM of Shell River averaged 60 bushels an acre, while some wheat yielded 65, she said.

And grades were good too. Ninety per cent of the wheat was either No. 1 or 2 and 95 per cent of canola went No. 1.

While Mother Nature and geography played a big role in achieving bumper crops two years in a row, Nernberg also credits the farmers in the municipality.

"There's a pretty proactive group in this area," she said.

Soybeans, which have earned a well-deserved reputation for tolerating wet conditions compared to other crops, averaged 26 bushels an acre province-wide. That's down 10 per cent from the 10-year average, but 18 per cent or six bushels less than 2010. However, most of traditional soybean-growing areas averaged 30 bushels an acre up to 36 in the RM of Stanley (Modern area).

Even some of the less traditional areas recorded good soybeans yields including the RMs of Gimli and Dauphin with 31 bushels an acre and Ste. Rose at 30.

Soybean yields suffered in some of the traditional Red River Valley growing areas, including the RMs of Headingley, West St. Paul and St. Andrews at 16, 16 and 15 bushels an acre.

Manitoba flax averaged just 16 bushels an acre in 2011, two bushels an acre lower than 2010. Again, some parts of the Red River Valley were a bust, including the RM of Cartier (Elie area) where flax averaged just eight bushels an acre.

Nearby RM of MacDonald averaged nine bushels an acre.

But to the south and west flax in the RMs of Roland and Lorne averaged 26 bushels an acre, while the RM of Pembina had the best yield at 27.

TABLE 2: HIGHEST AND LOWEST YIELDS FOR SELECTED CROP BY RURAL MUNICIPALITY

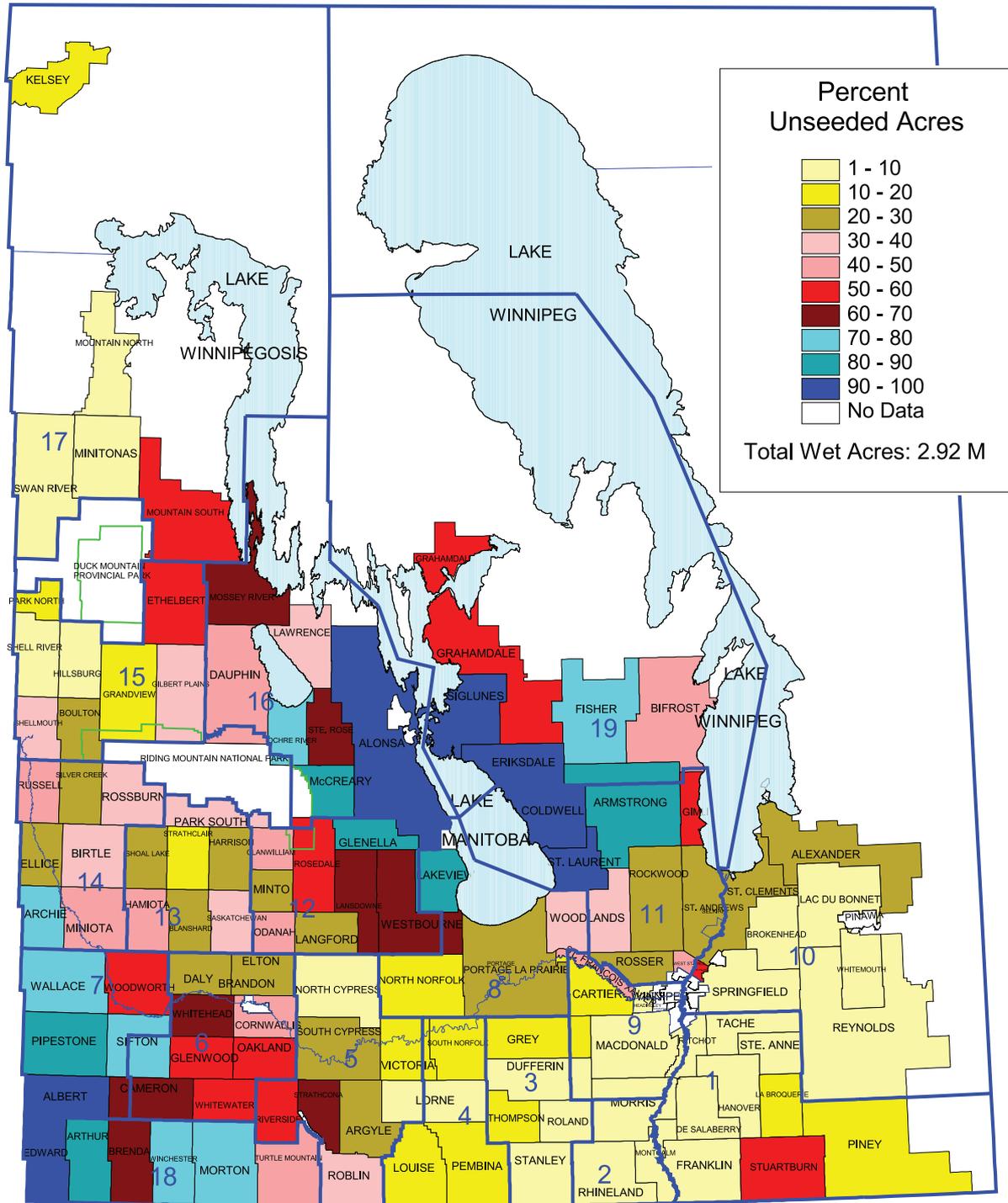
Crop	2011 yield bushels/acre	Where	Nearby town	Manitoba average	2011 Manitoba acres (millions)	2010 Manitoba acres (millions)	10-year average Manitoba acres
Hard Red spring wheat							
Highest:	60	RM of Shell River	Roblin	39	1.7	2.4	2.4
Lowest:	16	RM of Pipestone	Reston				
Canola							
Highest:	47	RM of Shell River	Roblin	29	2.6	3.2	2.4
Lowest:	15	RM of Sifton	Oak Lake				
Soybeans							
Highest:	36	RM of Stanley	Morden	26	0.581	0.516	0.24
Lowest:	15	RM of Argyle	Baldur				
Oats							
Highest:	102	RM of Silver Creek	Angusville	67	0.386	0.478	0.65
Lowest:	15	RM of Pipestone	Reston				
Grain Corn							
Highest:	113	RM of Stanley	Morden	94	0.172	0.165	0.15
Lowest:	14	RM of Westbourne	Gladstone				
Flax							
Highest:	27	RM of Pembina	Manitou	16	0.075	0.157	0.3
Lowest:	8	RM of Cartier	Elie				
White Pea Beans lbs./a.							
Highest:	2,201	RM of South Norfolk	Treherne	1,866	0.019	0.049	0.08
Lowest:	896	RM of Thompson	Miami				
Non-oil Sunflowers lbs./a.							
Highest:	2,126	RM of North Norfolk	MacGregor	1,566	0.02	0.117	0.13
Lowest:	549	RM of Glenwood	Souris				
Winter Wheat							
Highest:	79	RM of Ste. Anne	Ste. Anne	56	0.174	0.19	0.26
Lowest:	22	RM of McCreary	McCreary				

SOURCE: MASC MANAGEMENT PLUS

Percent Unseeded Acres Due to Excess Moisture 2011



Relative to Total Insurable Acres - As of July 22, 2011



Created by: Janos Boda July of 2011

**DON'T
SQUEEZE
IT IN:**

The crop rotation break interval effect in Manitoba

by Doug Wilcox, *MASC*

Effective use of crop rotation is known to have a dramatic positive influence on the yields of many crops. One contribution to this rotation effect is that the provision of a break interval between different host crop types allows time for the decline in carry-over problem biological organisms (e.g. disease pathogens, weeds, soil micro-organisms) during the interval when unrelated crops are grown.

In theory, the longer the break interval is, the greater the reduction should be in the population of problem biological organisms, leading to improved yields.

Squeezing crops

Surveys show that the most important factors used by farmers to establish what crop to grow are not crop rotation sequence considerations but instead, the current anticipated commodity price and herbicide history.

Farmers pursuing the best short-term revenue potential are increasingly willing to take the risk of a minor yield penalty or

resort to technology, such as fungicides, to make up for their decision to squeeze crop intervals.

There is very little published information on the actual on-farm impact of various crop rotation break intervals on actual average yields of various crops.

Fortunately, as the production insurance provider in the province, Manitoba Agricultural Services Corporation (MASC) has annually been collecting information from its clients on what crops are planted on each insured field and their annual yields.

MASC has been collecting client information for decades and the acreage of crops insured by MASC in most years is over 85 per cent of all annual crop acres grown in Manitoba, making the database very representative and useful. This database has been analyzed to provide insight into how various crop rotation break intervals influence the actual field yields of crops grown in Manitoba.

Summary results in this article are based on MASC database field histories from fields 120 acres or larger tracked over the 11 years between 2000 to 2010. Analysis was limited to larger fields as MASC does not track field positions within quarter sections.

The frequency of occurrence and yields from nine crops (red spring wheat, canola, corn, barley, oat, field pea, soybean, flax, and non-oil sunflower) were tracked in relation to the break intervals between plantings of the same crop.

There were five crop break intervals categories studied: zero break (no break interval), one-year break, two-year break, three-year break, and a four-year (and greater) break. Note that field history was tracked, not individual farmer history; if two different farmers grew the same crop on the same field with a two-year break that was considered a two-year break interval result.

Common break intervals

Figure 1 illustrates which crops Manitoba producers tend to be squeezing rotations on, and which crops they don't. This data is also a benchmark record of what break intervals farmers in Manitoba have been using over the past decade.

Of the intervals studied, there were several crops which had greater than 50 per cent of fields planted on fields not in that crop for at least four years between plantings. The crops were flax (67 per cent), non-oil sunflower (79 per cent), oat (57 per cent), field pea (72 per cent) and soybean (66 per cent). For these crops, it appears that most Manitoba farmers recognize that a multi-year crop rotation break interval is important.

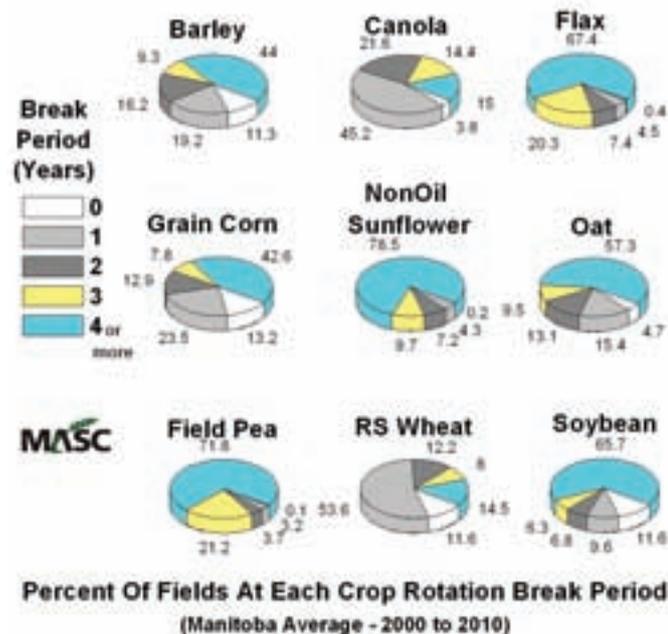


Figure 1. Pie charts illustrating the average percentage of fields sown at five crop rotation break intervals for nine major crops in Manitoba over the interval 2000 to 2010 from the MASC database.

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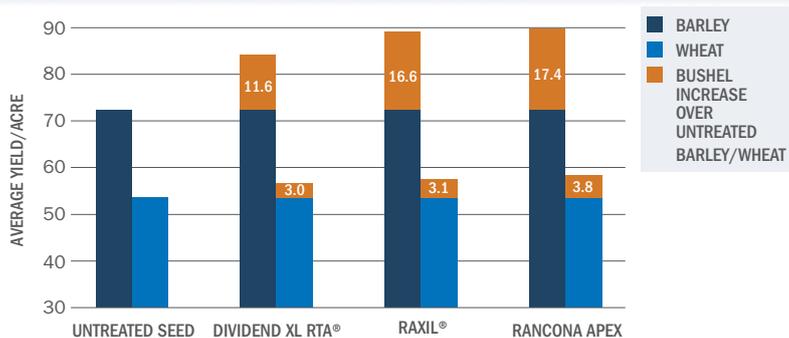
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² Tests conducted in Alberta (N=4), Montana (N=1), Manitoba (N=2) and North Dakota (N=2). Average of 9 trials. Raxil T was formulation of Raxil used in trials.

³ Tests conducted in Alberta (N=5), Montana (N=5), Manitoba (N=2) and North Dakota (N=3). Average of 15 trials. Raxil MD was formulation of Raxil used in trials.

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Figure 1 also illustrates that there were crops which had evidence of tight rotations. If a tight rotation crop is defined as any crop in which a zero-break interval occurs on more than 10 per cent of fields, then the tight rotation crops include barley (11 per cent), grain corn (13 per cent), red spring wheat (12 per cent) and soybean (12 per cent). Additionally, roughly half the fields in Manitoba are planted after a one-year break in canola (45 per cent) and red spring wheat (54 per cent). Clearly, for these crops, farmers are indicating their desire to squeeze rotation break intervals to a minimum.

Break interval influences yield

Figure 2 illustrates the relationship between crop-on-crop break interval and relative yield. The nine crops studied seem to fall into three categories. For the purposes of discussion I have labelled these categories – “textbook,” “almost-textbook,” and “asymmetric.”

The first crop category consists of crops showing a “textbook” response to crop rotation break intervals, where crop average yields continuously increase over the entire range of break intervals plotted.

Figure 2 illustrates that the crops in the textbook response category are flax, field peas and oats. To give a measure of the magnitude of yield difference between the break intervals for these three crops, the actual yield difference between these textbook crops at the zero break interval and the four- or more-year-break interval is six bu./ac. for flax, eight bu./ac. for field peas, and 18 bu./ac. for oats.

Clearly, the rotation effect is happening with these crops. These results justify the decision of the majority of Manitoba farmers to sow these “textbook” crops on fields with a four-year or greater break interval between the same crop (Figure 1).

The second crop category consists of crops showing an “almost-textbook” response to crop rotation break intervals, where the crop average yields generally increase continuously over the entire range of the plotted break intervals.

Figure 2 illustrates that the crops in the almost-textbook response category are barley, grain corn, canola and red spring wheat. To measure the magnitude of yield difference between the break intervals for these four crops, the actual yield difference between these textbook crops at the zero-break period and the three-year break interval is nine bu./ac. for barley, 19 bu./ac. for grain corn, five bu./ac. for canola and six bu./ac. for red spring wheat.

The rotation effect observed in the almost-textbook crops is not as clean of a trend as the textbook crops. In particular, there seems to be a decline in yields for these crops when the break interval is four or more years. These results illustrate why most Manitoba farmers elect to sow these “almost-textbook” crops on fields with less than a four-year break interval between the same crop (Figure 1).

The reasons for the yield decline in the four-year and greater break interval in the “almost-textbook” crops have not been determined. One could speculate that the decline could be due to natural data variability or confounding unidentified variables. Perhaps if farmers are choosing to grow these crops infrequently on these fields, that these fields are less suitable for those crops, or that the farmer has less experience or interest in those crops and in turn they put less management into those crops. Any explanation is speculative at this time as no analysis has been done.

Break interval effect not consistent

The third crop category consists of crops showing an “asymmetric” response to crop rotation break intervals, where the crop average yields bounce around over the entire range of break intervals plotted.

Figure 2 illustrates that the crops in the asymmetric response category are non-oil sunflowers and soybeans. Although the yields vary for the two asymmetric crops, they both have their highest yields when the break interval is three years between the same crop.

There is a slight positive response in non-oil sunflowers for the zero-break interval, though that response could be an artifact of relatively few acres being planted in that category over the intervals studied (Figure 1). With soybeans, there is a slight yield decline at the four-year and greater interval, which could be potentially due to the same speculative reasons as the “almost-textbook” crops described previously. Overall, with the exception of the two asymmetric crops, a zero-break interval between crops always yielded inferior than a longer break period.

Even the textbook crops do not exhibit a textbook response in all years. Flax is

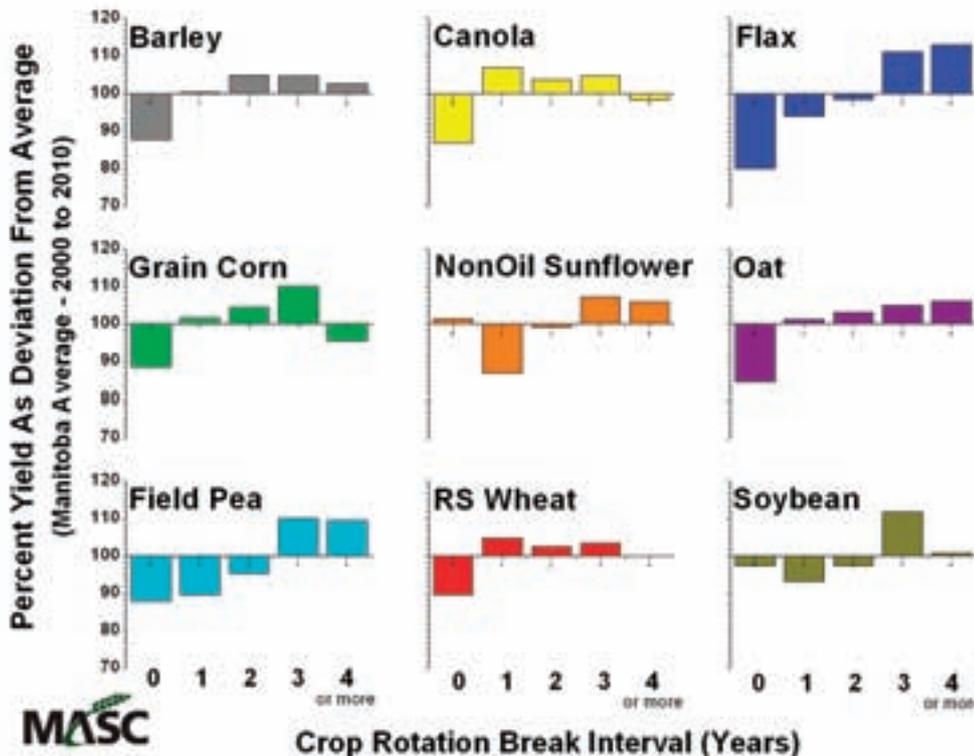


Figure 2. Average relative yield (per cent) deviation charts for nine major crops sown in five crop rotation break intervals in Manitoba over the interval 2000 to 2010 from the MASC database.



... most Manitoba farmers recognize that a multi-year crop rotation break interval is important

one of the best examples of a textbook crop (Figure 2).

Figure 3 illustrates that when the flax yield response is broken out year by year, the textbook-break interval response varies depending on the year. In fact, for flax in 2004, the break interval trend is in the opposite direction to the 11-year average trend, with the zero-break interval flax crops having the highest yields.

Although not presented in this article, this kind of year-to-year variation was observed in all the crops studied.

Manitoba farmers are faced with the challenge of using these MASC database summaries to help with reviewing their own crop break interval options.

MASC records demonstrate that for many Manitoba crops, there is a positive yield response trend that is associated with increasing break intervals, although this can vary by crop, break interval, and year. For most crops, the potential average yield advantage alone should make it desirable for farmers to give consideration to extending crop rotation break intervals.

However, it also needs to be recognized that relative yield differences should only be one of the considerations in any field break interval selection decision. Other considerations should be the potential differences in fertility improvements, weed and disease control issues, and cash flow variability. These other considerations may justify extending crop rotation break intervals even if yield benefits are not present.

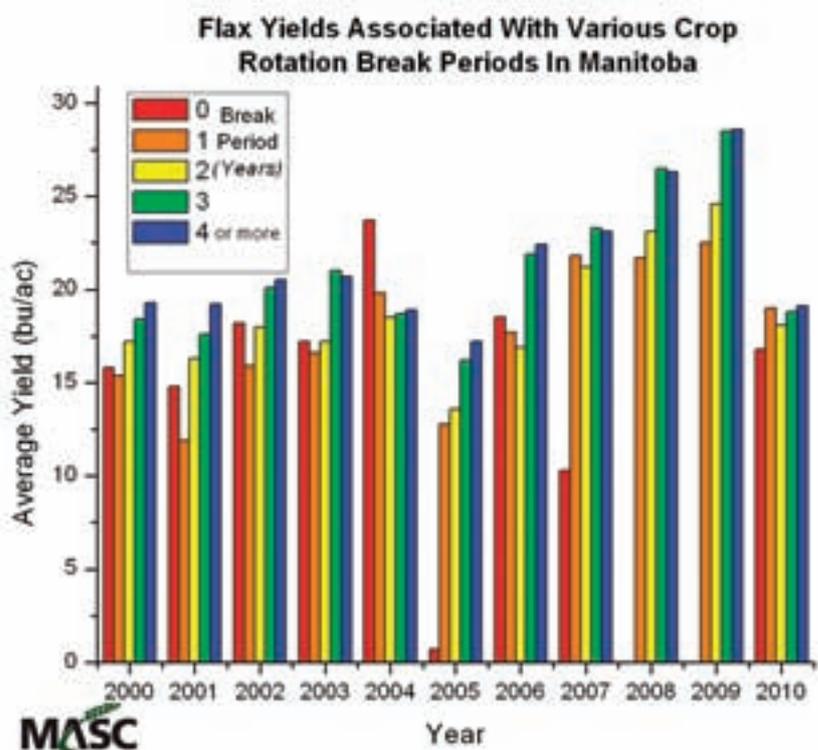


Figure 3. Average annual yields (bu./ac.) of flax associated with five crop rotation break intervals in Manitoba over the period 2000 to 2010 from the MASC database.

Fifty years ago, there were 30 adjusters dealing with four crop types. Today there are 150 dealing with claims on 60 crops.

Half a century of training crop insurance adjusters

by Doug Wilcox, MASC

One of the longest-running agricultural education systems in Manitoba is generally unknown. For over 50 years, Manitoba Agricultural Services Corporation (MASC) has been training crop insurance adjusters through a combination of in-house and local training. In 50 years, MASC has built a Manitoba adjusting alumni of more than 1,000 and the alumni numbers continue to grow.

The “School Of Crop Insurance”

Crop adjusters need to know how to do their important job, but with no schools to teach them, MASC relies on in-house adjuster training, with a combination of classroom instruction and hands-on sessions in the field. Additionally, standardized documented procedures, in combination with individualized mentorship, are relied upon to build on the formal instruction.

Crop adjusting is a profession, and the hallmark of professionalism is continuous learning. Even seasoned adjusters attend annual update sessions to review existing and new procedures. Crop adjuster training also creates the opportunity for staff advancement, leading to less job stagnation for those serious about a career in crop adjusting. Training events are always very well attended and receive high marks for the quality of training provided.

Who are adjusters?

Many adjusters are retired or semi-retired farmers, but the workforce also includes active farmers looking for off-farm income and retired and semi-retired professionals looking to keep active and employed in rural Manitoba.

No specific academic background is required. A crop insurance adjuster will be trained by MASC to have a thorough understanding of adjusting practices, standards and procedures. Working directly with agricultural producers and associated industries, adjusters are responsible for completing field inspections, reading maps and aerial photos, measuring fields and storage bins, and assessing damage or loss, all in accordance with established policies and procedures.

Adjusters require a high degree of thoroughness and accuracy to complete detailed claim or inspection forms and measure

Although there is still paperwork involved, a laptop, handheld GPS, orthophotos, and cellphone are all a standard part of the modern crop adjuster’s tool kit.

grain bins and fields. Unlike 50 years ago where claims were done entirely on paper and field measurements were done using a wheel, adjusters are now required to understand and use technology. Although there is still paperwork involved, a laptop, hand-held GPS, orthophotos, and cellphone are all a standard part of the modern crop adjuster’s tool kit.

Not just a summer job

A career as an MASC adjuster offers not only an income but job flexibility, exercise in a variety of activities and locations, and the opportunity to be part of a team helping the farm community. These are the aspects of the job that appeal to adjusters.

Crop-adjusting work is mainly part time. MASC adjusters generally decide for themselves how much work they take on, and they set their own hours. Work opportunities are not just during the growing season, but also over the winter months. However, crop-adjusting work is not for the unmotivated; not only are there deadlines to meet, but adjusters are required to climb bins, walk through crops on rough terrain and work in various weather conditions at all times of the year. Adjusters are trained professionals who must be highly motivated with a good work ethic and good people skills.

Continued on page 16

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Continued from page 14

Fifty years ago, 30 adjusters were trained to be on call to handle the weather loss claims on only four crop types sown on roughly 0.5 million acres. Currently, 150 adjusters are on call to handle the claims for 60 crop types on roughly 10 million acres.

Times change

Unlike in the early years when crop-adjusting training was limited to knowledge of all-risk loss assessment on four crops, today's adjusters are trained to work on a wide diversity of crops and other programs. For example, MASC currently trains adjusters to adjust new crops like hemp, wildlife losses including predator claims, and to support other specialty programs including third-party inspection services.

Since 1960, MASC-trained adjusters have been making a difference when disaster strikes. Crop adjusters were in the field during the Manitoba drought years of 1961, 1980 and 1988, and during the excess moisture problem years of 2005 and 2011. During those years and many others, MASC-trained adjusters have made a real difference by handling

claims and helping individuals and rural communities move faster towards recovery.

Since the advent of crop insurance in Manitoba, over \$2.6 billion in crop insurance payments have been paid to farmers and MASC-trained crop adjusters were on the front lines of determining all these payments.

A testament to the quality of adjuster training is that in high-claim years, other provinces have used MASC adjusters to assist with claims in their province (e.g. Saskatchewan in 1995, Alberta in 2006 and 2008) and an MASC trainer was contracted in 2010 to train crop adjusters in the Ukraine.

Striving for excellence

Adjusters have to service programs with integrity and fairness, and be proactive in addressing issues of program abuse and neglect. By creating a pool of well-trained adjusters, MASC has ensured that its programs have been delivered in a way that is both effective and fair and addresses the rare instances of abuse and neglect. Into the future, MASC plans to continue to match its historical record of excellence in its adjuster training. With that training, Manitoba crop adjusters will continue to do their important but often undervalued work, to the benefit of both the farm community and society at large.

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Twenty-five years after weed resistance was found, it's become clear that one man set the tone for one of the most effective management plans ever

Winning over weed resistance requires a nimble response

by Gord Gilmour, FBC staff

Next year marks a dubious milestone in Manitoba fields — the 2013 crop marks 25 years since herbicide-resistant weeds were confirmed in the province. The issue first cropped up in 1988 when troubling reports emerged from southwestern Manitoba about green foxtail not responding to trifluralin after years of successful control.

Something had changed and weed specialists looking into the problem had a nagging feeling these complaints about product failure didn't fall under the "too wet, too dry, too hot, too cold" category.

"There was one case slightly earlier — a Group 2-resistant kochia at a Hydro site — but that really flew under the radar," says Bruce Murray, a former provincial weeds specialist and now a lead agronomist with the seed company DEKALB. "It was the trifluralin-resistant green foxtail that really brought this problem into focus."

Key player

Murray was one of a group of young weed scientists who were working at the time alongside a legendary figure in the world of Prairie weed scientists, the late Ian Morrison.

Many credit Morrison's early work in this area for preventing a bad situation from becoming worse.

Agriculture consultant Mark Goodwin, who was another research associate of Morrison's at the time, says there's little doubt that without Morrison's contribution, things would have played out much differently.

"He turned his entire research program on a dime and put all his energy into this new problem," Goodwin says. "I think it really was his greatest professional achievement."

The concept of weed resistance was nothing new, Goodwin notes. In fact it was something every student of the field had studied. The first case was atrazine resistance, found in the U.S. in 1968.

"We'd all read about it in textbooks and seen examples of it in weed research," Goodwin says. "It was common knowledge that this could happen — but it was thought to be a rarity. Now we were actually seeing it."

Regardless of the scientific basis for the claim of weed resistance, and Morrison's own lab work that proved it, the news wasn't exactly welcomed by the industry.

Hugh Beckie, the first of Morrison's PhD students to complete a thesis on weed resistance, is now a professor of weed science at the University of Saskatchewan.

"The company that was marketing trifluralin at the time was quite upset," Beckie recalls. "They questioned Dr. Morrison's findings, though they did eventually have to accept them."

Weathering the critics

He says a less well-respected researcher may not have been able to weather this early criticism, and the fact that Morrison did stick to his guns was crucial in ensuring a rapid and effective response to the issue.

In 1990, however, the situation went from bad to worse, Goodwin says.

It all began when he and a transplanted Australian weed scientist, Ian Heap, were about to leave from a field day in Portage la Prairie to another appointment in Brandon, and Goodwin's boss called.

By then he'd moved on to the provincial Agriculture Department and his boss had another troubling report — it seemed that a Group 4-resistant wild oat population had been found in the Swan River Valley. They hopped in the truck and headed northwest.

"I think Ian thought it was sort of on the way," Goodwin recalls with a chuckle. "It was really quite a coincidence that he was with me at the time, because he'd seen this all before in Australia, and he was the one who said, 'You've got a real problem here.'"

From bad to worse

Resistant green foxtail was bad news, but manageable. New chemistry was already on the market that took care of the problem in a single application.

Resistant wild oats were much more problematic.

Wild oats is a widely dispersed weed in the Prairie region, there are only three chemical groups that are effective at removing it from cereal crops and losing just one of them from the arsenal put that much more selection pressure on the remaining crop protection products.



The late Ian Morrison was a key figure in showing farmers how to respond to herbicide-resistant weeds.



It became clear that a new solution that didn't rely solely on chemicals was going to be the order of the day. Again his former students say that Morrison became the key player in this new game.

Extension message

The key to designing an effective response would be getting farmers in the province to understand the seriousness of their problem and their role in prevention.

It called for, in essence, a good old-fashioned extension effort, says Hugh Beckie — a natural fit for Morrison.

“Dr. Morrison was known as a very good communicator and a lively speaker,” Beckie says. “He went out and did a lot of talks, telling producers about this new phenomenon and the steps they should be taking to manage it and to be proactive.”

One of the most remarkable things about this message is how little it has varied over the years from the original one crafted by Morrison. Beckie admits that someone who heard one of the original talks and then sat through his own presentation at the recent Manitoba Agronomy Conference wouldn't have seen a dramatic difference.

“We've really been saying the same thing over and over again many times, with just a bit of fine tuning,” Beckie says. “You need to have diversity in your crop rotation and diversity in your herbicide rotation.”

Another remarkable thing is that one of the central tools in the resistance fight was developed on Morrison's watch, when he worked with Ian Heap, the transplanted Australian, to design a Canadian version of the now standard herbicide grouping model that had been used successfully in Australia.

Heap is now a weed resistance researcher running his own company, as well as the respected weed resistance information clearing house weedsience.org.

“I did the first one in an afternoon in my office at the university — and if memory serves me correctly I actually got one of the chemicals wrong,” he says with a chuckle. “I think it's a system that's served Western Canada well, and it's even been adopted here in the U.S.”

Heap has perhaps the best view in the world of how various jurisdictions around the globe are grappling with the issue of weed resistance. He says the western Canadian model, which all started at the University of Manitoba's Fort Garry campus, is one of the best he's seen.

“I think it's something that everyone who worked on this can be very proud of,” he says. “Everyone worked together, from the university to the provincial and federal Agriculture Departments. That co-ordinated effort really worked.”

Don't wait until you have a problem

Weed scientist Hugh Beckie says there's one reason he's not entirely optimistic about the future of weed resistance in Western Canada — the inertia that many farmers display when it comes to their cropping and herbicide rotations.

“People don't make changes until they've already got a problem, and by then it's too late,” he says.

The development of weed resistance is a straight-up numbers game — a population of weeds is repeatedly exposed to a single mode of herbicide action. With repeated applications, the weeds that are vulnerable to that herbicide are removed from the population in the field, leaving only those members of the population which are naturally resistant to the active ingredient. It starts with only one or two, but over time, they flourish to become the dominant population and that's when the problem becomes apparent to the farmer.

Rotating herbicide groups keeps the weeds off balance and prevents this natural adaptation through selection pressure. Likewise changing crop rotations will alter the weed populations and prevent them from finding niches to fill.

No relief in sight

One thing farmers shouldn't be expecting is any silver bullets in their fight against weed resistance.

Weed scientist Hugh Beckie says there hasn't been a major new mode of action in more than 20 years and that it doesn't look like anything is going to change that picture soon.

“They can't expect new herbicides to save them from this problem, and they can't just rely on glyphosate,” says Beckie.

In fact, a growing list of weeds worldwide have now become resistant to glyphosate, once thought infallible. Weed experts have only recently confirmed the existence of glyphosate-resistant kochia in Alberta.

Another weed resistance specialist says glyphosate-tolerant crops have both aided farmers in their weed resistance fight and at the same time compounded the problem.

Ian Heap of weedsience.org says that glyphosate-tolerant crops have given growers another in-crop option to clean up powerful weeds — but at the same time they've also taken away the economic incentive to search for new products.

“When the first herbicide-tolerant crops were introduced in 1996, all the companies basically shut down their discovery programs — they just didn't see the value in the marketplace that justified continuing them,” he said.

Over the past couple of years, however, they've been fired back up — though both he and Beckie caution that results are still years away.

“There's at least a 10-year lag time,” Beckie says.

The 2011 weather story started in the fall of 2010

by Mike Wroblewski, weather specialist, MAFRI

Summarizing the impacts of the weather for the 2011 growing season cannot begin without addressing the conditions that prevailed during the fall of 2010.

Many regions received in excess of 200 mm (eight inches) of precipitation from August to November, at which time, winter abruptly descended. The winter of 2010-11 saw southern Saskatchewan receive in excess of 140 per cent of normal precipitation, loading up the already saturated Souris and Assiniboine watersheds.

The gradual warming experienced in late March through the end of April brought some optimism and even allowed a few producers to actually get on the land. The window was quickly closed for western regions as the end of April brought a spring snowstorm with very strong winds and cold temperatures, while east-central, Red River Valley (RRV) and eastern regions received mostly rain.

With flooding and successive rain events in the southwest, then the northwest regions, May and June were looking very bleak with close to three million acres left unseeded. The Red River Valley and eastern regions largely avoided the brunt of the end-of-April snow and that combined with near-normal precipitation for May and June to improve the outlook — even though seeding was late.

For most regions, July and August (see August precipitation map) were well below normal for precipitation as we experienced a relatively uneventful thunderstorm season.

Except for the occasional, fast-moving and sometimes severe thunderstorm, claims for hail damage were down significantly in 2011.

In the absence of an active thunderstorm season, many central and eastern regions were left without sufficient moisture when it was needed most.

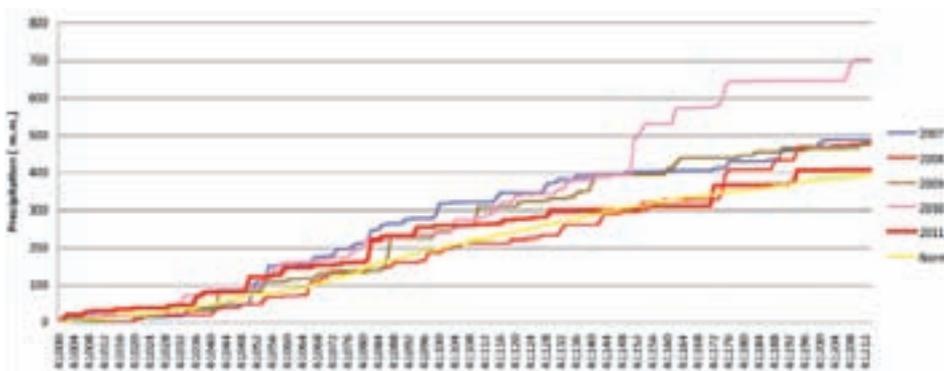
The accompanying graphs show the previous five years of precipitation from April 1 to Oct. 31 (with normal) for various locations throughout southern Manitoba. Besides the 2010 precipitation totals, what stands out on all of the graphed locations is the flatness of line for the July and August period this year (red line).

September and October continued with below-normal precipitation in most regions with very little until the end of September, by which time a few early frosts had already occurred. The maps summarize the growing season conditions for the period of May 15 to Sept. 15 for the southern Manitoba agricultural regions.

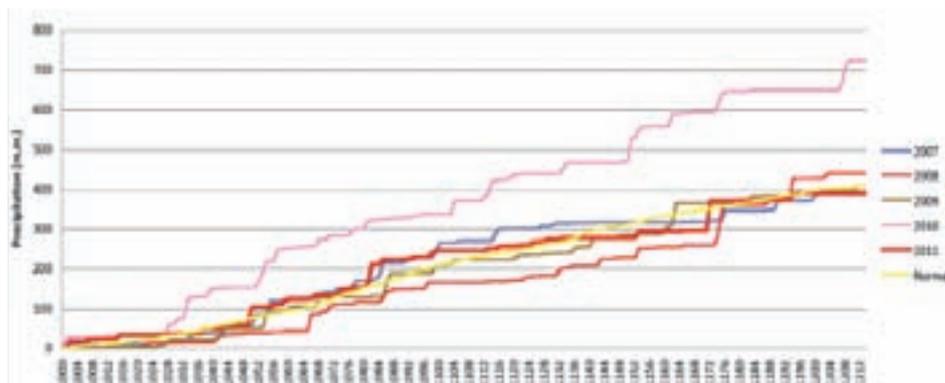
The lack of snow cover became an issue in November and December as most regions received below-normal snowfall — with many areas receiving below 40 per cent of normal for the period. The result has left many fields without a substantial snow cover or in some cases, no snow at all.

As of late January, an additional five to 10 cm would be a welcome sight for those producers who

Morris, MB



Winkler CMCDC



Continued from previous page

are monitoring the conditions for winter wheat, especially with warm events ending abruptly with sharp temperature drops as was experienced in the first week of January (+10 C down to -25 C in a few days).

As we roll into 2012 and January draws to a close, Environment Canada's long-range forecast for the period of Feb.-Mar.-April predicts warmer- and wetter-than-normal conditions on average for most of southern Manitoba, with the U.S. forecasting normal conditions during the same period.

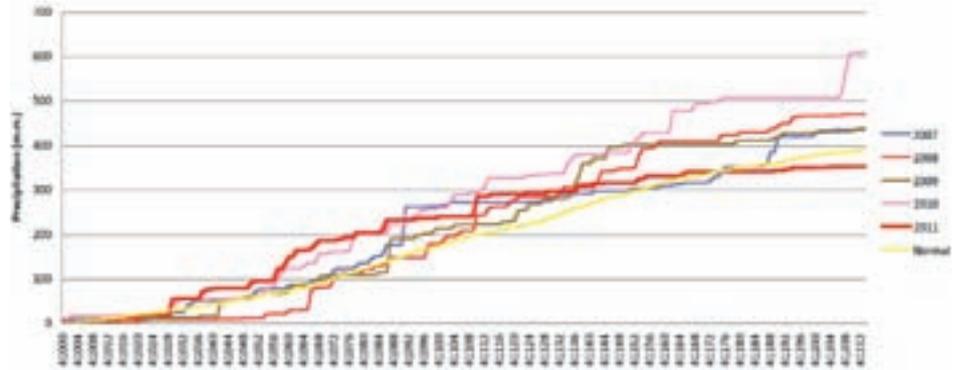
The effects of La Niña are forecast to persist into spring of this year which is expected to worsen the drought conditions on the American Gulf coast including the hardest hit; Texas.

The persistent dry conditions in Texas may have some impacts to our weather this spring and summer as southern Manitoba benefits from the warm and usually moisture-laden air from the Gulf of Mexico.

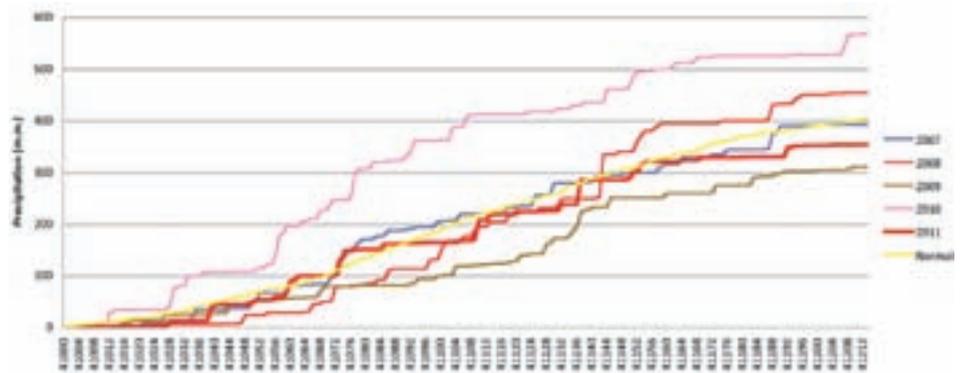
With a drier air mass, less moisture inevitably makes its way up to our region which could reduce the growing season moisture this year. As this is just one component of the global climate picture, we have little choice but to anticipate the variability that has become common for southern Manitoba in recent years.

The effects of La Niña are forecast to persist into spring of this year which is expected to worsen the drought conditions on the American Gulf coast including the hardest hit; Texas.

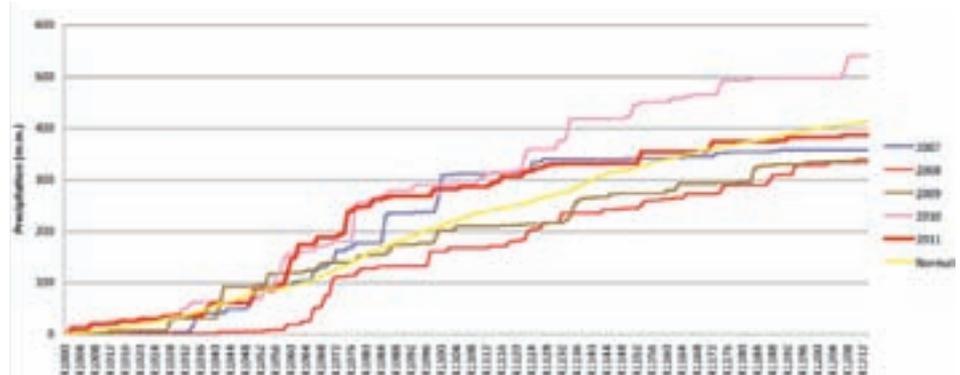
Arborg, MB



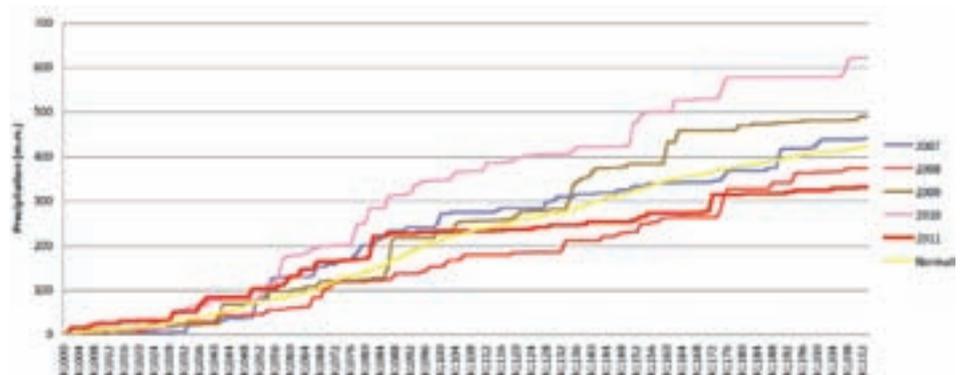
Grandview, MB



Killarney, MB



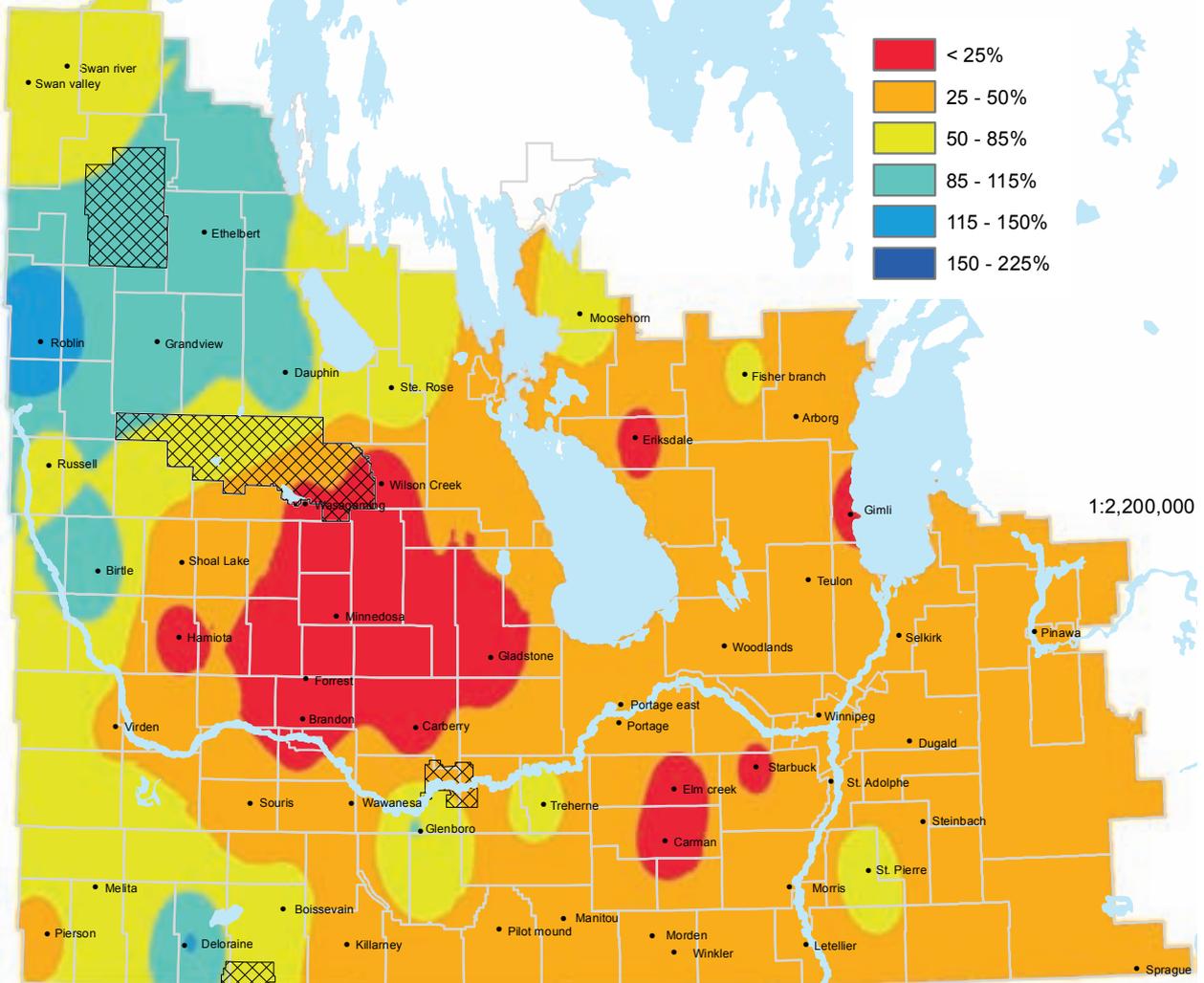
Steinbach, MB

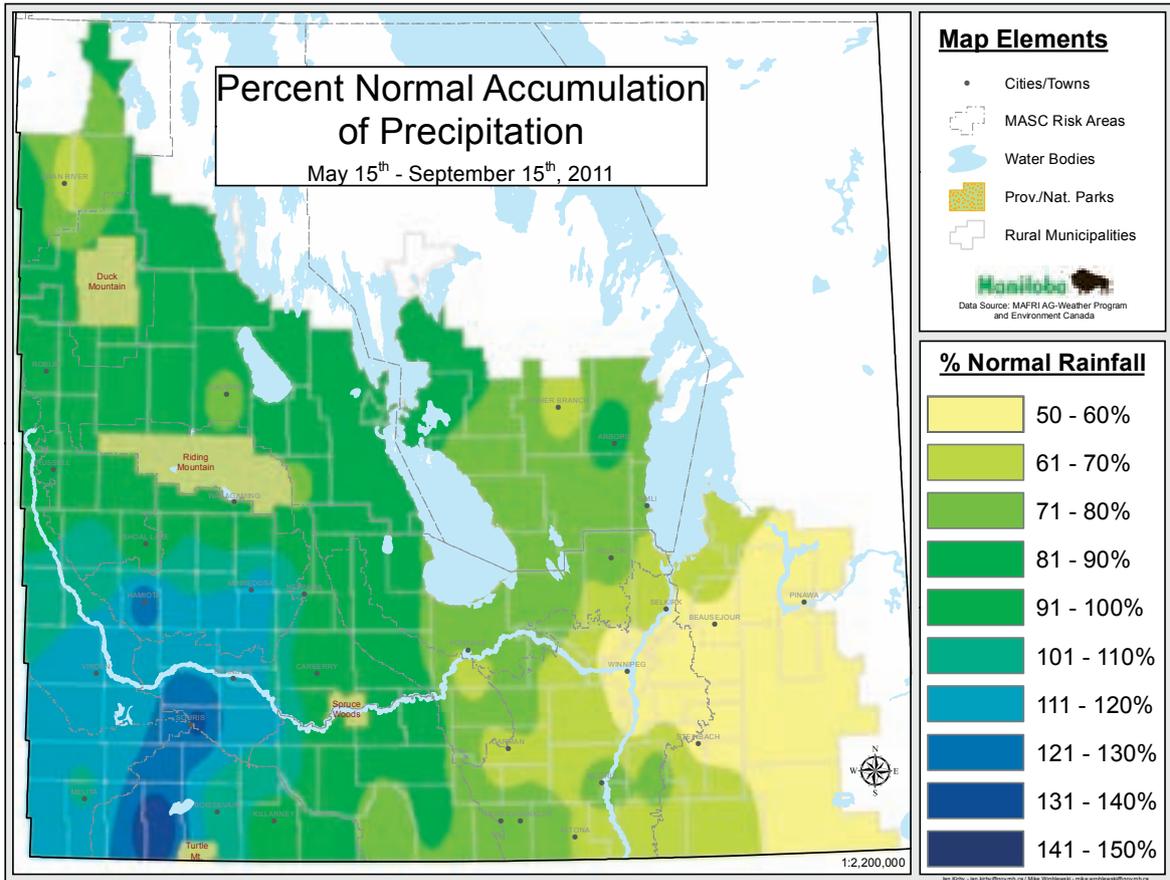


Percent Normal Rainfall

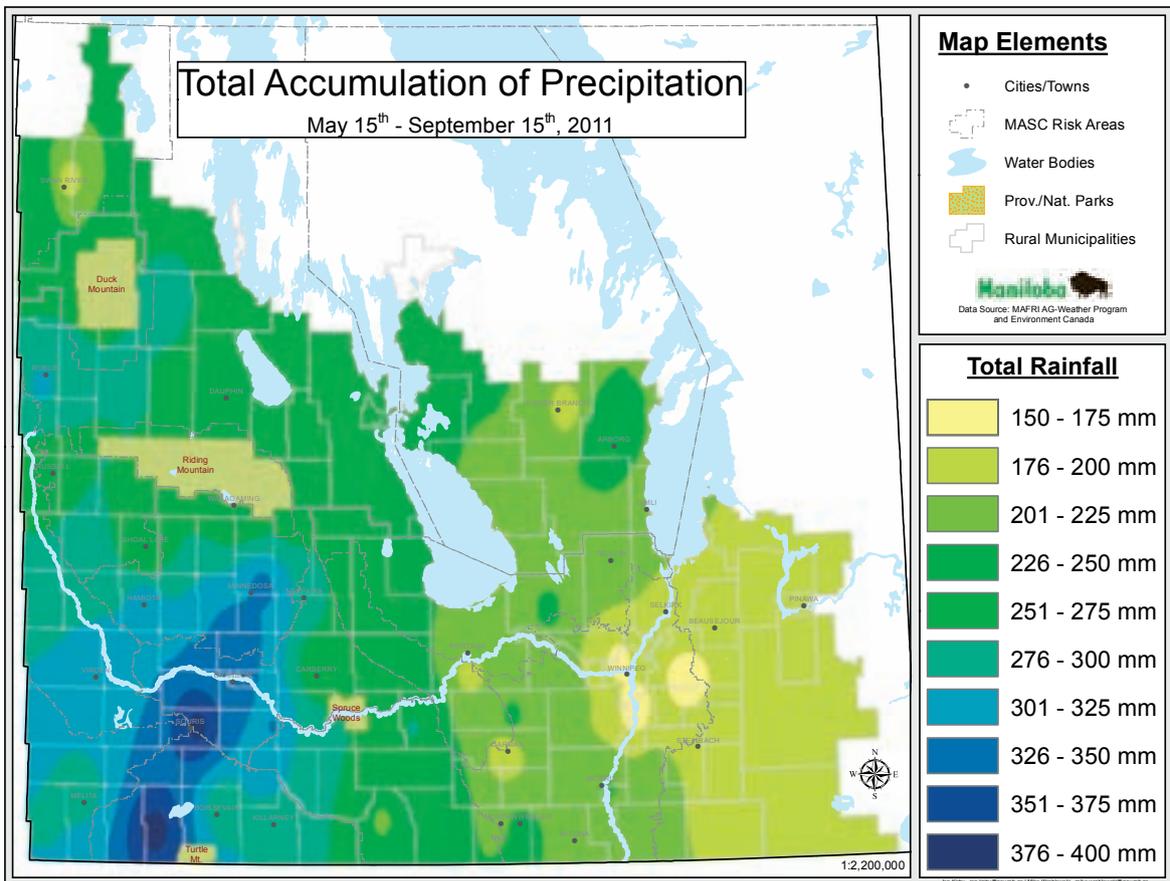
August 2011

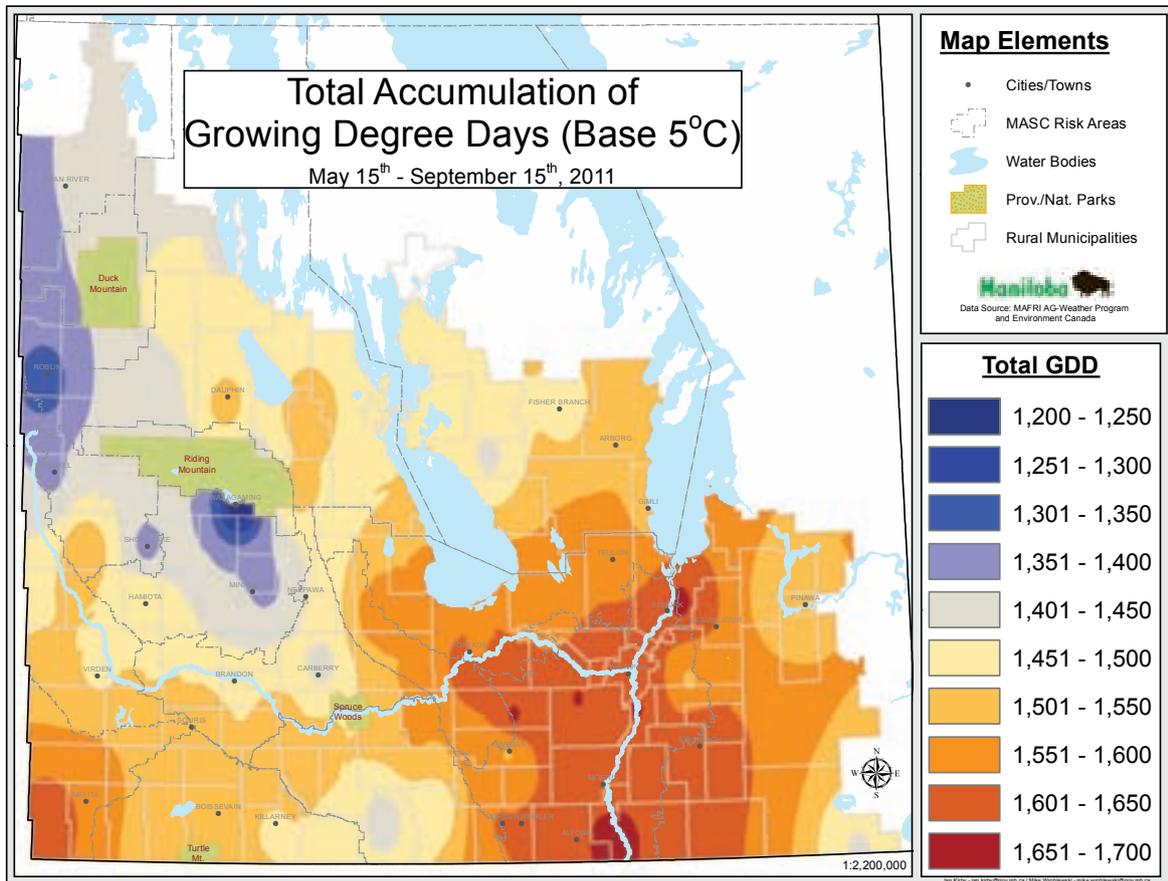
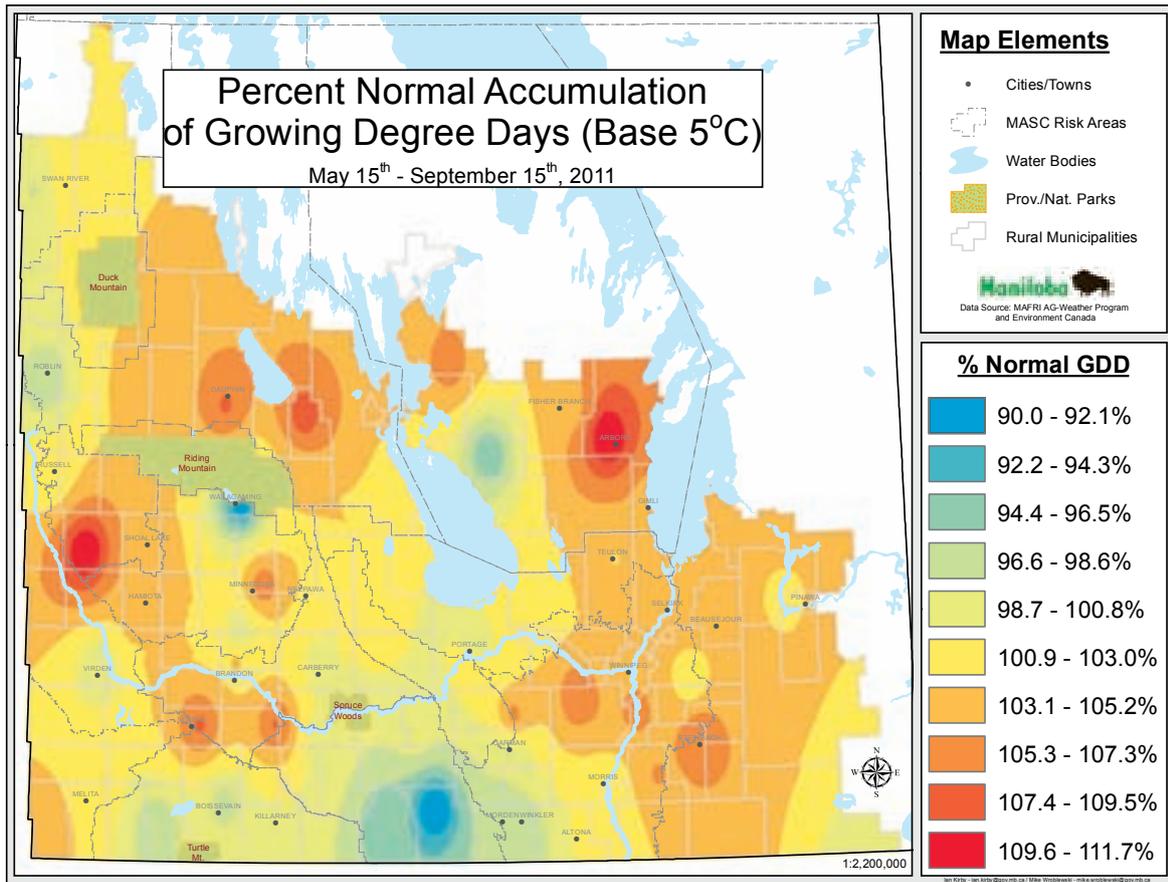
Based on rainfall recordings from Manitoba Agriculture,
Food and Rural Initiatives AG-Weather Program
and Environment Canada

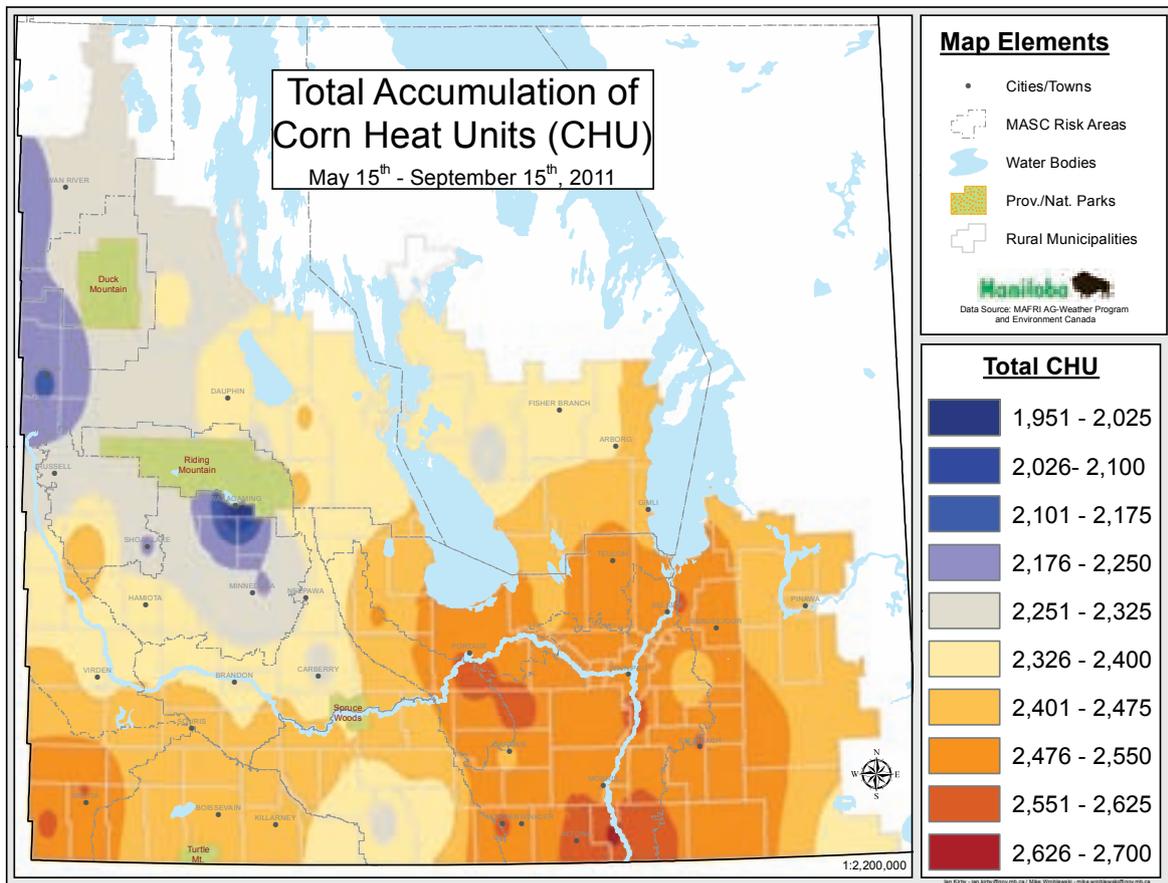
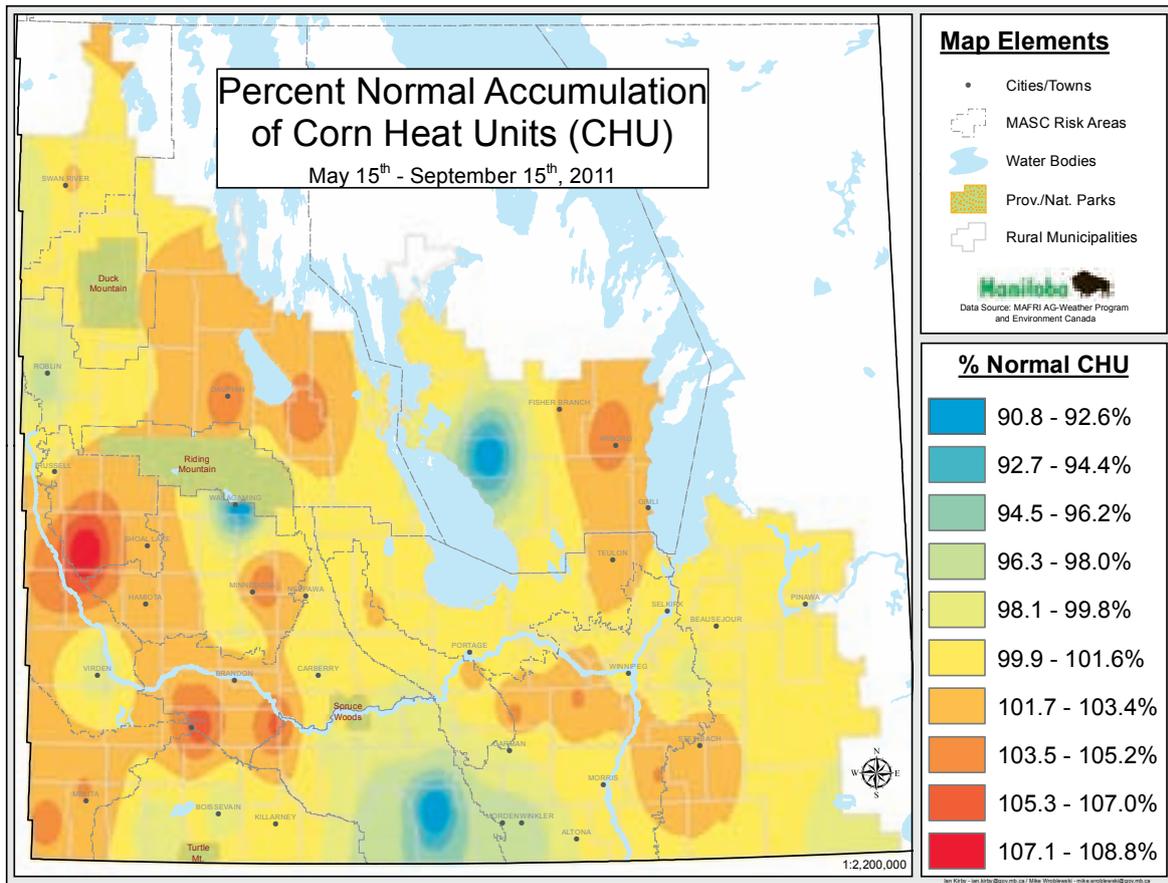




Normals depicted are based on Environment Canada climate data from 1971-2000







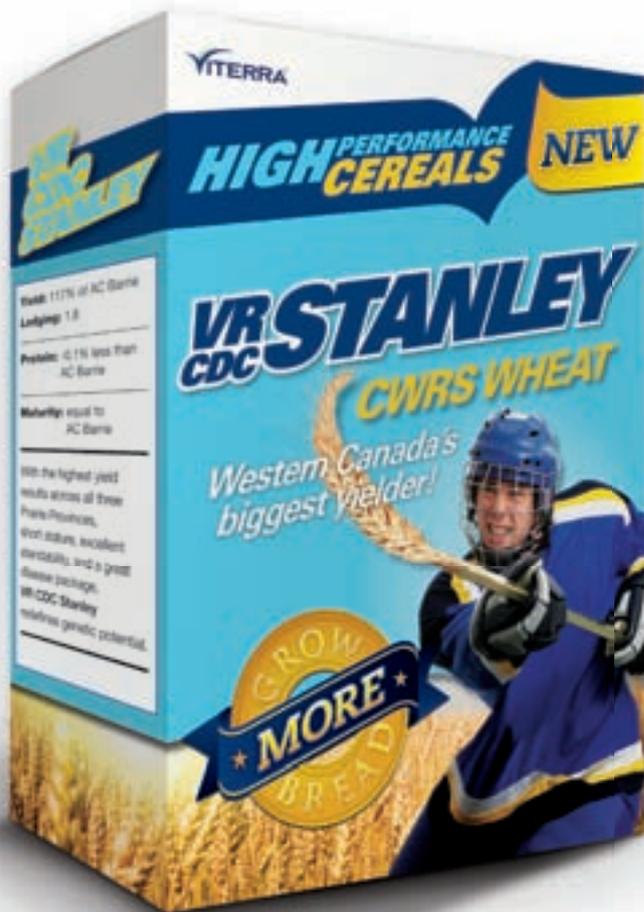
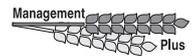
MANITOBA

CANOLA YIELDS BY VARIETY 2007-2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	45	45	34	1,035,237	30	881,241	
INVIGOR L150 (LT)	—	—	—	—	—	32	315,838	
5770 (LT)	—	—	—	36	285,350	29	210,545	
INVIGOR L130 (LT)	—	—	—	—	—	30	143,956	
45H29 (RT)	—	—	—	34	49,635	28	99,797	
8440 (LT)	—	44	45	37	259,656	31	84,373	
5030 (LT)	31	44	45	32	160,541	27	72,786	
73-45RR (RT)	—	—	—	34	2,326	28	62,212	
72-65 (RT)	—	—	41	32	154,885	25	61,533	
NX4 105 RR	—	42	44	33	100,549	25	40,430	
73-65RR (RT)	—	—	—	33	1,816	31	40,278	
9553 (RT)	—	28	40	32	81,182	24	35,550	
2012CL (ST)	—	—	—	—	—	24	30,527	
73-55RR (RT)	—	—	—	33	5,252	27	27,356	
9590 (LT)	31	41	41	30	117,148	26	26,836	
5020 (LT)	27	41	40	30	99,415	29	26,103	
1145 (LT)	—	—	—	33	94,286	30	24,386	
VT500 (RT)	—	—	—	—	—	26	24,196	
NEXERA NX4-106RR (RT)	—	—	35	32	3,103	28	20,821	
45H74 (ST)	—	—	—	—	—	28	19,378	
PIONEER 45S52 (RT)	—	—	—	—	—	26	17,786	
6060RR (RT)	—	—	—	—	—	28	17,052	
1012RR (RT)	—	—	—	—	—	29	16,939	
VICTORY V1037 (RT)	—	39	41	23	52,993	14	15,894	
PIONEER 45S51 (RT)	—	—	38	32	42,956	30	14,795	
D3151 (RT)	—	—	40	27	18,407	23	13,669	
72-55RR (RT)	—	44	43	28	110,764	22	13,461	
45H73 (ST)	31	39	42	31	30,840	28	12,337	
CANTERRA 1950 (RT)	—	—	—	28	15,379	23	10,833	

Variety	CANOLA YIELDS BY VARIETY 2007-2011†					MANITOBA	
	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
1014RR (RT)	—	—	—	—	—	26	10,119
1818 (RT)	27	35	38	27	16,202	18	9,834
45H28 (RT)	—	42	43	32	108,985	23	9,333
CANTERRA 1970 (RT)	—	—	—	—	—	27	9,182
V2035 (RT)	—	—	—	—	—	21	8,920
5070 (LT)	31	43	41	33	5,050	33	7,358
5525 CL (ST)	—	—	—	28	6,666	24	7,261
46P50 (RT)	31	38	42	29	23,541	29	6,934
9557S (RT)	—	—	—	33	7,185	26	5,942
34-65 (RT)	27	34	39	29	18,555	24	5,703
D3150 (RT)	—	—	40	33	19,095	21	5,609
1141 (LT)	—	37	41	25	20,312	27	5,322
VT REMARKABLE (RT)	—	—	—	30	14,296	19	5,177
6040RR (RT)	—	—	—	34	12,202	31	5,138
1896 (RT)	—	—	—	—	—	16	5,110
45H26 (RT)	31	40	41	34	32,074	28	4,720
997RR (RT)	31	29	38	23	6,449	19	4,622
VICTORY V1040 (RT)	—	—	—	34	4,518	23	4,608
71-45RR (RT)	29	39	40	28	42,654	25	4,298
NX4 107RR (RT)	—	—	—	—	—	25	4,182
73-67 RR (RT)	—	—	—	—	—	26	4,053
NEXERA NX4-205CL (ST)	—	—	—	30	13,397	27	3,811
CANTERRA 1818RR (RT)	—	—	—	—	—	18	3,761
1852H (RT)	25	40	35	35	2,000	24	3,678
45P70 (ST)	26	34	32	19	4,578	20	3,503
73-75 RR (RT)	—	—	—	—	—	30	3,177
VICTORY V2030 (RT)	—	—	36	24	7,918	27	2,746
2014CL (ST)	—	—	—	—	—	19	2,619
PROVEN 9350 (RT)	—	—	—	—	—	14	2,404
CANTERRA 1918 (RT)	—	—	—	—	—	23	2,324
43H57	—	31	29	21	1,792	16	2,237
VT BARRIER (RT)	—	—	36	25	3,923	21	2,066

† 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 8, 2012;
 * Assuming 48 lbs./bu.



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CANOLA YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
1841 (RT)	30	37	38	25	14,149	25	1,960	
5535CL (ST)	—	—	—	—	—	19	1,920	
CANTERRA 1841RR (RT)	—	—	—	—	—	14	1,727	
CANTERRA 1896RR (RT)	—	—	—	—	—	22	1,713	
46A76 (ST)	23	31	31	15	6,706	16	1,560	
AC SUNBEAM (POLISH)	—	—	15	—	—	11	1,454	
94H04 (RT)	—	—	—	—	—	30	1,419	
72-35RR (RT)	—	—	26	33	523	18	1,235	
NX4 104 RR	—	—	41	27	3,415	26	1,193	
73-35RR (RT)	—	—	—	—	—	22	1,174	
9550 (RT)	23	33	39	30	5,951	29	1,172	
ACS-C7 (POLISH)	—	—	11	3	626	14	1,030	
4414 (RT)	25	35	37	22	9,102	22	964	
CANTERRA 1956 (RT)	—	—	—	32	742	22	961	
34-55 (RT)	28	34	41	—	—	27	954	
SP 621 RR (RT)	29	34	39	23	740	23	854	
NX4 101 RR	—	—	42	42	825	24	791	
1651H (ST)	—	37	30	27	2,115	26	770	
292CL (ST)	23	28	34	24	621	15	717	
71-40CL (ST)	—	—	34	19	5,789	27	709	
43A56 (RT)	20	—	20	—	—	22	661	
IMC 205	—	—	—	—	—	11	605	
3303LL (LT)	—	—	—	—	—	12	538	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						28.8	2,592,628	

WHEAT YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
KANE (RS)	47	61	53	41	550,113	36	387,598	
HARVEST (RS)	46	57	57	47	416,827	44	348,049	
GLENN (RS)	—	—	55	41	408,509	39	330,098	
AC DOMAIN (RS)	39	51	49	39	219,110	38	152,751	
CDC FALCON (RS)	69	74	64	65	164,745	60	127,514	
AC BARRIE (RS)	38	50	50	37	255,779	35	118,105	
WR 859 CL (RS)	—	—	52	43	18,324	38	56,475	
5603 HR (RS)	—	—	—	45	8,749	40	49,635	
CDC GO (RS)	57	57	60	48	72,505	42	49,343	
CDC BUTEO (W)	55	60	54	58	26,961	45	33,377	
CARBERRY (RS)	—	—	—	44	1,743	42	32,180	
5602HR (RS)	45	47	49	37	144,845	39	31,562	
UNITY VB (RS)	—	—	58	45	14,377	41	23,048	
AC WASKADA (RS)	—	—	56	39	45,238	31	20,784	
GOODEVE (RS)	—	—	57	42	2,879	42	16,038	
AC INTREPID (RS)	38	51	50	39	26,695	38	15,444	
SNOWSTAR (HWS)	—	60	58	48	26,540	38	14,520	
MCKENZIE (RS)	39	43	50	39	57,362	28	13,623	
AC SPLENDOR (RS)	41	55	52	39	11,875	46	11,406	
FALLER (F)	—	—	—	39	8,163	41	11,234	
INFINITY (RS)	43	52	52	45	20,751	44	10,486	
SUPERB (RS)	42	51	51	37	41,421	33	10,444	
MCCLINTOCK (W)	55	60	56	52	10,922	43	6,450	
CDC PTARMIGAN (W)	—	—	64	77	3,934	69	5,994	
5601HR (RS)	41	43	46	34	11,103	35	5,990	
CDC TEAL (RS)	38	50	45	45	24,702	36	5,980	
CDC IMAGINE (RS)	35	46	48	39	11,424	34	5,021	
CDC ALSASK (RS)	—	55	50	34	3,434	39	4,648	
5400IP (RS)	40	50	49	40	8,745	38	4,159	
AC CORA (RS)	33	42	48	38	6,656	26	4,154	
AC ANDREW (F)	49	61	60	42	14,857	40	4,050	
ALVENA (RS)	—	—	53	40	4,844	40	4,003	
SOMERSET (RS)	40	49	49	43	2,857	29	3,494	
CDC ABOUND (RS)	—	—	56	38	14,392	39	2,674	
AC CADILLAC (RS)	35	39	42	30	14,582	38	2,271	
WFT 409 (F)	—	—	—	39	5,222	39	2,210	
CDC UTMOST (RS)	—	—	—	—	—	48	2,147	
BRIGGS (F)	55	54	63	41	3,608	40	2,023	
PEREGRINE (W)	—	—	—	—	—	33	2,002	
FIELDSTAR VB (RS)	—	—	—	49	2,871	39	1,883	
MUCHMORE (RS)	—	—	—	44	537	48	1,366	
AC VISTA (PS)	44	62	43	27	3,752	38	1,199	
CDC KESTREL (W)	62	65	—	67	513	46	1,074	
CDC CLAIR (W)	61	58	44	54	1,800	47	864	

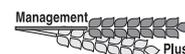
WHEAT YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
ACCIPITER (W)	—	—	—	—	—	46	864	
LOVITT (RS)	36	42	50	37	2,364	19	844	
RUSS (F)	41	36	40	38	1,255	42	703	
CDC RAPTOR (W)	53	56	55	56	1,416	48	695	
WFT 411 (F)	—	—	—	41	3,320	33	631	
PASTUER (F)	—	—	—	—	—	49	576	
AC TABER (PS)	47	51	44	37	2,463	39	509	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.6	1,955,582	

SOYBEAN YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
25-04R (RT)	—	35	33	36	52,322	29	80,976	
NSC WARREN RR (RT)	—	31	26	27	50,769	22	68,950	
ISISRR (RT)	—	—	36	34	44,032	26	64,189	
LS 0065RR (RT)	39	34	37	36	58,780	28	51,312	
LS 0036RR (RT)	39	33	26	29	29,476	28	30,309	
90M01 (RT)	40	32	32	33	54,574	24	30,216	
900Y71 (RT)	—	—	—	33	3,180	26	30,110	
NSC ARGYLE RR (RT)	—	—	—	39	4,807	27	29,559	
NSC PORTAGE RR (RT)	39	36	30	32	88,194	25	28,638	
OAC PRUDENCE	34	31	29	30	25,823	21	25,092	
LS 0028RR (RT)	—	—	28	31	12,928	27	14,140	
90A06 (RT)	36	33	26	27	25,137	21	14,128	
24-60RY (RT)	—	—	—	—	—	29	12,017	
25-10RY (RT)	—	—	—	—	—	31	10,572	
THUNDER 27005RR (RT)	—	33	25	24	5,937	25	8,547	
NSC OSBORNE RR2Y (RT)	—	—	—	37	678	28	6,198	
S00-W3 (RT)	—	—	—	31	620	22	6,177	
RR ROSCO (RT)	29	33	26	20	10,458	28	5,827	
GENTLEMAN	34	31	26	30	5,704	23	4,597	
900V61 (RT)	—	—	—	—	—	25	4,565	
NSC COULEE RR (RT)	—	—	—	38	2,904	30	4,418	
29004RR (RT)	—	—	—	—	—	21	3,400	
90A07	34	34	32	32	4,599	28	3,357	
NSC ARGYLE RR (RT)	—	—	—	—	—	18	2,829	
PS 0027RR (RT)	—	—	—	34	723	30	2,102	
MKZ609A1-B7YN (RT)	—	—	—	—	—	32	2,100	
CHADBURN R2 (RT)	—	—	—	—	—	28	1,926	
NSC CAREY RR (RT)	—	—	37	31	4,627	19	1,530	
DEKALB 24-10 (RT)	—	—	—	—	—	39	1,507	
23-10 (RT)	—	—	—	—	—	38	1,453	
AC COLIBRI	—	—	—	—	—	17	1,370	
CKX4103-R2 (RT)	—	—	—	—	—	33	1,282	
NSC ENTRY 14 (RT)	—	—	—	—	—	28	1,137	
25-02R (RT)	40	34	30	39	749	24	1,115	
900Y81 (RT)	—	—	—	—	—	26	1,055	
THUNDER 29002RR (RT)	—	—	—	—	—	22	1,030	
OAC ERIN	39	39	42	35	994	36	910	
LS005R22 (RT)	—	—	—	—	—	32	839	
NSRR2A2 (RT)	—	—	—	—	—	27	786	
MONTCALM (RT)	35	26	21	29	1,000	20	785	
LS004R21 (RT)	—	—	—	—	—	30	739	
ACCORD	22	33	29	35	538	23	733	
MKZ109A3-D3YN (RT)	—	—	—	—	—	38	707	
NSC ENTRY 8 (RT)	—	—	—	—	—	31	552	
90M02 (RT)	40	34	32	—	—	14	546	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						25.9	581,362	

OATS YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
SOURIS	—	139	120	93	76,234	74	105,707	
FURLONG	95	110	103	79	108,715	67	62,766	
LEGGETT	100	102	103	71	96,523	67	46,389	
TRIACTOR	—	—	124	108	26,220	85	46,042	
RONALD	94	110	101	79	51,576	76	37,472	
SUMMIT	—	—	—	97	2,524	60	32,240	
PINNACLE	91	87	99	80	53,761	65	26,375	
CDC DANCER	103	113	106	83	13,207	56	8,482	
AC ASSINIBOIA	80	90	90	55	13,269	64	7,665	
TRIPLE CROWN	76	95	90	77	7,832	75	6,141	

† 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 8, 2012;
* Assuming 48 lbs./bu.



OATS YIELDS BY VARIETY 2007-2011†						MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
JORDAN	108	123	108	63	6,893	50	3,696
RIEL	85	106	97	47	4,235	44	3,529
GEHL (HULLLESS)	—	—	61	62	1,579	27	2,510
AC MORGAN	107	117	—	89	560	86	1,417
HIFI	99	110	106	77	7,532	92	856
DERBY	50	84	81	68	559	74	628
ROBERT	83	83	70	28	1,481	30	559
AC PRAKNESS	55	59	70	45	1,333	46	521
DUMONT	53	65	54	48	843	33	510
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						70.1	401,273

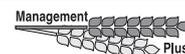
BARLEY* YIELDS BY VARIETY 2007-2011†						MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
CDC STRATUS	48	67	66	33	2,609	14	1,370
AC RANGER	59	63	63	65	5,073	47	1,249
CDC AUSTENSON	—	—	—	—	—	50	658
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						39.4	237,189

BARLEY* YIELDS BY VARIETY 2007-2011†						MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
CONLON	65	75	76	56	117,989	42	78,282
NEWDALE	62	72	78	57	46,912	36	34,561
AC METCALFE	50	65	70	50	46,360	32	14,701
TRADITION	66	76	74	47	33,908	36	14,284
CHAMPION	—	—	90	60	14,314	46	11,924
STELLAR-ND	—	—	68	51	17,699	38	10,149
CELEBRATION	—	—	—	64	906	52	9,319
LEGACY	64	77	77	56	23,382	34	7,327
LACEY	59	71	72	54	12,904	43	7,144
CDC COPELAND	59	70	74	45	28,485	23	6,416
CDC COALITION	—	—	104	74	13,811	46	5,806
CDC COWBOY	—	57	68	46	12,952	34	5,697
CDC MINDON	—	—	79	37	3,692	37	5,636
ROBUST	51	59	66	49	12,028	45	5,397
CDC TREY	62	68	65	51	10,295	36	4,552
BENTLEY	—	—	—	55	958	53	2,629
CDC YORKTON	59	71	67	50	3,271	46	1,689

CORN YIELDS BY VARIETY 2007-2011†						MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
PIONEER 39D95 (RT)	117	117	35	107	33,683	97	36,565
PIONEER 39D97 (BT)(LT)(RT)	129	130	36	120	37,061	102	33,428
PIONEER P7213R (RT)	—	—	47	91	11,343	82	19,913
P7443R (RT)	—	—	—	—	—	92	14,394
DEKALB DKC26-79(RT)	113	109	59	105	22,769	100	12,444
PIONEER 39B94 (BT)(LT)(RT)	—	127	52	118	16,119	98	7,974
PIONEER 39Z69 (RT)	—	95	54	124	4,077	101	4,696
PRIDE A4176 (BT)(RT)	—	—	39	103	4,822	78	4,127
PIONEER P7535HR (LT)(RT)(BT)	—	—	18	103	2,552	94	3,635
PIONEER 39V05 (RT)	—	—	—	—	—	122	3,516
DEKALB DKC26-78 (RT)	115	111	54	93	5,324	82	3,383
DEKALB DKC30-20 (RT)(BT)	—	—	—	—	—	104	3,270
PIONEER P7535R (RT)	—	—	39	104	5,667	84	2,390
PIONEER 39B90 (RT)	—	118	54	104	1,568	76	2,065
LEGEND LR9975R (RT)	—	—	—	127	872	89	2,012
DEKALB DKC27-33 (RT)(BT)	—	—	—	118	2,603	119	1,769
PIONEER 39M26 (RT)	106	93	78	76	3,251	76	1,474
HYLAND HL R208 (RT)	115	105	59	108	1,624	96	1,361
DEKALB DKC 30-23 (RT)	—	—	—	—	—	113	1,242
PRIDE A4170RR (RT)	—	—	71	97	560	80	1,139
LEGEND LR9780RB (BT)(RT)	—	—	—	—	—	77	985
A4240RR (RT)	—	—	—	—	—	74	784
PIONEER 39V07 (BT)(LT)(RT)	—	—	—	—	—	120	667

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

‡ On system as of January 8, 2012;
 * Assuming 48 lbs./bu.



Part of your well-balanced farm business.

High yield potential and a premium disease package makes **VR 5603HR** an outstanding choice for western Canadian wheat growers.

WHAT IT TAKES
 ADVICE | OPPORTUNITIES | ACCESS





PIONEER
BRAND · SEEDS

*Science with Service
Delivering Success™*

Every year, you hear about yield comparisons between seed products grown in test plots around the countryside. The problem is, they're often not tested under real-world conditions. When it comes right down to it, the only results that count are the ones from *your* fields.

At Pioneer Hi-Bred, we test our genetics where it really matters: in fields close to yours. In 2011, over 1000 large-scale Proving Ground™ plots were grown across Western Canada. This is more than any other seed company.

These canola, corn and soybean trials are grower-managed under real-world growing conditions and farming practices.

Our goal is to help you evaluate product performance on your operation, so that together we can help ensure we position the right Pioneer® brand seed product on every acre you grow.

For yield results, talk with your local Pioneer Hi-Bred sales rep or visit:

www.pioneer.com/yield

The PROVING GROUND.™

1000 Large-scale canola, soybean and corn trials

Over the last two years, Pioneer® brand canola hybrids have out-performed the competition in Manitoba by 1 bushel per acre! (160 comparisons)*

Protector® brand

45S52



Outstanding yield potential and good standability.
Hybrid with Pioneer Protector® Sclerotinia resistance built-in.

Comparison Brand/Product	# of Comp.	Pioneer Yield	Yield Adv.	% Wins
DeKalb 73-45RR	26	54.3	1.3	54%
Pioneer 45H29	184	50.8	0.3	53%

2-year (2010, 2011) yield data collected from large-scale, grower managed trials across Western Canada as of December 16, 2011.

*2-year (2010, 2011) yield data from Manitoba as of December 16, 2011.

Over the last two years, Pioneer® brand corn hybrids have out-yielded the competition in Manitoba by over 7 bushels per acre! (537 comparisons)

Protector® brand

39D97



2250 Heat Units

Leader hybrid for maturity. Good drydown and average test weight.
Maintains stable yields across all yield environments.

Comparison Brand/Product	# of Comp.	Pioneer Yield	Yield Adv.	% Wins	Moit Adv.
DeKalb DKC26-79 (YGCB, RR2)	10	134.8	18.7	90%	0.0
DeKalb DKC30-20 (VT3)	12	118.7	3.9	83%	-0.6
PRIDE A4176BTRR (YGCB, RR2)	12	109.4	15.1	92%	1.5

2-year (2010, 2011) yield data collected from large-scale, grower managed trials in Manitoba as of November 8, 2011.

Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data is a better predictor of future performance. DO NOT USE THIS OR ANY OTHER DATA FROM A LIMITED NUMBER OF TRIALS AS A SIGNIFICANT FACTOR IN PRODUCT SELECTION. Refer to www.pioneer.com or contact a Pioneer sales representative for the latest and complete listing of traits and scores for each Pioneer® brand product.

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ials across Western Canada.

CORN YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
HYLAND HL R219 (RT)	—	—	—	—	—	58	659	
DEKALB DKC27-45(RT)(BT)	—	125	—	—	—	110	599	
LR 9074 RB (BT)(RT)	—	—	—	—	—	98	574	
HYLAND HL B18R (BT)(RT)	—	—	—	—	—	114	547	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							94.8	171,660

FLAX YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CDC BETHUNE	22	26	27	18	63,268	14	25,717	
HANLEY	23	23	25	17	20,479	14	19,058	
CDC SORREL	25	25	27	18	35,720	15	17,682	
LIGHTNING	21	27	30	23	11,210	21	8,329	
TAURUS	20	24	27	17	5,737	17	2,177	
PRAIRIE BLUE	21	23	25	13	2,166	15	2,082	
OMEGA	20	29	26	24	1,340	24	1,754	
AC EMERSON	22	22	29	15	1,093	14	1,700	
PRAIRIE THUNDER	—	—	28	19	6,324	11	1,111	
NULIN 50	—	—	—	21	4,270	16	1,028	
NORLIN	17	15	23	15	2,139	12	746	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							15.3	82,624

DRY BEAN YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
WINDBREAKER (PINTO)	1,962	2,176	1,823	1,658	27,629	2,075	9,243	
ENVOY (WHITE PEA)	1,464	1,468	1,486	1,327	23,429	1,984	7,942	
ECLIPSE (BLACK)	2,070	1,911	1,647	1,541	12,169	1,859	6,895	
T9905 (WHITE PEA)	—	—	—	2,046	3,342	2,185	3,749	
PINK PANTHER (KIDNEY)	1,391	1,515	1,854	1,411	8,088	1,598	2,810	
T9903 (WHITE PEA)	1,775	1,616	1,770	1,561	11,481	1,704	2,775	
CARGO (WHITE PEA)	1,429	1,548	1,459	1,356	5,350	1,528	2,069	
CDC JET (BLACK)	1,684	1,482	1,565	1,442	4,527	1,746	2,032	
LIGHTNING (WHITE PEA)	—	—	—	1,526	2,290	1,523	1,501	
MAVERICK (PINTO)	1,806	2,037	1,526	1,343	7,863	1,744	1,373	
FLOYD (OTHER)	1,437	1,960	1,693	1,944	2,617	1,806	928	
AC OLE (PINTO)	1,645	2,251	1,925	2,057	2,437	1,909	892	
ENSGN (WHITE PEA)	—	—	—	—	—	1,605	840	
AC PINTOBA (PINTO)	1,870	1,969	1,792	1,475	4,976	2,037	743	
MARIAH (PINTO)	—	—	—	950	2,069	1,356	715	
FOXFIRE (KIDNEY)	1,323	1,155	2,172	2,136	536	2,172	642	
ETNA (CRANBERRY)	930	1,486	—	1,032	2,739	1,739	623	
CRAN 09 (CRANBERRY)	—	1,750	—	1,292	871	1,579	553	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1849.0	50,817

SUNFLOWER YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
SEEDS2000 6946 (C)	1,576	1,627	1,526	1,155	74,076	1,592	9,346	
PIONEER 63N82 (O)	—	—	—	1,347	5,621	1,290	7,451	
SEEDS2000 JAGUAR (ST) (C)	1,508	1,495	1,464	1,093	19,567	1,316	3,254	
SEEDS2000 6946 DMR (C)	—	—	—	1,184	5,753	1,349	2,335	
COBRA NS (O)	—	—	—	—	—	1,173	2,232	
8N270CLDM (O)	—	—	—	—	—	1,704	1,812	
CHS RH 400CL (CL) (C)	—	—	—	948	683	1,281	1,712	
SEEDS2000 DEFENDER PLUS (O)	1,422	1,402	1,299	1,270	857	979	1,407	
SEEDS2000 JAGUAR DMR (C)	—	—	1,111	—	—	1,656	779	
MYCOGEN 8N270 (MO) (O)	1,711	1,490	1,841	1,193	1,433	1,572	690	
SEEDS2000 6950 (C)	—	—	—	—	—	1,702	673	
SEEDS2000 PANTHER DMR (C)	—	1,631	1,543	963	1,814	1,660	602	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1422.0	34,689

FIELD PEA YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CDC MEADOW	—	54	52	34	23,611	27	5,015	
AGASSIZ	—	—	48	38	7,363	36	3,925	
CDC STRIKER	47	41	50	31	12,709	20	1,845	

FIELD PEA YIELDS BY VARIETY 2007–2011†							MANITOBA	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
4010	36	36	37	22	2,131	25	1,174	
ECLIPSE	41	41	53	35	4,075	28	1,103	
LIVIOLETTA	38	36	44	24	1,048	27	882	
CDC GOLDEN	45	40	49	31	10,996	24	700	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							26.9	18,996

RISK AREA 1

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 1	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	35	41	29	31,880	15	6,746	
INVIGOR L150 (LT)	—	—	—	—	—	15	2,553	
5770 (LT)	—	—	—	29	3,507	15	1,174	
45H29 (RT)	—	—	—	34	902	16	1,044	
INVIGOR L130 (LT)	—	—	—	—	—	15	633	
NX4 105 RR	—	—	—	23	4,686	12	545	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							13.6	21,444

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 1	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
GLENN (RS)	—	—	51	31	16,239	18	3,875	
CDC BUTE0 (W)	51	47	48	53	3,299	34	3,736	
CDC FALCON (W)	53	56	46	51	5,372	28	3,201	
MCCLINTOCK (W)	52	51	50	51	5,162	39	2,787	
CDC GO (RS)	—	36	54	33	5,152	17	2,384	
KANE (RS)	—	—	46	33	18,946	21	1,846	
MCKENZIE (RS)	35	39	46	33	11,889	19	1,541	
PEREGRINE (W)	—	—	—	—	—	40	1,375	
AC WASKADA (RS)	—	—	—	25	4,263	26	949	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							26.7	24,719

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 1	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
PINNACLE	77	71	89	71	10,775	40	1,881	
LEGGETT	86	69	89	74	7,098	76	728	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							46.3	4,243

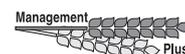
BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 1	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CDC COPELAND	53	62	76	39	8,845	17	1,501	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							15.1	2,682

RISK AREA 2

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	47	48	39	108,373	22	56,631	
INVIGOR L150 (LT)	—	—	—	—	—	28	21,665	
5770 (LT)	—	—	—	40	40,850	26	18,569	
5030 (LT)	33	44	48	38	23,994	26	10,496	
INVIGOR L130 (LT)	—	—	—	—	—	26	7,251	
72-65 (RT)	—	—	—	36	22,114	19	7,061	
8440 (LT)	—	43	46	41	35,033	26	6,872	
73-55RR (RT)	—	—	—	42	844	23	6,757	
NX4 105 RR	—	—	45	33	13,243	23	4,962	
73-45RR (RT)	—	—	—	—	—	19	4,740	
45H29 (RT)	—	—	—	37	1,603	25	4,144	
9553 (RT)	—	—	43	36	10,190	23	3,584	
1818 (RT)	29	33	41	34	1,932	12	2,425	
73-65RR (RT)	—	—	—	—	—	21	2,417	
PIONEER 45S52 (RT)	—	—	—	—	—	18	2,031	
VT500 (RT)	—	—	—	—	—	21	1,581	
CANTERRA 1950 (RT)	—	—	—	—	—	11	1,434	

† 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 8, 2012;
* Assuming 48 lbs./bu.



CANOLA YIELDS BY VARIETY 2007–2011†						RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
45H28 (RT)	—	39	44	31	12,617	12	1,401
1014RR (RT)	—	—	—	—	—	27	1,366
9590 (LT)	31	43	46	37	11,110	25	998
45H74 (ST)	—	—	—	—	—	18	887
V2035 (RT)	—	—	—	—	—	18	836
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						23.2	179,557

WHEAT YIELDS BY VARIETY 2007–2011†						RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
HARVEST (RS)	45	55	61	48	83,901	30	38,648
GLENN (RS)	—	—	62	43	26,757	29	20,219
KANE (RS)	—	53	57	44	41,536	27	16,782
CDC GO (RS)	43	52	60	49	23,515	35	15,939
AC BARRIE (RS)	36	51	59	47	31,739	30	9,329
CARBERRY (RS)	—	—	—	—	—	34	8,090
MCKENZIE (RS)	40	42	54	44	26,963	30	7,260
CDC BUTEO (W)	60	60	56	65	5,881	41	6,294
CDC FALCON (W)	65	68	71	66	12,799	54	5,576
WR 859 CL (RS)	—	—	—	57	1,096	32	4,675
5603 HR (RS)	—	—	—	50	981	31	3,883
CDC PTARMIGAN (W)	—	—	—	84	799	70	3,102
AC WASKADA (RS)	—	—	59	42	17,511	23	2,506
INFINITY (RS)	39	46	59	46	7,627	32	2,172
UNITY VB (RS)	—	—	—	48	739	37	2,034
SNOWSTAR (HWS)	—	57	60	53	8,005	29	1,964
5602HR (RS)	40	47	54	42	15,626	30	1,519
AC CORA (RS)	34	40	48	32	1,895	21	1,421
MCCLINTOCK (W)	57	63	65	60	1,482	51	680
MUCHMORE (RS)	—	—	—	—	—	39	629
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						32.6	156,621

OATS YIELDS BY VARIETY 2007–2011†						RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
PINNACLE	103	98	128	105	14,827	73	8,690
LEGGETT	106	96	101	99	2,546	87	1,499
TRIACTOR	—	—	—	—	—	61	918
SOURIS	—	—	135	116	1,897	80	773
JORDAN	—	98	97	94	530	70	705
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						73.0	13,105

BARLEY* YIELDS BY VARIETY 2007–2011†						RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
NEWDALE	69	79	90	67	11,665	29	5,299
CHAMPION	—	—	—	75	4,347	39	3,049
TRADITION	69	67	82	57	6,938	29	2,311
CONLON	66	70	80	78	3,563	60	1,795
STELLAR-ND	—	—	—	54	6,473	30	1,696
CELEBRATION	—	—	—	—	—	42	1,461
AC METCALFE	50	58	71	62	1,632	23	871
CDC COPELAND	56	74	88	58	2,503	24	645
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						34.8	19,483

FLAX YIELDS BY VARIETY 2007–2011†						RISK AREA 2	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
CDC BETHUNE	24	26	31	21	10,648	13	2,488
CDC SORREL	—	24	27	18	6,336	12	2,011
HANLEY	25	23	26	25	3,013	25	1,162
AC EMERSON	24	20	29	20	612	15	1,105
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						15.1	7,441

† 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 8, 2012;
* Assuming 48 lbs./bu.



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SUNFLOWER YIELDS BY VARIETY 2007–2011†							RISK AREA 2		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
SEEDS2000 6946 (C)	1,437	1,629	1,922	1,290	15,363	1,420	1,786		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							1010.4	3,185	

FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
CDC BETHUNE	19	25	28	16	3,655	15	932		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							14.5	1,466	

RISK AREA 3

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
5440 (LT)	—	42	44	34	31,238	23	11,027		
INVIGOR L150 (LT)	—	—	—	—	—	23	8,467		
45H29 (RT)	—	—	—	35	2,076	23	5,068		
5770 (LT)	—	—	—	37	7,285	23	4,689		
INVIGOR L130 (LT)	—	—	—	—	—	20	4,656		
9590 (LT)	26	43	44	37	10,529	24	2,263		
72-65 (RT)	—	—	—	35	4,357	29	1,665		
45H28 (RT)	—	—	42	34	9,135	27	1,516		
9553 (RT)	—	—	37	34	6,452	24	1,501		
VT500 (RT)	—	—	—	—	—	21	1,501		
NEXERA NX4-106RR (RT)	—	—	—	—	—	27	1,456		
5030 (LT)	27	42	41	31	5,069	24	1,151		
73-55RR (RT)	—	—	—	—	—	16	1,110		
1818 (RT)	27	37	35	32	1,886	30	1,079		
6060RR (RT)	—	—	—	—	—	28	923		
8440 (LT)	—	35	49	39	2,711	28	887		
1014RR (RT)	—	—	—	—	—	15	799		
73-45RR (RT)	—	—	—	—	—	21	739		
D3150 (RT)	—	—	42	37	2,526	28	734		
1012RR (RT)	—	—	—	—	—	24	714		
2012CL (ST)	—	—	—	—	—	11	603		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							21.3	64,291	

FIELD PEA YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
CDC MEADOW	—	—	48	30	2,965	25	958		
AGASSIZ	—	—	—	40	809	20	560		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							21.6	3,015	

RISK AREA 4

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
5440 (LT)	—	45	48	40	61,118	30	49,466		
INVIGOR L150 (LT)	—	—	—	—	—	29	12,566		
45H29 (RT)	—	—	—	33	4,907	22	8,429		
5770 (LT)	—	—	—	43	12,274	32	8,006		
73-45RR (RT)	—	—	—	—	—	24	5,893		
INVIGOR L130 (LT)	—	—	—	—	—	30	4,192		
NX4 105 RR	—	—	49	37	4,287	20	4,181		
9553 (RT)	—	—	44	31	9,329	21	3,624		
8440 (LT)	—	41	48	40	12,308	28	3,351		
5030 (LT)	32	42	47	37	5,387	29	2,907		
72-65 (RT)	—	—	49	33	10,497	27	2,735		
V2035 (RT)	—	—	—	—	—	18	2,325		
1012RR (RT)	—	—	—	—	—	23	1,713		
1145 (LT)	—	—	—	43	6,698	23	1,171		
2012CL (ST)	—	—	—	—	—	30	1,157		
73-55RR (RT)	—	—	—	37	575	29	1,110		
6060RR (RT)	—	—	—	—	—	25	1,107		
9590 (LT)	33	43	47	37	9,004	29	1,065		
1818 (RT)	—	35	39	—	—	9	1,048		
45H74 (ST)	—	—	—	—	—	18	1,029		
D3150 (RT)	—	—	40	34	1,166	19	840		
VT500 (RT)	—	—	—	—	—	20	831		
73-65RR (RT)	—	—	—	—	—	26	830		
45H28 (RT)	—	—	44	35	6,494	24	751		
9557S (RT)	—	—	—	—	—	33	633		
CANTERRA 1950 (RT)	—	—	—	35	720	29	620		
VT REMARKABLE (RT)	—	—	—	33	3,242	32	580		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							27.3	129,986	

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
KANE (RS)	—	52	51	37	18,111	31	10,295		
GLENN (RS)	—	—	55	38	6,612	27	6,640		
AC BARRIE (RS)	29	42	47	38	15,091	36	5,258		
HARVEST (RS)	—	54	44	36	11,294	27	3,662		
CDC FALCON (W)	54	58	50	55	3,182	30	3,468		
UNITY VB (RS)	—	—	—	43	5,019	35	3,267		
5603 HR (RS)	—	—	—	—	—	37	3,207		
CDC GO (RS)	—	55	56	38	6,277	25	2,155		
CDC BUTEO (W)	55	64	50	62	2,998	31	1,262		
AC WASKADA (RS)	—	—	—	40	2,223	28	1,010		
MCKENZIE (RS)	34	44	53	34	3,832	21	913		
ACCIPITER (W)	—	—	—	—	—	46	744		
GOODEVE (RS)	—	—	—	—	—	28	705		
AC DOMAIN (RS)	33	41	38	31	1,825	27	633		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							30.7	47,225	

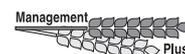
WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
KANE (RS)	—	—	52	42	37,844	38	30,009		
GLENN (RS)	—	—	56	46	22,626	40	24,069		
HARVEST (RS)	43	51	56	51	30,090	41	18,361		
CDC FALCON (W)	60	65	68	70	9,349	60	11,709		
AC BARRIE (RS)	34	48	49	41	25,552	41	11,019		
AC DOMAIN (RS)	38	48	52	49	14,829	42	9,494		
CDC BUTEO (W)	48	57	50	52	5,758	50	5,791		
AC WASKADA (RS)	—	—	—	45	7,475	35	4,159		
5603 HR (RS)	—	—	—	—	—	47	3,905		
WR 859 CL (RS)	—	—	—	34	1,221	36	3,766		
CDC GO (RS)	—	54	57	48	4,741	42	3,440		
SNOWSTAR (HWS)	—	—	58	47	4,051	38	3,361		
UNITY VB (RS)	—	—	60	38	1,272	42	2,534		
SOMERSET (RS)	34	44	—	42	1,594	26	2,041		
5602HR (RS)	41	46	47	36	13,524	33	1,038		
AC ANDREW (F)	—	55	63	38	2,673	30	898		
SUPERB (RS)	41	51	53	42	2,582	38	888		
CDC ALSASK (RS)	—	55	50	—	—	40	610		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							41.6	143,682	

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
LEGGETT	97	97	86	86	2,492	25	1,138		
TRIACTOR	—	—	—	—	—	72	957		
CDC DANCER	85	89	52	61	905	42	674		
SOURIS	—	—	95	99	2,495	50	631		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							44.6	5,237	

BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 3		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres		
CDC TREY	55	60	63	56	2,822	39	1,020		
CDC COPELAND	55	66	68	47	6,767	20	874		
CDC COWBOY	—	—	62	38	1,725	18	835		
AC METCALFE	44	65	66	47	7,247	23	750		
NEWDALE	49	69	64	52	3,264	27	750		
CONLON	47	61	64	38	1,904	31	596		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§							27.6	6,051	

† 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 8, 2012;
* Assuming 48 lbs./bu.



SOYBEAN YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
LS 0036RR (RT)	—	—	31	41	1,785	29	1,958		
NSC WARREN RR (RT)	—	—	—	—	—	35	1,253		
ISISRR (RT)	—	—	—	—	—	23	592		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							29.1	4,688	

CORN YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
DEKALB DKC26-79(RT)	—	84	90	97	4,427	100	1,721		
PIONEER 39D95 (RT)	—	130	—	89	1,660	91	600		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							88.1	9,068	

OATS YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
FURLONG	79	97	75	82	4,210	68	2,338		
SOURIS	—	—	106	109	1,909	63	2,059		
LEGGETT	87	87	89	70	3,455	66	1,386		
PINNACLE	83	90	66	73	2,006	74	856		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							63.4	8,535	

FLAX YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
CDC BETHUNE	22	25	29	20	7,930	24	2,772		
CDC SORREL	—	26	27	19	2,658	15	1,116		
LIGHTNING	19	24	29	26	1,620	23	1,047		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							21.2	5,601	

BARLEY* YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
CONLON	66	75	73	68	11,632	50	9,692		
NEWDALÉ	64	70	80	50	6,034	32	4,421		
LACEY	57	71	72	53	4,966	54	2,433		
TRADITION	61	65	72	47	2,377	47	1,053		
AC METCALFE	56	63	77	59	6,914	47	1,008		
CDC COWBOY	—	—	53	56	1,595	50	848		
STELLAR-ND	—	—	—	—	—	59	593		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							46.1	23,398	

DRY BEAN YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
LIGHTNING (WHITE PEA)	—	—	—	1,817	610	1,552	840		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							1673.3	1,778	

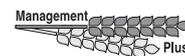
SUNFLOWER YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
SEEDS2000 6946 (C)	1,607	1,475	1,750	1,202	8,381	1,532	2,214		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							1449.9	5,086	

CORN YIELDS BY VARIETY 2007-2011†							RISK AREA 4	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
PIONEER P7213R (RT)	—	—	—	85	1,024	89	2,421	
DEKALB DKC26-78 (RT)	—	105	—	—	—	78	2,035	

FIELD PEA YIELDS BY VARIETY 2007-2011†							RISK AREA 4		
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres		
CDC MEADOW	—	—	48	31	2,981	28	1,329		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§							35.9	1,704	

† 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 8, 2012;
* Assuming 48 lbs./bu.



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Shanawan Farms Ltd.	Domain, MB	736-2951
Smith Seeds*	Crystal City, MB	873-2248
Southern Seeds Ltd	Minto	776-2333
Swan Valley Seeds*	Swan River, MB	734-2526
Timchishen Seeds	Arborg, MB	376-5116
Triple "S" Seeds*	Grandview, MB	546-2590
Wheat City Seeds	Brandon, MB	727-3337
Wilson Seeds Ltd.*	Darlingford, MB	246-2388

Conlon Dealers Only

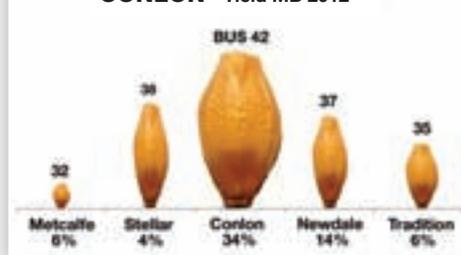
Jeffries Seed	Glenboro, MB	827-2102
Kletke Seed	Tuelon, MB	886-2822
Rutherford Farms	Gross Isle, MB	467-5613
Sierens Seeds	Somerset, MB	744-2883
Zeghers Seeds	Holland, MB	526-2145



"We appreciate your business!
We look forward to working with
you again this year!"
- Seed Depot Dealers



CONLON - Yield MB 2012*



*Percentage acres in MB each variety

CONLON barley has 2-7% higher energy than other barleys – this means hogs go to market faster when fed CONLON barley

What you and I have come to know about Souris...

- ✓ Target yield would be twice this year
- ✓ Souris is **shortest** out on market
- ✓ **Heaviest** test weight - with smaller seed
- ✓ **Earliest** - 3-4 days earlier than Furlong, Summit
- ✓ **Best** crown rust resistance
 - resistant to stem rust
 - resistant to loose & covered smut

These are, in my opinion, the varieties that would most consistently meet the quality requirements of the mills we deliver to on our farm. For best returns - insist on Certified Seed of whichever variety you choose. All the best in 2012!
— John

What you and I have come to know about Conlon...

- ✓ Expect yields to be 2 1/2 times greater than this years
 - ✓ **Large seed** - highest bushel weights
 - ✓ **Excellent yields**
 - ✓ **Very Early Maturity** - earlier harvests
 - ✓ **Shorter good Lodging** relative to checks
 - ✓ **Best** ratings for fusarium
 - MR - NET Blotch
 - MR - MS Spot Blotch
- **These can be big yield robbers**

SOURIS - Yield MB 2012*



*Percentage acres in MB each variety

New Wheat coming...www.seeddepot.ca

RISK AREA 5

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	49	50	46	73,450	36	73,431	
INVIGOR L150 (LT)	—	—	—	—	—	37	43,753	
5770 (LT)	—	—	—	47	44,620	33	28,466	
8440 (LT)	—	53	52	49	50,174	37	21,018	
INVIGOR L130 (LT)	—	—	—	—	—	35	20,193	
45H29 (RT)	—	—	—	48	5,799	37	17,129	
73-45RR (RT)	—	—	—	30	660	35	10,506	
NX4 105 RR	—	—	44	40	19,972	30	10,439	
72-65 (RT)	—	—	47	41	31,438	33	9,931	
73-65RR (RT)	—	—	—	—	—	36	8,777	
5030 (LT)	34	50	49	45	14,245	31	8,251	
1012RR (RT)	—	—	—	—	—	31	6,214	
9553 (RT)	—	—	41	37	12,090	25	5,435	
9590 (LT)	32	45	47	44	14,839	30	5,382	
46P50 (RT)	31	45	44	39	4,841	27	5,276	
73-55RR (RT)	—	—	—	43	767	33	5,181	
2012CL (ST)	—	—	—	—	—	27	4,901	
5020 (LT)	33	48	48	45	13,615	34	4,480	
VT500 (RT)	—	—	—	—	—	27	4,103	
PIONEER 45S51 (RT)	—	—	48	43	8,236	32	3,042	
6060RR (RT)	—	—	—	—	—	38	2,944	
PIONEER 45S52 (RT)	—	—	—	—	—	31	2,826	
45H73 (ST)	32	47	47	41	653	28	2,705	
34-65 (RT)	29	40	42	35	3,681	27	1,883	
6040RR (RT)	—	—	—	42	3,703	31	1,817	
NEXERA NX4-106RR (RT)	—	—	—	48	553	33	1,607	
45H26 (RT)	32	45	48	44	11,215	35	1,453	
1014RR (RT)	—	—	—	—	—	35	1,421	
1818 (RT)	28	44	46	43	1,038	31	831	
9557S (RT)	—	—	—	—	—	26	811	
CANTERRA 1818RR (RT)	—	—	—	—	—	30	733	
V2035 (RT)	—	—	—	—	—	29	706	
CANTERRA 1970 (RT)	—	—	—	—	—	38	683	
NEXERA NX4-205CL (ST)	—	—	—	36	875	28	586	
NX4 101 RR	—	—	46	—	—	24	584	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.3	325,439	

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
HARVEST (RS)	53	60	66	59	84,311	45	99,320	
KANE (RS)	—	66	61	50	84,511	40	55,462	
AC DOMAIN (RS)	41	55	59	50	42,068	38	29,208	
GLENN (RS)	—	—	64	50	35,822	42	24,378	
CDC FALCON (W)	64	75	73	73	23,162	64	18,053	
5603 HR (RS)	—	—	—	57	1,431	35	10,206	
AC BARRIE (RS)	38	55	58	45	11,458	34	4,565	
CARBERRY (RS)	—	—	—	—	—	47	3,681	
5602HR (RS)	45	53	57	47	11,460	43	3,335	
WR 859 CL (RS)	—	—	—	—	—	40	3,040	
AC WASKADA (RS)	—	—	—	42	1,974	29	2,782	
CDC BUTEO (W)	57	72	67	73	1,801	68	2,591	
SNOWSTAR (HWS)	—	—	60	55	2,607	60	1,345	
MCKENZIE (RS)	43	48	49	41	2,425	26	1,226	
CDC ABOUND (RS)	—	—	61	52	2,358	39	1,140	
MCCLINTOCK (W)	58	71	70	82	591	61	1,026	
CDC GO (RS)	61	67	72	63	2,573	51	808	
AC CORA (RS)	41	48	56	48	1,076	34	774	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						43.6	266,301	

SOYBEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
LS 0065RR (RT)	—	—	41	32	1,691	34	1,526	
ISISRR (RT)	—	—	—	29	1,425	31	987	
90M01 (RT)	34	34	—	32	655	28	930	
90A06 (RT)	—	29	26	34	1,034	18	871	
900Y71 (RT)	—	—	—	—	—	28	577	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						28.9	7,589	

OATS YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
FURLONG	94	106	108	105	9,415	86	7,166
SOURIS	—	—	117	110	3,832	95	4,483
LEGGETT	107	110	120	92	1,800	89	1,437
RONALD	95	117	89	94	711	89	570
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						88.0	15,161

BARLEY* YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
CONLON	64	82	85	77	22,189	50	17,876
NEWDALE	69	82	91	76	8,068	51	7,739
ROBUST	60	76	84	75	5,197	52	3,069
TRADITION	60	78	84	67	2,785	54	1,958
STELLAR-ND	—	—	—	74	883	40	1,707
BENTLEY	—	—	—	—	—	59	1,615
CHAMPION	—	—	—	83	1,151	46	1,015
CDC COWBOY	—	—	83	68	1,025	51	980
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						50.2	37,089

CORN YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
PIONEER 39D95 (RT)	—	77	47	120	1,547	108	1,527
DEKALB DKC26-79(RT)	109	70	71	137	1,166	108	1,488
PIONEER P7213R (RT)	—	—	—	—	—	75	581
PIONEER 39D97 (BT)(LT)(RT)	—	112	117	113	716	94	546
PIONEER 39B94 (BT)(LT)(RT)	—	94	63	—	—	73	503
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						98.5	6,256

FLAX YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
LIGHTNING	22	27	33	26	4,801	24	4,023
CDC BETHUNE	27	26	28	22	3,095	19	2,157
CDC SORREL	25	26	26	19	1,262	22	1,458
HANLEY	23	26	29	23	1,739	21	1,278
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						22.4	9,117

DRY BEAN YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
T9905 (WHITE PEA)	—	—	—	2,233	981	2,216	1,510
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						2164.9	1,800

SUNFLOWER YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
PIONEER 63N82 (O)	—	—	—	1,486	2,710	1,235	2,123
SEEDS2000 6946 (C)	1,781	1,779	1,418	1,396	9,919	2,002	1,386
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1549.8	6,528

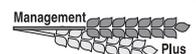
FIELD PEA YIELDS BY VARIETY 2007–2011†						RISK AREA 5	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
AGASSIZ	—	—	—	42	639	53	845
CDC MEADOW	—	—	—	46	1,002	40	577
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						49.7	1,955

RISK AREA 6

CANOLA YIELDS BY VARIETY 2007–2011†						RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres
5440 (LT)	—	46	50	38	69,790	27	50,903
INVIGOR L150 (LT)	—	—	—	—	—	30	24,466
45H29 (RT)	—	—	—	37	13,819	25	14,916
INVIGOR L130 (LT)	—	—	—	—	—	28	13,792
5770 (LT)	—	—	—	39	17,225	26	12,081
73-45RR (RT)	—	—	—	—	—	26	6,812
5030 (LT)	32	45	47	36	14,834	27	6,031
9553 (RT)	—	—	44	31	11,750	23	6,023
72-65 (RT)	—	—	42	35	16,219	26	5,876

† 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 8, 2012;
* Assuming 48 lbs./bu.





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CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
D3151 (RT)	—	—	52	33	3,588	25	5,116	
8440 (LT)	—	44	47	38	19,224	27	4,732	
NX4 105 RR	—	—	43	36	9,638	19	4,720	
45H74 (ST)	—	—	—	—	—	23	3,638	
9557S (RT)	—	—	—	35	2,890	26	3,502	
1012RR (RT)	—	—	—	—	—	27	3,446	
6060RR (RT)	—	—	—	—	—	25	3,442	
2012CL (ST)	—	—	—	—	—	18	3,370	
5070 (LT)	31	42	43	—	—	34	3,107	
1896 (RT)	—	—	—	—	—	14	2,842	
NEXERA NX4-106RR (RT)	—	—	—	—	—	24	2,728	
73-65RR (RT)	—	—	—	—	—	24	2,541	
D3150 (RT)	—	—	43	34	4,132	23	2,460	
1014RR (RT)	—	—	—	—	—	25	2,389	
VT500 (RT)	—	—	—	—	—	27	2,324	
PIONEER 45S51 (RT)	—	—	45	32	1,728	12	2,047	
PIONEER 45S52 (RT)	—	—	—	—	—	21	1,983	
43H57	—	—	41	21	934	17	1,951	
CANTERRA 1950 (RT)	—	—	—	36	757	25	1,947	
45H28 (RT)	—	45	48	37	21,512	29	1,809	
1145 (LT)	—	—	—	35	3,098	23	1,610	
45H73 (ST)	32	41	48	34	9,210	20	1,455	
45P70 (ST)	30	38	—	25	516	16	1,362	
VICTORY V1037 (RT)	—	—	44	27	8,580	23	1,257	
6040RR (RT)	—	—	—	32	830	29	1,226	
72-55RR (RT)	—	—	46	31	21,350	22	1,212	
VICTORY V1040 (RT)	—	—	—	41	735	18	1,135	
VT REMARKABLE (RT)	—	—	—	31	2,487	20	1,112	
NEXERA NX4-205CL (ST)	—	—	—	27	914	20	922	
997RR (RT)	—	37	41	24	1,101	13	855	
71-45RR (RT)	28	40	43	29	4,440	24	790	
1818 (RT)	27	37	35	22	725	10	789	
73-55RR (RT)	—	—	—	—	—	21	711	
94H04 (RT)	—	—	—	—	—	28	669	
5020 (LT)	28	42	45	34	9,703	26	657	
46A76 (ST)	24	33	26	19	1,798	10	626	
73-75 RR (RT)	—	—	—	—	—	28	623	
1841 (RT)	31	39	45	31	2,370	34	505	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						25.7	225,820	

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
GLENN (RS)	—	—	52	44	29,467	41	49,145	
KANE (RS)	—	53	53	41	57,057	37	35,494	
HARVEST (RS)	—	52	56	41	20,860	41	23,995	
AC DOMAIN (RS)	37	47	48	39	26,147	35	13,801	
5602HR (RS)	39	47	52	41	32,114	42	13,700	
WR 859 CL (RS)	—	—	—	48	1,852	41	10,009	
CDC GO (RS)	—	50	57	47	10,250	44	8,495	
5603 HR (RS)	—	—	—	42	1,019	48	8,145	
AC INTREPID (RS)	45	54	56	42	13,813	38	7,362	
UNITY VB (RS)	—	—	—	36	1,128	37	5,535	
SNOWSTAR (HWS)	—	—	58	43	8,098	38	5,121	
CDC FALCON (W)	59	62	58	70	5,113	63	4,720	
AC BARRIE (RS)	32	47	49	39	10,505	41	4,428	
GOODEVE (RS)	—	—	—	40	593	34	3,682	
AC WASKADA (RS)	—	—	53	36	4,190	29	3,032	
CDC BUTEO (W)	56	58	55	57	3,355	50	2,701	
CARBERRY (RS)	—	—	—	—	—	44	2,234	
SUPERB (RS)	40	50	54	45	5,777	37	1,963	
CDC PTARMIGAN (W)	—	—	—	80	1,150	67	1,625	
BRIGGS (F)	61	75	75	52	2,443	40	1,607	
5601HR (RS)	35	48	52	37	3,767	37	1,573	
MCKENZIE (RS)	40	49	51	43	3,793	33	1,545	
AC ANDREW (F)	48	60	58	41	4,762	41	1,518	
CDC TEAL (RS)	33	45	49	33	1,340	29	1,418	
WFT 409 (F)	—	—	—	41	2,077	34	930	
SOMERSET (RS)	39	51	48	—	—	33	836	
CDC ALSASK (RS)	—	54	52	40	2,035	40	812	
CDC IMAGINE (RS)	39	46	45	37	1,656	31	736	
AC SPLENDOR (RS)	24	48	33	31	772	27	712	
RUSS (F)	41	39	43	38	1,255	42	703	
WFT 411 (F)	—	—	—	48	2,143	35	501	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						40.4	221,398	

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
LEGGETT	88	106	102	87	6,422	65	6,347	
SOURIS	—	—	—	79	2,107	68	3,042	
TRIPLE CROWN	87	118	108	107	2,838	98	2,707	
CDC DANCER	106	120	118	105	2,712	62	2,561	
PINNACLE	87	106	112	105	3,950	77	2,121	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						71.7	18,891	

BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
NEWDALE	53	67	74	50	9,800	30	8,765	
AC METCALFE	50	66	71	50	12,070	36	6,092	
LEGACY	65	80	81	55	6,607	32	2,747	
CDC TREY	62	74	67	48	4,116	35	2,226	
CONLON	62	73	85	45	5,548	47	1,982	
STELLAR-ND	—	—	—	—	—	42	1,311	
CDC COALITION	—	—	—	—	—	33	1,070	
CDC COWBOY	—	71	77	36	1,640	31	588	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.0	27,780	

FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC BETHUNE	23	26	28	20	11,413	19	2,285	
CDC SORREL	—	26	29	21	5,891	19	2,068	
TAURUS	21	25	30	—	—	19	1,216	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						19.1	7,089	

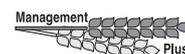
FIELD PEA YIELDS BY VARIETY 2007–2011†							RISK AREA 6	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC MEADOW	—	—	55	36	1,952	24	1,150	
ECLIPSE	42	38	54	40	2,203	28	626	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						22.2	3,395	

RISK AREA 7

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
5440 (LT)	—	47	49	41	40,645	29	25,782	
INVIGOR L150 (LT)	—	—	—	—	—	29	12,635	
45H29 (RT)	—	—	—	39	2,984	33	9,708	
73-45RR (RT)	—	—	—	—	—	30	7,496	
INVIGOR L130 (LT)	—	—	—	—	—	27	7,444	
8440 (LT)	—	48	50	42	8,471	32	7,026	
NEXERA NX4-106RR (RT)	—	—	—	43	746	28	4,261	
NX4 105 RR	—	—	45	38	14,132	30	3,955	
6060RR (RT)	—	—	—	—	—	27	3,455	
73-67 RR (RT)	—	—	—	—	—	26	3,279	
72-65 (RT)	—	—	45	38	10,365	28	2,988	
73-65RR (RT)	—	—	—	—	—	29	2,346	
73-55RR (RT)	—	—	—	33	700	30	1,793	
9553 (RT)	—	—	47	36	1,579	27	1,688	
5030 (LT)	31	44	46	39	3,549	20	1,646	
1012RR (RT)	—	—	—	—	—	34	1,643	
D3151 (RT)	—	—	39	39	1,052	32	1,593	
72-55RR (RT)	—	—	46	31	7,207	20	1,382	
5770 (LT)	—	—	—	40	8,206	33	1,271	
1141 (LT)	—	48	51	39	1,943	21	1,214	
1896 (RT)	—	—	—	—	—	21	1,090	
71-45RR (RT)	28	40	44	31	4,739	32	1,072	
997RR (RT)	—	—	40	36	510	21	992	
CANTERRA 1950 (RT)	—	—	—	34	1,343	25	976	
1145 (LT)	—	—	—	42	875	34	958	
34-65 (RT)	29	35	39	32	3,320	20	943	
D3150 (RT)	—	—	43	38	2,814	15	659	
45H26 (RT)	—	44	45	35	2,140	31	625	
5020 (LT)	28	43	40	37	4,520	25	618	
VT500 (RT)	—	—	—	—	—	23	612	
45H28 (RT)	—	—	44	36	14,472	32	571	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						28.8	120,351	

† 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 8, 2012;
* Assuming 48 lbs./bu.



WHEAT YIELDS BY VARIETY 2007-2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
HARVEST (RS)	48	56	52	42	26,428	40	24,795	
KANE (RS)	—	63	50	44	21,622	39	15,961	
GLENN (RS)	—	—	55	43	10,457	41	12,345	
AC BARRIE (RS)	35	47	48	43	12,906	41	9,227	
UNITY VB (RS)	—	—	50	48	5,366	42	6,047	
GOODEVE (RS)	—	—	—	49	949	39	5,590	
WR 859 CL (RS)	—	—	—	48	826	42	5,354	
AC DOMAIN (RS)	37	45	45	37	11,647	34	5,021	
CARBERRY (RS)	—	—	—	—	—	49	3,761	
INFINITY (RS)	46	55	54	45	2,570	44	3,079	
5602HR (RS)	39	50	48	42	4,106	41	2,594	
5400IP (RS)	42	48	45	39	5,086	30	2,464	
AC INTREPID (RS)	41	50	51	37	3,124	37	1,721	
CDC TEAL (RS)	45	51	52	51	5,493	45	1,718	
SNOWSTAR (HWS)	—	—	55	52	1,768	38	1,319	
FIELDSTAR VB (RS)	—	—	—	45	701	41	1,172	
5603 HR (RS)	—	—	—	—	—	48	1,112	
CDC BUTEO (W)	56	65	65	62	737	57	1,059	
AC ANDREW (F)	—	—	58	56	743	62	956	
ALVENA (RS)	—	—	—	—	—	40	874	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						40.8	109,074	

OATS YIELDS BY VARIETY 2007-2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
PINNACLE	79	110	97	101	1,587	78	3,432	
FURLONG	87	126	91	120	2,277	109	2,164	
CDC DANCER	96	137	111	102	2,072	52	1,248	
SOURIS	—	—	—	99	1,415	74	1,149	
RONALD	84	102	—	—	—	32	1,141	
TRIACTOR	—	—	—	—	—	91	1,139	
LEGGETT	97	112	74	91	1,983	54	1,071	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						72.4	12,786	

BARLEY* YIELDS BY VARIETY 2007-2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
AC METCALFE	51	69	71	56	9,779	28	3,324	
CDC COPELAND	57	72	73	63	2,781	25	1,988	
LEGACY	71	84	76	68	5,352	37	1,710	
NEWDALE	—	94	—	78	881	36	1,419	
STELLAR-ND	—	—	—	—	—	47	1,364	
CDC COWBOY	—	70	66	54	1,528	11	1,077	
CDC TREY	49	71	75	61	950	34	652	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						31.1	12,027	

FLAX YIELDS BY VARIETY 2007-2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CDC SORREL	—	29	31	24	3,680	16	608	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						20.1	2,651	

FIELD PEA YIELDS BY VARIETY 2007-2011†							RISK AREA 7	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CDC MEADOW	—	—	46	44	2,531	22	731	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES						22.8	2,972	

RISK AREA 8

CANOLA YIELDS BY VARIETY 2007-2011†							RISK AREA 8	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	50	51	36	107,755	42	108,043	
INVIGOR L150 (LT)	—	—	—	—	—	45	25,224	
73-65RR (RT)	—	—	—	—	—	42	10,818	
INVIGOR L130 (LT)	—	—	—	—	—	45	9,512	
5770 (LT)	—	—	—	40	6,929	45	8,251	
72-65 (RT)	—	—	—	32	9,398	37	7,261	
5030 (LT)	32	47	47	27	12,149	44	6,502	
VT500 (RT)	—	—	—	—	—	33	3,972	
5020 (LT)	30	44	41	25	6,368	33	3,318	
9553 (RT)	—	—	36	26	4,389	34	3,000	
VICTORY V1037 (RT)	—	—	44	23	4,862	30	2,705	
1145 (LT)	—	—	—	35	4,434	40	2,275	

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

‡ On system as of January 8, 2012;

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

* Assuming 48 lbs./bu.



CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 8	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
8440 (LT)	—	47	52	53	1,515	52	2,268	
PIONEER 45S52 (RT)	—	—	—	—	—	37	2,084	
997RR (RT)	—	26	33	21	1,523	21	1,759	
73-55RR (RT)	—	—	—	—	—	39	1,544	
9590 (LT)	39	46	47	32	7,473	40	1,476	
72-55RR (RT)	—	—	46	27	6,885	35	1,471	
NX4 105 RR	—	—	—	25	1,966	35	1,342	
PIONEER 45S51 (RT)	—	—	44	—	—	35	1,329	
VICTORY V1040 (RT)	—	—	—	—	—	30	1,115	
45H29 (RT)	—	—	—	37	560	44	1,098	
6040RR (RT)	—	—	—	—	—	47	782	
73-45RR (RT)	—	—	—	—	—	35	633	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						41.2	213,226	

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 8	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
SOURIS	—	—	88	99	1,269	109	1,938	
TRIPLE CROWN	44	68	84	54	635	33	922	
RONALD	72	98	84	73	600	59	647	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						76.8	4,830	

BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 8	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CONLON	34	65	—	—	—	30	552	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						38.1	2,354	

RISK AREA 9

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	46	45	25	117,359	31	103,089	
INVIGOR L150 (LT)	—	—	—	—	—	33	32,649	
5770 (LT)	—	—	—	23	19,845	31	17,499	
INVIGOR L130 (LT)	—	—	—	—	—	33	16,830	
73-45RR (RT)	—	—	—	—	—	33	15,778	
45H29 (RT)	—	—	—	45	2,046	32	9,607	
NEXERA NX4-106RR (RT)	—	—	—	—	—	33	6,418	
72-65 (RT)	—	—	44	31	8,380	22	5,711	
5020 (LT)	21	41	44	33	9,626	27	5,009	
5030 (LT)	25	44	43	25	8,516	28	4,677	
PIONEER 45S51 (RT)	—	—	43	29	8,276	35	4,620	
73-65RR (RT)	—	—	—	—	—	27	4,475	
NX4 105 RR	—	—	44	24	15,362	25	4,190	
9553 (RT)	—	—	45	37	10,018	31	3,425	
1145 (LT)	—	—	—	19	7,886	27	3,316	
VICTORY V1037 (RT)	—	42	39	18	9,659	28	3,197	

† 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 8, 2012;
* Assuming 48 lbs./bu.



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CANOLA YIELDS BY VARIETY 2007-2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
PIONEER 45S52 (RT)	—	—	—	—	—	29	2,550	
1141 (LT)	—	36	38	14	6,513	30	2,500	
73-55RR (RT)	—	—	—	38	745	31	2,283	
D3151 (RT)	—	—	—	24	1,052	22	2,095	
VT500 (RT)	—	—	—	—	—	33	1,964	
34-65 (RT)	26	34	42	31	3,764	28	1,875	
6060RR (RT)	—	—	—	—	—	25	1,864	
CANTERRA 1970 (RT)	—	—	—	—	—	23	1,797	
1012RR (RT)	—	—	—	—	—	34	1,737	
VICTORY V1040 (RT)	—	—	—	13	833	24	1,727	
72-55RR (RT)	—	—	42	21	11,666	20	1,569	
1014RR (RT)	—	—	—	—	—	27	1,453	
CANTERRA 1950 (RT)	—	—	—	28	754	24	1,363	
45H73 (ST)	—	—	—	45	2,535	47	1,175	
8440 (LT)	—	47	55	38	3,140	39	1,133	
45H74 (ST)	—	—	—	—	—	32	946	
NEXERA NX4-205CL (ST)	—	—	—	18	1,425	34	869	
45H26 (RT)	—	44	44	29	1,905	37	559	
4414 (RT)	20	37	40	16	1,045	18	517	
VICTORY V2030 (RT)	—	—	37	17	1,097	20	507	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						30.5	285,627	

WHEAT YIELDS BY VARIETY 2007-2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
HARVEST (RS)	39	55	48	37	71,187	46	53,908	
AC DOMAIN (RS)	31	49	42	28	55,190	31	31,960	
KANE (RS)	—	59	46	30	28,454	34	24,137	
GLENN (RS)	—	—	48	31	20,684	39	14,723	
AC BARRIE (RS)	34	46	44	25	23,836	29	8,557	
CDC BUTEO (W)	48	63	46	45	1,886	41	7,702	
SUPERB (RS)	40	50	47	32	9,754	31	4,687	
INFINITY (RS)	50	60	42	38	1,917	52	4,093	
UNITY VB (RS)	—	—	—	59	853	51	3,483	
AC WASKADA (RS)	—	—	54	32	4,699	36	3,348	
WR 859 CL (RS)	—	—	—	35	3,296	39	2,660	
5603 HR (RS)	—	—	—	39	589	35	2,219	
CDC TEAL (RS)	35	53	42	47	13,281	36	2,155	
AC INTREPID (RS)	32	54	43	44	3,002	45	1,431	
AC VISTA (PS)	42	75	53	26	2,428	38	1,199	
5400IP (RS)	36	53	57	52	963	55	1,090	
GOODEVE (RS)	—	—	—	—	—	42	525	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						39.1	175,945	

SOYBEAN YIELDS BY VARIETY 2007-2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
LS 0036RR (RT)	—	—	32	26	1,205	33	1,866	
LS 0028RR (RT)	—	—	—	28	1,447	30	992	
THUNDER 27005RR (RT)	—	—	—	—	—	30	792	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						30.5	5,017	

OATS YIELDS BY VARIETY 2007-2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
SOURIS	—	—	89	77	1,374	71	2,227	
RONALD	70	91	83	76	1,753	70	1,826	
LEGGETT	65	100	94	54	3,841	43	1,393	
TRIPLE CROWN	55	75	71	58	726	69	1,060	
TRIACTOR	—	—	—	66	545	78	875	
AC MORGAN	—	—	—	—	—	98	787	
FURLONG	59	94	75	64	1,808	34	527	
JORDAN	—	107	106	—	—	38	502	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡						63.7	12,408	

BARLEY* YIELDS BY VARIETY 2007-2011†							RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CONLON	48	58	61	31	2,931	39	1,707	
AC METCALFE	38	72	68	29	2,728	32	1,618	
CDC YORKTON	52	82	77	56	2,091	45	1,501	
CDC STRATUS	54	94	80	39	1,003	12	1,139	
NEWDALE	51	—	—	—	—	41	902	
BENTLEY	—	—	—	—	—	47	788	
CDC COWBOY	—	—	65	34	3,011	45	778	
LEGACY	54	76	70	42	2,664	35	729	
TRADITION	52	74	78	52	3,033	32	725	

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

‡ On system as of January 8, 2012;

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

* Assuming 48 lbs./bu.



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BARLEY* YIELDS BY VARIETY 2007-2011†						RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
STELLAR-ND	—	—	—	—	—	35	666
LACEY	55	66	64	37	700	29	607
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						35.5	14,251

FLAX YIELDS BY VARIETY 2007-2011†						RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
CDC BETHUNE	19	22	24	12	744	17	567
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						16.1	1,369

FIELD PEA YIELDS BY VARIETY 2007-2011†						RISK AREA 9	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
LIVIOLETTA	—	36	42	12	638	27	882
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						33.5	1,383

RISK AREA 10

CANOLA YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
5440 (LT)	—	39	49	31	32,454	35	38,876
INVIGOR L150 (LT)	—	—	—	—	—	34	10,668
5770 (LT)	—	—	—	38	9,799	35	4,801
INVIGOR L130 (LT)	—	—	—	—	—	36	4,628
8440 (LT)	—	44	52	38	10,466	32	3,736
45H29 (RT)	—	—	—	46	965	34	3,325
45H74 (ST)	—	—	—	—	—	43	2,980
1145 (LT)	—	—	—	28	3,318	35	2,828
72-65 (RT)	—	—	—	28	1,863	28	2,242
45H73 (ST)	—	—	45	42	2,173	30	1,856
5030 (LT)	25	38	48	22	7,128	34	1,775
73-45RR (RT)	—	—	—	—	—	28	1,254



PINTO	BLACK	CRANBERRY
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Windbreaker		Etna
* Stampede	LIGHT RED KIDNEY	
* ND-307	Pink Panther	GREAT NORTHERN
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CANOLA YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
PIONEER 45S51 (RT)	—	—	—	36	3,165	35	1,085
73-65RR (RT)	—	—	—	—	—	32	1,029
5020 (LT)	30	36	42	38	2,400	34	893
V2035 (RT)	—	—	—	—	—	34	881
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.5	87,641

WHEAT YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
CDC FALCON (W)	62	71	70	67	14,026	55	18,136
GLENN (RS)	—	—	67	46	14,678	41	8,928
AC BARRIE (RS)	44	51	55	42	13,133	31	7,130
KANE (RS)	—	—	59	43	6,475	27	4,313
CDC BUTE0 (W)	—	62	76	—	—	31	1,947
5603 HR (RS)	—	—	—	—	—	29	864
WR 859 CL (RS)	—	—	—	—	—	42	861
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						42.7	45,922

SOYBEAN YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
ISISRR (RT)	—	—	—	30	1,722	28	3,046
LS 0065RR (RT)	30	32	38	38	4,838	29	2,279
LS 0036RR (RT)	—	—	32	20	1,724	19	2,036
NSC WARREN RR (RT)	—	—	33	—	—	28	1,555
NSC ARGYLE RR (RT)	—	—	—	—	—	32	865
900Y71 (RT)	—	—	—	—	—	30	730
NSC PORTAGE RR (RT)	—	32	31	31	4,166	29	716
90M01 (RT)	37	30	29	31	4,701	29	675
PS 0027RR (RT)	—	—	—	—	—	35	600
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						27.7	14,622

OATS YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
SOURIS	—	—	118	84	5,949	70	5,447
FURLONG	88	90	109	83	5,614	81	4,391
LEGGETT	91	92	98	68	9,182	74	2,819
RONALD	91	99	93	77	2,632	86	711
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						74.8	15,374

BARLEY* YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
CONLON	62	64	76	42	6,599	33	7,920
LACEY	62	73	82	62	1,457	44	2,000
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						34.9	11,971

CORN YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
PIONEER 39D95 (RT)	—	102	66	113	6,113	97	5,831
PIONEER 39D97 (BT)(LT)(RT)	124	113	63	114	3,759	90	2,945
PIONEER P7213R (RT)	—	—	—	86	765	81	2,196
PIONEER 39B94 (BT)(LT)(RT)	—	104	85	113	4,689	100	1,953
PRIDE A4176 (BT)(RT)	—	—	64	96	1,459	76	1,472
DEKALB DKC26-79(RT)	113	93	64	91	3,072	99	1,220
P7443R (RT)	—	—	—	—	—	84	1,181
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						89.8	18,877

DRY BEAN YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
ENVOY (WHITE PEA)	1,473	1,299	1,526	1,063	6,376	1,014	893
PINK PANTHER (KIDNEY)	1,850	1,504	1,995	1,076	2,595	1,030	536
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1213.6	2,162

SUNFLOWER YIELDS BY VARIETY 2007-2011†						RISK AREA 10	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
SEEDS2000 6946 (C)	1,876	1,567	1,446	1,195	4,836	1,556	824
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						1477.1	1,887

† 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 8, 2012;
 * Assuming 48 lbs./bu.



RISK AREA 11

CANOLA YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
5440 (LT)	—	45	47	33	80,749	29	63,261		
INVIGOR L150 (LT)	—	—	—	—	—	31	16,260		
5770 (LT)	—	—	—	41	21,431	29	11,962		
8440 (LT)	—	40	46	37	26,029	33	11,069		
INVIGOR L130 (LT)	—	—	—	—	—	29	7,103		
72-65 (RT)	—	—	31	25	12,382	23	5,059		
45H29 (RT)	—	—	—	27	2,690	29	4,329		
NX4 105 RR	—	—	47	28	6,381	20	3,744		
9553 (RT)	—	—	26	19	3,177	16	3,036		
72-55RR (RT)	—	—	43	28	8,862	30	2,647		
V2035 (RT)	—	—	—	—	—	23	1,899		
CANTERRA 1970 (RT)	—	—	—	—	—	28	1,727		
CANTERRA 1818RR (RT)	—	—	—	—	—	16	1,589		
73-55RR (RT)	—	—	—	—	—	34	1,544		
CANTERRA 1950 (RT)	—	—	—	34	3,200	28	1,501		
73-45RR (RT)	—	—	—	—	—	26	1,392		
73-65RR (RT)	—	—	—	—	—	21	1,391		
VT500 (RT)	—	—	—	—	—	19	1,383		
5030 (LT)	34	40	47	22	10,242	21	1,339		
1852H (RT)	—	—	—	—	—	31	1,334		
1818 (RT)	30	37	39	26	3,441	19	1,294		
5020 (LT)	30	38	43	26	3,119	23	1,068		
NEXERA NX4-106RR (RT)	—	—	—	—	—	18	967		
D3151 (RT)	—	—	39	22	3,889	12	783		
6060RR (RT)	—	—	—	—	—	25	777		
9590 (LT)	30	37	34	22	2,810	14	719		
CANTERRA 1918 (RT)	—	—	—	—	—	25	706		
CANTERRA 1841RR (RT)	—	—	—	—	—	15	658		
NX4 107RR (RT)	—	—	—	—	—	30	557		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						28.0	159,178		

WHEAT YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
KANE (RS)	—	60	58	43	55,886	39	35,669		
GLENN (RS)	—	—	61	43	50,486	39	24,113		
CDC FALCON (W)	75	79	69	64	24,912	67	12,250		
AC BARRIE (RS)	46	52	53	35	27,070	33	8,439		
WR 859 CL (RS)	—	—	—	59	2,149	39	7,063		
5603 HR (RS)	—	—	—	—	—	33	3,224		
FALLER (F)	—	—	—	51	1,063	32	3,099		
CARBERRY (RS)	—	—	—	—	—	41	3,059		
AC DOMAIN (RS)	50	50	52	42	5,387	42	2,022		

WHEAT YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
5601HR (RS)	48	41	51	34	979	38	1,338		
AC WASKADA (RS)	—	—	54	42	970	29	1,125		
5602HR (RS)	50	48	47	26	9,658	28	750		
SNOWSTAR (HWS)	—	—	—	—	—	42	654		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						41.6	105,443		

SOYBEAN YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
NSC WARREN RR (RT)	—	31	35	31	6,815	24	7,805		
NSC PORTAGE RR (RT)	—	36	36	39	4,436	29	2,120		
LS 0065RR (RT)	—	36	37	39	5,483	33	2,051		
ISISRR (RT)	—	—	—	37	573	22	1,848		
25-04R (RT)	—	—	—	41	647	23	1,600		
900Y71 (RT)	—	—	—	33	672	25	1,588		
NSC ARGYLE RR (RT)	—	—	—	—	—	33	1,326		
THUNDER 27005RR (RT)	—	—	25	10	1,507	29	1,079		
MONTCALM (RT)	29	35	25	29	900	20	785		
LS 0036RR (RT)	33	24	29	23	1,643	24	726		
90M01 (RT)	—	—	25	30	792	14	698		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						24.8	27,300		

OATS YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
FURLONG	101	112	100	79	13,598	61	7,759		
SUMMIT	—	—	—	107	1,017	56	5,342		
SOURIS	—	—	—	111	2,486	75	5,323		
TRIACTOR	—	—	—	81	1,260	72	2,906		
LEGGETT	107	117	113	76	16,139	55	1,964		
CDC DANCER	110	104	97	67	2,846	44	1,833		
RONALD	102	105	84	89	1,302	43	1,099		
AC ASSINIBOIA	90	94	88	65	1,694	113	1,057		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						63.8	27,633		

BARLEY* YIELDS BY VARIETY 2007-2011†								RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	2011 Yield	2011† Acres
CONLON	83	84	86	62	23,516	38	12,895		
CDC MINDON	—	—	—	54	916	30	2,995		
CDC COALITION	—	—	—	96	2,345	83	1,408		
NEWDAL	71	75	73	23	1,660	18	741		
TRADITION	63	68	82	50	1,496	21	720		
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES§						39.5	21,071		

† 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 8, 2012;
* Assuming 48 lbs./bu.



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CORN YIELDS BY VARIETY 2007–2011†							RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
DEKALB DKC26-79(RT)	98	126	92	92	1,027	134	739	
PIONEER P7213R (RT)	—	—	—	—	—	69	505	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							92.9	2,846

FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC SORREL	—	26	30	16	2,507	17	1,925	
HANLEY	20	25	31	11	643	18	612	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							16.4	3,879

DRY BEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
ENVOY (WHITE PEA)	1,398	1,473	1,550	1,528	11,272	2,176	6,060	
T9905 (WHITE PEA)	—	—	—	2,202	1,038	2,269	1,550	
T9903 (WHITE PEA)	—	1,642	1,709	1,755	3,071	1,799	1,485	
CARGO (WHITE PEA)	1,490	1,534	1,579	1,539	3,084	1,870	1,455	
PINK PANTHER (KIDNEY)	1,217	1,290	2,066	1,581	3,403	1,905	1,446	
ECLIPSE (BLACK)	—	1,676	2,030	1,892	1,496	2,337	843	
FOXFIRE (KIDNEY)	1,186	1,078	2,136	2,136	536	2,172	642	
WINDBREAKER (PINTO)	—	2,075	2,299	2,156	3,008	2,299	581	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							2106.9	16,454

SUNFLOWER YIELDS BY VARIETY 2007–2011†							RISK AREA 11	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
PIONEER 63N82 (O)	—	—	—	—	—	983	859	
SEEDS2000 6946 (C)	2,275	1,898	1,717	1,451	5,413	1,711	654	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							1347.4	1,958

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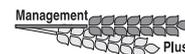
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RISK AREA 12								
CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
5440 (LT)	—	42	40	30	236,784	27	253,577	
INVIGOR L150 (LT)	—	—	—	—	—	28	92,053	
5770 (LT)	—	—	—	32	73,612	27	89,984	
INVIGOR L130 (LT)	—	—	—	—	—	26	36,232	
5030 (LT)	33	44	40	31	43,487	23	24,722	
8440 (LT)	—	43	39	29	70,826	24	17,476	
2012CL (ST)	—	—	—	—	—	24	16,918	
45H29 (RT)	—	—	—	23	6,377	22	13,490	
1145 (LT)	—	—	—	33	39,359	30	9,915	
9590 (LT)	31	43	37	25	18,150	22	7,783	
72-65 (RT)	—	—	29	23	16,577	14	7,432	
45H74 (ST)	—	—	—	—	—	27	7,079	
73-45RR (RT)	—	—	—	—	—	14	5,601	
5020 (LT)	30	42	35	27	23,605	27	5,171	
73-65RR (RT)	—	—	—	33	520	19	4,880	
5525 CL (ST)	—	—	—	29	2,022	22	4,534	
72-55RR (RT)	—	—	34	15	10,399	11	3,915	
45H73 (ST)	32	41	37	27	8,718	27	3,725	
73-55RR (RT)	—	—	—	—	—	20	3,214	
PIONEER 45S52 (RT)	—	—	—	—	—	22	2,848	
CANTERRA 1970 (RT)	—	—	—	—	—	22	2,613	
D3151 (RT)	—	—	31	20	4,112	17	2,496	
5070 (LT)	33	43	34	30	1,587	31	2,324	
V2035 (RT)	—	—	—	—	—	18	2,273	
NX4 105 RR	—	—	35	31	5,090	23	1,581	
VT500 (RT)	—	—	—	—	—	24	1,552	
5535CL (ST)	—	—	—	—	—	18	1,511	
9553 (RT)	—	—	33	30	5,064	20	1,451	
CANTERRA 1950 (RT)	—	—	—	26	4,467	18	1,385	
1818 (RT)	31	34	31	18	3,020	16	1,384	
71-45RR (RT)	27	38	32	22	5,009	16	1,293	
45H26 (RT)	28	43	34	27	5,966	20	1,204	
NEXERA NX4-106RR (RT)	—	—	—	—	—	17	1,165	
NX4 107RR (RT)	—	—	—	—	—	23	1,075	
CANTERRA 1841RR (RT)	—	—	—	—	—	13	1,069	
1014RR (RT)	—	—	—	—	—	31	990	
45P70 (ST)	29	37	—	27	859	25	913	
1852H (RT)	—	—	—	—	—	23	816	
NEXERA NX4-205CL (ST)	—	—	—	35	5,769	32	786	
1896 (RT)	—	—	—	—	—	14	688	
1012RR (RT)	—	—	—	—	—	21	624	
1651H (ST)	—	36	29	27	1,034	31	610	
45H28 (RT)	—	43	36	27	6,832	20	573	
CANTERRA 1818RR (RT)	—	—	—	—	—	8	566	
1841 (RT)	30	37	33	20	2,331	21	558	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							25.7	651,828

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
KANE (RS)	49	64	52	41	149,481	35	135,033	
GLENN (RS)	—	—	56	40	146,767	39	123,261	
AC BARRIE (RS)	44	55	49	37	56,230	34	37,867	
CDC FALCON (W)	74	80	61	66	51,200	64	35,403	
AC DOMAIN (RS)	46	60	55	50	22,214	45	25,711	
WR 859 CL (RS)	—	—	—	42	5,721	36	18,135	
CDC GO (RS)	57	64	62	61	6,811	49	9,153	
CARBERRY (RS)	—	—	—	—	—	43	7,926	
5603 HR (RS)	—	—	—	45	1,996	41	7,919	
FALLER (F)	—	—	—	41	4,454	47	4,929	
5602HR (RS)	49	50	45	32	15,697	37	4,465	
HARVEST (RS)	—	55	60	57	3,358	49	2,843	
5601HR (RS)	47	47	44	30	4,459	27	1,764	
AC WASKADA (RS)	—	—	58	33	1,129	39	1,005	
AC CORA (RS)	36	48	55	51	841	31	656	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							40.1	420,566

† 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 8, 2012;
 * Assuming 48 lbs./bu.



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SOYBEAN YIELDS BY VARIETY 2007–2011†						RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
25-04R (RT)	—	35	35	36	47,399	29	73,643
ISISRR (RT)	—	—	37	36	36,159	26	49,918
LS 0065RR (RT)	45	36	36	36	43,934	28	42,520
NSC WARREN RR (RT)	—	32	29	27	25,146	20	33,206
NSC ARGYLE RR (RT)	—	—	—	39	4,574	27	25,712
90M01 (RT)	41	33	33	33	46,321	25	24,297
NSC PORTAGE RR (RT)	40	36	30	32	70,622	24	22,710
900Y71 (RT)	—	—	—	32	2,488	25	22,624
OAC PRUDENCE	35	32	30	33	17,625	21	15,291
LS 0028RR (RT)	—	—	32	32	7,272	26	11,119
25-10RY (RT)	—	—	—	—	—	32	9,621
90A06 (RT)	36	34	27	29	16,895	20	7,864
LS 0036RR (RT)	37	35	26	29	7,939	25	6,742
NSC OSBORNE RR2Y (RT)	—	—	—	38	560	29	5,963
THUNDER 27005RR (RT)	—	33	26	30	2,848	24	5,427
900Y61 (RT)	—	—	—	—	—	25	4,563
NSC COULEE RR (RT)	—	—	—	38	2,904	30	4,418
24-60RY (RT)	—	—	—	—	—	23	3,142
90A07	36	34	32	33	4,389	28	3,108
NSC ARGYLE RR (RT)	—	—	—	—	—	18	2,829
S00-W3 (RT)	—	—	—	—	—	24	2,671
MKZ609A1-B7YN (RT)	—	—	—	—	—	32	1,970
DEKALB 24-10 (RT)	—	—	—	—	—	38	1,437
AC COLIBRI	—	—	—	—	—	17	1,370
GENTLEMAN	28	—	24	33	1,152	20	1,183
23-10 (RT)	—	—	—	—	—	37	1,173
PS 0027RR (RT)	—	—	—	—	—	28	1,152
CHADBURN R2 (RT)	—	—	—	—	—	29	1,132
CKX4103-R2 (RT)	—	—	—	—	—	34	1,106
900Y81 (RT)	—	—	—	—	—	26	1,055
NSC ENTRY 14 (RT)	—	—	—	—	—	25	945

SOYBEAN YIELDS BY VARIETY 2007–2011†						RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
OAC ERIN	—	39	42	36	769	36	910
LS005R22 (RT)	—	—	—	—	—	32	839
RR ROSCO (RT)	33	33	34	30	2,356	35	832
NSRR2A2 (RT)	—	—	—	—	—	27	786
MKZ109A3-D3YN (RT)	—	—	—	—	—	38	707
NSC ENTRY 8 (RT)	—	—	—	—	—	31	552
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						25.9	408,574

OATS YIELDS BY VARIETY 2007–2011†						RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
SOURIS	—	140	129	94	45,991	72	68,505
TRIACTOR	—	—	133	111	21,606	88	34,499
FURLONG	111	122	115	79	52,337	62	27,430
RONALD	104	121	113	86	36,474	82	26,470
SUMMIT	—	—	—	89	1,472	57	21,427
LEGGETT	106	115	112	67	34,858	70	21,387
AC ASSINIBOIA	100	112	123	66	5,333	62	3,714
RIEL	99	118	107	50	3,597	44	3,378
PINNACLE	109	109	113	69	6,629	50	3,057
CDC DANCER	101	126	127	82	1,716	69	1,628
GEHL (HULLLESS)	—	—	—	—	—	32	978
JORDAN	102	129	114	73	2,006	23	675
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						71.6	214,668

BARLEY* YIELDS BY VARIETY 2007–2011†						RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
CONLON	72	83	77	49	28,304	35	19,660
CELEBRATION	—	—	—	70	688	57	6,185
TRADITION	71	95	69	44	5,564	32	4,635
NEWDALE	77	87	71	46	3,503	41	4,078
CHAMPION	—	—	—	53	1,482	47	3,681
CDC MINDON	—	—	—	31	2,259	46	2,531
STELLAR-ND	—	—	66	53	3,732	35	2,065
CDC COALITION	—	—	—	52	1,952	14	1,484
CDC COPELAND	52	76	63	20	3,338	22	558
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						38.4	47,713

CORN YIELDS BY VARIETY 2007–2011†						RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres
PIONEER 39D97 (BT)(LT)(RT)	130	132	31	124	29,705	104	27,558
PIONEER 39D95 (RT)	134	132	27	113	18,522	101	22,165
PIONEER P7213R (RT)	—	—	49	97	6,429	84	12,467
P7443R (RT)	—	—	—	—	—	94	11,012
DEKALB DKC26-79(RT)	127	126	37	118	11,123	96	6,717
PIONEER 39B94 (BT)(LT)(RT)	—	132	38	121	10,806	101	5,280
PIONEER 39Z69 (RT)	—	—	25	128	3,567	104	4,216
PIONEER 39V05 (RT)	—	—	—	—	—	126	3,295
PIONEER P7535HR (LT)(RT)(BT)	—	—	17	119	1,151	95	3,190
DEKALB DKC30-20 (RT)(BT)	—	—	—	—	—	104	3,075
PRIDE A4176 (BT)(RT)	—	—	35	114	2,353	81	2,188
LEGEND LR9975R (RT)	—	—	—	133	789	91	1,742
DEKALB DKC27-33 (RT)(BT)	—	—	—	128	1,743	114	1,638
DEKALB DKC 30-23 (RT)	—	—	—	—	—	113	1,242
HYLAND HL R208 (RT)	124	116	66	119	865	101	1,106
PIONEER P7535R (RT)	—	—	28	109	4,115	82	1,104
LEGEND LR9780RB (BT)(RT)	—	—	—	—	—	77	985
DEKALB DKC26-78 (RT)	126	127	41	102	1,951	87	834
PIONEER 39M26 (RT)	112	109	—	70	1,410	73	786
PIONEER 39B90 (RT)	—	130	45	121	1,208	99	647
DEKALB DKC27-45(RT)(BT)	—	129	—	—	—	110	599
PIONEER 39V07 (BT)(LT)(RT)	—	—	—	—	—	119	587
A4240RR (RT)	—	—	—	—	—	68	565
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGE§						98.2	117,099

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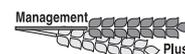
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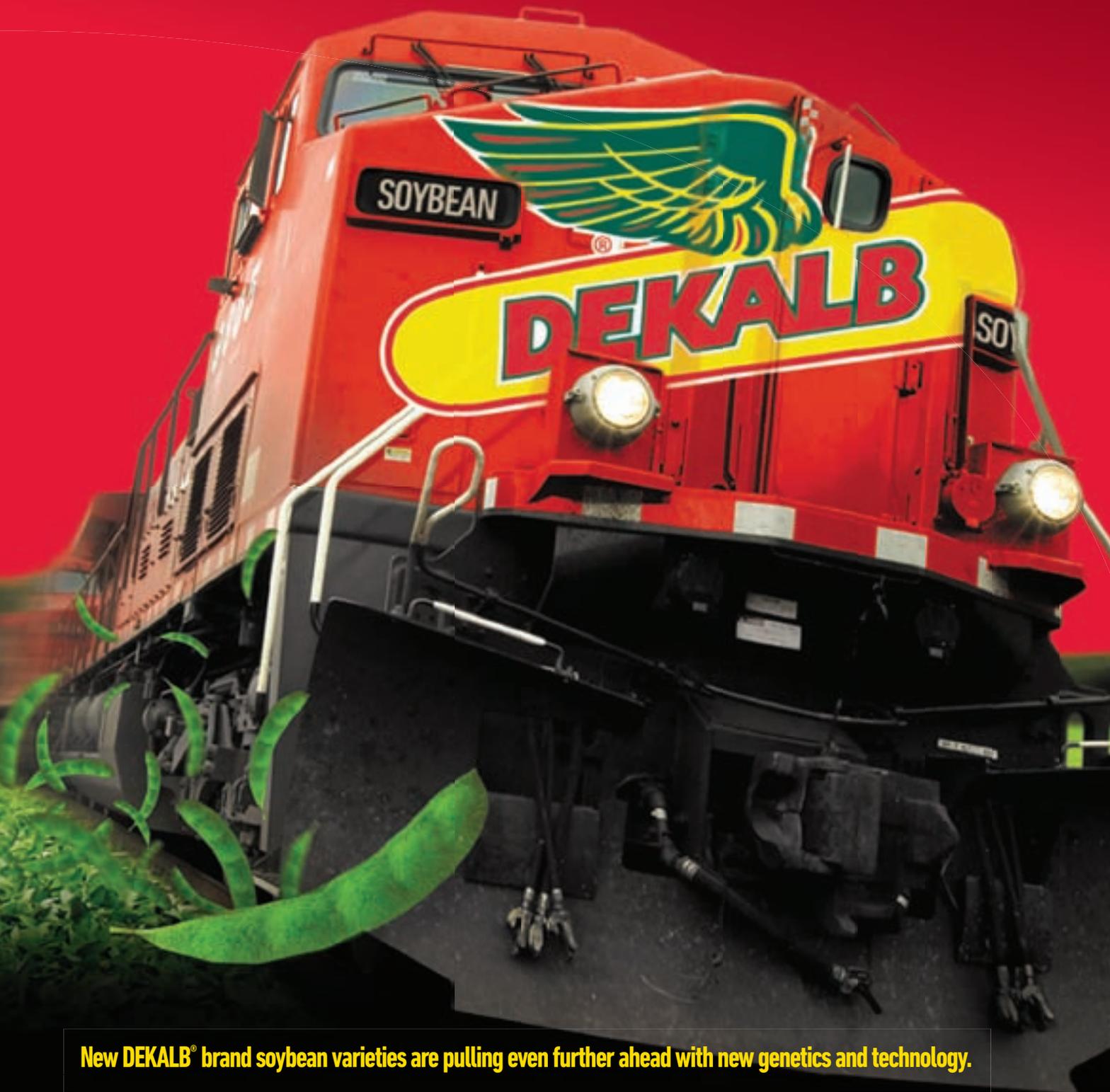
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FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC BETHUNE	21	29	24	15	14,580	11	12,765	
HANLEY	25	26	25	15	10,692	12	12,609	
CDC SORREL	21	26	27	17	8,183	13	6,883	
PRAIRIE BLUE	24	27	30	27	810	14	1,756	
LIGHTNING	27	29	27	22	1,394	22	994	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							11.8	35,888

SUNFLOWER YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
SEEDS2000 JAGUAR (ST) (C)	—	1,186	814	1,129	1,102	1,296	1,253	
8N270CLDM (O)	—	—	—	—	—	1,733	994	
MYCOGEN 8N270 (MO) (O)	—	1,521	1,442	—	—	1,318	575	
SEEDS2000 6950 (C)	—	—	—	—	—	1,728	548	
SEEDS2000 PANTHER DMR (C)	—	—	1,411	849	624	1,424	502	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							1428.2	12,991

DRY BEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
WINDBREAKER (PINTO)	1,964	2,172	1,739	1,658	19,746	2,050	8,486	
ECLIPSE (BLACK)	2,088	1,911	1,512	1,462	9,628	1,801	5,565	
CDC JET (BLACK)	1,680	1,583	1,590	1,041	1,882	1,583	1,260	
T9903 (WHITE PEA)	1,810	1,609	1,797	1,173	4,374	1,579	1,175	
MAVERICK (PINTO)	1,859	2,075	1,451	1,301	5,995	1,724	880	
AC OLE (PINTO)	1,603	2,299	1,801	2,136	1,583	1,892	850	
ENVOY (WHITE PEA)	1,795	1,574	1,087	913	2,506	1,585	619	
ENSIGN (WHITE PEA)	—	—	—	—	—	1,356	600	
MARIAH (PINTO)	—	—	—	809	1,358	1,274	582	
PINK PANTHER (KIDNEY)	1,409	1,739	1,556	1,323	1,473	1,345	543	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							1744.6	25,806

FIELD PEA YIELDS BY VARIETY 2007–2011†							RISK AREA 12	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC STRIKER	44	46	38	13	1,833	18	980	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							18.2	1,861

RISK AREA 14

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
5440 (LT)	—	42	31	18	18,956	28	26,676	
INVIGOR L150 (LT)	—	—	—	—	—	30	7,943	
INVIGOR L130 (LT)	—	—	—	—	—	26	5,182	
9590 (LT)	18	40	28	13	12,945	27	3,171	
5770 (LT)	—	—	—	16	6,171	30	2,086	
5020 (LT)	12	36	25	11	9,970	18	1,614	
5030 (LT)	20	40	25	19	5,823	26	1,573	
8440 (LT)	—	37	33	12	5,812	16	948	
VT BARRIER (RT)	—	—	—	—	—	18	861	
45H29 (RT)	—	—	—	—	—	21	788	
72-65 (RT)	—	—	—	19	706	21	663	
VT500 (RT)	—	—	—	—	—	28	653	
45P70 (ST)	16	32	27	9	918	11	509	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							26.2	58,940

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
CDC FALCON (W)	61	70	49	52	9,214	62	12,304	
GLENN (RS)	—	—	41	27	18,870	49	11,211	
KANE (RS)	—	—	31	23	5,667	43	6,495	
AC DOMAIN (RS)	27	45	26	24	5,564	46	4,475	
AC BARRIE (RS)	24	37	29	23	8,142	39	4,119	
FALLER (F)	—	—	—	—	—	54	1,365	
5602HR (RS)	—	41	28	21	4,961	39	1,224	
CDC ALSASK (RS)	—	—	—	21	856	51	1,115	
AC CADILLAC (RS)	27	42	30	20	532	48	842	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES‡							50.3	44,342

SOYBEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011† Acres	
NSC WARREN RR (RT)	—	31	17	22	13,230	20	18,289	
LS 0036RR (RT)	44	33	23	29	11,751	30	16,235	
24-60RY (RT)	—	—	—	—	—	31	8,197	
OAC PRUDENCE	32	31	26	21	5,276	23	8,085	
25-04R (RT)	—	—	17	32	2,493	29	5,062	
RR ROSCO (RT)	25	33	21	17	8,102	27	4,862	
ISISRR (RT)	—	—	—	22	2,764	25	4,129	
90M01 (RT)	36	26	22	27	1,990	21	3,616	
GENTLEMAN	37	32	27	30	4,552	24	3,414	
90A06 (RT)	—	32	20	22	3,625	21	3,257	
900Y71 (RT)	—	—	—	—	—	27	2,888	
LS 0065RR (RT)	—	30	—	23	2,714	23	2,566	
NSC PORTAGE RR (RT)	—	32	22	23	7,794	24	2,548	
S00-W3 (RT)	—	—	—	—	—	18	1,922	
NSC ARGYLE RR (RT)	—	—	—	—	—	24	1,656	



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* Assuming 48 lbs./bu.



SOYBEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
THUNDER 27005RR (RT)	—	32	20	26	856	19	1,249	
LS 0028RR (RT)	—	—	22	—	—	31	960	
25-10RY (RT)	—	—	—	—	—	28	951	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							24.8	98,858

FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
HANLEY	22	21	18	8	1,131	13	1,993	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							12.9	3,417

RISK AREA 15

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
FURLONG	66	96	65	46	11,057	63	9,555	
SOURIS	—	—	—	63	1,559	78	5,229	
LEGGETT	57	91	73	44	4,324	59	4,591	
RONALD	59	83	64	47	4,757	66	4,324	
SUMMIT	—	—	—	—	—	79	2,598	
TRIACTOR	—	—	—	—	—	84	1,926	
AC ASSINIBOIA	45	70	64	26	3,010	51	1,583	
JORDAN	—	99	52	45	1,445	56	1,265	
PINNACLE	—	—	—	—	—	72	618	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							66.2	32,946

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
45H29 (RT)	—	—	—	11	4,587	24	6,722	
5440 (LT)	—	25	29	13	19,264	25	6,311	
INVIGOR L130 (LT)	—	—	—	—	—	25	3,808	
INVIGOR L150 (LT)	—	—	—	—	—	24	3,642	
5020 (LT)	26	22	25	19	2,291	30	1,953	
5770 (LT)	—	—	—	9	13,596	21	1,706	
5030 (LT)	27	25	27	8	1,000	16	1,516	
8440 (LT)	—	35	24	9	6,913	25	1,455	
PIONEER 45S52 (RT)	—	—	—	—	—	22	1,275	
PIONEER 45S51 (RT)	—	—	21	11	3,711	30	1,257	
VT500 (RT)	—	—	—	—	—	20	1,122	
9590 (LT)	31	22	24	13	8,067	20	1,114	
NX4 107RR (RT)	—	—	—	—	—	27	1,070	
ACS-C7 (POLISH)	—	—	—	—	—	14	1,030	
45H28 (RT)	—	—	19	9	6,360	18	915	
6060RR (RT)	—	—	—	—	—	26	818	
73-55RR (RT)	—	—	—	—	—	20	663	
VT REMARKABLE (RT)	—	—	—	—	—	15	632	
73-45RR (RT)	—	—	—	—	—	23	597	
D3151 (RT)	—	—	—	—	—	12	573	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							23.1	43,802

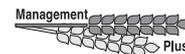
BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
CONLON	36	68	55	28	7,182	52	2,386	
CHAMPION	—	—	—	—	—	71	1,325	
CELEBRATION	—	—	—	—	—	63	566	
TRADITION	50	56	44	19	625	29	548	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							49.3	6,664

CORN YIELDS BY VARIETY 2007–2011†							RISK AREA 14	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
PIONEER 39D95 (RT)	—	101	21	81	5,701	84	6,162	
PIONEER 39D97 (BT)(LT)(RT)	147	137	22	90	2,823	89	2,197	
PIONEER P7213R (RT)	—	—	—	85	1,421	73	1,663	
P7443R (RT)	—	—	—	—	—	78	1,613	
PIONEER 39B90 (RT)	—	97	—	—	—	66	930	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							79.8	17,056

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011 Acres	
AC BARRIE (RS)	39	24	27	16	10,979	35	6,292	
GLENN (RS)	—	—	20	19	8,429	34	5,003	
KANE (RS)	—	—	22	20	10,421	32	3,870	
CDC FALCON (W)	63	50	—	42	5,685	61	2,297	

† Yields only for those varieties grown on more than 500 acres and by more than 2 growers;
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WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5602HR (RS)	48	26	25	13	5,297	35	1,671	
5603 HR (RS)	—	—	—	—	—	32	1,669	
AC DOMAIN (RS)	39	22	27	21	1,269	36	1,316	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							36.6	23,345

SOYBEAN YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
NSC WARREN RR (RT)	—	—	—	28	2,217	29	5,641	
ISISRR (RT)	—	—	—	—	—	29	2,806	
90A06 (RT)	—	—	8	18	2,510	26	1,826	
900Y71 (RT)	—	—	—	—	—	29	1,575	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							28.3	13,173

OATS YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
SOURIS	—	—	—	56	3,392	78	4,556	
PINNACLE	97	50	62	33	6,542	54	4,292	
SUMMIT	—	—	—	—	—	80	1,659	
TRIACTOR	—	—	—	—	—	89	961	
FURLONG	—	34	39	22	606	17	620	
LEGGETT	—	—	—	53	2,383	50	599	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							61.5	14,890

BARLEY* YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
CHAMPION	—	—	—	23	2,597	49	1,194	
CONLON	54	25	25	20	2,882	38	1,153	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							39.8	3,687

FLAX YIELDS BY VARIETY 2007–2011†							RISK AREA 15	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
LIGHTNING	—	—	—	5	1,411	14	1,474	
HANLEY	17	15	16	10	1,281	20	589	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							14.4	3,032

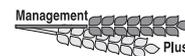
RISK AREA 16

CANOLA YIELDS BY VARIETY 2007–2011†							RISK AREA 16	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
5440 (LT)	—	39	44	37	5,422	27	7,422	
INVIGOR L130 (LT)	—	—	—	—	—	19	2,500	
VT500 (RT)	—	—	—	—	—	23	2,478	
INVIGOR L150 (LT)	—	—	—	—	—	27	1,294	
VT REMARKABLE (RT)	—	—	—	29	532	8	612	
73-45RR (RT)	—	—	—	—	—	19	566	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							22.5	24,906

WHEAT YIELDS BY VARIETY 2007–2011†							RISK AREA 16	
Variety	2007 Yield	2008 Yield	2009 Yield	2010 Yield	2010 Acres	2011 Yield	2011‡ Acres	
HARVEST (RS)	25	53	54	40	11,905	34	11,734	
AC DOMAIN (RS)	27	51	55	45	3,629	41	1,852	
WEIGHTED AVERAGE YIELD AND TOTAL ACREAGES							35.4	15,860

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

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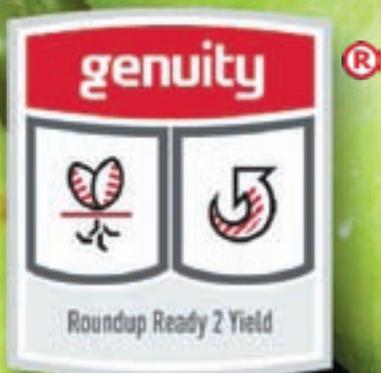
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By Lorraine Stevenson
CO-OPERATOR STAFF

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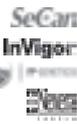
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