

RGE. 1 E.P.M.

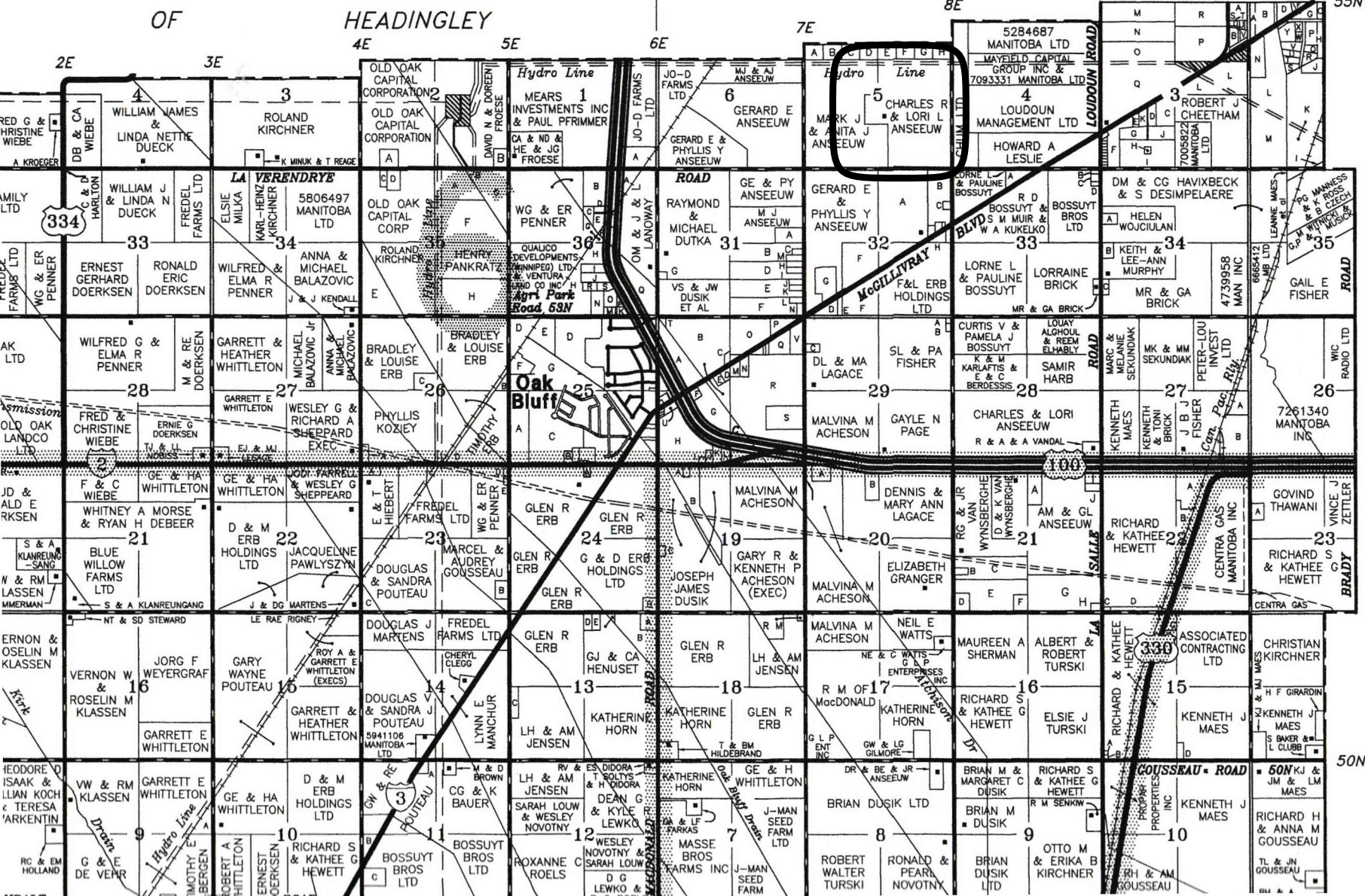
RGE. 2 E.P.M.

GREATER WINNIPEG METROPOLITAN CORPORATION

TWP. 10

OF HEADINGLEY

9E McCREARY RD 10E BRADY RD  
Pl. 10-10-2E Pl. 11-10-2E



CORPORATION

METROPOLITAN

WINNIPEG

GREATER

TWP. 9



Anseeuw Dairy Site Setbacks

# Animal Units Calculator

A	B	C	Current Operation		Proposed Operation	
			D	E	F	G
Operation Type	Animal Categories	Animal Units per Head	Current Number of Animals <sup>1</sup>	Current Animal Units	Proposed Number of Animals <sup>2</sup>	Proposed Number of Animal Units
Dairy <sup>3</sup>	Mature cows (lactating and dry) including associated livestock	2	190	380	700	1,400
	Mature cows (lactating and dry)	1.35		-		-
	Heifers (0 to 3 months)	0.16		-		-
	Heifers (4 to 13 months)	0.41		-		-
	Heifers (> 13 months)	0.87		-		-
	Bulls	1.35		-		-
	Veal calves	0.13		-		-
Beef	Beef cows including associated livestock	1.25		-		-
	Backgrounder	0.5		-		-
	Summer pasture / replacement heifers	0.625		-		-
	Feeder cattle	0.769		-		-
Pigs	Sows - farrow to finish (234-254 lbs)	1.25		-		-
	Sows - farrow to weaning (up to 11 lbs)	0.25		-		-
	Sows - farrow to nursery (51 lbs)	0.313		-		-
	Boars (artificial insemination units)	0.2		-		-
	Weanlings, Nursery (11-51 lbs)	0.033		-		-
	Growers / Finishers (51-249 lbs)	0.143		-		-
Chickens	Broilers	0.005		-		-
	Roasters	0.01		-		-
	Layers	0.0083		-		-
	Pullets	0.0033		-		-
	Broiler breeder pullets	0.0033		-		-
	Broiler breeder hens	0.01		-		-
Turkeys	Broilers	0.01		-		-
	Heavy Toms	0.02		-		-
	Heavy Hens	0.01		-		-
Horses	Mares	1.333		-		-
Sheep	Ewes	0.2		-		-
	Feeder lambs	0.063		-		-
Other Livestock	Type:			-		-
	Type:			-		-
Total Current:				380	Total Proposed:	1,400

**Footnotes:**

<sup>1</sup> Enter the current number of animals on the farm based on the operation's capacity (animal places) or previous Conditional Use Approval.

<sup>2</sup> Enter the total number of animals associated with the operation post construction or expansion.

<sup>3</sup> There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in Manitoba, 1995). You can enter the total number of mature cows in the milking herd under the "Mature cows (lactating and dry) including associated livestock" category and the animal units will be calculated by multiplying this number by 2. This calculation assumes 85 lactating, 15 dry, 12 heifers (0 to 3 months), 36 heifers (4 to 13 months) and 50 heifers (> 13 months) for an operation with 100 mature cows. "Associated livestock" includes all of the heifer calves and replacement heifers. Alternatively, you can enter animal numbers in the individual categories (mature cows, heifers (0 to 3 months), heifers (4 to 13 months) and heifers (> 13 months)) and they will be summed at the bottom of the table. Bulls and veal calves are always calculated separately.

[For all other livestock or operation types please inquire with the Manitoba Agriculture Contacts](#)



## Dairy Barn Water Requirement Estimator\*

Enter the following farm data:

Number of lactating/milking cows	600
Average milk production (litres)	33 **
Parlor or tie stall (P/TS)	Robot
Collection yard if free stall (Y/N)	N
Plate cooler (Y/N)	Y
Milkings per day	2
Plate cooler water reused? (Y/N)	Y

Total water needs estimate per day:	
Litres	103590
Imperial gallons	22817
Cubic decametres	0.10

Total water needs estimate per year:	
Litres	37810350
Imperial gallons	8328271
Cubic decametres	37.81

\*Calculations are based on Manitoba AVERAGES for

- Feed composition

Animal Type (A)	Animal Sub-type (B)	Daily Manure Production				Production Period <sup>2</sup> (Days) (G)	Number of Animals <sup>3</sup> (Capacity) (H)	Total Manure Volume (ft <sup>3</sup> ) (F <sub>X</sub> G <sub>X</sub> H)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)	
		References (C)	Manure Type (D)	Default Manure Production (ft <sup>3</sup> /animal/day) (E)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /animal/day) (F)					
Dairy (milking cows <sup>4</sup> and associated livestock)	Free Stall	Table 6, pg 59, FPGs for Dairy 1995	Semi-Solid <sup>5</sup>	3.5	3.5	365	160	204,400.00	1,273,412.0	
			Solid	3.4				-		
			Liquid <sup>5</sup>	3.5					-	0.0
	Tie Stall		Semi-Solid <sup>5</sup>	3.6					-	0.0
			Solid	3.5					-	
			Liquid <sup>5</sup>	3.6					-	0.0
	Loose Housing (cows-milking/dry, heifers)			Solid	-	2.0	365	1010	737,300.00	4,593,379.0
Milking Parlour Manure and Washwater		Liquid	0.5	0.5	365	600	109,500.00	682,185.0		
Beef	Beef cows including associated livestock	pg 117, FPGs for Hogs 1998	Solid	1.2				-		
	Backgrounder (200 day)		Solid	0.73				-		
	Summer pasture / replacement heifers		Solid	0.85				-		
	Feeder cattle		Solid	1.1				-		
Pigs	Sows - farrow to finish (234 - 254 lbs)	MAFRI website, FPGs for Pigs 2007	Liquid	2.3				-	0.0	
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8				-	0.0	
	Sows - farrow to nursery (51 lbs)		Liquid	1				-	0.0	
	Weanlings, Nursery (11 - 51 lbs)		Liquid	0.1				-	0.0	
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25					-	0.0
Animal Type	Type of Operation	Yearly Manure Production		Production Period <sup>2</sup> (Days)	Number of Birds <sup>3</sup> (Capacity)	Total Manure Volume (ft <sup>3</sup> ) (F/365xGxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)			
		Default Manure Production (ft <sup>3</sup> /year/bird space)	Operation Manure Production <sup>1</sup> (ft <sup>3</sup> /year/bird space)							
Chickens	Broilers – floor <sup>6</sup>	Table 3, pg 85, FPGs for Poultry 2000		1.23				-		
	Broiler breeder hens <sup>7</sup>			2.3				-		
	Broiler breeder pullets <sup>6</sup>			0.99					-	
	Roasters – floor <sup>6</sup>			1.16					-	
	Layers – cage <sup>8</sup>			2.33					-	0.0
	Layers – floor <sup>7</sup>			1.68					-	
	Layers – solid pack <sup>9</sup>								-	
	Pullets – cage <sup>8</sup>				0.71				-	0.0
	Pullets – floor <sup>6</sup>				0.75				-	
Turkeys	Broilers <sup>6</sup>	Table 3, pg 85, FPGs for Poultry 2000		2.83				-		
	Heavy toms <sup>6</sup>			5.58				-		
	Heavy hens <sup>6</sup>			3.32				-		

Sizing of a manure storage facility in accordance with all requirements of the *Livestock Manure and Mortalities Management Regulation* (M.R. 42/98) is the responsibility of the operator.

**Instructions and footnotes:**

- <sup>1</sup> ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in column E. References for default daily and yearly manure production are provided in column C.
- <sup>2</sup> ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 250
- <sup>3</sup> ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).
- <sup>4</sup> Milking cows includes all lactating and dry cows.
- <sup>5</sup> Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.
- <sup>6</sup> 2 inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft<sup>3</sup>
- <sup>7</sup> One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft<sup>3</sup>
- <sup>8</sup> Manure removed from barn at 90% moisture content with a density of 59 lb/ft<sup>3</sup>
- <sup>9</sup> Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

### Existing and Proposed Manure Storage Facility Dimension Table

If applicable, indicate the dimensions of any existing manure storage facility (MSF) that will be used to store manure from the proposed project:

CELL	Existing Manure Storage Facility Top Dimensions						Storage Capacity (days)
	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		
					Inside	Outside	
Primary	169 ft	348 ft	13.8 ft	3.18 ft	3.5:1	5:1	478
Secondary	0 ft	0 ft	0 ft	ft			
Tertiary	0 ft	0 ft	0 ft	ft			
Circular Tank		Diameter	Height	Depth (Above Grade)			
		ft	ft	ft			

Permit/Registration # LM-757



# Anseeuw Dairy Truck Haul Route



**Archived:** Saturday, February 24, 2018 1:44:46 PM

**From:** Friesen, Chris (SD)

**Sent:** Thu, 22 Feb 2018 09:28:49

**To:** 'Gary Plohman'

**Subject:** RE: rare species identification

**Importance:** Normal

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As requested.

Chris Friesen  
Coordinator  
Manitoba Conservation Data Centre  
204-945-7747  
chris.friesen@gov.mb.ca  
<http://www.manitoba.ca/sd/cdc/>

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**From:** Friesen, Chris (SD)

**Sent:** February-12-18 11:20 AM

**To:** 'Gary Plohman' <crossing@mymts.net>

**Subject:** RE: rare species identification

Gary

Thank you for your information request. I completed a search of the MB Conservation Data Centre rare species database which resulted in the following occurrences:

SW 4-7-2E  
Barn Swallow (*Hirundo rustica*), S4B, SARA: Threatened, COSEWIC: Threatened

NW 32-6-2E  
Barn Swallow (*Hirundo rustica*), S4B, SARA: Threatened, COSEWIC: Threatened

Further information on this ranking system can be found on our website at <http://www.gov.mb.ca/conservation/cdc/consranks.html> and these designations can be found at <http://web2.gov.mb.ca/laws/statutes/ccsm/e111e.php>, <http://www.cosewic.gc.ca/> and [http://www.sararegistry.gc.ca/default\\_e.cfm](http://www.sararegistry.gc.ca/default_e.cfm).

Manitoba's recommended setback distances can be found at <http://www.gov.mb.ca/conservation/cdc/pubs.html>

The information provided in this letter is based on existing data known to the Manitoba CDC of the Wildlife and Fisheries Branch at the time of the request. These data are dependent on the research and observations of our scientists and reflects our current state of knowledge. **An absence of data does not confirm the absence of any rare or endangered species.** Many areas of the province have never been thoroughly surveyed, however, and the absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present. The information should, therefore, not be regarded as a final statement on the occurrence of any species of concern nor should it substitute for on-site surveys for species or environmental assessments. Also, because our Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request.

Please contact the Manitoba CDC for an update on this natural heritage information if more than six months passes before it is utilised.

Third party requests for products wholly or partially derived from the Biotics database must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using data from our database, as the Manitoba Conservation Data Centre; Wildlife and Fisheries Branch, Manitoba Sustainable Development.

**This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.**

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information contact me directly at (204) 945-7747.

Chris Friesen  
Coordinator  
Manitoba Conservation Data Centre  
204-945-7747  
[chris.friesen@gov.mb.ca](mailto:chris.friesen@gov.mb.ca)  
<http://www.manitoba.ca/sd/cdc/>



Type	Storage Type	Volatilization	Animal Numbers	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days on Feed per Cycle (days)	Number of Cycles per Year	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted per Herd Per Year (lb/yr/herd)
Lactating Cows	Liquid Uncovered Earthen	30%	0	1400	1440	1420	365	1	0	0
Dry Cows	Liquid Uncovered Earthen	30%	0	1440	1440	1440	365	1	0	0
Calves, 0-3 months	Liquid Uncovered Earthen	30%	0	90	275	183	365	1	0	0
Calves, 4-13 months	Liquid Uncovered Earthen	30%	0	275	810	543	365	1	0	0
Replacements, >13 months	Liquid Uncovered Earthen	30%	0	810	1250	1030	365	1	0	0
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	700	n/a	n/a	n/a	n/a	n/a	182537	96864

Last revised August 20, 2014

Although some of the cows will be on a dry manure system, for purposes of calculating landbase all manure was considered to be liquid which has a more conservative volatilization rate compared to a dry manure system. Scott Dick P.Ag.

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake
	P205	N	N	Units				P205 (lb)	N (lb)	N (lb)
Alfalfa	13.8	58	58	lb/ton	2.959	ton/ac	230	9392	39473	39473
Barley Grain	0.42	0.97	1.39	lb/bu	72.5	bu/ac	99	3015	6962	9977
Barley Silage	11.8	34.4	34.4	lb/ton	1.579	ton/ac	78	1453	4237	4237
Canola	1.04	1.93	3.19	lb/bu	35.3	bu/ac	372	13657	25344	41890
Corn Grain	0.44	0.97	1.53	lb/bu	121	bu/ac	128	6815	15023	23697
Corn Silage	12.7	31.2	31.2	lb/ton	4.51675	tons/ac		-	-	-
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac		-	-	-
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac		-	-	-
Flax	0.65	2.13	2.88	lb/bu		bu/ac		-	-	-
Grass Hay	10	34.2	34.2	lb/ton		tons/ac		-	-	-
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac		-	-	-
Oats	0.26	0.62	1.07	lb/bu	108.7	bu/ac		-	-	-
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac		-	-	-
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-	-	-
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac		-	-	-
Rye	0.45	1.06	1.67	lb/bu		bu/ac		-	-	-
Soybeans	0.84	3.87	5.2	lb/bu	36.8	bu/ac	639	19753	91004	122279
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	51.8	bu/ac	374	11430	29060	40877
Wheat - Winter	0.51	1.04	1.35	lb/bu	78	bu/ac		-	-	-
<b>Sub Total</b>							1920	65514	211103	282429
<b>Estimated Average Removal/Uptake (lb/ac)</b>								34.1	109.9	147.1
<b>Additional Acres</b>							0			
<b>Crop Planned on Additional Acres</b>										
<b>Total Acreage</b>							1920			
<b>Note:</b> Additional acres include acres for which crop removal or soil data is limited or unavailable.										

Last revised August 20, 2014

Species	Animal Category/Operation type	N (lb/year)	P2O5 (lb/year)
<b>Pigs</b>	Gestating Sow	0	0
	Nursing Sow	0	0
	Nursing Litter	0	0
	Live Cull Sows	0	0
	Bred Gilts	0	0
	Gilts	0	0
	Boars	0	0
	Weanlings	0	0
	Growers/finishers	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
	<b>Beef</b>	Mature Cows (>2 years old)	0
Bred Heifer (14 mo - 2 years)		0	0
Replacement Heifers (7 mo-14 mo)		0	0
Unweaned Calves (0-7 mo)		0	0
Bulls		0	0
Mature Cows and Bred Heifers, plus associated livestock		0	0
Feedlot Cattle - long keep		0	0
Feedlot Cattle - short keep		0	0
Backgrounders - pasture		0	0
Backgrounders - confined		0	0
<b>Dairy</b>	Lactating cow	0	0
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	182537	96864
<b>Sheep</b>	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
<b>Chickens</b>	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
<b>Layers</b>	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
<b>Turkeys</b>	Broiler Hens (0-9 wks)	0	0
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
<b>Total</b>		<b>182537</b>	<b>96864</b>

**Note:** Be sure all livestock species on your farm are represented in this table, not just the livestock in the proposed expansion.

<b>Nutrients Excreted</b>		<b>lbs</b>
Nitrogen		182537
P2O5		96864
<b>Crop Nutrient Use</b>		<b>lb/ac</b>
Nitrogen Uptake		147.1
P2O5 Removal		34.1
<b>Land Base Requirements</b>		<b>acres</b>
Acres for Nitrogen Uptake		<b>1241</b>
Acres for 2 x P2O5 Removal		<b>1419</b>
Acres for 1 x P2O5 Removal		<b>2839</b>

## CROP ROTATION TABLE

A	B	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Grain Corn	128	121	Bu/ac	MASC
Alfalfa	230	2.959	Ton/ac	MASC
Barley Silage	78	1.579	Ton/ac	MASC
Barley	99	72.5	Bu/ac	MASC
Canola	372	35.3	Bu/ac	MASC
Soybeans	639	36.8	Bu/ac	MASC
Wheat	374	51.8	Bu/ac	MASC
<b>Total Net Acreage for Manure Application</b>	<b>1920</b>			

- A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.
- B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The total of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.
- C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (<http://www.masc.mb.ca/masc.nsf/index.html?OpenPage>) or on-farm yield records. If on-farm yield records are used, please provide copies.
- D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).
- E. Enter the source of the historical yield average provided.

**MANURE APPLICATION FIELD CHARACTERISTICS TABLE**



	A	B	C	D	E	F	G	H	I	J
Field	Legal Description	Rural Municipality	O/C/L/A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

**Total Net Acreage for Manure Application:**

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- A. \_\_\_\_\_ Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).
- B. \_\_\_\_\_ Identify the Rural Municipality in which the parcel is located.
- C. \_\_\_\_\_ Indicate how the land has been secured for manure application: O – Own / C-Crown / L – Lease / A – Agreement. Multiple designations may be used as appropriate (ex. C/A for Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease).
- D. \_\_\_\_\_ Enter the total acreage for the parcel.
- E. \_\_\_\_\_ Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (ex. 8m, Order 3 drain).
- F. \_\_\_\_\_ Enter the net acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.
- G. \_\_\_\_\_ Enter the agriculture capability class and subclass ratings for the acreage available for manure application.
- H. \_\_\_\_\_ Provide soil test results for phosphorus in ppm Olsen P for soil samples taken at the 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing laboratory.
- I. \_\_\_\_\_ Indicate the Development Plan and its by-law number in addition to the map designation for each field (ex. By-law #1/2008: AG).
- J. \_\_\_\_\_ Indicate the Zoning By-law and its by-law number in addition to the zoning for each field (ex. By-law 12/2009: AG 80).

**From:** Loro, Petra (AGR) [<mailto:Petra.Loro@gov.mb.ca>]  
**Sent:** February 20, 2018 10:26 AM  
**To:** Scott Dick <[scottdick@agra-gold.ca](mailto:scottdick@agra-gold.ca)>  
**Cc:** Erb, Michelle (AGR) <[Michelle.Erb@gov.mb.ca](mailto:Michelle.Erb@gov.mb.ca)>; Malinowski, Don (MR) <[Don.Malinowski@gov.mb.ca](mailto:Don.Malinowski@gov.mb.ca)>  
**Subject:** FW: Planning Act Excerpts

Hi Scott.

I spoke with Michelle about the 1995 by-law for the RM of MacDonald containing setbacks for manure application.

In the interest of time, our (Michelle's and my) advice to you re the Anseeuw Dairy SA is to disregard any provisions in the by-law that pertain to the application of manure **and cite section 187(2) of The Planning Act** (below).

Inconsistencies between the Act and by-laws is also covered under The Municipal Act (below).

I've copied Don in this email and will discuss this with him so that TRC is prepared when the SA is submitted.

Regards,  
Petra

### **The Planning Act:**

#### **Limited restrictions on livestock operations**

**187(1)** Except as provided in a development plan by-law or in provisions of a zoning by-law respecting the siting and setback of livestock operations, a board or council may not impose any restrictions or conditions on

- (a) the location of a livestock operation; or
- (b) the number of animal units involved in a livestock operation.

#### **When by-law does not apply to livestock operation**

**187(2)** Notwithstanding Part 7 of *The Municipal Act* (By-laws: General Jurisdiction), a municipal by-law or zoning by-law respecting nuisance odours or prohibiting or regulating the storage, application or use of manure does not apply to a livestock operation if the owner or operator of the operation is complying with

- (a) all other Acts and regulations regarding the storage, application or use of manure; and
- (b) the terms and conditions of any permit or licence required to be held by the owner or operator under an Act or regulation.

### **The Municipal Act:**

C.C.S.M. c. M225  
**The Municipal Act**

**PART 7**

## BY-LAWS: GENERAL JURISDICTION

### DIVISION 1 APPLICATION

#### By-law inconsistent with other legislation

**230** A by-law that is inconsistent with an Act or regulation in force in the province is of no effect to the extent of the inconsistency.

**Michelle Erb, MSc, PAg**

Policy Specialist – Land Use

Agri-Resource Branch

Manitoba Agriculture

466 Sabourin St. S., Box 100, St-Pierre-Jolys MB R0A 1V0

[Michelle.Erb@gov.mb.ca](mailto:Michelle.Erb@gov.mb.ca)

T: 204-794-1804 F: 204-433-3282

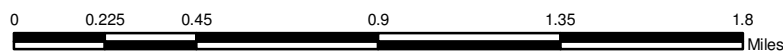
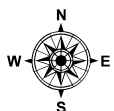
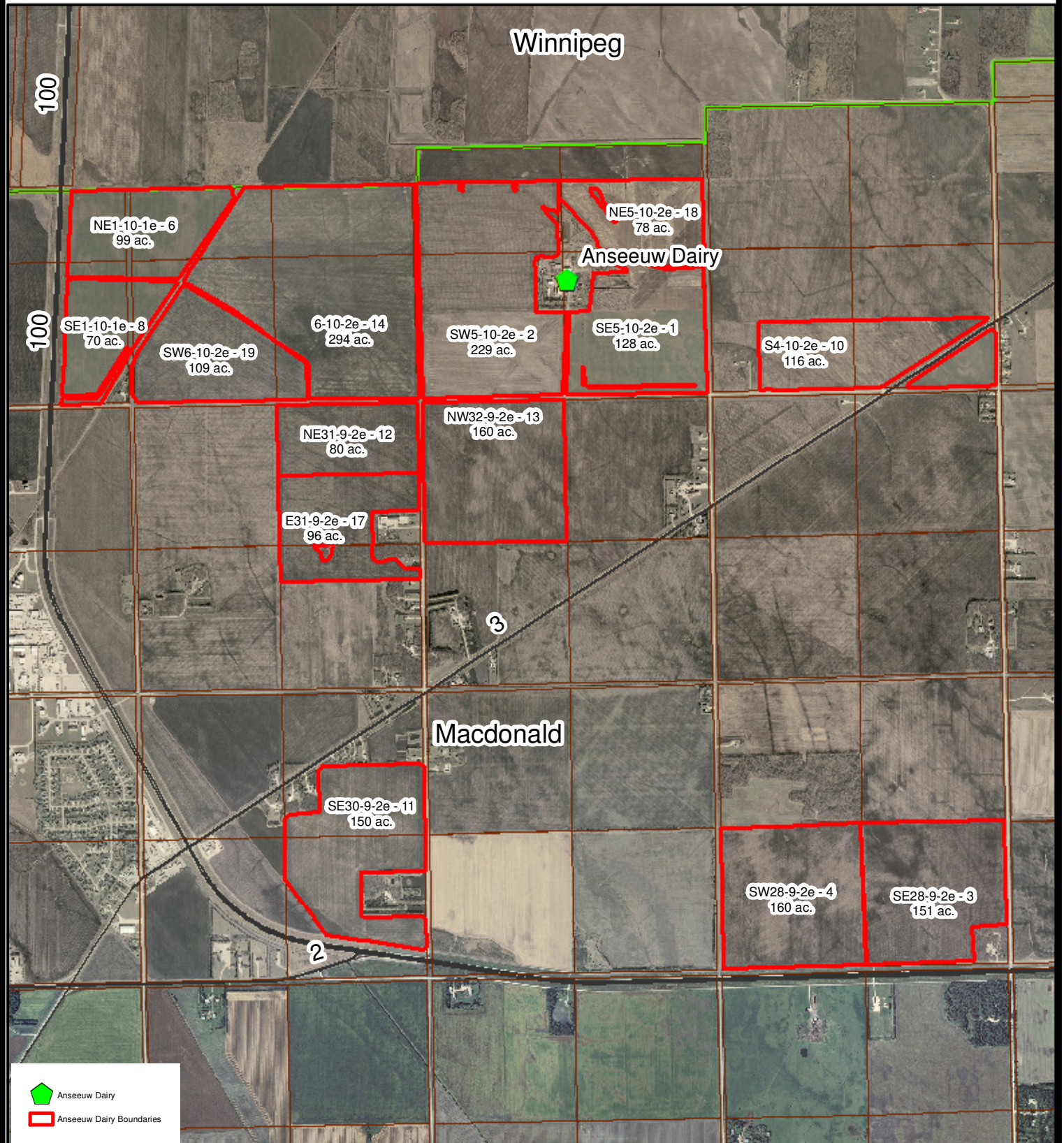
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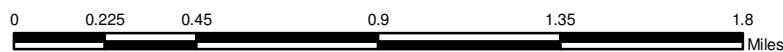
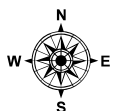
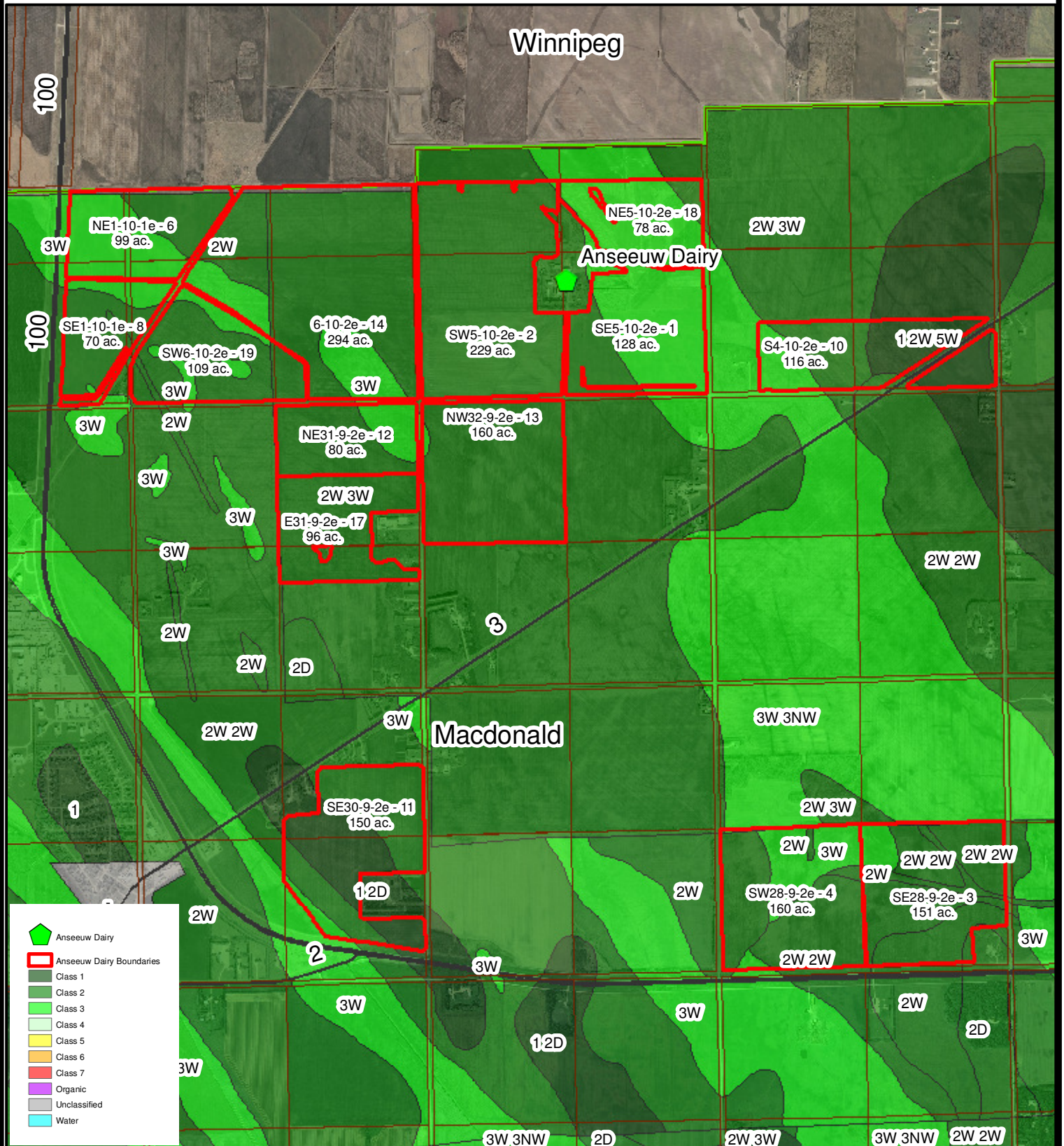
# Anseeuw Dairy - Spread Acres



Coordinate System: NAD 1983 UTM Zone 14N  
Central Meridian: 99°0'0"W



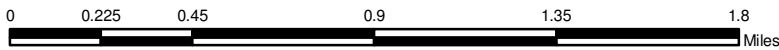
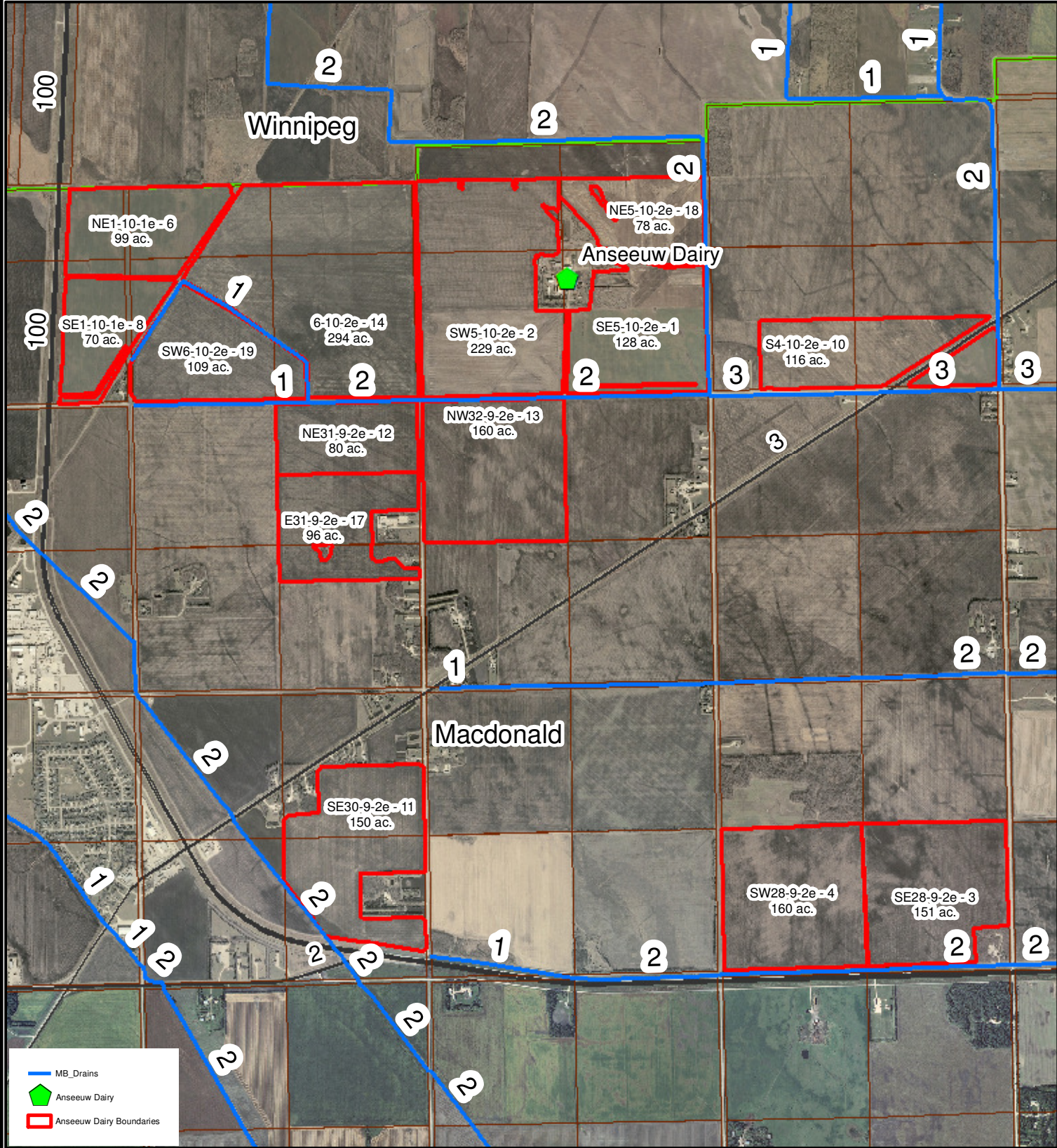
# Anseeuw Dairy - Soils



Coordinate System: NAD 1983 UTM Zone 14N  
Central Meridian: 99°0'0"W



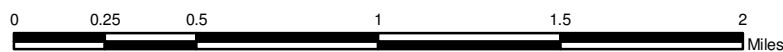
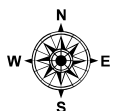
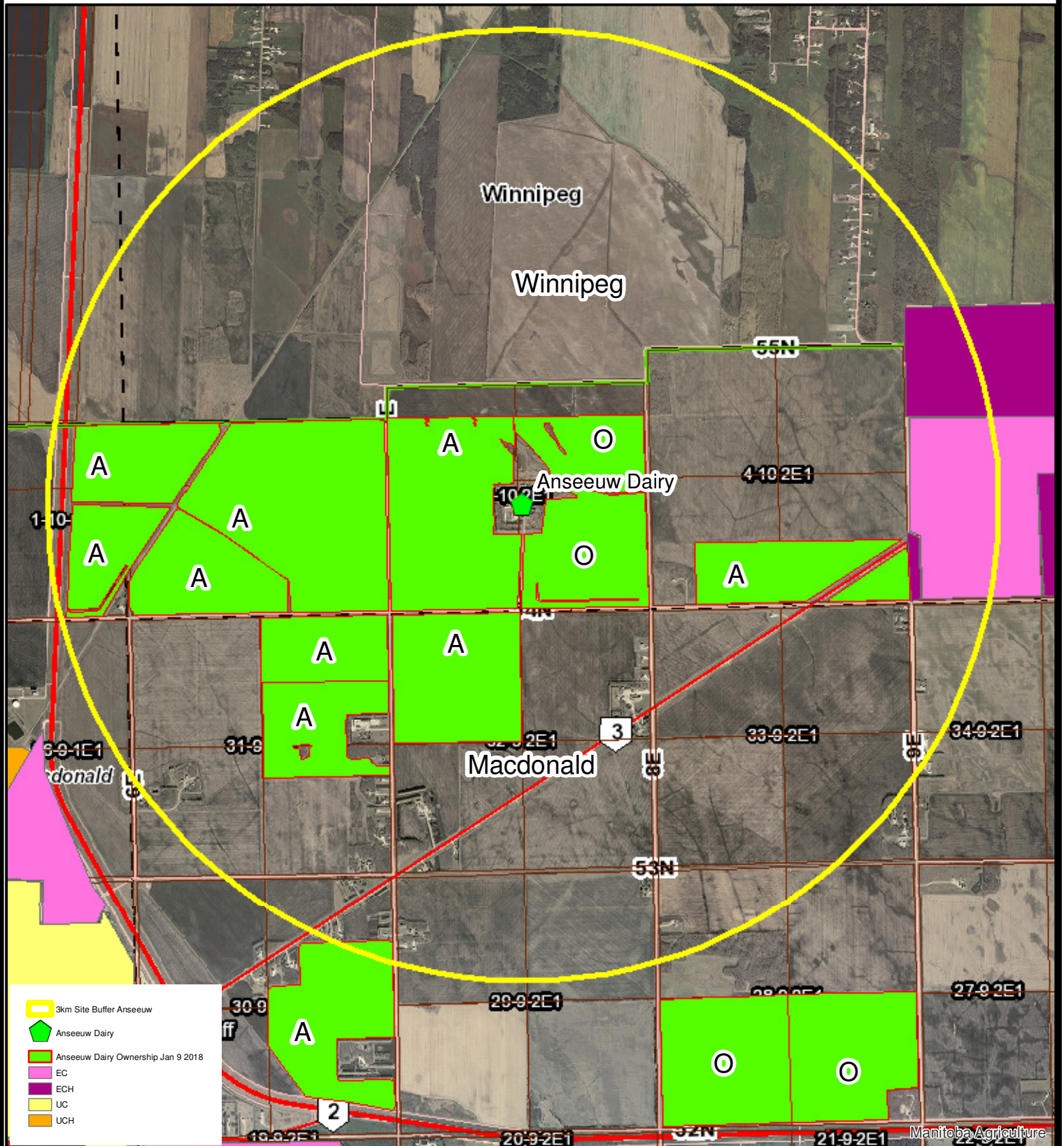
# Anseeuw Dairy - Drains



Coordinate System: NAD 1983 UTM Zone 14N  
 Central Meridian: 99°0'0"W



# Anseeuw Dairy - Land Use



Coordinate System: NAD 1983 UTM Zone 14N  
 Central Meridian: 99°0'0"W

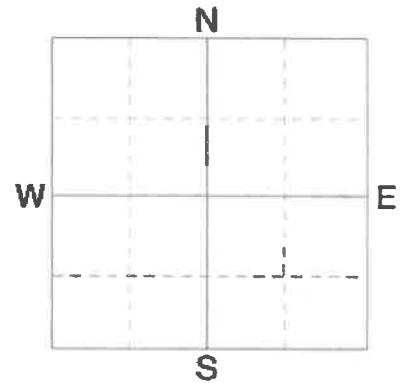
# Field #1



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **Home South**  
 SAMPLE ID  
 FIELD NAME **Home South**  
 COUNTY  
 TWP **10** RANGE **2E**  
 SECTION **5** QTR **SE** ACRES **130**  
 PREV. CROP **Corn-Silage**



**SUBMITTED FOR:**  
**Anseeuw Dairy Farm**

**Oak Bluff, MB**

**SUBMITTED BY: TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **2008882** BOX # **0**  
 LAB # **NW83635**

Date Sampled

Date Received **09/25/2017**

Date Reported **9/27/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Barley-Feed			Wheat-High Pro.			Wheat-High Pro.				
N	0-6"					YIELD GOAL			YIELD GOAL			YIELD GOAL				
	6-24"					120 BU			70 Bu			80 Bu				
N		*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
N		*****				Band/Maint.			Band/Maint.			Band/Maint.				
N		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
N		*****				N	119		N	119		N	149			
P		*****				P <sub>2</sub> O <sub>5</sub>	15		P <sub>2</sub> O <sub>5</sub>	15		P <sub>2</sub> O <sub>5</sub>	15			
P		*****				Band (Starter)*		Band (Starter)*		Band (Starter)*		Band (Starter)*				
K		*****				K <sub>2</sub> O	10		K <sub>2</sub> O	10		K <sub>2</sub> O	10			
K		*****				Band (Starter)*		Band (Starter)*		Band (Starter)*		Band (Starter)*				
S		*****				Cl			Cl			Cl				
S		*****				S	0		S	0		S	0			
B		*****				B			B			B				
Zn		*****				Zn	0		Zn	0		Zn	0			
Fe		*****				Fe			Fe			Fe				
Mn		*****				Mn			Mn			Mn				
Cu		*****				Cu			Cu			Cu				
Mg		*****				Mg			Mg			Mg				
Lime		*****				Lime			Lime			Lime				
Soil pH		*****				Soil pH	7.4		Cation Exchange Capacity			% Base Saturation (Typical Range)				
Buffer pH		*****				Buffer pH	8.1					% Ca	% Mg	% K	% Na	% H
0-6"		*****				0-6"	7.4									
6-24"		*****				6-24"	8.1									
Sol. Salts		*****														

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 56 K20 = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K20 = 26 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K20 = 30 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

## SOIL TEST REPORT

#3  
Field 3

Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

FIELD ID **2**  
SAMPLE ID  
FIELD NAME **SE Perimeter**  
COUNTY  
TWP **9** RANGE **2E**  
SECTION **28** QTR **SE** ACRES **155**  
PREV. CROP **Soybeans**

**SUBMITTED FOR:**  
**Anseeuw Dairy Farm**

**SUBMITTED BY: TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB**      **ROG 1N0**

REF # **2184251** BOX # **0**  
LAB # **NW1660**

Date Sampled

Date Received **01/18/2018**

Date Reported **1/19/2018**

Nutrient in the soil		Yield Goal		1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
	<b>0-6"</b>	<b>38 lb/ac</b>	*****	Alfalfa		Corn-Grain		Oats	
				YIELD GOAL		YIELD GOAL		YIELD GOAL	
				4 Tons		160 BU		140 BU	
				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
				Band/Maint.		Band/Maint.		Band/Maint.	
				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate	<b>Olsen</b>	<b>22 ppm</b>	*****	N	0	N	94	N	57
Phosphorus				P <sub>2</sub> O <sub>5</sub>	40	P <sub>2</sub> O <sub>5</sub>	64	P <sub>2</sub> O <sub>5</sub>	35
Potassium		<b>552 ppm</b>	*****		<b>Band *</b>		<b>Band *</b>		<b>Band *</b>
Chloride				K <sub>2</sub> O	15	K <sub>2</sub> O	10	K <sub>2</sub> O	10
					<b>Band (Starter)*</b>		<b>Band (2x2) *</b>		<b>Band (Starter)*</b>
	<b>0-6"</b>	<b>14 lb/ac</b>	*****	Cl		Cl		Cl	
Sulfur				S	7	S	7	S	7
Boron				B		B		B	
Zinc		<b>2.19 ppm</b>	*****	Zn	0	Zn	0	Zn	0
Iron				Fe		Fe		Fe	
Manganese				Mn		Mn		Mn	
Copper				Cu		Cu		Cu	
Magnesium				Mg		Mg		Mg	
Calcium				Lime	0	Lime	0	Lime	0
Sodium									
Org.Matter		<b>8.2 %</b>	*****						
Carbonate(CCE)				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
							% Ca	% Mg	% K
							% Na	% H	
	<b>0-6"</b>	<b>0.5 mmho/cm</b>	*****	0-6"	6.5				
Sol. Salts									

**Crop 1:** Soil Nitrogen level is estimated at 68 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 = 200 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

**Crop 2:** Soil Nitrogen level is estimated at 68 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 40 K20 = 43 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

**Crop 3:** Soil Nitrogen level is estimated at 68 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K20 = 27 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

# SOIL TEST REPORT

Field 4

Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

FIELD ID **1**  
 SAMPLE ID  
 FIELD NAME **SW Perimeter**  
 COUNTY  
 TWP **9** RANGE **2E**  
 SECTION **28** QTR **SW** ACRES **160**  
 PREV. CROP **Alfalfa**

**SUBMITTED FOR:**  
**Anseeuw Dairy Farm**

**SUBMITTED BY:** **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **2184250** BOX # **0**  
 LAB # **NW1659**

Date Sampled

Date Received **01/18/2018**

Date Reported **1/19/2018**

Element	Soil Test Results	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines
		Alfalfa		Soybeans		Oats	
	<b>0-6" 18 lb/ac *****</b>	4 Tons		40 BU		140 BU	
		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
		Band/Maint.		Band/Maint.		Band/Maint.	
		LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate	<b>Olsen 9 ppm *****</b>	N 0		N ***		N 79	
Phosphorus		P <sub>2</sub> O <sub>5</sub> 40	Band *	P <sub>2</sub> O <sub>5</sub> 35	Band *	P <sub>2</sub> O <sub>5</sub> 35	Band *
Potassium	<b>772 ppm *****</b>	K <sub>2</sub> O 0		K <sub>2</sub> O 0		K <sub>2</sub> O 0	
Chloride	<b>0-6" 20 lb/ac *****</b>	Cl		Cl		Cl	
Sulfur		S 5	Band (Trial)	S 5	Band (Trial)	S 5	Band (Trial)
Boron		B		B		B	
Zinc	<b>1.32 ppm *****</b>	Zn 0		Zn 0		Zn 0	
Iron		Fe		Fe		Fe	
Manganese		Mn		Mn		Mn	
Copper		Cu		Cu		Cu	
Magnesium		Mg		Mg		Mg	
Calcium		Lime		Lime		Lime	
Sodium							
Org. Matter	<b>7.4 % *****</b>						
Carbonate(CCE)		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
	<b>0-6" 0.59 mmho/cm *****</b>				% Ca	% Mg	% K
Sol. Salts		0-6" 7.1			% Na	% H	

**Crop 1:** Soil Nitrogen level is estimated at 36 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 40 K2O = 200 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

**Crop 2:** Soil Nitrogen level is estimated at 36 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

**Crop 3:** Soil Nitrogen level is estimated at 36 lbs/acre. \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 25 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 35 K2O = 27 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

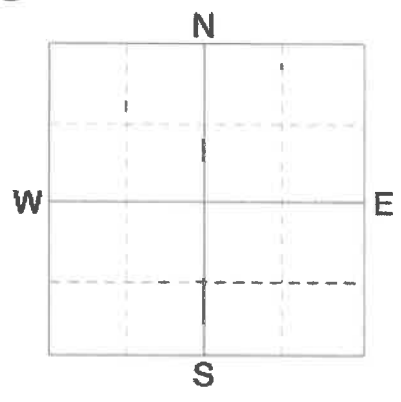
Field # 18



Soil Analysis by Agvise Laboratories  
(http://www.agvise.com)  
Northwood: (701) 587-6010  
Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **Home North**  
 SAMPLE ID  
 FIELD NAME **Home North**  
 COUNTY  
 TWP **10** RANGE **2E**  
 SECTION **5** QTR **NE** ACRES **80**  
 PREV. CROP



**SUBMITTED FOR:**  
**Anseeuw Dairy Farm**  
  
**Oak Bluff, MB**

**SUBMITTED BY: TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **1946212** BOX # **0**  
 LAB # **NW46272**

Date Sampled \_\_\_\_\_ Date Received **08/23/2017** Date Reported **8/25/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		V/Low	Low	Med	High									
Nitrate	0-6"	*****				Soybeans		Corn-Silage						
	6-24"					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	17 lb/ac 9 lb/ac					40 BU		15 Tons						
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
	26 lb/ac					Band/Maint.		Band/Maint.						
Olsen Phosphorus	37 ppm	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	836 ppm	*****				N	***	N	130	N				
Chloride						P <sub>2</sub> O <sub>5</sub>	35 Band *	P <sub>2</sub> O <sub>5</sub>	54 Band *	P <sub>2</sub> O <sub>5</sub>				
Sulfur	0-6" 6-24"	*****				K <sub>2</sub> O	0	K <sub>2</sub> O	0	K <sub>2</sub> O				
Boron						Cl		Cl		Cl				
Zinc	2.06 ppm	*****				S	0	S	0	S				
Iron						B		B		B				
Manganese						Zn	0	Zn	0	Zn				
Copper						Fe		Fe		Fe				
Magnesium						Mn		Mn		Mn				
Calcium						Cu		Cu		Cu				
Sodium						Mg		Mg		Mg				
Org.Matter	5.3 %	*****				Lime		Lime		Lime				
Carbonate(CCE)						Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
						Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	*****				0-6"	7.9							
	0.68 mmho/cm 0.62 mmho/cm	*****				6-24"	8.3							

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K20 = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 125 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**



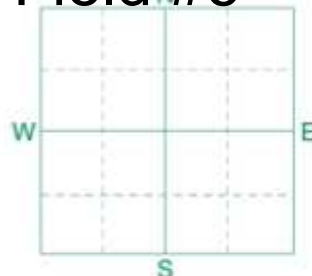


Soil Analysis by AgVise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **George's North**  
 SAMPLE ID  
 FIELD NAME **George North**  
 COUNTY  
 TWP **10** RANGE **2E**  
 SECTION **6** QTR **NW** ACRES **110**  
 PREV. CROP **Soybeans**

# Field #6



SUBMITTED FOR:  
**Anseeuw Dairy Farm**

SUBMITTED BY: **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **RDG 1N0**

REF # **1899087** BOX # **0**  
 LAB # **NW29472**

Date Sampled

Date Received **05/10/2017**

Date Reported **1/23/2018**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		Weak	Low	Med	High								
Nitrate	0-6"	21 lb/ac				Barley-Feed							
	6-24"	36 lb/ac				YIELD GOAL		YIELD GOAL					
						80 BU							
	0-24"	57 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	13 ppm				N	68	N		N			
Potassium		513 ppm				P <sub>2</sub> O <sub>5</sub>	23	Band *	P <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>		
Chloride						K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O		K <sub>2</sub> O		
						Cl			Cl		Cl		
						S	5	Band (Triat)	S		S		
Sulfur	0-6"	16 lb/ac				B			B		B		
	6-24"	30 lb/ac				Zn	0		Zn		Zn		
Boron						Fe			Fe		Fe		
Zinc		1.68 ppm				Mn			Mn		Mn		
Iron						Cu			Cu		Cu		
Manganese						Mg			Mg		Mg		
Copper						Lime	0		Lime		Lime		
Magnesium						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)			
Calcium								% Ca	% Mg	% K	% Na	% H	
Sodium						0-6"	6.7						
Org Matter		6.6 %				0-24"	8.1						
Carbonate(CCC)													
	0-6"	0.67 mmho/cm											
Soil Salts	6-24"	0.81 mmho/cm											

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 40 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



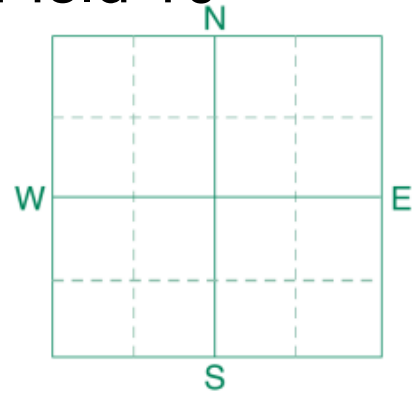


Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **Leslie's**  
 SAMPLE ID  
 FIELD NAME **Leslies**  
 COUNTY  
 TWP **10** RANGE **2E**  
 SECTION **4** QTR **SW/SE** ACRES **115**  
 PREV. CROP **Soybeans**

# Field 10



SUBMITTED FOR:  
**Anseeuw Dairy Farm**

**Oak Bluff, MB**

SUBMITTED BY: **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **2033812** BOX # **0**  
 LAB # **NW99848**

Date Sampled

Date Received **10/05/2017**

Date Reported **1/23/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	9 lb/ac 6 lb/ac				Corn-Grain		Wheat-High Pro.		Oats				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	15 lb/ac	***			160 BU		75 Bu		140 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band/Maint.		Band/Maint.		Band/Maint.				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	5 ppm	*****			N	147	N	195	N	110			
Potassium		301 ppm	*****			P <sub>2</sub> O <sub>5</sub>	69 Band *	P <sub>2</sub> O <sub>5</sub>	51 Band *	P <sub>2</sub> O <sub>5</sub>	42 Band *			
Chloride						K <sub>2</sub> O	10 Band (2x2) *	K <sub>2</sub> O	10 Band (Starter)*	K <sub>2</sub> O	10 Band (Starter)*			
Sulfur	0-6" 6-24"	38 lb/ac 54 lb/ac	*****			Cl		Cl		Cl				
Boron						S	0	S	0	S	0			
Zinc		0.74 ppm	*****			B		B		B				
Iron						Zn	2 Band	Zn	2 Band (Trial)	Zn	2 Band (Trial)			
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium						Cu		Cu		Cu				
Calcium						Mg		Mg		Mg				
Sodium						Lime		Lime		Lime				
Org.Matter		4.5 %	*****			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						Buffer pH		Capacity		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.48 mmho/cm 0.41 mmho/cm	*****			0-6" 7.8								
						6-24" 8.3								

Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 64 K<sub>2</sub>O = 43 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 47 K<sub>2</sub>O = 28 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P<sub>2</sub>O<sub>5</sub> = 35 K<sub>2</sub>O = 27 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

# Field

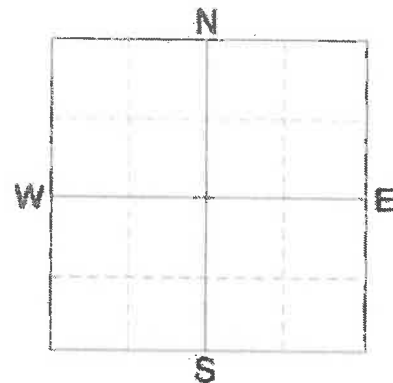
# # 11



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **9&10**  
 SAMPLE ID **14**  
 FIELD NAME **Billy's**  
 COUNTY  
 TWP **9** RANGE **2E**  
 SECTION **30** QTRSE ACRES **192**  
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:  
**ANSEEUW FARMS INC**

SUBMITTED BY: **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB**      **ROG 1NO**

REF # **1956112** BOX # **0**  
 LAB # **NW56291**

Date Sampled

Date Received **09/05/2017**

Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		V/Low	Low	Med	High									
Nitrate	0-6" <b>9 lb/ac</b>					Soybeans		Soybeans		Soybeans				
	6-24" <b>6 lb/ac</b>					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24" <b>15 lb/ac</b>	***				40 BU		45 BU		50 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band/Maint.		Band/Maint.		Band/Maint.				
Olsen Phosphorus	<b>9 ppm</b>	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	<b>518 ppm</b>	*****				N	***	N	***	N	***			
Chloride						P <sub>2</sub> O <sub>5</sub>	<b>35</b> Band *	P <sub>2</sub> O <sub>5</sub>	<b>40</b> Band *	P <sub>2</sub> O <sub>5</sub>	<b>44</b> Band *			
Sulfur	0-6" <b>14 lb/ac</b> 6-24" <b>18 lb/ac</b>					K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>			
Boron						Cl		Cl		Cl				
Zinc						S	<b>7</b> Band (Trial)	S	<b>7</b> Band (Trial)	S	<b>7</b> Band (Trial)			
Iron						B		B		B				
Manganese						Zn		Zn		Zn				
Copper						Fe		Fe		Fe				
Magnesium						Mn		Mn		Mn				
Calcium						Cu		Cu		Cu				
Sodium						Mg		Mg		Mg				
Org.Matter						Lime		Lime		Lime				
Carbonate(CCE)	<b>0.6 %</b>	****				Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
						Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" <b>0.75 mmho/cm</b> 6-24" <b>0.71 mmho/cm</b>	*****				0-6" <b>7.0</b>								
		*****				6-24" <b>7.8</b>								

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 40 K2O = 68 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

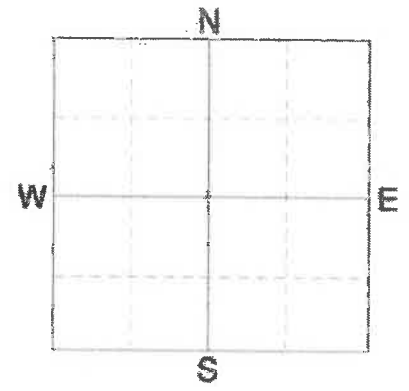
Field # 12 + 17



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **2**  
 SAMPLE ID **1&2**  
 FIELD NAME  
 COUNTY  
 TWP **9-2E** RANGE  
 SECTION **31** QTR **NE** ACRES **181**  
 PREV. CROP **Soybeans**



SUBMITTED FOR:  
**ANSEEUW FARMS INC**

SUBMITTED BY: **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **1958283** BOX # **0**  
 LAB # **NW83686**

Date Sampled \_\_\_\_\_ Date Received **09/25/2017** Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		Low	Med	High											
Nitrate	0-6" <b>8 lb/ac</b>				Canola-bu			Canola-bu			Wheat-High Pro.				
	6-24" <b>9 lb/ac</b>				YIELD GOAL			YIELD GOAL			YIELD GOAL				
	0-24" <b>17 lb/ac</b>				60 BU			50 BU			70 Bu				
Phosphorus	Olsen <b>9 ppm</b>	.....				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
		.....				Band/Maint.			Band/Maint.			Band/Maint.			
Potassium	<b>440 ppm</b>	.....				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		
Chloride		.....				N	<b>178</b>		N	<b>143</b>		N	<b>178</b>		
Sulfur	0-6" <b>20 lb/ac</b> 6-24" <b>360 lb/ac</b>	.....				P <sub>2</sub> O <sub>5</sub>	<b>54</b>	<b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>45</b>	<b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>44</b>	<b>Band *</b>	
Boron		.....				K <sub>2</sub> O	<b>0</b>		K <sub>2</sub> O	<b>0</b>		K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	
Zinc	<b>1.22 ppm</b>	.....				Cl			Cl			Cl			
Iron		.....				S	<b>15</b>	<b>Band</b>	S	<b>15</b>	<b>Band</b>	S	<b>0</b>		
Manganese		.....				B			B			B			
Copper		.....				Zn	<b>0</b>		Zn	<b>0</b>		Zn	<b>0</b>		
Magnesium		.....				Fe			Fe			Fe			
Calcium		.....				Mn			Mn			Mn			
Sodium		.....				Cu			Cu			Cu			
Org. Matter	<b>7.1 %</b>	.....				Mg			Mg			Mg			
Carbonate(CCE)		.....				Lime	<b>0</b>		Lime	<b>0</b>		Lime	<b>0</b>		
Sol. Salts	0-6" <b>0.74 mmho/cm</b>	.....				Soil pH	<b>6.8</b>		Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24" <b>1.19 mmho/cm</b>	.....				Buffer pH			% Ca	% Mg	% K	% Na	% H		
		.....													

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K2O = 27 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 45 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

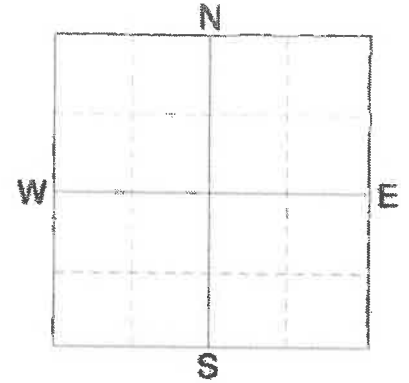
Field # 13



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **8&8B**  
 SAMPLE ID **8&8B**  
 FIELD NAME  
 COUNTY  
 TWP **9-2E** RANGE  
 SECTION **32** QTR **NW** ACRES **200**  
 PREV. CROP **Canola-bu**



**SUBMITTED FOR:**  
**ANSEEUW FARMS INC**

**SUBMITTED BY:** **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **RDG 1N0**

REF # **1956009** BOX # **0**  
 LAB # **NW56294**

Date Sampled \_\_\_\_\_ Date Received **09/05/2017** Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		Low	Med	High	Wheat-High Pro.			Wheat-High Pro.			Wheat-High Pro.			
Nitrate	0-6" <b>15 lb/ac</b>	*****			YIELD GOAL			YIELD GOAL			YIELD GOAL			
	6-24" <b>12 lb/ac</b>				65 Bu	70 Bu	80 Bu							
	0-24" <b>27 lb/ac</b>				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
Olsen <b>13 ppm</b>		*****				Band/Maint.		Band/Maint.		Band/Maint.				
Phosphorus	<b>461 ppm</b>	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	<b>461 ppm</b>	*****				N	<b>168</b>	N	<b>183</b>	N	<b>213</b>			
Chloride	0-6" <b>24 lb/ac</b>	*****				P <sub>2</sub> O <sub>5</sub>	<b>41</b> <b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>44</b> <b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>50</b> <b>Band *</b>			
	6-24" <b>144 lb/ac</b>	*****				K <sub>2</sub> O	<b>10</b> <b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b> <b>Band (Starter)*</b>	K <sub>2</sub> O	<b>10</b> <b>Band (Starter)*</b>			
Sulfur		*****				Cl		Cl		Cl				
Boron		*****				S	<b>0</b>	S	<b>0</b>	S	<b>0</b>			
Zinc	<b>0.75 ppm</b>	*****				B		B		B				
Iron		*****				Zn	<b>2</b> <b>Band (Trial)</b>	Zn	<b>2</b> <b>Band (Trial)</b>	Zn	<b>2</b> <b>Band (Trial)</b>			
Manganese		*****				Fe		Fe		Fe				
Copper		*****				Mn		Mn		Mn				
Magnesium		*****				Cu		Cu		Cu				
Calcium		*****				Mg		Mg		Mg				
Sodium		*****				Lime		Lime		Lime				
Org. Matter	<b>5.4 %</b>	*****				Soil pH			% Base Saturation (Typical Range)					
Carbonate (CCE)		*****				Buffer pH		Cation Exchange Capacity	% Ca		% Mg	% K	% Na	% H
0-6" <b>0.63 mmho/cm</b>	*****				0-6" <b>7.0</b>									
6-24" <b>1.01 mmho/cm</b>	*****				6-24" <b>7.8</b>									
Sol. Salts		*****												

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 41 K2O = 24 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 26 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K2O = 30 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

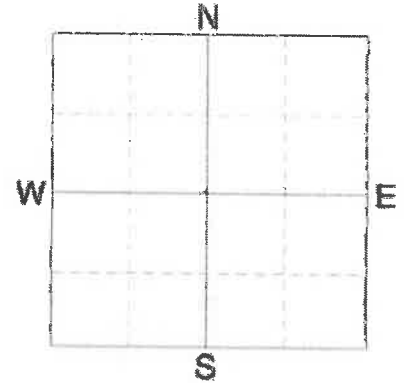
# Field # 14



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **485**  
 SAMPLE ID **485**  
 FIELD NAME  
 COUNTY  
 TWP **10-2E** RANGE  
 SECTION **6** QTR E 1/2 ACRES **295**  
 PREV. CROP **Wheat-Spring**



**SUBMITTED FOR:**  
**ANSEEUW FARMS INC**

**SUBMITTED BY: TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **RDG 1N0**

REF # **1956106** BOX # **0**  
 LAB # **NW56931**

Date Sampled

Date Received **09/06/2017**

Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		Low	Med	High							
Nitrate	0-6" 6-24"	6 lb/ac 6 lb/ac				Canola-bu		Canola-bu		Canola-bu	
						YIELD GOAL		YIELD GOAL		YIELD GOAL	
	0-24"	12 lb/ac				50 BU		60 BU		65 BU	
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
						Band/Maint.		Band/Maint.		Band/Maint.	
	Olsen	10 ppm				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Phosphorus						N	163	N	198	N	216
Potassium		513 ppm				P <sub>2</sub> O <sub>5</sub>	45	P <sub>2</sub> O <sub>5</sub>	54	P <sub>2</sub> O <sub>5</sub>	59
Chloride						K <sub>2</sub> O	0	K <sub>2</sub> O	0	K <sub>2</sub> O	0
	0-6" 6-24"	16 lb/ac 270 lb/ac				Cl		Cl		Cl	
Sulfur						S	15	S	15	S	15
Boron						B		B		B	
Zinc		1.10 ppm				Zn	0	Zn	0	Zn	0
Iron						Fe		Fe		Fe	
Manganese						Mn		Mn		Mn	
Copper						Cu		Cu		Cu	
Magnesium						Mg		Mg		Mg	
Sodium						Lime	0	Lime	0	Lime	0
Org Matter		6.5 %									
Carbonate(CCE)											
	0-6" 6-24"	0.57 mmho/cm 1.18 mmho/cm				Soil pH	6.7	% Base Saturation (Typical Range)			
Sol. Salts						Buffer pH	8.0	% Ca		% Mg	
						Cation Exchange Capacity		% K		% Na	
								% H			

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 45 K20 = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 27 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**  
**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 59 K20 = 29 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.**

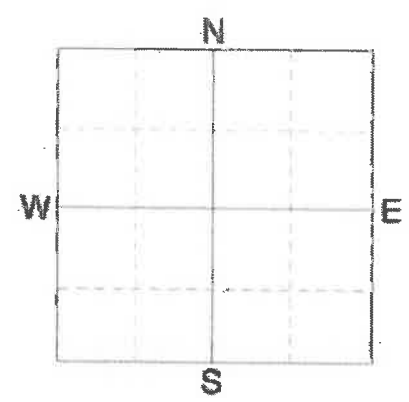
Field # 2



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID **6&7**  
 SAMPLE ID  
 FIELD NAME **By Robs**  
 COUNTY  
 TWP **10** RANGE **2E**  
 SECTION **5** QTR **W 1/2** ACRES **235**  
 PREV. CROP **Canola-bu**



**SUBMITTED FOR:**  
**ANSEEUW FARMS INC**

**SUBMITTED BY:** **TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **1957087** BOX # **0**  
 LAB # **NW56938**

Date Sampled \_\_\_\_\_ Date Received **09/06/2017** Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		Low	Med	High								
Nitrate	0-6" <b>32 lb/ac</b>				Soybeans		Soybeans		Soybeans			
	6-24" <b>24 lb/ac</b>				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" <b>56 lb/ac</b>				40 BU		45 BU		50 BU			
Olsen Phosphorus	<b>19 ppm</b>				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
					Band/Maint.		Band/Maint.		Band/Maint.			
Potassium	<b>456 ppm</b>				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
					N	***	N	***	N	***		
Chloride	0-6" <b>34 lb/ac</b>				P <sub>2</sub> O <sub>5</sub>	<b>35</b> Band *	P <sub>2</sub> O <sub>5</sub>	<b>40</b> Band *	P <sub>2</sub> O <sub>5</sub>	<b>44</b> Band *		
	6-24" <b>54 lb/ac</b>				K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>	K <sub>2</sub> O	<b>0</b>		
Sulfur					Cl		Cl		Cl			
Boron					S	<b>0</b>	S	<b>0</b>	S	<b>0</b>		
Zinc					B		B		B			
Iron					Zn		Zn		Zn			
Manganese					Fe		Fe		Fe			
Copper					Mn		Mn		Mn			
Magnesium					Cu		Cu		Cu			
Calcium					Mg		Mg		Mg			
Sodium					Lime		Lime		Lime			
Org. Matter					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Carbonate(CCE)	<b>2.1 %</b>				Buffer pH			% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" <b>0.84 mmho/cm</b>				0-6" <b>7.3</b>							
	6-24" <b>0.75 mmho/cm</b>				6-24" <b>7.9</b>							

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 40 K2O = 68 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**

**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \* Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.**



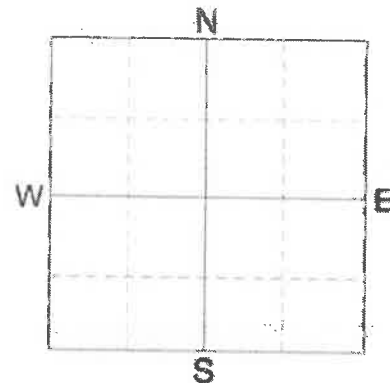
# Field # 19



Soil Analysis by Agvise Laboratories  
 (http://www.agvise.com)  
 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **3**  
 SAMPLE ID **3**  
 FIELD NAME  
 COUNTY  
 TWP **10-2E** RANGE  
 SECTION **6** QTR **SW** ACRES **105**  
 PREV. CROP **Wheat-Spring**



**SUBMITTED FOR:**  
**ANSEEUW FARMS INC**

**SUBMITTED BY: TE3462**  
**TERRACO-OAK BLUFF**  
**SOUTH PERIMETER**  
**BOX 171**  
**OAK BLUFF, MB** **ROG 1N0**

REF # **1956007** BOX # **0**  
 LAB # **NW56930**

Date Sampled

Date Received **09/06/2017**

Date Reported **1/8/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		1/2 Low	Low	Med	High								
Nitrate	0-6" <b>6 lb/ac</b>					Soybeans		Soybeans		Canola-bu			
	6-24" <b>6 lb/ac</b>					YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" <b>12 lb/ac</b>	**				40 BU		50 BU		50 BU			
Olsen Phosphorus	<b>9 ppm</b>	*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
Potassium	<b>520 ppm</b>	*****				Band/Maint.		Band/Maint.		Band/Maint.			
Chloride						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Sulfur	0-6" <b>16 lb/ac</b> 6-24" <b>216 lb/ac</b>	*****				N	***	N	***	N	163		
Boron						P <sub>2</sub> O <sub>5</sub>	35 Band *	P <sub>2</sub> O <sub>5</sub>	44 Band *	P <sub>2</sub> O <sub>5</sub>	45 Band *		
Zinc						K <sub>2</sub> O	0	K <sub>2</sub> O	0	K <sub>2</sub> O	0		
Iron						Cl		Cl		Cl			
Manganese						S	5 Band (Trial)	S	5 Band (Trial)	S	15 Band		
Copper						B		B		B			
Magnesium						Zn		Zn		Zn			
Calcium						Fe		Fe		Fe			
Sodium						Mn		Mn		Mn			
Org. Matter						Cu		Cu		Cu			
Carbonate(CCE)	<b>0.4 %</b>	**				Mg		Mg		Mg			
Sol. Salts	0-6" <b>0.65 mmho/cm</b> 6-24" <b>1.26 mmho/cm</b>	*****				Lime	0	Lime	0	Lime	0		
						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)			
								% Ca	% Mg	% K	% Na	% H	
						0-6" <b>6.6</b>							
						6-24" <b>7.9</b>							

**Crop 1: \* Caution: Seed Placed Fertilizer Can Cause Injury \*** Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

**Crop 2: \* Caution: Seed Placed Fertilizer Can Cause Injury \*** Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

**Crop 3: \* Caution: Seed Placed Fertilizer Can Cause Injury \*** Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.




## MMPP - Variety Yield Data Browser


### Select Municipalities or MASC Risk Areas

**Tip:** Click or touch the 'X' (at right) in these tip balloons to hide them permanently. ✕

**Tip:** Click or touch the button below to select Municipalities or MASC Risk Areas. ✕

Municipalities

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items. ✕


MACDONALD 

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

### Select Crop(s)

GRAIN CORN 

### Select Varieties

All Varieties 

### Select Year Range



2007 to 2016

## Search Summary

**141 records returned**

**332** farm varieties grown on **57,111.0** acres

### Average Yield

**3.073** Tonnes ( **121.0** Bushels ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

## Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Grain Corn	DEKALB DKC27-12 (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	PICKSEED 2600			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	PIONEER 39T66 (RT)(BT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	PIONEER 39T67 (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	PIONEER 39W54			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	P3997 (PIONEER)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	39M26 (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	39M27 (PIONEER) (BT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Grain Corn	39P78 (PIONEER) (BT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	DEKALB DKC26-79 (RT)(BT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	FRASER CPL 229 (RT)(BT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	HL R208 (HYLAND) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	NO VAR			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	PIONEER 39H83 (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	20T18 (ELITE) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39B64 (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39B90 (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39B94 (PIONEER) (BT)(LT) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39D95 (PIONEER) (BT)(LT) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39M26 (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Grain Corn	39M27 (PIONEER) (BT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	A41768TRR (PRIDE) (BT) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	DEKALB DKC26-79 (RT)(BT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	DKC27-32 (DEKALB) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	P7213R (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	P7535HR (PIONEER) (BT) (LT)(RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	P7535R (PIONEER) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	39D95 (PIONEER) (BT)(LT) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	39D97 (PIONEER) (BT)(LT) (RT)			*** Below Minimum Tolerance ***	
2009	Macdonald	Grain Corn	39M26 (PIONEER) (RT)			*** Below Minimum Tolerance ***	




### MMPP - Variety Yield Data Browser

#### Select Municipalities or MASC Risk Areas

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**Tip:** Click or touch the button below to select Municipalities or MASC Risk Areas.

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items.

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated.

#### Select Crop(s)

#### Select Varieties

#### Select Year Range



to

### Search Summary

**94 records returned**

**150** farm varieties grown on **10,667.0** acres

#### Average Yield

**2.685** Tonnes ( **2.959** Tons ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Alfalfa	AC MINTO			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	ALGONQUIN			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	FIELD KING BLEND			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	HYBRIFORCE 400			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	MAGNUM III WET			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	MAGNUM 3801 WET			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	MAXIMUM 1			*** Below Minimum Tolerance ***	
2007	Macdonald	Alfalfa	5454			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	AC MINTO			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	ALGONQUIN			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	FIELD KING BLEND			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	MAGNUM III WET			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	MAXIMUM 1			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	SPREDOR 3			*** Below Minimum Tolerance ***	
2008	Macdonald	Alfalfa	5454			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	AC MINTO			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	ALGONQUIN			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	FIELD KING BLEND			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	MAGNUM III WET			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	MAXI-TON			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	MAXIMUM 1			*** Below Minimum Tolerance ***	
2009	Macdonald	Alfalfa	5454			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	AC MINTO			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	ALGONQUIN			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	LEADER			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	MAGNUM			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	MAGNUM III WET			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	MAXI-TON			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	MAXIMUM 1			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	NO VAR			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	PICKSEED 2065MF			*** Below Minimum Tolerance ***	
2010	Macdonald	Alfalfa	5454			*** Below Minimum Tolerance ***	
2011	Macdonald	Alfalfa	AC MINTO			*** Below Minimum Tolerance ***	
2011	Macdonald	Alfalfa	ALGONQUIN			*** Below Minimum Tolerance ***	
2011	Macdonald	Alfalfa	LEADER			*** Below Minimum Tolerance ***	




### MMPP - Variety Yield Data Browser


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Municipalities

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items. ✕


MACDONALD 

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#### Select Crop(s)

BARLEY 

#### Select Varieties

All Varieties 

#### Select Year Range



2007 to 2016

### Search Summary

**71 records returned**

**184** farm varieties grown on **35,375.0** acres

#### Average Yield

**1.579** Tonnes ( **72.5** Bushels ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Barley	AC RANGER (EX467-5)			*** Below Minimum Tolerance ***	
2007	Macdonald	Barley	LACEY (BT965)			*** Below Minimum Tolerance ***	
2007	Macdonald	Barley	ROBUST			*** Below Minimum Tolerance ***	
2008	Macdonald	Barley	AC METCALFE (TR 232)			*** Below Minimum Tolerance ***	
2008	Macdonald	Barley	CDC MINDON (TR04378)			*** Below Minimum Tolerance ***	
2008	Macdonald	Barley	LEGACY (BT950)			*** Below Minimum Tolerance ***	
2008	Macdonald	Barley	TRADITION (BT 954)			*** Below Minimum Tolerance ***	
2009	Macdonald	Barley	AC RANGER (EX467-5)			*** Below Minimum Tolerance ***	
2009	Macdonald	Barley	CDC MINDON (TR04378)			*** Below Minimum Tolerance ***	
2009	Macdonald	Barley	LEGACY (BT950)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	AC RANGER (EX467-5)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	CDC AUSTENSON (TR06389)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	CDC MINDON (TR04378)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	CELEBRATION (6B01-2218)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	NEWDALE (TR258)			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	NO VAR			*** Below Minimum Tolerance ***	
2010	Macdonald	Barley	STELLAR-ND			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	AC RANGER (EX467-5)			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	CELEBRATION (6B01-2218)			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	CONLON			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	NEWDALE (TR258)			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	NO VAR			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	STANDARD			*** Below Minimum Tolerance ***	
2011	Macdonald	Barley	STELLAR-ND			*** Below Minimum Tolerance ***	
2012	Macdonald	Barley	AC METCALFE (TR 232)			*** Below Minimum Tolerance ***	
2012	Macdonald	Barley	CDC MEREDITH			*** Below Minimum Tolerance ***	
2012	Macdonald	Barley	CELEBRATION (6B01-2218)			*** Below Minimum Tolerance ***	
2012	Macdonald	Barley	CONLON			*** Below Minimum Tolerance ***	
2013	Macdonald	Barley	CDC MEREDITH			*** Below Minimum Tolerance ***	
2013	Macdonald	Barley	CELEBRATION (6B01-2218)			*** Below Minimum Tolerance ***	
2013	Macdonald	Barley	CONLON			*** Below Minimum Tolerance ***	
2013	Macdonald	Barley	NEWDALE (TR258)			*** Below Minimum Tolerance ***	
2013	Macdonald	Barley	TRADITION (BT 954)			*** Below Minimum Tolerance ***	
2014	Macdonald	Barley	CELEBRATION (6B01-2218)			*** Below Minimum Tolerance ***	




## MMPP - Variety Yield Data Browser


### Select Municipalities or MASC Risk Areas

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Municipalities

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MACDONALD 

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

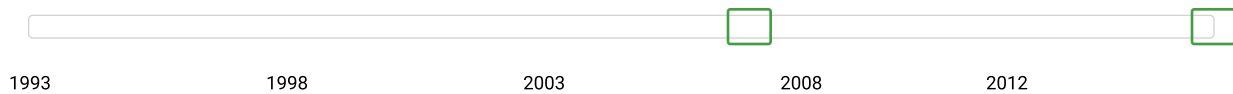
### Select Crop(s)

ARGENTINE CANOLA 

### Select Varieties

All Varieties 

### Select Year Range



2007 to 2016



### Search Summary

**314 records returned**

**2,696** farm varieties grown on **720,557.6** acres

#### Average Yield

**0.800** Tonnes ( **35.3** Bushels ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Argentine Canola	DKL 34-55 (DEKALB) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	IMC 209 RR (CNR604)(RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	LBD612RR (DL SEEDS)  5612.99  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	1818 (CANTERRA)  PR6382  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	2573 (INVIGOR)  PHS98- 640  (LT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	292CL (MONSANTO)  AV9292  (ST)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	34-65 (MONSANTO) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	35-85 (MONSANTO) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	4362 RR (DL SEEDS) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	4414 RR (DL SEEDS) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	45H26 (PIONEER)  03N230R  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	45H72 (PIONEER) (ST)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	45P70 (PIONEER)  04N201L  (ST)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	46A76 (PIONEER)  NS2804  (ST)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	46H23 (00N304R)(RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	501 (MONSANTO)  ZNP008			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	5440 (INVIGOR)  PHS04- 690  (LT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	6045CL (DL SEEDS) (ST)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	811RR (5610.99) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	8440 (INVIGOR)  PHS04- 781  (LT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Argentine Canola	997 RR (BRETT YOUNG) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Argentine Canola	NEX 830 CL (NQC02CNX21) (ST)			*** Below Minimum Tolerance ***	
2008	Macdonald	Argentine Canola	NEX 840CL (NEXERA)  DN040244  (ST)			*** Below Minimum Tolerance ***	
2008	Macdonald	Argentine Canola	SP 761 CL (ST)			*** Below Minimum Tolerance ***	
2008	Macdonald	Argentine Canola	V1035 (VICTORY) (RT)			*** Below Minimum Tolerance ***	




### MMPP - Variety Yield Data Browser


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Municipalities

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items. ✕


MACDONALD 

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

#### Select Crop(s)

SOYBEANS 

#### Select Varieties

All Varieties 

#### Select Year Range



2007 to 2016

### Search Summary

**355 records returned**

**2,121** farm varieties grown on **514,734.0** acres

#### Average Yield

**1.002** Tonnes ( **36.8** Bushels ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

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**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Soybeans	AC MONTCALM (SECAN) JOT02-07 RR  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	ACCORD (ADVANTAGE)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	DRAKORR (CO-OP) JPR33106RR  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	GENTLEMAN (CEROM)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	LS 0036RR (LEGEND) JX0036RR  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	LS 0045RR (LEGEND) JX0045RR  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	NSC TYNDALL RR (STELLAR)  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	NSC WARREN RR (NORTHSTAR)  CSR0034  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	NSC 2011RR (NORTHSTAR) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	OLEXRR (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	S00-F8 (X3008R)  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	TH 26005RR (THUNDER) JX6005RR  (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	26006RR (THUNDER) (RT)			*** Below Minimum Tolerance ***	
2007	Macdonald	Soybeans	90A06 (PIONEER)  PH06002  (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	LS 0036RR (LEGEND) JX0036RR  (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	NSC WARREN RR (NORTHSTAR)  CSR0034  (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	NSC2001 (NORTHSTAR) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	OLEXRR (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	OT04-01RR (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	S00-F8 (X3008R)  (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	TH 26005RR (THUNDER) JX6005RR  (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	24-51R (DEKALB) (RT)			*** Below Minimum Tolerance ***	
2008	Macdonald	Soybeans	26006RR (THUNDER) (RT)			*** Below Minimum Tolerance ***	




## MMPP - Variety Yield Data Browser


### Select Municipalities or MASC Risk Areas

**Tip:** Click or touch the 'X' (at right) in these tip balloons to hide them permanently. ✕

**Tip:** Click or touch the button below to select Municipalities or MASC Risk Areas. ✕

Municipalities

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items. ✕


MACDONALD 

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

### Select Crop(s)

RED SPRING WHEAT 

### Select Varieties

All Varieties 

### Select Year Range



2007 to 2016

### Search Summary

**118 records returned**

**1,657** farm varieties grown on **497,941.0** acres

#### Average Yield

**1.411** Tonnes ( **51.8** Bushels ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort.

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Red Spring Wheat	AC CORA (BW 152)			*** Below Minimum Tolerance ***	
2007	Macdonald	Red Spring Wheat	AC MAJESTIC (BW 173)			*** Below Minimum Tolerance ***	
2007	Macdonald	Red Spring Wheat	CDC GO (BW781)			*** Below Minimum Tolerance ***	
2007	Macdonald	Red Spring Wheat	CDC IMAGINE (BW758)(IMI)			*** Below Minimum Tolerance ***	
2007	Macdonald	Red Spring Wheat	KANE (BW342)			*** Below Minimum Tolerance ***	
2007	Macdonald	Red Spring Wheat	SOMERSET (BW307)			*** Below Minimum Tolerance ***	
2008	Macdonald	Red Spring Wheat	AC CORA (BW 152)			*** Below Minimum Tolerance ***	
2008	Macdonald	Red Spring Wheat	CDC IMAGINE (BW758)(IMI)			*** Below Minimum Tolerance ***	
2008	Macdonald	Red Spring Wheat	WASKADA (BW 357)			*** Below Minimum Tolerance ***	
2009	Macdonald	Red Spring Wheat	AC CORA (BW 152)			*** Below Minimum Tolerance ***	
2009	Macdonald	Red Spring Wheat	AC DOMAIN (BW 148)			*** Below Minimum Tolerance ***	
2009	Macdonald	Red Spring Wheat	CDC GO (BW781)			*** Below Minimum Tolerance ***	
2009	Macdonald	Red Spring Wheat	UNITY VB			*** Below Minimum Tolerance ***	
2009	Macdonald	Red Spring Wheat	5603 HR			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	AC DOMAIN (BW 148)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	CARBERRY (BW874)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	CDC GO (BW781)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	CDC IMAGINE (BW758)(IMI)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	FIELDSTAR VB			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	SOMERSET (BW307)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	SUPERB (BW252)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	WASKADA (BW 357)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	5601HR (BW256)			*** Below Minimum Tolerance ***	
2010	Macdonald	Red Spring Wheat	5603 HR			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	AC DOMAIN (BW 148)			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	CDC KERNEN (BW881)			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	JOURNEY (BW243)			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	WASKADA (BW 357)			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	5602HR (BW297)			*** Below Minimum Tolerance ***	
2011	Macdonald	Red Spring Wheat	5603 HR			*** Below Minimum Tolerance ***	
2012	Macdonald	Red Spring Wheat	AC DOMAIN (BW 148)			*** Below Minimum Tolerance ***	
2012	Macdonald	Red Spring Wheat	CARDALE (BW429)			*** Below Minimum Tolerance ***	
2012	Macdonald	Red Spring Wheat	CDC KERNEN (BW881)			*** Below Minimum Tolerance ***	
2012	Macdonald	Red Spring Wheat	WASKADA (BW 357)			*** Below Minimum Tolerance ***	
2012	Macdonald	Red Spring Wheat	5604HR CL (BW 878)			*** Below Minimum Tolerance ***	




### MMPP - Variety Yield Data Browser


#### Select Municipalities or MASC Risk Areas

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**Tip:** Click or touch the button below to select Municipalities or MASC Risk Areas. ✕

Municipalities

**Tip:** Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the  icon to clear all selected items. ✕


MACDONALD 

**Tip:** If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

#### Select Crop(s)

GREENFEED 

#### Select Varieties

All Varieties 

#### Select Year Range



2007 to 2016

### Search Summary

**19 records returned**

**38** farm varieties grown on **4,215.0** acres

#### Average Yield

**1.433** Tonnes ( **1.579** Tons ) per acre

*Summary includes aggregate data from 'below minimum tolerance' records*

### Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

**Tip:** Click or touch a column header to sort. On a desktop computer, hold and click a second column header to do a secondary sort. ✕

Year	Municipality	Crop	Variety	Farms	Acres	Yield/Acre (Metric)	Yield/Acre (Imperial)
2007	Macdonald	Greenfeed	BARLEY			*** Below Minimum Tolerance ***	
2007	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2008	Macdonald	Greenfeed	BARLEY			*** Below Minimum Tolerance ***	
2008	Macdonald	Greenfeed	MILLET			*** Below Minimum Tolerance ***	
2009	Macdonald	Greenfeed	MILLET			*** Below Minimum Tolerance ***	
2009	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2010	Macdonald	Greenfeed	MIXED GRAIN			*** Below Minimum Tolerance ***	
2010	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2011	Macdonald	Greenfeed	MILLET			*** Below Minimum Tolerance ***	
2012	Macdonald	Greenfeed	BARLEY			*** Below Minimum Tolerance ***	
2012	Macdonald	Greenfeed	MILLET			*** Below Minimum Tolerance ***	
2012	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2013	Macdonald	Greenfeed	MIXED GRAIN			*** Below Minimum Tolerance ***	
2013	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2014	Macdonald	Greenfeed	BARLEY			*** Below Minimum Tolerance ***	
2014	Macdonald	Greenfeed	MIXED GRAIN			*** Below Minimum Tolerance ***	
2014	Macdonald	Greenfeed	OATS			*** Below Minimum Tolerance ***	
2008	Macdonald	Greenfeed	OATS	4	536.0	2.117 Tonnes	2.333 Tons
2011	Macdonald	Greenfeed	OATS	3	1,200.0	0.713 Tonnes	0.786 Tons

## MANURE APPLICATION AGREEMENT

Anseeuw Dairy Farm Ltd. of SE-05-10-02E, town of Oak Bluff, Manitoba.

In the nutrient management plan for our dairy operation, our goal is to carry out an environmentally sound program. In order to accomplish this, we need more land than we currently own and rent. The proper application of livestock manure would follow a nutrient management plan in order to minimize the impact on the environment.

If you are interested in being part of this program, please complete this form as follows:

GERARD-PHYLLIS ANSEEUW gives permission to Anseeuw Dairy Farm Ltd.

(Landowner)

To spread manure on land owned at the following locations:

	<u>Lot/Section/Town</u>	<u>Tillable acres</u>	<u>Roll Number</u>
1.	<u>3 2 17017</u>	<u>67.19</u>	<u>0080600.000</u>
2.	<u>SE30 9 2E ✓</u>	<u>85.94</u>	<u>0081200.000</u>
3.	<u>1 17645</u>	<u>36.28</u>	<u>0079900.000</u>
4.	<u>NE31 9 2E ✓</u>	<u>80.00</u>	<u>0082300.000</u>
5.	<u>NW32 9 2E ✓</u>	<u>160.00</u>	<u>0083400.000</u>
	<u>6 10 2E</u>	<u>309.70</u>	<u>6 roll#s STAPLED ON BACK OF APPLICATION</u>

The landowner gives permission to the livestock farm to do soil sampling of his property to determine the condition of his soil as required for the purpose of a nutrient management plan.

The landowner will not give permission to use the land identified above for the application of livestock manure or bio-solids (sewage/sludge) to any other livestock farm during the term of this agreement.

This agreement shall be in force for a period of 5 years but at any time the agreement can be modified or nullified. However, sufficient lead time would be required if plans need to be altered.

The livestock farm will work in conjunction with the landowner's cropping plans to maximize nutrient utilizations.

NAME OF LANDOWNER

G.P ANSEEUW

SIGNATURE

G. Anseeuw Phyllis Anseeuw

DATE

May 24 2017



## MANURE APPLICATION AGREEMENT

Anseeuw Dairy Farm Ltd. of SE-05-10-02E, town of Oak Bluff, Manitoba.

In the nutrient management plan for our dairy operation, our goal is to carry out an environmentally sound program. In order to accomplish this, we need more land than we currently own and rent. The proper application of livestock manure would follow a nutrient management plan in order to minimize the impact on the environment.

If you are interested in being part of this program, please complete this form as follows:

Dorene J. Anseeuw gives permission to Anseeuw Dairy Farm Ltd.

(Landowner)

To spread manure on land owned at the following locations:

	<u>Lot/Section/Town</u>	<u>Tillable acres</u>	<u>Roll Number</u>
1.	<u>NW 6-10-2E</u>	<u>38.85</u>	
2.	<u>SW 6-10-2E</u>	<u>21.53</u>	
3.	<u>NE 1-10-1E</u>	<u>22.5</u>	
4.	<u>SE 1-10-1E</u>	<u>47.63</u>	
5.			

The landowner gives permission to the livestock farm to do soil sampling of his property to determine the condition of his soil as required for the purpose of a nutrient management plan.

The landowner will not give permission to use the land identified above for the application of livestock manure or bio-solids (sewage/sludge) to any other livestock farm during the term of this agreement.

This agreement shall be in force for a period of 5 years but at any time the agreement can be modified or nullified. However, sufficient lead time would be required if plans need to be altered.

The livestock farm will work in conjunction with the landowner's cropping plans to maximize nutrient utilizations.

NAME OF LANDOWNER

Dorene Anseeuw

SIGNATURE

D. Anseeuw

DATE

May 21/17

## MANURE APPLICATION AGREEMENT

Anseeuw Dairy Farm Ltd. of SE-05-10-02E, town of Oak Bluff, Manitoba.

In the nutrient management plan for our dairy operation, our goal is to carry out an environmentally sound program. In order to accomplish this, we need more land than we currently own and rent. The proper application of livestock manure would follow a nutrient management plan in order to minimize the impact on the environment.

If you are interested in being part of this program, please complete this form as follows:

Mark + Anita Anseeuw gives permission to Anseeuw Dairy Farm Ltd.  
(Landowner)

To spread manure on land owned at the following locations:

	<u>Lot/Section/Town</u>	<u>Tillable acres</u>	<u>Roll Number</u>
1.	<u>NW6-10-2E ✓</u>	<u>17.65</u>	<u>0093000.000</u>
2.	<u>NE6-10-2E ✓</u>	<u>52.21</u>	<u>0092400.000</u>
3.	<u>SW5-10-2E ✓</u>	<u>148.14</u>	<u>0092300.000</u>
4.	<u>NE31-09-2E ✓</u>	<u>67.95</u>	<u>0082400.000</u>
5.	<u>10-17531</u>	<u>67.85</u>	<u>0091800.000</u>

The landowner gives permission to the livestock farm to do soil sampling of his property to determine the condition of his soil as required for the purpose of a nutrient management plan.

The landowner will not give permission to use the land identified above for the application of livestock manure or bio-solids (sewage/sludge) to any other livestock farm during the term of this agreement.

This agreement shall be in force for a period of 5 years but at any time the agreement can be modified or nullified. However, sufficient lead time would be required if plans need to be altered.

The livestock farm will work in conjunction with the landowner's cropping plans to maximize nutrient utilizations.

NAME OF LANDOWNER

Mark A Anseeuw

SIGNATURE

[Signature]

DATE

May 31, 2017

## MANURE APPLICATION AGREEMENT

Anseeuw Dairy Farm Ltd. of SE-05-10-02E, town of Oak Bluff, Manitoba.

In the nutrient management plan for our dairy operation, our goal is to carry out an environmentally sound program. In order to accomplish this, we need more land than we currently own and rent. The proper application of livestock manure would follow a nutrient management plan in order to minimize the impact on the environment.

If you are interested in being part of this program, please complete this form as follows:

HOWARD LESLIE gives permission to Anseeuw Dairy Farm Ltd.  
(Landowner)

To spread manure on land owned at the following locations:

	<u>Lot/Section/Town</u>	<u>Tillable acres</u>	<u>Roll Number</u>
1.	<u>SW 4-10-2E</u>	<u>51</u>	<u>0091200.000</u>
2.	<u>SE 4-10-2E</u>	<u>64</u>	<u>0091100.000</u>
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

The landowner gives permission to the livestock farm to do soil sampling of his property to determine the condition of his soil as required for the purpose of a nutrient management plan.

The landowner will not give permission to use the land identified above for the application of livestock manure or bio-solids (sewage/sludge) to any other livestock farm during the term of this agreement.

This agreement shall be in force for a period of 5 years but at any time the agreement can be modified or nullified. However, sufficient lead time would be required if plans need to be altered.

The livestock farm will work in conjunction with the landowner's cropping plans to maximize nutrient utilizations.

NAME OF LANDOWNER

SIGNATURE

DATE

HOWARD LESLIE  
[Signature]  
June 27, 2017