

MUNICIPALITY OF LORNE

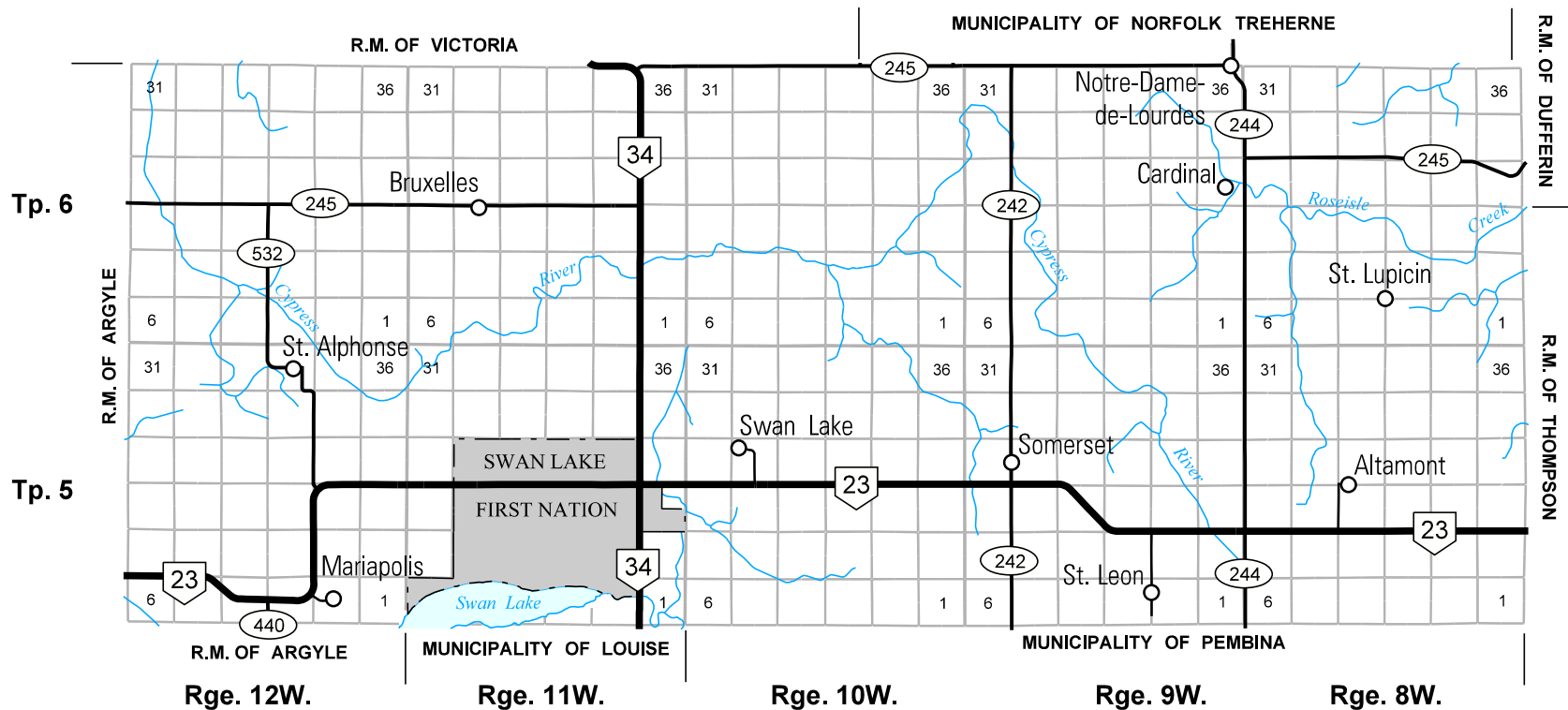


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SCALE IN KILOMETRES

PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 1, 2015

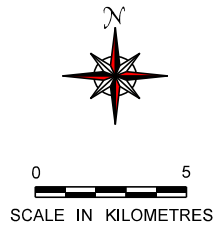
LEGEND

- PROVINCIAL TRUNK HIGHWAYS
- PROVINCIAL ROADS
- ACCESS ROADS






V.C. Hogs Ltd - Site Location Map

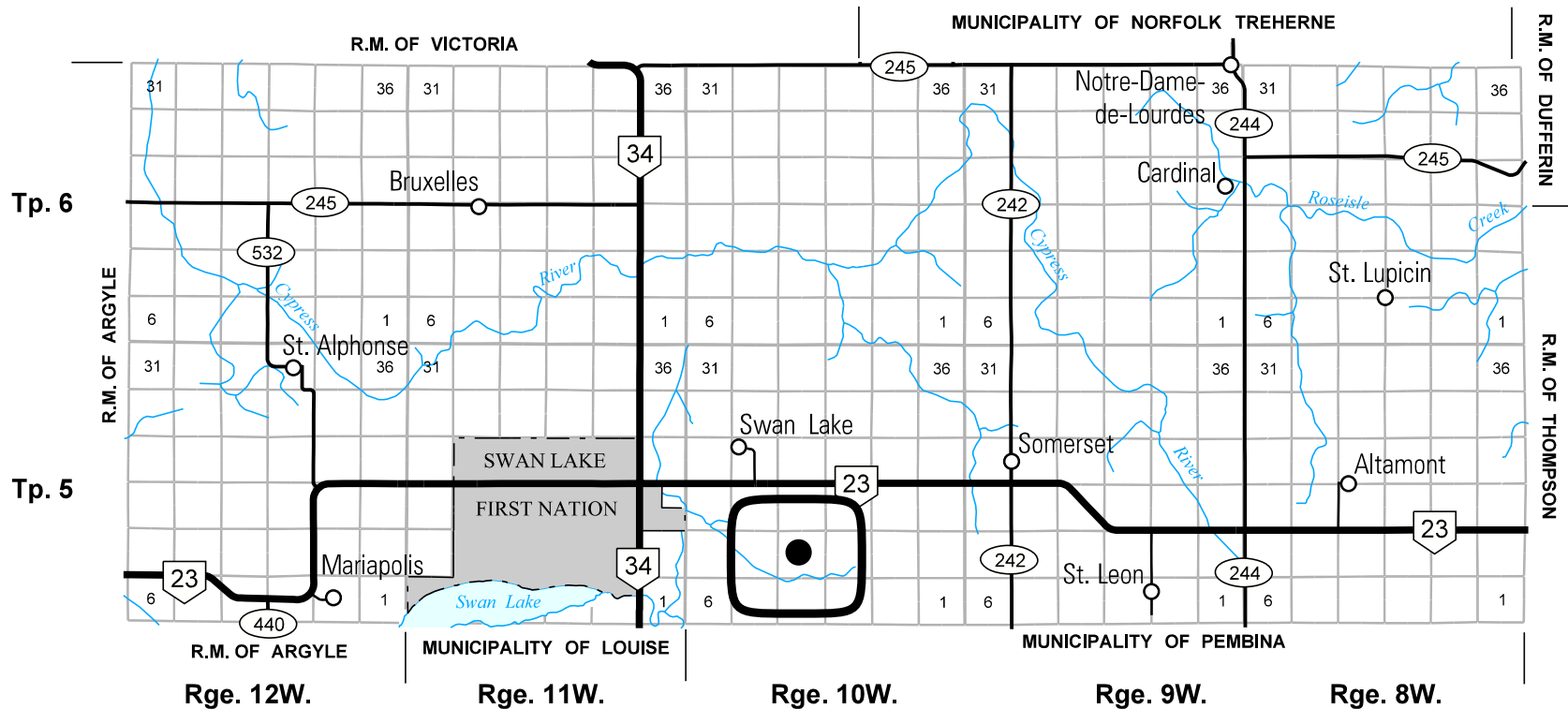
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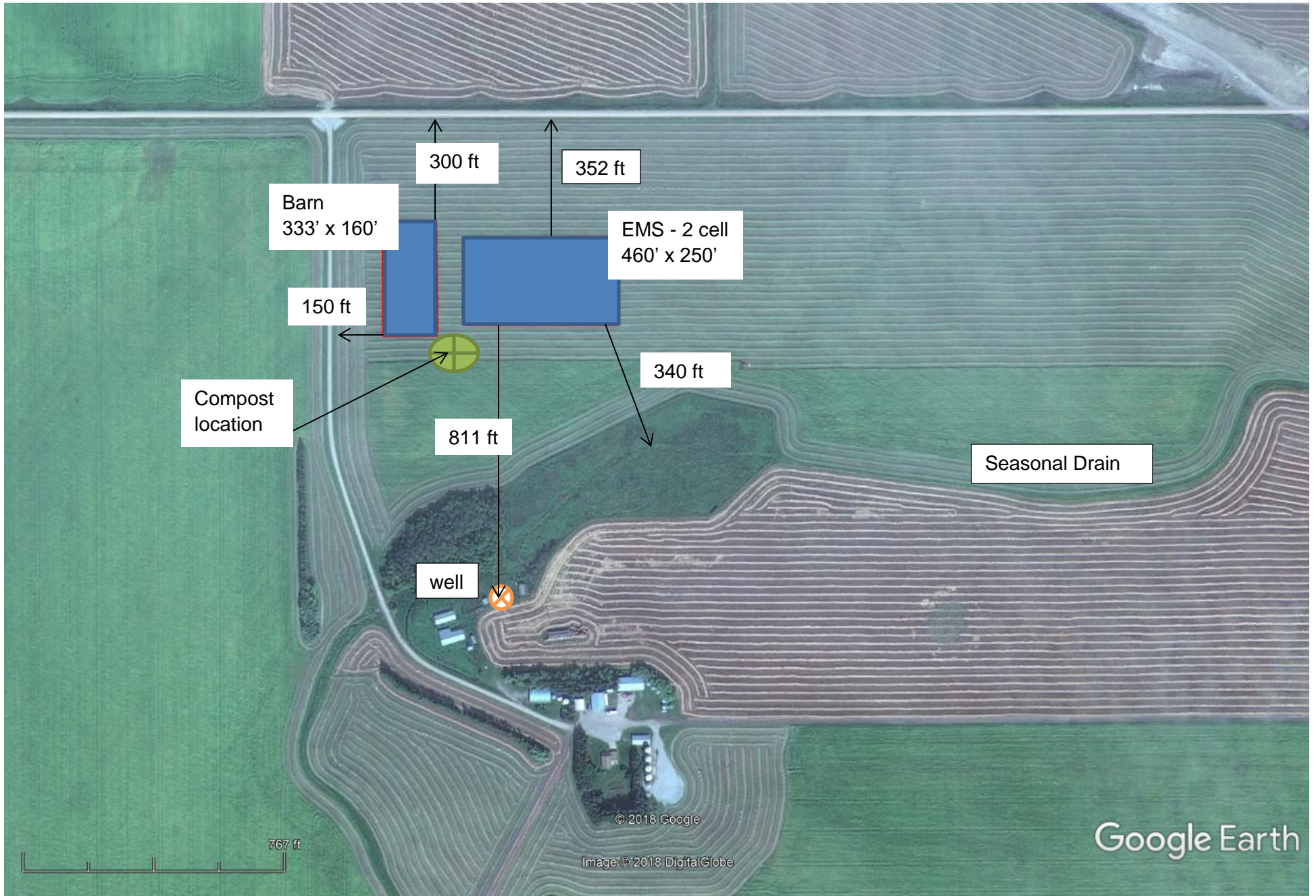
LEGEND

- PROVINCIAL TRUNK HIGHWAYS 
- PROVINCIAL ROADS 
- ACCESS ROADS 





V.C. Hog Ltd. – Site Location



V.C. Hog Ltd.- NW 9-5-10W

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 ¹	Current Animal Units	Proposed Number of Animals ²	Proposed Number of Animal Units
Dairy ³	Mature cows (lactating and dry) including associated livestock	2		-		-
	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		-	20	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	-	-	6,000	858
	Broilers	0.005		-		-
Chickens	Roasters	0.01		-		-
	Layers	0.0083		-		-
	Pullets	0.0033		-		-
	Broiler breeder pullets	0.0033		-		-
	Broiler breeder hens	0.01		-		-
	Broilers	0.01		-		-
Turkeys	Heavy Toms	0.02		-		-
	Heavy Hens	0.01		-		-
	Mares	1.333		-		-
Horses	Ewes	0.2		-		-
	Feeder lambs	0.063		-		-
Sheep	Type:			-		-
	Type:			-		-
Other Livestock				-		-
Total Current:				-	Total Proposed:	883

Footnotes:

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

² Enter the total number of animals associated with the operation post construction or expansion.

³ 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](#)

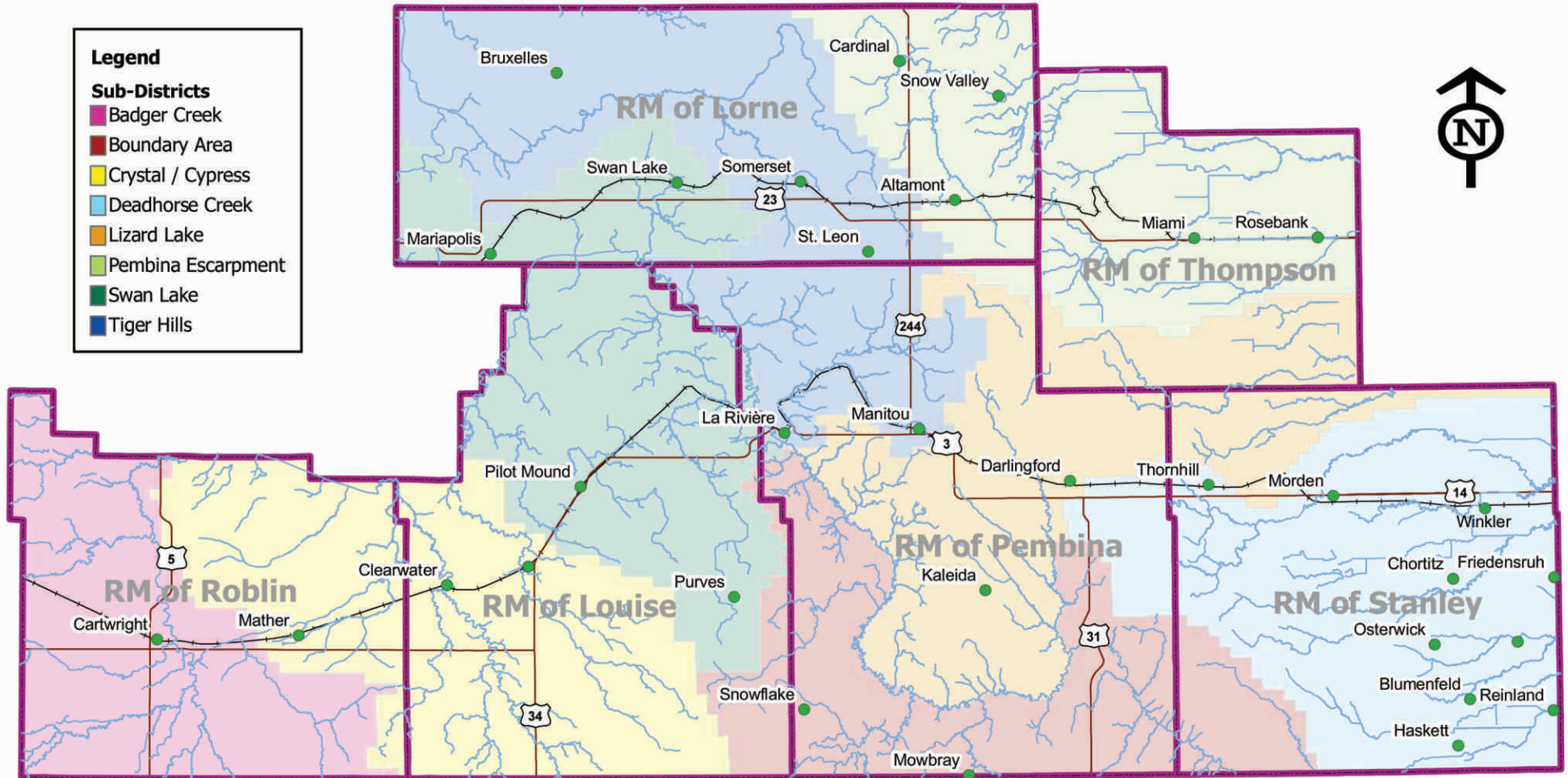


Pembina Valley Conservation District

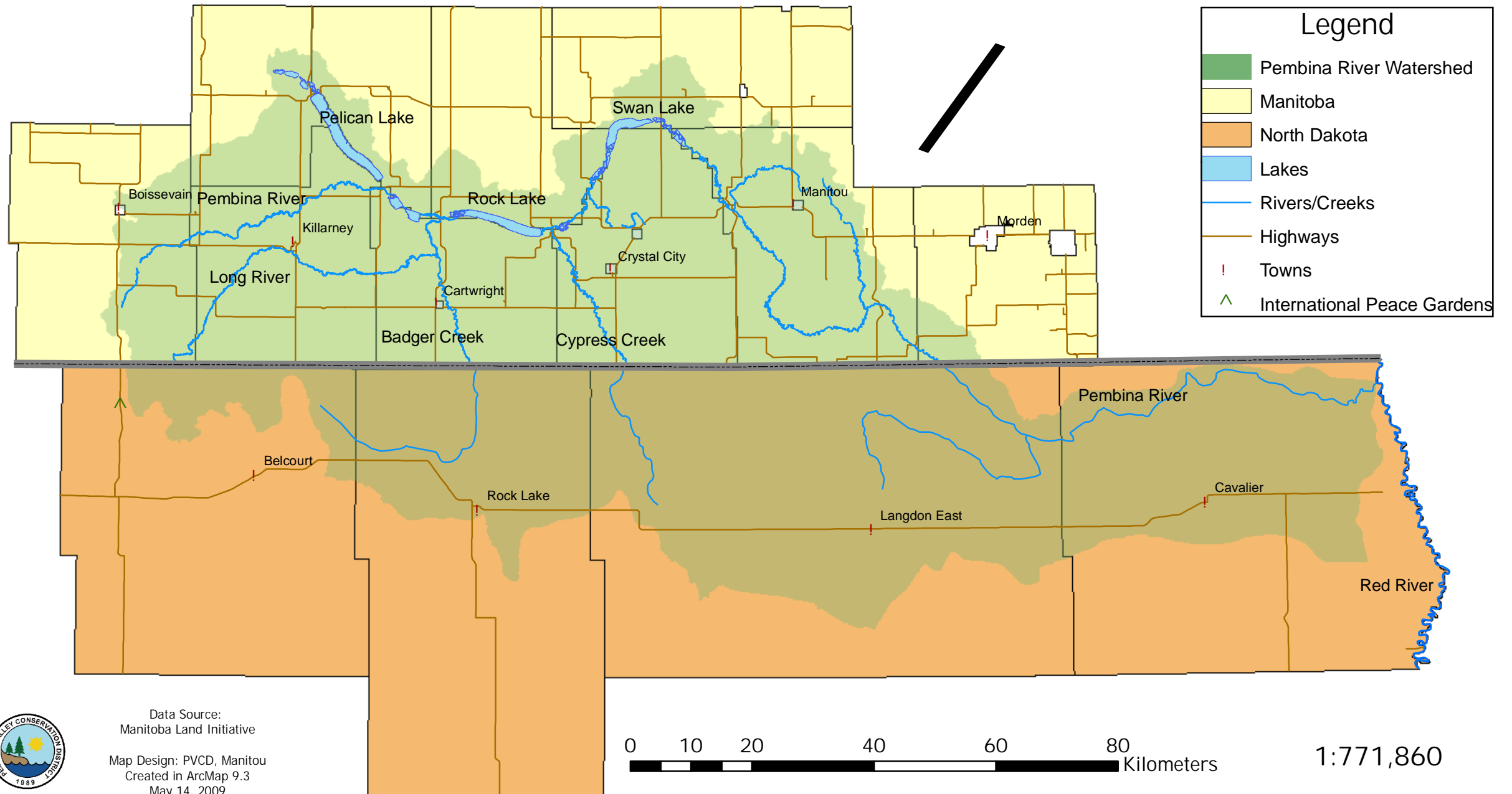
Legend

Sub-Districts

- Badger Creek
- Boundary Area
- Crystal / Cypress
- Deadhorse Creek
- Lizard Lake
- Pembina Escarpment
- Swan Lake
- Tiger Hills



Pembina River Watershed



Data Source:
Manitoba Land Initiative
Map Design: PVCD, Manitou
Created in ArcMap 9.3
May 14, 2009

0 10 20 40 60 80 Kilometers

1:771,860

Pembina Valley Watersheds

Legend	
RM Boundary	Watersheds
Highway	Winkler Aquifer
Drainage	Coleman
Order Number	Goudney
1	Stoney Creek
2	Tobacco Creek
3	Thornhill Coulee
4	Dead Horse Creek
5	Stephenfield
6	Hespler
6	Cypress Creek
	Pembina River



Please click on the shaded regions to view a larger image



Data Source:
Manitoba Land Initiative
Pembina Conservation District
Map Design: OVD, Manitoba
Created in ArcMap 9.2
Projection: NAD 1983 UTM Zone 14
May 26, 2008



1:352,000

Animal Type (A)	Animal Sub-type (B)	Daily Manure Production				Production Period ² (Days) (G)	Number of Animals ³ (Capacity) (H)	Total Manure Volume (ft ³) (FxGxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)	
		References (C)	Manure Type (D)	Default Manure Production (ft ³ /animal/day) (E)	Operation Manure Production ¹ (ft ³ /animal/day) (F)					
Dairy (milking cows ⁴ and associated livestock)	Free Stall	Table 6, pg 59, FPGs for Dairy 1995	Semi-Solid ⁵	3.5				-	0.0	
			Solid	3.4				-		
			Liquid ⁵	3.5				-	0.0	
	Tie Stall		Semi-Solid ⁵	3.6				-	0.0	
			Solid	3.5				-		
			Liquid ⁵	3.6				-	0.0	
Loose Housing		Solid	3.0				-			
Milking Parlour Manure and Washwater		Liquid	0.5							
Beef	Beef cows including associated livestock	pg 117, FPGs for Hogs 1998	Solid	1.2	1.2	365.00	20	8,760.00		
	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	0.25	365.00	6,000	547,500.00	3,410,925.0	
Animal Type	Type of Operation	Yearly Manure Production		Production Period ² (Days)	Number of Birds ³ (Capacity)	Total Manure Volume (ft ³) (F/365xGxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)			
		Default Manure Production (ft ³ /year/bird space)	Operation Manure Production ¹ (ft ³ /year/bird space)							
Chickens	Broilers – floor ⁶	Table 3, pg 85, FPGs for Poultry 2000		1.23				-		
	Broiler breeder hens ⁷			2.3				-		
	Broiler breeder pullets ⁶			0.99				-		
	Roasters – floor ⁶			1.16				-		
	Layers – cage ⁸			2.33				-	0.0	
	Layers – floor ⁷			1.68				-		
	Layers – solid pack ⁹							-		
	Pullets – cage ⁸				0.71				-	0.0
	Pullets – floor ⁶				0.75				-	
Pullets – solid pack ⁹							-			
Turkeys	Broilers ⁶	Table 3, pg 85, FPGs for Poultry 2000		2.83				-		
	Heavy toms ⁶			5.58				-		
	Heavy hens ⁶			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:

- ¹ 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.
- ² 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
- ³ ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).
- ⁴ Milking cows includes all lactating and dry cows.
- ⁵ Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.
- ⁶ 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/ft³
- ⁷ One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft³
- ⁸ Manure removed from barn at 90% moisture content with a density of 59 lb/ft³
- ⁹ Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

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

CELL	Proposed Manure Storage Facility Dimensions						Storage Capacity (days)
	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		
					Inside	Outside	
Primary	200 ft	180 ft	13 ft	4 ft	3.5	4	135
Secondary	200 ft	360 ft	12 ft	4 ft	3.5	4	316
Tertiary	ft	ft	ft	ft			
Circular Tank		Diameter	Height	Depth			
		ft	ft	ft			

The construction, modification or expansion of any manure storage structure requires a permit from Manitoba Sustainable Development as per the *Livestock Manure and Mortalities Management Regulation (M.R. 42/98)*.



Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison *				
Feeder/heifer/steer (600 lb.)		5	9	-
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair	20	12	15	300
Dry milking cow **		10	12	-
Lactating cow **		25	30	-
Bison		8	10	-
Horses				
Horses		8	11	-
Hogs				
Sow (Farrow/wean)	-	6.5		-
Dry Sow/Boar		4		-
Feeder	6,000	3		18,000
Nursery (33 lb.)		2		-
Chickens				
Broilers		0.035		-
Roasters/Pullets		0.04		-
Layers		0.055		-
Breeders		0.07		-
Turkeys				
Turkey Growers		0.13		-
Turkey Heavies		0.16		-
Sheep/Goats				
Sheep/Goats		2		-
Ewes/Does		3		-
Lambs/Kids (90 lb.)		1.6		-
TOTAL (IG/day)				18,300
TOTAL with 10% wash water				20,130

* For beef, dairy, bison and horse enterprises:
Use summer numbers if appropriate for the operation. Otherwise base projections on winter values.
Always use the greater of the two values.

** For intensive Dairy operations, please use the Dairy Barn Water Requirement Estimator found on separate sheet.

*** 10% of the total is added to allow for wash water

Enter this number on page 7 of Application Form.

Other consumption:
Normal household consumption: 60-75 IG/day per person or (272-340 l/day/person)

Unit Conversions		
Total per day	Total per year	Unit
20,130	7,347,450	IG
83,192	30,365,007	litres
0.083	30	cubic decametres (dam ³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 l/m

line

Well PID: 113804
 Location: SW9-5-10W
 UTMX:516946.7 UTM Y:5468966.1 XY Accuracy:No Accuracy
 Owner: DALE VAN CAUWENBERGHE
 Driller: Watkins & Argue Construction Co.
 Well Name:
 Date Completed: 2000 Mar 10
 Well Use: PRODUCTION
 Water Use: Domestic, Livestock
 Well Status: ACTIVE Aquifer: SHALE

REMARKS:

60 FT E OF HOUSE, EC=1800, H=5, FE=.5, CHLORIANATED, SEAL AT 98 FT

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	2	TOPSOIL
2.0	45	OXIDIZED SHALE
45.0	106	BLUE SHALE
106.0	121	LAYER OF HARD AND SOFT SHALE
121.0	141	BLUE SHALE

WELL CONSTRUCTION

From	To(ft)	Const.Method	Inside Dia.(in)	Outside Dia.(in)	Slot Size(in)	Type	Material
0.0	98.0	CASING	5.0			INSERT	PVC
98.0	136.0	PERFORATIONS	5.0			SAW CUT	PVC
		CASING GROUT					BENTONITE

Top of Casing: 1.0 ft. above ground

PUMPING TEST

Date : 2000 Mar 10 Pumping 10.0 Imp. gallons/minute
 Water level before test : 70.0 ft below ground
 Water level at end of test :
 Test duration: 3:00:00
 Test Zone: from 98.0 ft to 136.0 ft

line

Well PID: 69948
 Location: NW-9-5-10W
 UTMX:516951.9 UTM Y:5469784.5 XY Accuracy:UNKNOWN
 Owner: E VANCAUWENBERGHE
 Driller: Watkins & Argue Construction Co.
 Well Name:
 Date Completed: 1990 Jul 16
 Well Use: PRODUCTION
 Water Use: Domestic, Livestock
 Well Status: UNKNOWN Aquifer: SHALE

REMARKS:

EC=1200, FE=2.0, HARD=25 CHEMICAL ANALYSIS 1993

WELL LOG (Imperial units)

From	To(ft.)	Log
0.0	23	YELLOW CLAY AND SHALE
23.0	36	OXIDIZED SHALE
36.0	55	BROKEN BLUE SHALE
55.0	82.9	BLUE SHALE
82.9	94.9	SOFT BLUE SHALE
94.9	104.9	BLUE SHALE

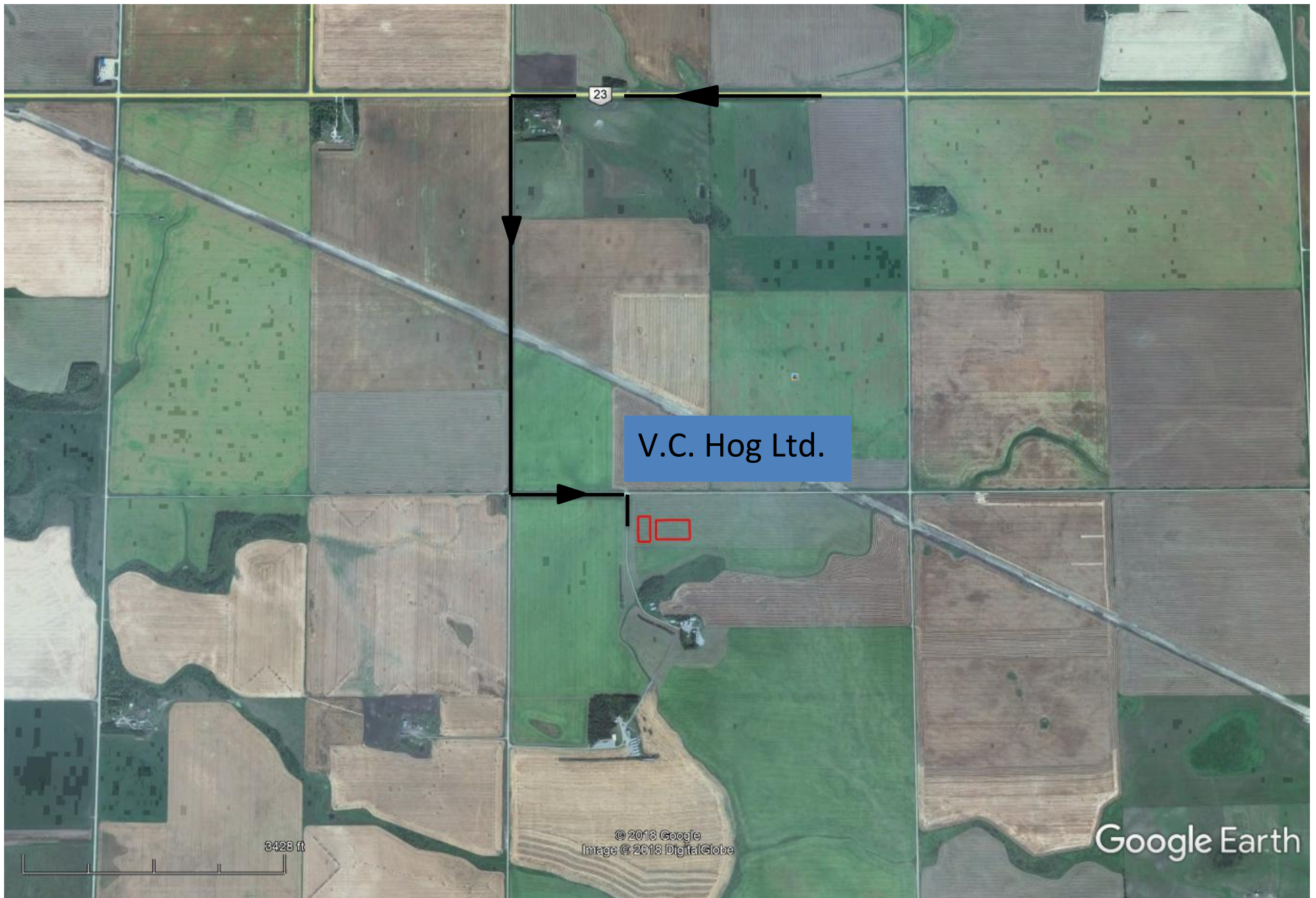
WELL CONSTRUCTION

From	To(ft)	Const.Method	Inside Dia.(in)	Outside Dia.(in)	Slot Size(in)	Type	Material
0.0	40.0	casing	5.0			INSERT	PVC
40.0	99.9	perforations	5.0			SAW CUT	PVC

Top of Casing: 0.0 ft. above ground

PUMPING TEST

Date : 1990 Jul 16 Pumping 9.0 Imp. gallons/minute
 Water level before test : 36.0 ft below ground
 Water level at end of test : 75.0 ft below ground
 Test duration: 6:00:00



Truck Haul Route - V.C. Hog Ltd.

Gary

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. **An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present;** in many areas, comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments.

Because the Manitoba CDC's 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 pass before it is utilized.

Third party requests for products wholly or partially derived from Biotics 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 Biotics data, as follows as: Data developed by the Manitoba Conservation Data Centre; Wildlife & 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 please contact me directly at (204) 945-7747.

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

From: Gary & Shaunda [<mailto:srossing@mymts.net>]
Sent: December-30-17 3:23 PM
To: Friesen, Chris (SD) <Chris.Friesen@gov.mb.ca>
Subject: re: species at risk information

Hi Chris

I am working with VC Hogs Ltd near Swan Lake, Manitoba on a technical review application for a farm expansion and am required to determine whether any species at risk are present at the building site or manure spread acres. I am hoping that you can provide the necessary information.

A list of manure spread fields involved with this proposed site is attached. Print is fairly small but can be enlarged for easier reading.

I trust this is the information you need.

Thankyou.

Pig/Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days on Feed per Cycle (days)	Number of Cycles for the Place per Year (days)	Feed Consumed Per Pig Per Day (kg/day)	Protein %	N Excreted Per Herd Adjusted for Storage N (lb/yr/herd)	Phosphorus Content of Feed (DM) %	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Gestating Sow	Liquid Uncovered Earthen	30%	6000	447	630	539	121	3	2.3	14%	0	0.53%	0
Nursing Sow	Liquid Uncovered Earthen	30%		539	539	539	21	15.2	6.5	20%	0	0.63%	0
Nursing Litter	Liquid Uncovered Earthen	30%		3.1	13.6	8	21	15.2	0	n/a	0	n/a	0
Live Cull Sow	Liquid Uncovered Earthen	30%		630	630	630	14	26.1	2.3	14%	0	0.46%	0
Bred Gilt	Liquid Uncovered Earthen	30%		340	447	394	121	3	2.3	14%	0	0.53%	0
Gilts (Purchased)	Liquid Uncovered Earthen	30%		290	340	315	28	13.0	3.2	16%	0	0.46%	0
Boars (Purchased)	Liquid Uncovered Earthen	30%		270	660	465	365	1	2.5	14%	0	0.46%	0
Weanlings	Liquid Uncovered Earthen	30%		13.6	61.6	38	52	6.9	0.7	20%	0	0.64%	0
Growers/Finishers	Liquid Uncovered Earthen	30%		61.6	280	171	112	3	2.8	16%	155456	0.46%	76806
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		n/a	n/a	n/a	365	1	n/a	n/a	0	n/a	0
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		n/a	n/a	n/a	365	1	n/a	n/a	0	n/a	0
Sows, farrow to finish	Liquid Uncovered Earthen	30%		n/a	n/a	n/a	365	1	n/a	n/a	0	n/a	0

Last Revised April 13, 2016

Species	Type	Storage Type	Volatilization	Animal Numbers	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days per Cycle (Days)	Cycles per Year	Rate of Gain (lb/day)	Days Place is Occupied per Year (days)	N Excreted Per Herd Adjusted for Storage N Loss (lb N/yr/herd)	P2O5 Excreted Per Herd Per Year (lb P2O5/year)
Cow Calf	Mature Cows (>2 years old)	Field Storage	40%	20	1375	1375	1375	365	1.0		365	2179.2	908.4
Cow Calf	Bred Heifer (14 mo - 2 years)	Field Storage	40%	0	926	1238	1082	280	1.0	1.42	280	0.0	0.0
Cow Calf	Replacement Heifers (7 mo-14 mo)	Field Storage	40%	0	581	926	754	225	1.0	1.53	225	0.0	0.0
Cow Calf	Unweaned Calves (0-7 mo)	Field Storage	40%	0	86	581	334	210	1.0	2.35	210	0.0	0.0
Cow Calf	Bulls	Field Storage	40%	0	2100	2200	2150	365	1.0		365	0.0	0.0
Cow Calf	Mature Cows and Bred Heifers, plus associated livestock	Field Storage	40%	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0	0.0
Feeder	Feedlot Cattle - long keep	Field Storage	40%	0	581	1300	941	240	1.0	2.99	240	0.0	0.0
Feeder	Feedlot Cattle - short keep	Field Storage	40%	0	975	1300	1138	116	1.0	2.80	116	0.0	0.0
Feeder	Backgrounders - pasture	Field Storage	40%	0	793	975	884	105	1.0	1.73	105	0.0	0.0
Feeder	Backgrounders - confined	Field Storage	40%	0	500	793	647	180	1.0	1.62	180	0.0	0.0

Last Revised January 21, 2015

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake
	P205	N	N	Units				(lb)	(lb)	(lb)
Alfalfa	13.8	58	58	lb/ton		ton/ac		-	-	-
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac		-	-	-
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	42.4	bu/ac	609	26854	49836	82371
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac		-	-	-
Corn Silage	12.7	31.2	31.2	lb/ton		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	103.7	bu/ac	159	4287	10223	17642
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	37.9	bu/ac		-	-	-
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	56.7	bu/ac	609	20373	51795	72859
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
Sub Total							1377	51514	111854	172872
Estimated Average Removal/Uptake (lb/ac)								37.4	81.2	125.5
Additional Acres										
Crop Planned on Additional Acres										
Total Acreage							1377			

Note: 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	P2O5
		(lb/year)	(lb/year)
Pigs	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	155456	76806
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
Beef	Mature Cows (>2 years old)	2179	908
	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
Dairy	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	0	0	
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	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	
Total		157635	77714

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

Nutrients Excreted	lbs
Nitrogen	157635
P2O5	77714
Crop Nutrient Use	
	lb/ac
Nitrogen Uptake	125.5
P2O5 Removal	37.4
Land Base Requirements	
	acres
Acres for Nitrogen Uptake	1256
Acres for 2 x P2O5 Removal	1039
Acres for 1 x P2O5 Removal	2077

CROP ROTATION TABLE



A	B	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Total Net Acreage for Manure Application				

- 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



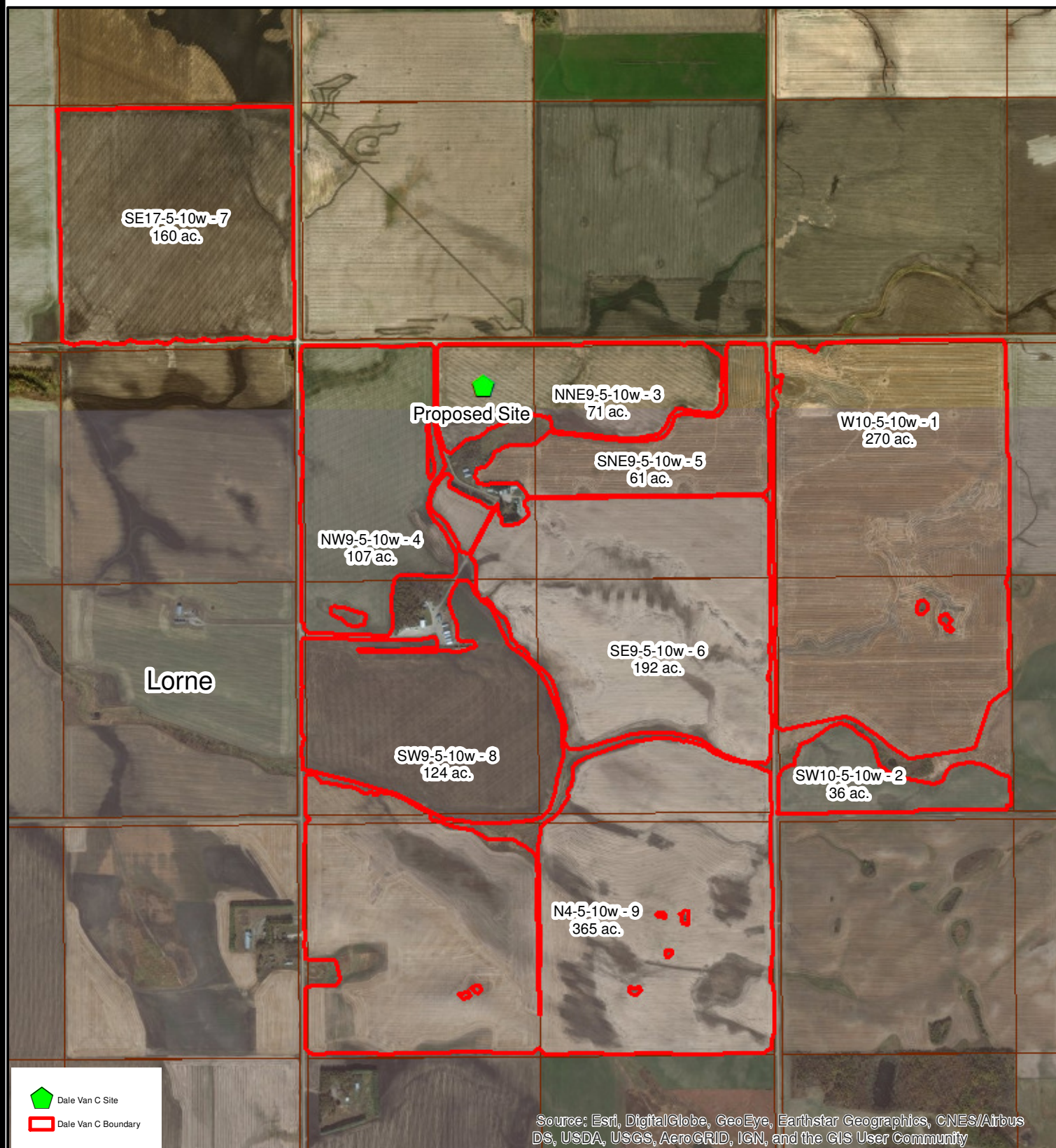
	A	B	C	D	E	F	G	H	I	J
Field	Legal Description	Rural Municipality	O/C/L/A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
1										
2										
3							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

Total Net Acreage for Manure Application:

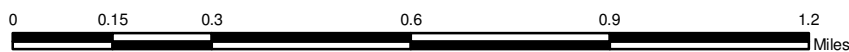
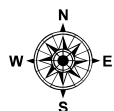
--

- 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).

Dale Van C. - Spread Fields Map



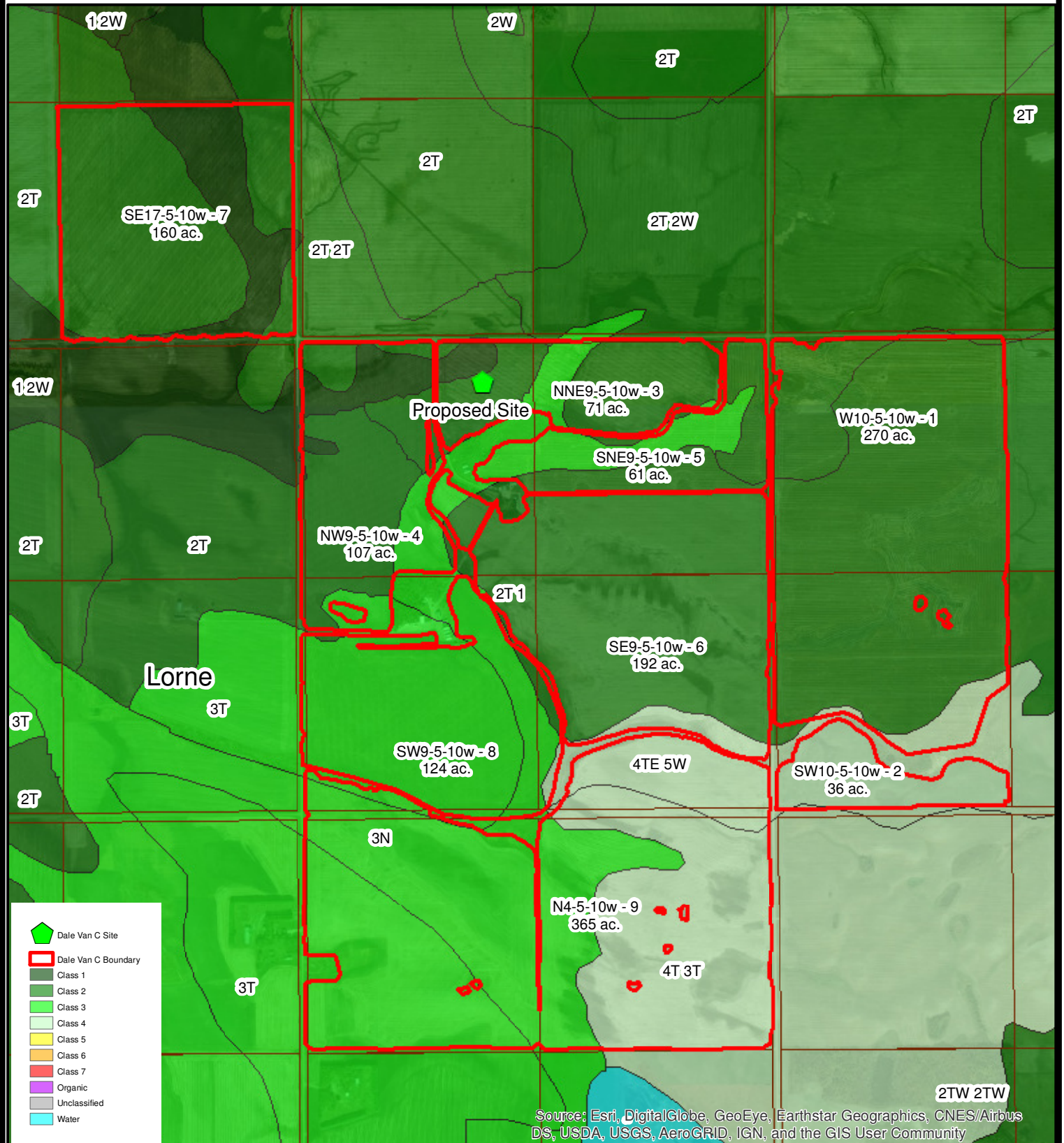
 Dale Van C Site
 Dale Van C Boundary



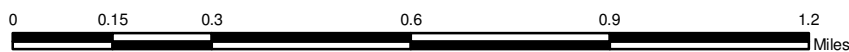
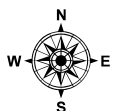
Coordinate System: NAD 1983 UTM Zone 14N
Central Meridian: 99°0'0"W



Dale Van C. - Soils Map

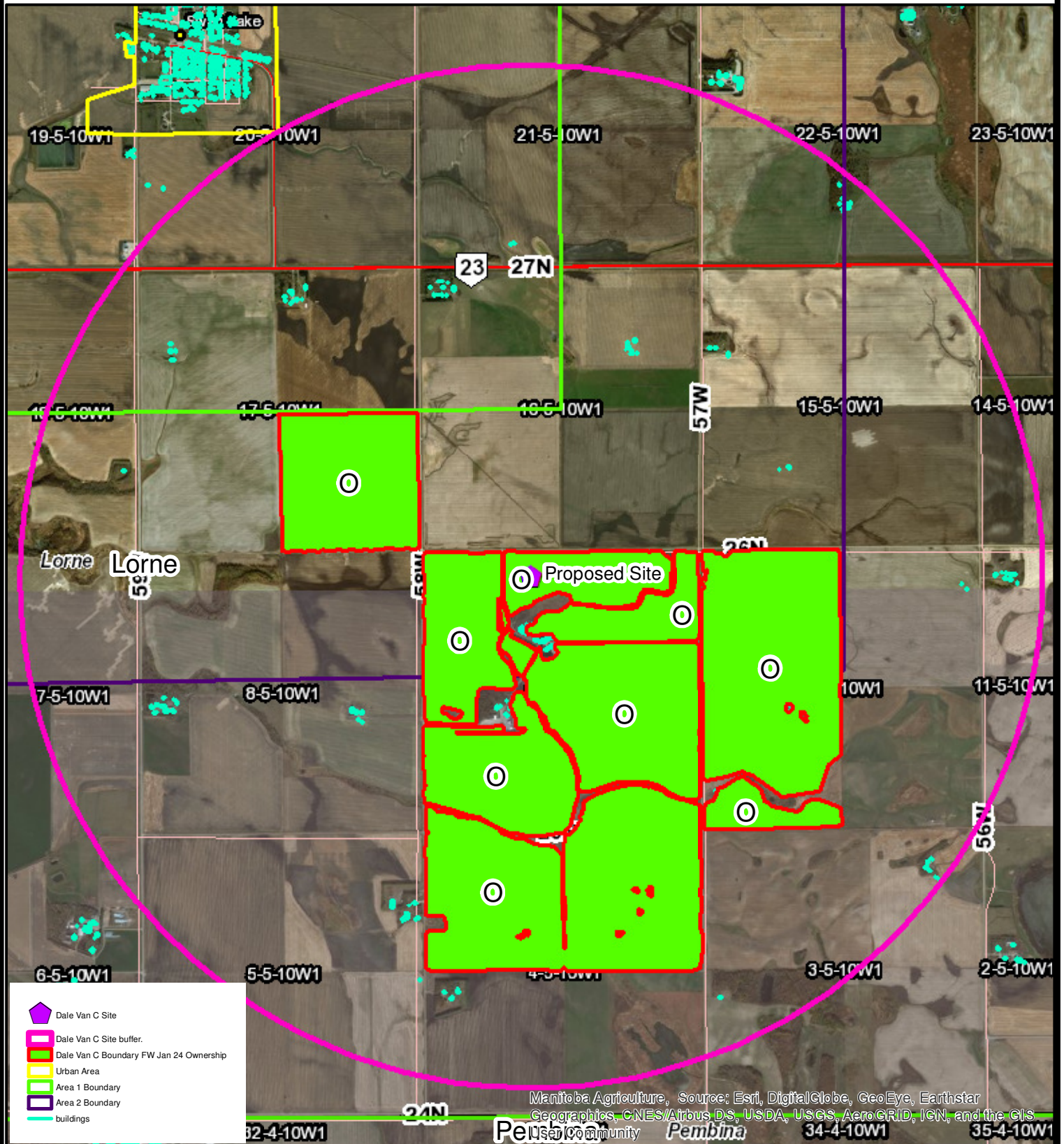


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

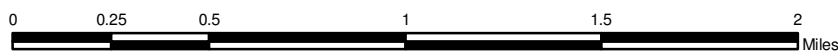
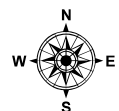


Coordinate System: NAD 1983 UTM Zone 14N
 Central Meridian: 99°00"W

Dale Van C. - Land Use Map



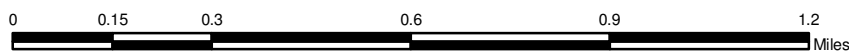
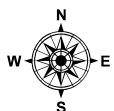
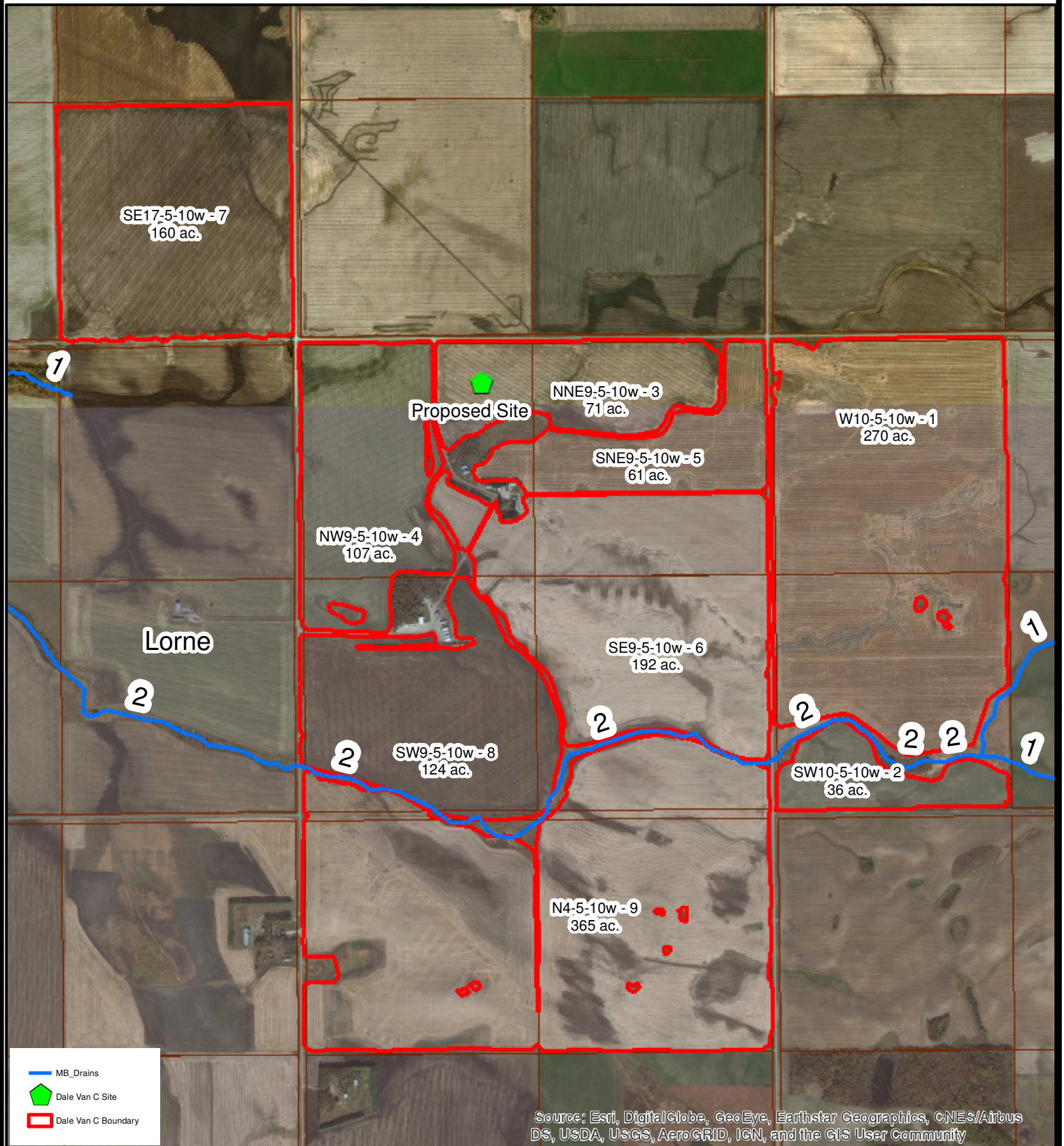
Manitoba Agriculture, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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



Dale Van C. - Drains Map



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



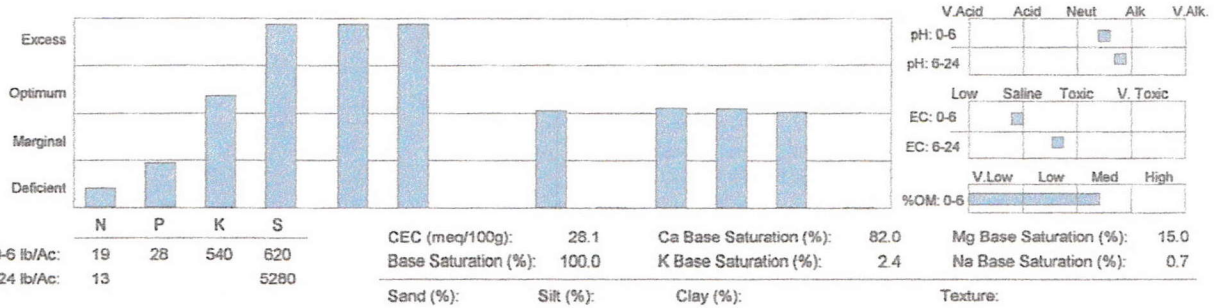
Field 1



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Farmers Edge - Pembina South Box 326 Pilot Mound, Manitoba R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: W 10-5-10 W1	Lot Number: 171201_168 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/14
Attention: Kory Van Damme Client ID: 09-0022	Total Acres: 274 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_168-05	0-6	10	14.0	270	310	4600	500	45	0.9		36.0	5.4	1.1		7.5	1.77	5.7
171201_168-06	6-24	2			880										7.8	3.30	



Total lb/Ac measured: 32 28 540 5900
 Estimated lb/Ac to 24 inch: 32 28 540 5900

Recommendation:	Comments: PREVIOUS CROP: WHEAT
Preliminary Report Some analysis is outstanding	
* Bicarbonate-Extractable (Olsen) Phosphate	



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



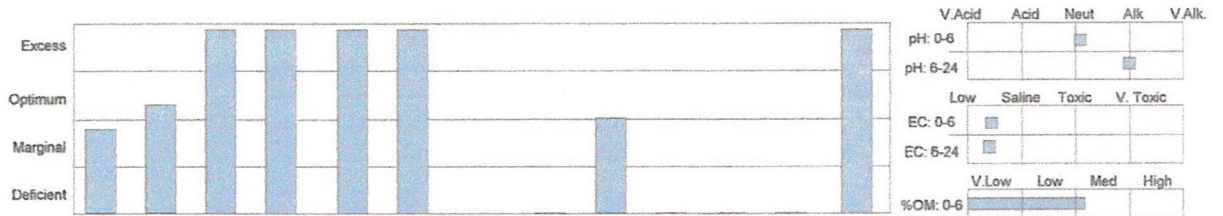
Field 2



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: SW 10-5-10 W1	Lot Number: 171201_170 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/06
Attention: Kory Van Damme Client ID: 17-0008	Total Acres: 39 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_170-01	0-6	19	35.0	510	33	3300	410	53		0.8					7.1	0.82	4.7
171201_170-02	6-24	16			65										8.0	0.73	



N	P	K	S	CEC (meq/100g):	21.3	Ca Base Saturation (%):	77.0	Mg Base Saturation (%):	16.0		
0-6 lb/Ac:	38	70	1020	66	Base Saturation (%):	100.0	K Base Saturation (%):	6.1	Na Base Saturation (%):	1.1	
6-24 lb/Ac:	96		390								
Total lb/Ac measured:				Sand (%):		Silt (%):		Clay (%):		Texture:	
Estimated lb/Ac to 24 inch:											

Recommendation:	Comments: PREVIOUS CROP: CANOLA ZONE 2: 16 ACRES
	* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



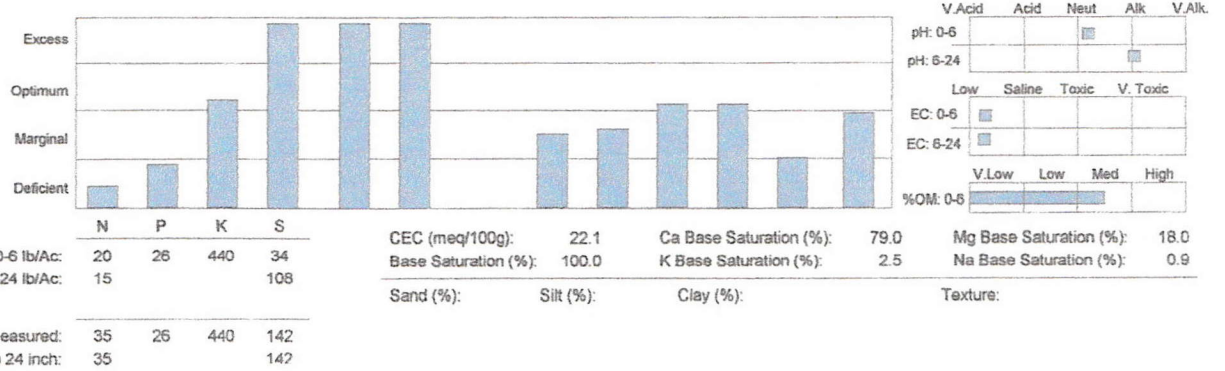
Field 3



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: NNE 9-5-10 W1	Lot Number: 171201_171 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/06
Attention: Kory Van Damme Client ID: 17-0008	Total Acres: 72 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_171-01	0-6	10	13.0	220	17	3500	480	46	0.6	0.6	39.0	6.8	1.0	5.9	7.2	0.51	6.0
171201_171-02	6-24	3			18									2.9	8.1	0.46	



Recommendation:	Comments: PREVIOUS CROP: WHEAT ZONE 3: 22 ACRES
	* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



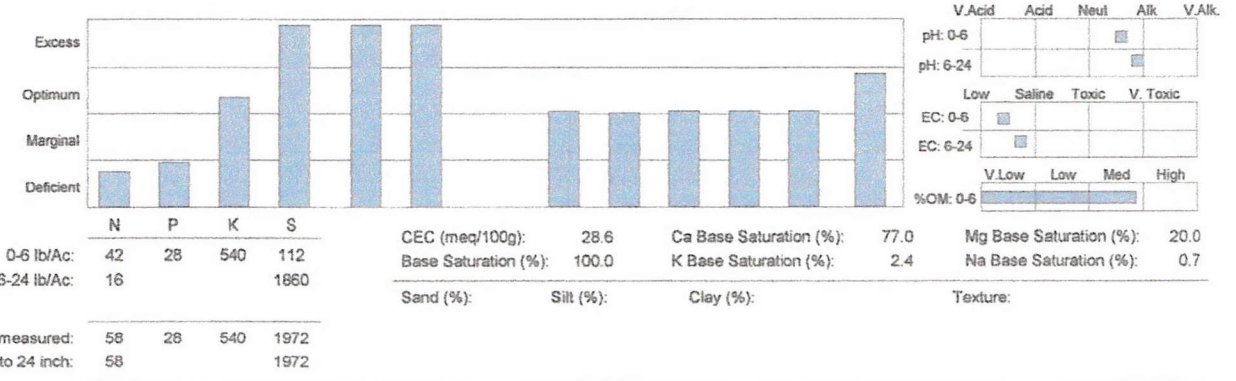
Field 4



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: NW 9-5-10 W1	Lot Number: 171201_172 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/06
Attention: Kory Van Damme Client ID: 17-0008	Total Acres: 110 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_172-01	0-6	21	14.0	270	56	4400	690	44	0.9	0.8	24.0	4.3	1.9	11.0	7.6	0.77	7.5
171201_172-02	6-24	3			310									5.6	7.9	1.44	



Recommendation:

Comments: PREVIOUS CROP: WHEAT
 ZONE 4: 24 ACRES

* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation.
 Farmer's Edge Laboratories limits liability to the cost of the analysis.



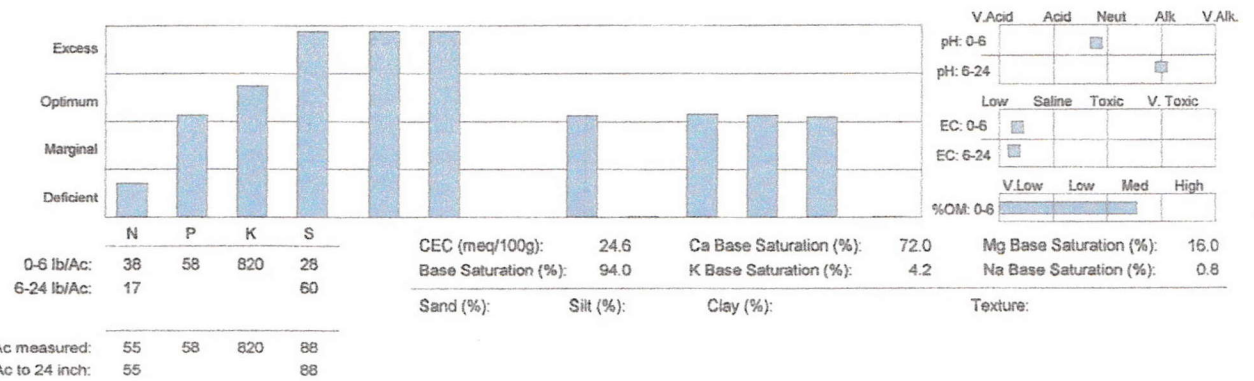
Field 5



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: SNE 9-5-10 W1	Lot Number: 171201_177 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/06
Attention: Kory Van Damme Client ID: 17-0008	Total Acres: 63 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_177-01	0-6	19	29.0	410	14	3600	490	46	1.1		51.0	7.9	2.5		6.8	0.60	6.2
171201_177-02	6-24	3			10										8.0	0.46	



Total lb/Ac measured: 55 N, 58 P, 820 K, 88 S
 Estimated lb/Ac to 24 inch: 55 N, 58 P, 820 K, 88 S

Recommendation:	Comments: PREVIOUS CROP: WHEAT ZONE 3: 21 ACRES * Bicarbonate-Extractable (Olsen) Phosphate
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Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



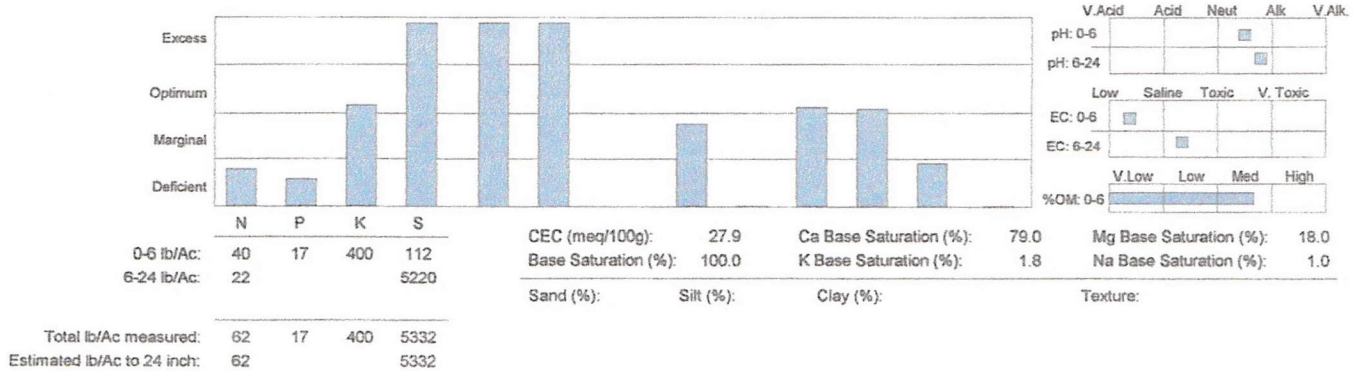
Field 6



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Farmers Edge - Pembina South Box 326 Pilot Mound, Manitoba R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: SE 9-5-10 W1	Lot Number: 171130_087 Date Sampled: 2017/11/28 Received Date: 2017/11/30 Date Reported: 2017/12/14
Attention: Kory Van Damme Client ID: 09-0022	Total Acres: 198 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171130_087-03	0-6	20	8.5	200	56	4400	600	66	0.7		40.0	5.3	0.9		7.5	0.68	6.7
171130_087-04	6-24		4		870										7.8	2.68	



Total lb/Ac measured: N: 62, P: 17, K: 400, S: 5332
 Estimated lb/Ac to 24 inch: N: 62, S: 5332

Recommendation:	Comments: PREVIOUS CROP: CANOLA
Preliminary Report Some analysis is outstanding	
* Bicarbonate-Extractable (Olsen) Phosphate	



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



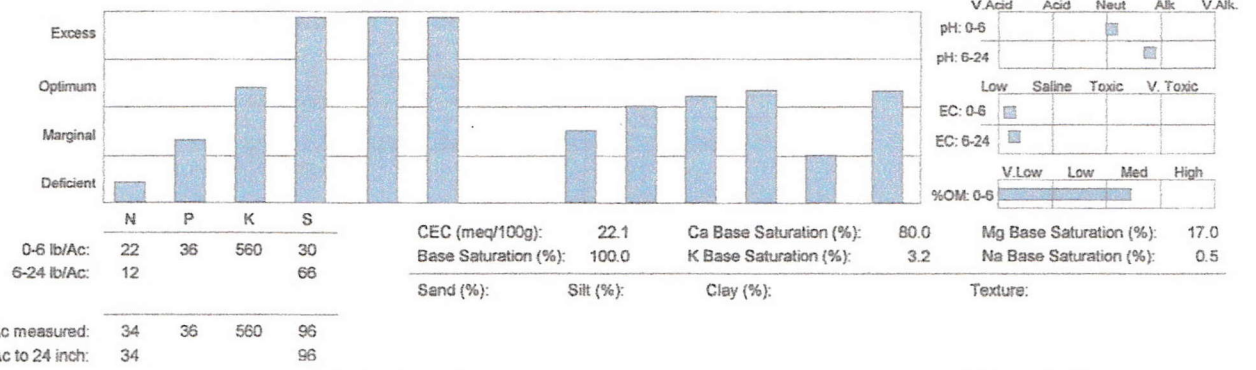
Field 7



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Farmers Edge - Pembina South Box 326 Pilot Mound, Manitoba R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: SE 17-5-10 W1	Lot Number: 171130_085 Date Sampled: 2017/11/28 Received Date: 2017/11/30 Date Reported: 2017/12/14
Attention: Kory Van Damme Client ID: 09-0022	Total Acres: 164 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171130_085-05	0-6	11	18.0	280	15	3500	450	25	0.6	0.8	65.0	17.0	1.0	<2	7.1	0.33	5.8
171130_085-06	6-24	2			11									6.1	7.8	0.51	



Recommendation:	Comments: PREVIOUS CROP: SOYBEANS
	Preliminary Report Some analysis is outstanding
	* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



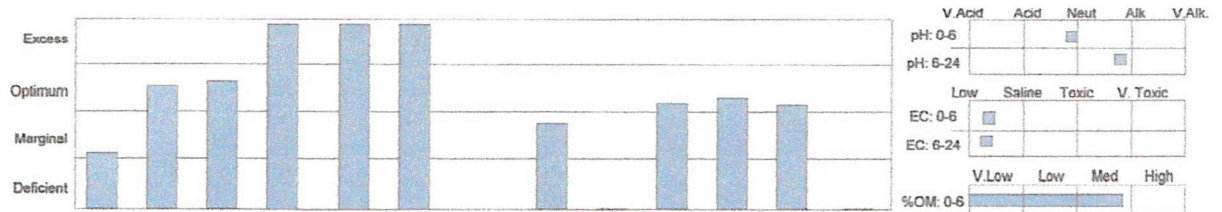
Field 8



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: SW 9-5-10 W1 Total Acres: 121 Sampler: BC	Lot Number: 171201_173 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/06
Attention: Kory Van Damme Client ID: 17-0008		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_173-01	0-6	33	43.0	360	14	3400	520	32	0.7		57.0	15.0	3.4		6.9	0.66	7.4
171201_173-02	6-24		3		10										7.8	0.56	



N	P	K	S	CEC (meq/100g):	22.9	Ca Base Saturation (%):	74.0	Mg Base Saturation (%):	19.0	
0-6 lb/Ac:	66	86	720	28	Base Saturation (%):	97.0	K Base Saturation (%):	4.1	Na Base Saturation (%):	0.6
6-24 lb/Ac:	20		60		Sand (%):	Silt (%):	Clay (%):	Texture:		
Total lb/Ac measured:	86	86	720	88						
Estimated lb/Ac to 24 inch:	86			88						

Recommendation:	Comments: PREVIOUS CROP: CORN ZONE 4: 25 ACRES
	* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.



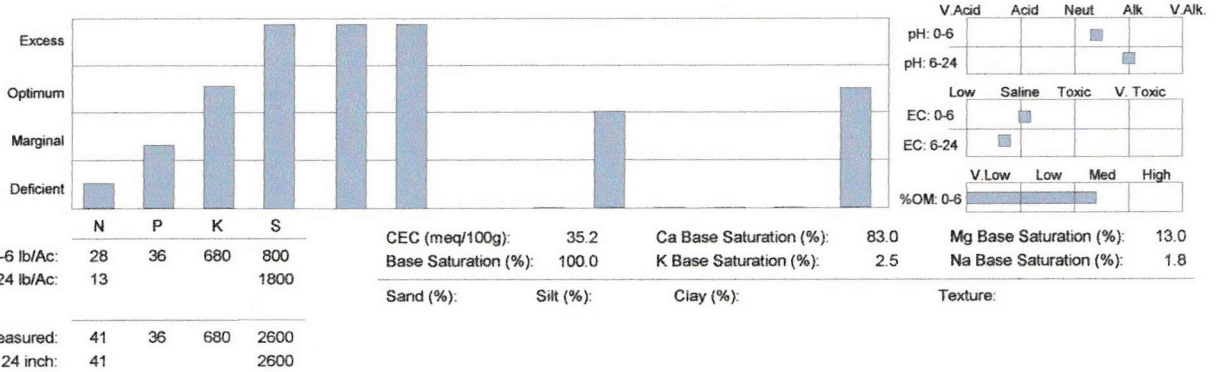
Field 9



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Fortified Agronomy Box 55 Pilot Mound, MB R0G 1P0	Grower: DAA FARMS Grower Field Name: Reference Field Name: Legal Location: N 4-5-10 W1	Lot Number: 171201_176 Date Sampled: 2017/11/29 Received Date: 2017/12/01 Date Reported: 2017/12/14
Attention: Kory Van Damme Client ID: 17-0008	Total Acres: 377 Sampler: BC	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171201_176-01	0-6	14	18.0	340	400	5800	550	140		0.8					7.4	2.14	5.6
171201_176-02	6-24	2			300										8.0	1.37	



Total lb/Ac measured: 41 N, 36 P, 680 K, 2600 S
 Estimated lb/Ac to 24 inch: 41 N, 36 P, 680 K, 2600 S

Recommendation:	Comments: PREVIOUS CROP: CANOLA
	Preliminary Report Some analysis is outstanding
	* Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.




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. ✕

LORNE 

Select Crop(s)

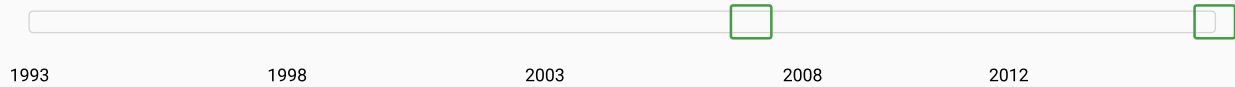
Tip: If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

RED SPRING WHEAT 

Select Varieties

All Varieties 

Select Year Range



2007 to 2016

Search Summary

147 records returned

1,970 farm varieties grown on **494,457.1** acres

Average Yield

1.544 Tonnes (**56.7** 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.

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Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2009	LORNE	RED SPRING WHEAT	GLENN	4	896.0	2.204 Tonnes
+ 2009	LORNE	RED SPRING WHEAT	CDC GO (BW781)	15	3,506.0	2.058 Tonnes
+ 2008	LORNE	RED SPRING WHEAT	CDC GO (BW781)	24	4,243.0	1.972 Tonnes
+ 2009	LORNE	RED SPRING WHEAT	HARVEST (BW259)	62	17,583.0	1.900 Tonnes
+ 2007	LORNE	RED SPRING WHEAT	CDC GO (BW781)	4	613.0	1.874 Tonnes
+ 2010	LORNE	RED SPRING WHEAT	CDC GO (BW781)	5	1,118.0	1.851 Tonnes
+ 2013	LORNE	RED SPRING WHEAT	HARVEST (BW259)	91	28,479.0	1.850 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	HARVEST (BW259)	90	30,839.0	1.837 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	CARDALE (BW429)	29	4,932.0	1.819 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	AAC BRANDON (BW 932)	4	657.0	1.811 Tonnes
+ 2015	LORNE	RED SPRING WHEAT	CDC PLENTIFUL (PT580)	19	3,147.0	1.810 Tonnes
+ 2008	LORNE	RED SPRING WHEAT	KANE (BW342)	7	1,398.0	1.746 Tonnes
+ 2008	LORNE	RED SPRING WHEAT	HARVEST (BW259)	50	10,422.0	1.722 Tonnes
+ 2015	LORNE	RED SPRING WHEAT	AAC BRANDON (BW 932)	29	6,935.0	1.715 Tonnes
+ 2013	LORNE	RED SPRING WHEAT	CARBERRY (BW874)	76	18,841.0	1.699 Tonnes
+ 2015	LORNE	RED SPRING WHEAT	HARVEST (BW259)	90	28,597.0	1.688 Tonnes
+ 2010	LORNE	RED SPRING WHEAT	GLENN	19	4,018.0	1.686 Tonnes
+ 2010	LORNE	RED SPRING WHEAT	HARVEST (BW259)	81	26,691.0	1.666 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	CDC UTMOST (BW 883)	3	1,133.0	1.659 Tonnes
+ 2015	LORNE	RED SPRING WHEAT	CARBERRY (BW874)	21	5,627.0	1.638 Tonnes
+ 2013	LORNE	RED SPRING WHEAT	GLENN	8	1,770.0	1.632 Tonnes
+ 2009	LORNE	RED SPRING WHEAT	KANE (BW342)	62	9,450.0	1.621 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	CARBERRY (BW874)	39	9,292.0	1.616 Tonnes
+ 2015	LORNE	RED SPRING WHEAT	CARDALE (BW429)	32	7,023.0	1.602 Tonnes
+ 2012	LORNE	RED SPRING WHEAT	CDC UTMOST (BW 883)	5	727.0	1.601 Tonnes
+ 2008	LORNE	RED SPRING WHEAT	AC BARRIE (BW 661)	25	6,016.0	1.580 Tonnes
+ 2014	LORNE	RED SPRING WHEAT	KANE (BW342)	12	2,836.0	1.575 Tonnes
+ 2009	LORNE	RED SPRING WHEAT	AC DOMAIN (BW 148)	33	8,384.0	1.568 Tonnes
+ 2009	LORNE	RED SPRING WHEAT	AC BARRIE (BW 661)	23	5,953.0	1.565 Tonnes


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. ✕

LORNE 

Select Crop(s)

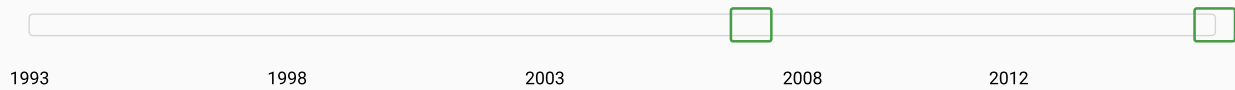
Tip: If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

OATS 

Select Varieties

All Varieties 

Select Year Range



2007 to 2016

Search Summary

69 records returned

302 farm varieties grown on **31,626.0** acres

Average Yield

1.600 Tonnes (**103.7** 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.

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Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2015	LORNE	OATS	SUMMIT (OT 2046)	6	1,082.0	2.253 Tonnes
+ 2016	LORNE	OATS	FURLONG (OT2009)	3	640.0	1.992 Tonnes
+ 2016	LORNE	OATS	SUMMIT (OT 2046)	6	896.0	1.983 Tonnes
+ 2009	LORNE	OATS	FURLONG (OT2009)	13	1,830.0	1.782 Tonnes
+ 2014	LORNE	OATS	SOURIS	9	660.0	1.723 Tonnes
+ 2013	LORNE	OATS	FURLONG (OT2009)	11	1,124.0	1.690 Tonnes
+ 2008	LORNE	OATS	FURLONG (OT2009)	29	3,870.0	1.671 Tonnes
+ 2007	LORNE	OATS	FURLONG (OT2009)	33	3,626.0	1.608 Tonnes
+ 2007	LORNE	OATS	RONALD (OT296)	9	766.0	1.591 Tonnes
+ 2010	LORNE	OATS	FURLONG (OT2009)	13	1,310.0	1.565 Tonnes
+ 2014	LORNE	OATS	FURLONG (OT2009)	10	1,852.0	1.560 Tonnes
+ 2015	LORNE	OATS	SOURIS	11	878.0	1.530 Tonnes
+ 2011	LORNE	OATS	FURLONG (OT2009)	18	2,778.0	1.485 Tonnes
+ 2012	LORNE	OATS	FURLONG (OT2009)	19	2,307.0	1.170 Tonnes
+ 2007	LORNE	OATS	AC ASSINIBOIA (OT 275)	Below	Minimum	Tolerance
+ 2007	LORNE	OATS	AC MORGAN	Below	Minimum	Tolerance
+ 2007	LORNE	OATS	MORTON	Below	Minimum	Tolerance
+ 2007	LORNE	OATS	NO VAR	Below	Minimum	Tolerance
+ 2007	LORNE	OATS	PINNACLE	Below	Minimum	Tolerance
+ 2007	LORNE	OATS	TRIPLE CROWN (OT 541)	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	AC ASSINIBOIA (OT 275)	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	AC MORGAN	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	HIFI	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	JORDAN (OT2027)	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	LEGGETT (OT2021)	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	PINNACLE	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	RONALD (OT296)	Below	Minimum	Tolerance
+ 2008	LORNE	OATS	TRIPLE CROWN (OT 541)	Below	Minimum	Tolerance
+ 2009	LORNE	OATS	HIFI	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. ✕


LORNE 

Select Crop(s)

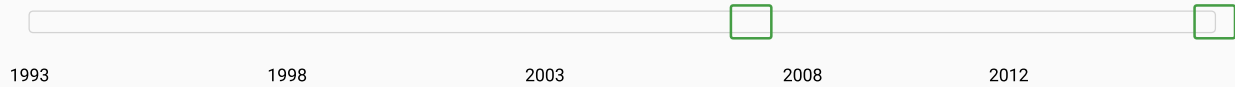
Tip: If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

ARGENTINE CANOLA 

Select Varieties

All Varieties 

Select Year Range



2007 to 2016

Search Summary

413 records returned

3,045 farm varieties grown on **610,211.7** acres

Average Yield

0.961 Tonnes (**42.4** 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.

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Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2014	LORNE	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	5	1,075.0	1.260 Tonnes
+ 2008	LORNE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	16	2,502.0	1.254 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	8	2,001.0	1.252 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	17	3,790.0	1.225 Tonnes
+ 2008	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) PHS04-781 (LT)	13	2,990.0	1.223 Tonnes
+ 2009	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) PHS04-781 (LT)	33	9,490.0	1.201 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	74-44 BL (DEKALB) (RT)	4	927.0	1.197 Tonnes
+ 2014	LORNE	ARGENTINE CANOLA	L261 (INVIGOR) (LT)	5	1,467.0	1.187 Tonnes
+ 2009	LORNE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	36	6,134.0	1.183 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	6060 RR (BRETT YOUNG) (RT)	4	817.0	1.176 Tonnes
+ 2009	LORNE	ARGENTINE CANOLA	5020 (INVIGOR) RHY01/597 (LT)	36	6,559.0	1.169 Tonnes
+ 2008	LORNE	ARGENTINE CANOLA	46P50 (PIONEER) 03N322R (RT)	5	1,356.0	1.164 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	SY4135 (SYNGENTA) (RT)	5	900.0	1.164 Tonnes
+ 2010	LORNE	ARGENTINE CANOLA	8440 (INVIGOR) PHS04-781 (LT)	42	12,459.0	1.159 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	5	814.0	1.157 Tonnes
+ 2010	LORNE	ARGENTINE CANOLA	5770 (INVIGOR) (LT)	15	2,768.0	1.154 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	L130 (INVIGOR) (LT)	36	9,643.0	1.155 Tonnes
+ 2008	LORNE	ARGENTINE CANOLA	5070 (INVIGOR) RHY01-1997 (LT)	9	1,844.0	1.150 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	L120 (INVIGOR) (LT)	14	1,683.0	1.148 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	V22-1 (VICTORY) (RT)	4	727.0	1.146 Tonnes
+ 2009	LORNE	ARGENTINE CANOLA	5030 (INVIGOR) RHY01-403 (LT)	13	3,772.0	1.141 Tonnes
+ 2008	LORNE	ARGENTINE CANOLA	5020 (INVIGOR) RHY01/597 (LT)	59	12,179.0	1.139 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	20	4,355.0	1.139 Tonnes
+ 2014	LORNE	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	24	4,230.0	1.137 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	L120 (INVIGOR) (LT)	21	4,100.0	1.134 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	8	1,395.0	1.135 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	1020 RR (NEXERA) (RT)	3	890.0	1.134 Tonnes
+ 2015	LORNE	ARGENTINE CANOLA	6056 CR (BRETT YOUNG) (RT)	7	1,692.0	1.134 Tonnes
+ 2013	LORNE	ARGENTINE CANOLA	1990 (CANTERRA) (RT)	19	2,701.0	1.129 Tonnes