

R.M. OF MACDONALD

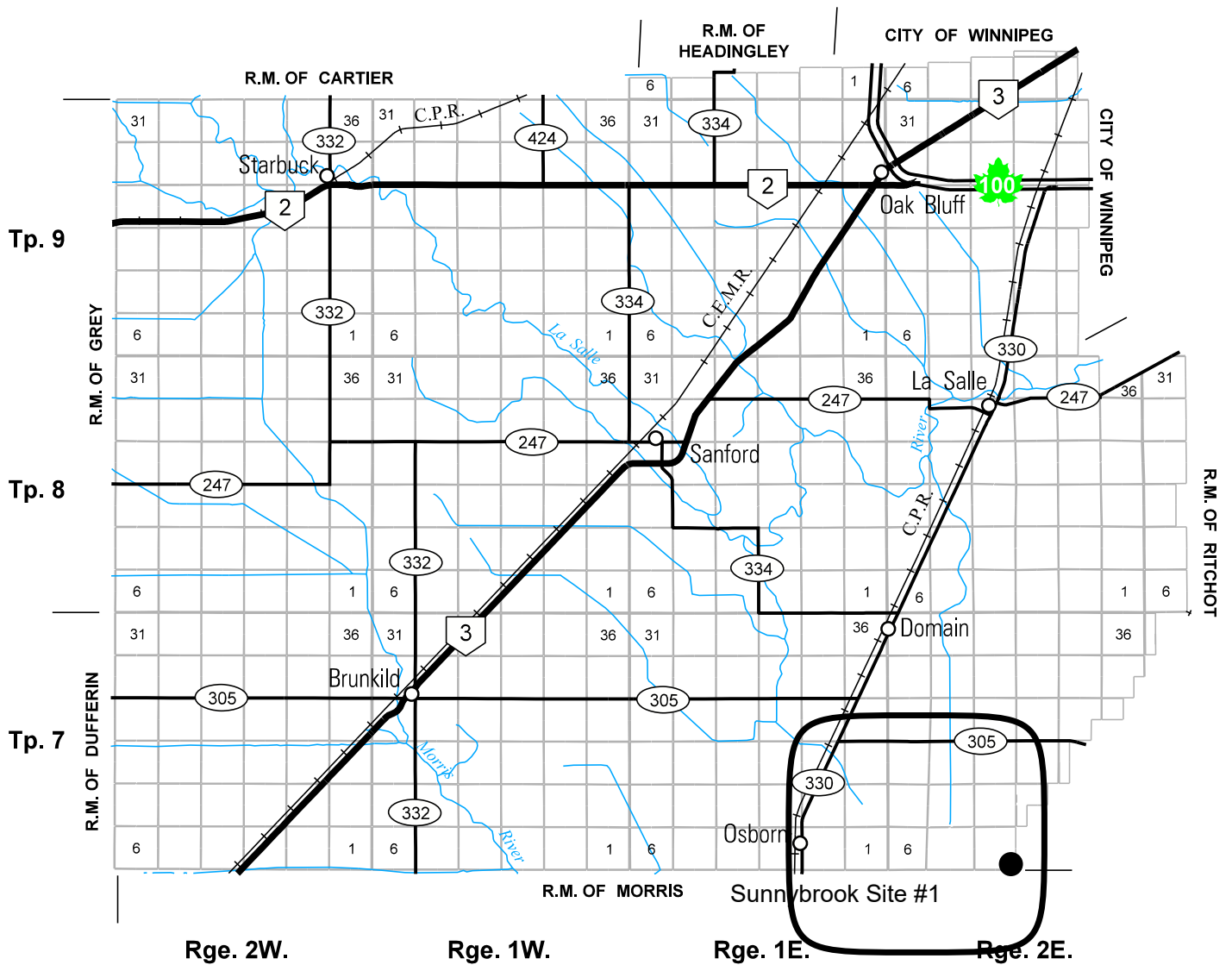


0 5
SCALE IN KILOMETRES

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

LEGEND

TRANS-CANADA HIGHWAY		ACCESS ROADS	
PROVINCIAL TRUNK HIGHWAYS		RAILWAYS	
PROVINCIAL ROADS			





Proposed New
Manure Storage
800' x 145' x 14'

Proposed
New Barn

130'

← 600' →

E1/2 of SE 04-07-02E

Site Plan – Sunnybrook Site #1

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		-		-
	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	2,850	713	5,000	1,250
	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:				713	Total Proposed:	1,250

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](#)



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				-		
	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	0.8	365.00	5,000	1,460,000.00	9,095,800.0	
	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 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				-	
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

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	145 ft	840 ft	14 ft	Approx. 4 ft	3:1	5:1	235
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 # _____



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

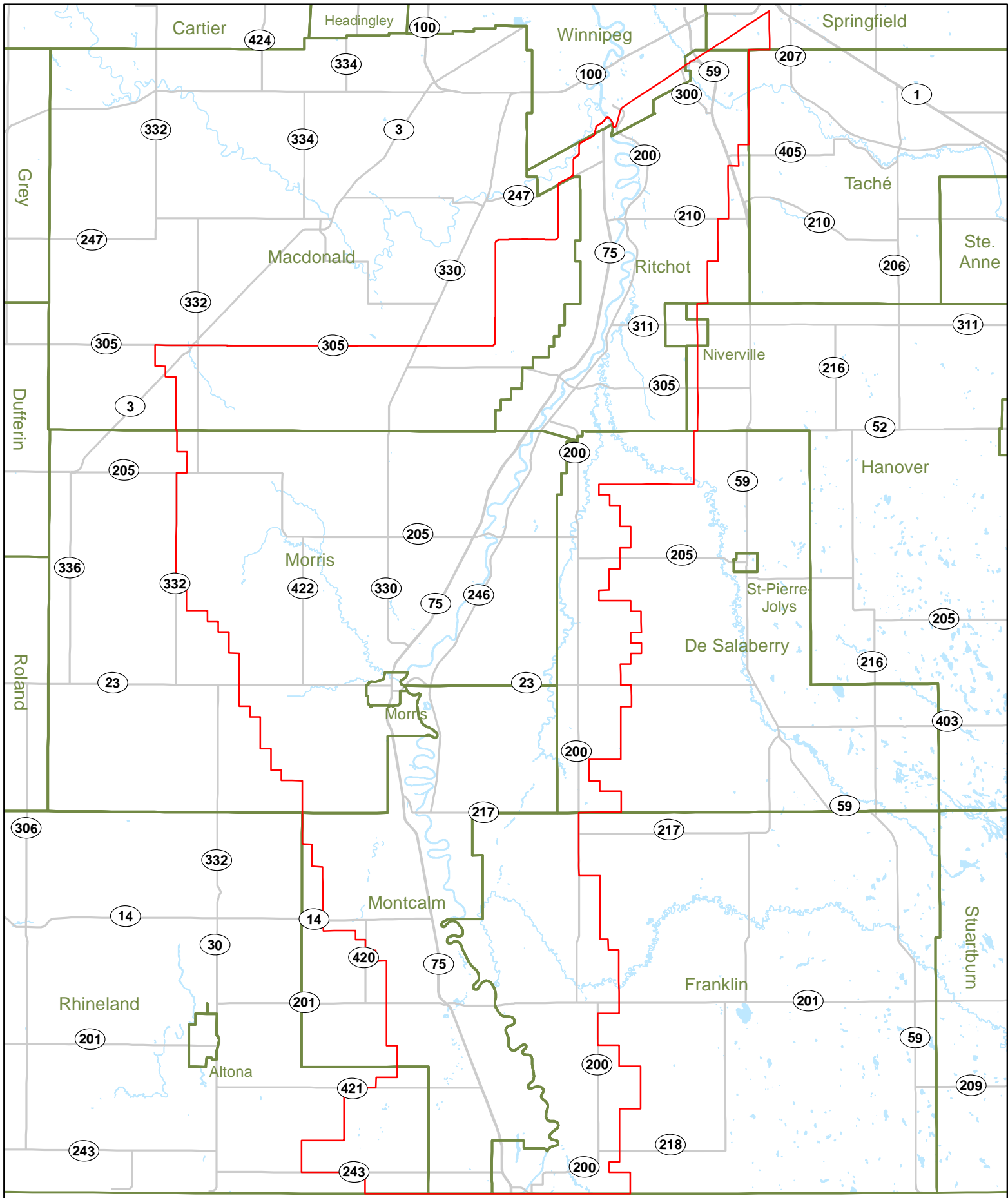
CELL	Proposed Manure Storage Facility Dimensions						Storage Capacity (days)
	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		
					Inside	Outside	
Primary	145 ft	800 ft	14 ft	4 ft	3.5:1	5:1	200
Secondary	ft	ft	ft	ft			
Tertiary	ft	ft	ft	ft			
Circular Tank		Diameter	Height	Depth			
		ft	ft	ft			

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)*.





Proposed Truck Route



Upper Red River Designated Flood Area

-  Municipal Boundaries
-  Provincial Roadways
-  Designated Flood Area



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		12	15	-
Dry milking cow **		10	12	-
Lactating cow **		25	30	-
Bison		8	10	-
Horses				
Horses		8	11	-
Hogs				
Sow (Farrow/wean)	5,000	6.5		32,500
Dry Sow/Boar		4		-
Feeder		3		-
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)				32,500
TOTAL with 10% wash water				35,750

* 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)

Enter this number on page 7 of Application Form.

Unit Conversions		
Total per day	Total per year	Unit
35,750	13,048,750	IG
147,745	53,926,925	litres
0.148	54	cubic decametres (dam ³)

Conversion Factor: 1 IGPM = 4.546 l/m

From: Friesen, Chris (SD) [mailto:Chris.Friesen@gov.mb.ca]
Sent: Monday, February 12, 2018 11:20 AM
To: 'Gary Plohman'
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.

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
<http://www.manitoba.ca/sd/cdc/>

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%	5000	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%	0	0.46%	0
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		n/a	n/a	n/a	365	1	n/a	n/a	187183	n/a	134382
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

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake
	P2O5	N	N	Units				P2O5 (lb)	N (lb)	N (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	41.1	bu/ac	620	26501	49180	81288
Corn Grain	0.44	0.97	1.53	lb/bu	128.5	bu/ac	620	35055	77280	121895
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		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	39.8	bu/ac	416	13908	64075	86095
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	57.5	bu/ac	413	14011	35621	50107
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
Sub Total							2069	89475	226156	339385
Estimated Average Removal/Uptake (lb/ac)								43.2	109.3	164.0
Additional Acres										
Crop Planned on Additional Acres										
Total Acreage							2069			
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	0	0
	Sows, farrow to 5 kg	187183	134382
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
Beef	Mature Cows (>2 years old)	0	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
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		187183	134382

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		187183
P2O5		134382
Crop Nutrient Use		lb/ac
Nitrogen Uptake		164.0
P2O5 Removal		43.2
Land Base Requirements		acres
Acres for Nitrogen Uptake		1141
Acres for 2 x P2O5 Removal		1554
Acres for 1 x P2O5 Removal		3107

CROP ROTATION TABLE

A	B	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Canola	620	41.1	Bu/acre	MASC: Risk Areas / Soil Zone
Grain Corn	620	128.5	Bu/acre	MASC: Risk Areas / Soil Zone
Soybeans	416	39.8	Bu/acre	MASC: Risk Areas / Soil Zone
Spring Wheat	413	57.5	Bu/acre	MASC: Risk Areas / Soil Zone
Total Net Acreage for Manure Application	2069			

- 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

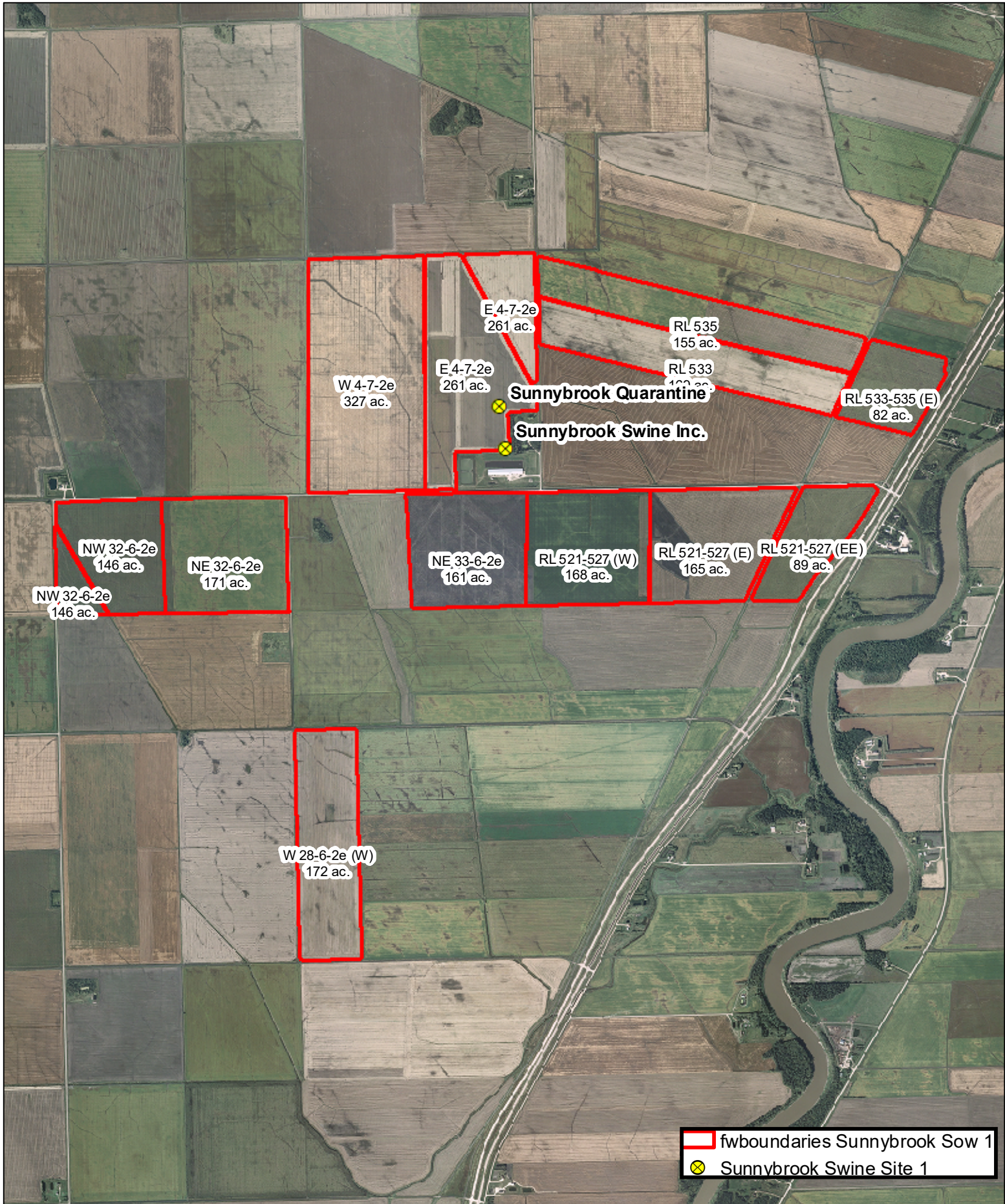




Field	A Legal Description	B Rural Municipality	C O/C/L/A	D Total Acreage	E Setbacks, including features	F Net Acreage for Manure Application	G Agriculture Capability Class and Subclass	H Soil Phosphorus (ppm Olsen P) 0-6 inches	I Development Plan Designation	J Zoning
1	E 4-7-2e	Macdonald	O/A	261		261	2w 3w, 3w, 3w 3nw	23	2 / 10: GZ - Green/Agricultural Policy Area	15 / 95: Agriculture General Zone (AG)
2	W 4-7-2e	Macdonald	A	327		327	3w 3nw, 2w 3w	9	2 / 10: GZ - Green/Agricultural Policy Area	15 / 95: Agriculture General Zone (AG)
3	RL 535	Richot	A	155		155	2w, 3w	36	2 / 10: GZ - Green/Agricultural Policy Area	18-2002: Agricultural Restricted (AR)
4	RL 533	Richot	A	169		169	2w, 3w	44	2 / 10: GZ - Green/Agricultural Policy Area	18-2002: Agricultural Restricted (AR)
5	RL 533-535 (E)	Richot	A	82		82	2w	15	2 / 10: GZ - Green/Agricultural Policy Area	18-2002: Agricultural Restricted (AR)
6	NE 32-6-2e	Morris	A	171		171	2w 3w, 3w 3nw	18	1712/2015: General Agriculture Area	1581/04: General Agricultural Zone (AG)
7	NW 32-6-2e	Morris	A	146		146	2w 3w, 3w 3nw	14	1712/2015: General Agriculture Area	1581/04: General Agricultural Zone (AG)
8	NE 33-6-2e	Morris	A	161		161	2w 3w, 3w 3nw	33	1712/2015: General Agriculture Area	1581/04: General Agricultural Zone (AG)
9	W 28-6-2e (W)	Morris	A	172		172	3w 3nw, 2w 3w	29	1712/2015: General Agriculture Area	1581/04: General Agricultural Zone (AG)
10	RL 521-527 (W)	Morris	A	168		168	2w 3w, 3w 3w	46	1712/2015: Restricted Agriculture Area	1581/04: Restricted Agricultural Zone (AR)
11	RL 521-527 (E)	Morris	A	165		165	2w 3w, 3w 3w	34	1712/2015: Restricted Agriculture Area	1581/04: Restricted Agricultural Zone (AR)
12	RL 521-527 (EE)	Morris	A	89		89	2w 3w, 3w 3w	31	1712/2015: Restricted Agriculture Area	1581/04: Restricted Agricultural Zone (AR)
13										
14										
15										
16										
17										
18										
19										
20										

Total Net Acreage for Manure Application: 2069

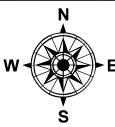
- A. _____ Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).
- B. _____ Identify the Rural Municipality in which the parcel is located.
- C. _____ Indicate how the land has been secured for manure application: O – Own / C-Crown / 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).

Sunnybrook Swine 1 - Spread Field Boundaries

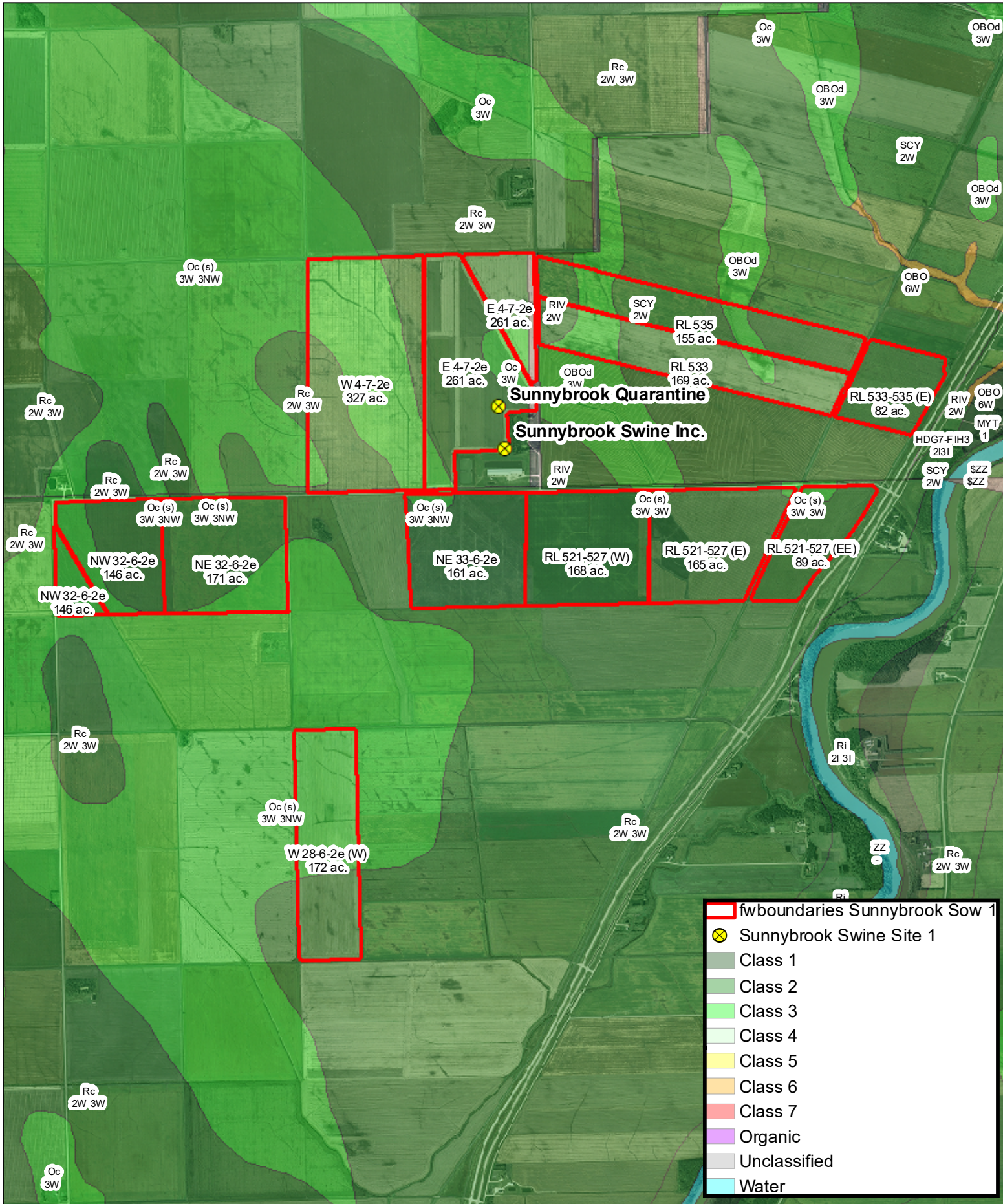


 fwboundaries Sunnybrook Sow 1
 Sunnybrook Swine Site 1

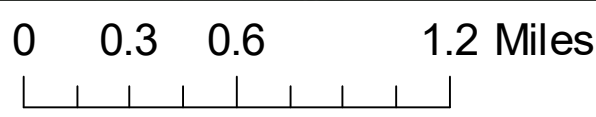
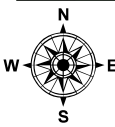
0 0.3 0.6 1.2 Miles



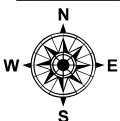
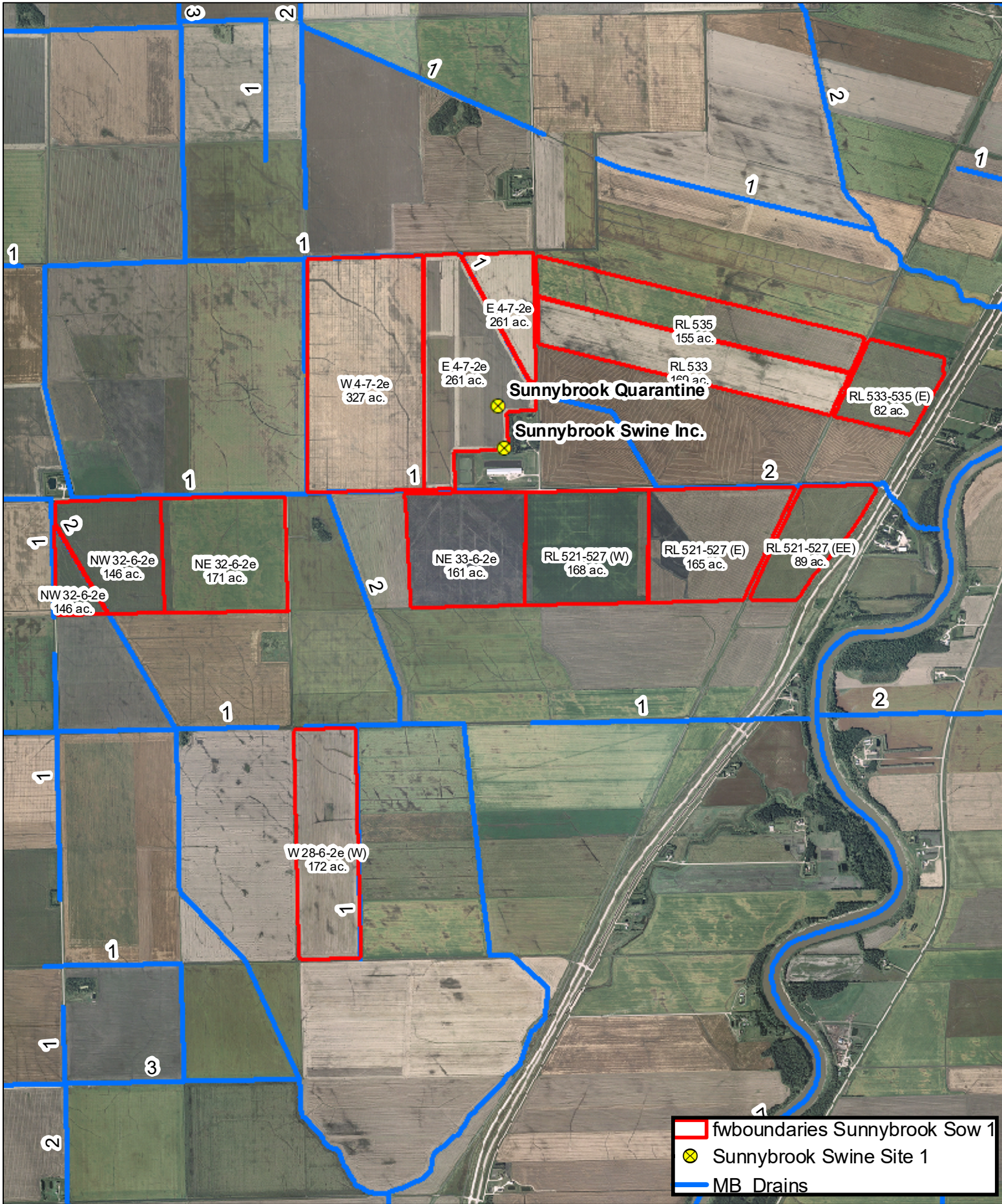
Sunnybrook Swine 1 - Soils



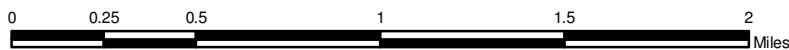
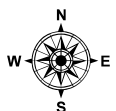
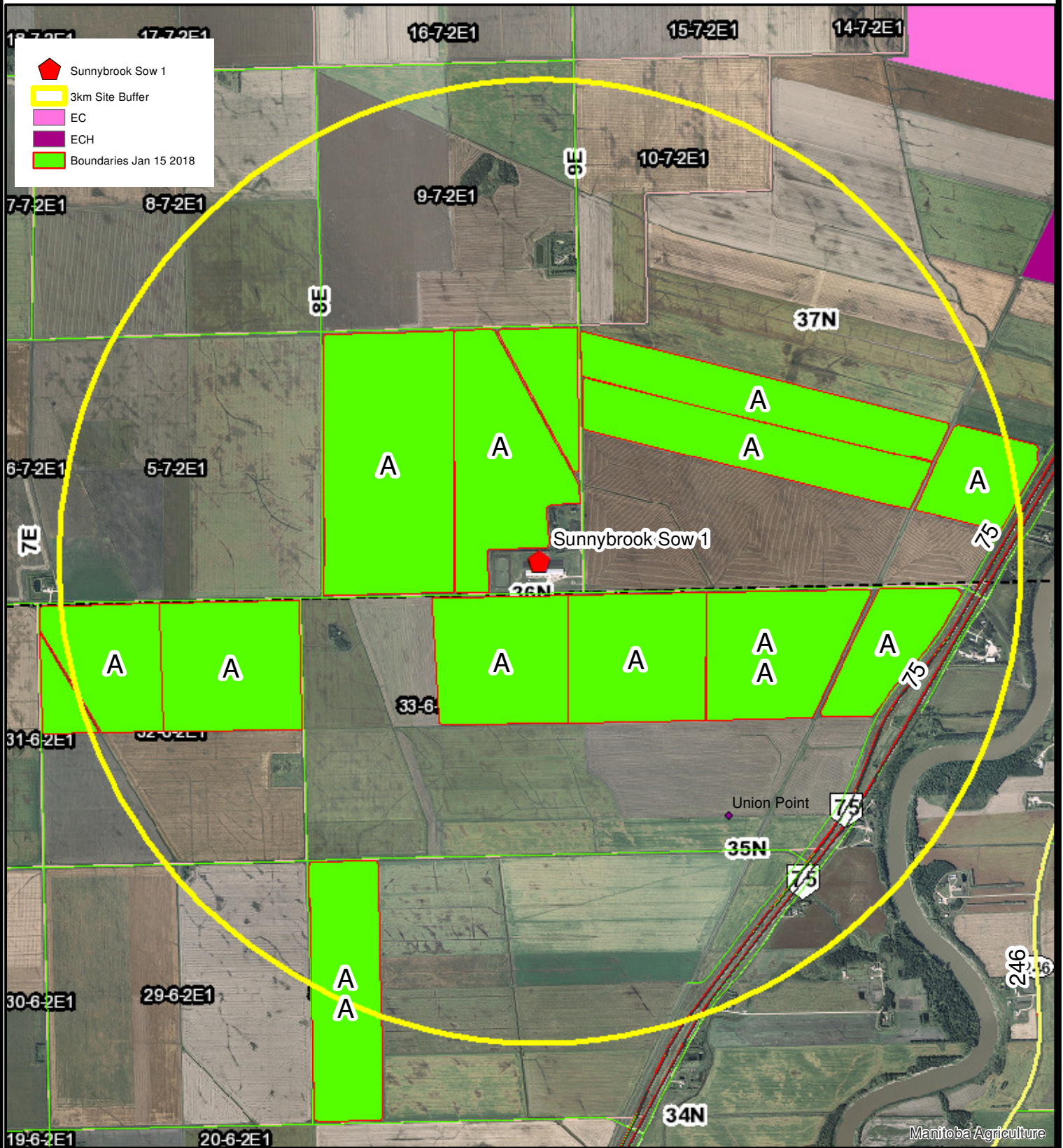
- fwb boundaries Sunnybrook Sow 1
- ⊗ Sunnybrook Swine Site 1
- Class 1
- Class 2
- Class 3
- Class 4
- Class 5
- Class 6
- Class 7
- Organic
- Unclassified
- Water



Sunnybrook Swine 1 - Drains



Sunnybrook Sow 1 - Land Use



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



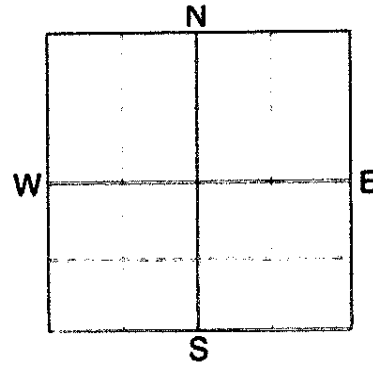
E



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SOIL TEST REPORT

FIELD ID **6-S1,2,3**
 SAMPLE ID
 FIELD NAME **Field # 1**
 COUNTY
 TWP **7-2&3E** RANGE
 SECTION **4** QTR NE SE ACRES **270**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
WILPARK FARMS

BOX 31
STE. AGATHE, MB ROG 1Y0

SUBMITTED BY: **PR2421**
PRAIRIE SKY AVIATION
2 MI SOUTH ON 59

BOX 309
NIVERVILLE, MB ROA 1E0

REF # **17341733** BOX # **0**
 LAB # **NW101291**

Date Sampled **10/04/2017**

Date Received **10/06/2017**

Date Reported **10/10/2017**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
				Canola-bu		Wheat-Spring		Wheat-Spring		
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			60 BU		80 BU		70 BU			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band		Band			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 13 lb/ac 6-24" 18 lb/ac 0-24" 31 lb/ac		N 164		N 170		N 143			
Phosphorus	Olsen 23 ppm		P ₂ O ₅ 10	Band (Starter)*	P ₂ O ₅ 15	Band (Starter)*	P ₂ O ₅ 15	Band (Starter)*		
Potassium	520 ppm		K ₂ O 0		K ₂ O 10	Band (Starter)*	K ₂ O 10	Band (Starter)*		
Chloride			Cl		Cl		Cl			
Sulfur	0-6" 34 lb/ac 6-24" 360 +lb/ac		S 10	Band	S 0		S 0			
Boron	1.5 ppm		B 0		B 0		B 0			
Zinc	2.24 ppm		Zn 0		Zn 0		Zn 0			
Iron	52.5 ppm		Fe 0		Fe 0		Fe 0			
Manganese	2.3 ppm		Mn 0		Mn 0		Mn 0			
Copper	2.55 ppm		Cu 0		Cu 0		Cu 0			
Magnesium	1659 ppm		Mg 0		Mg 0		Mg 0			
Calcium	5818 ppm		Lime		Lime		Lime			
Sodium	162 ppm									
Org. Matter	5.5 %									
Carbonate(CCE)										
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 7.3		45.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 7.8			64.7	30.8	3.0	1.6	
Sol. Salts	0-6" 1.09 mmho/cm 6-24" 2.05 mmho/cm									

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

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 guidelines will build P & K test levels to the medium range over many years.

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 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

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 guidelines will build P & K test levels to the medium range over many years.

SW + NW 1/4 4-7-20

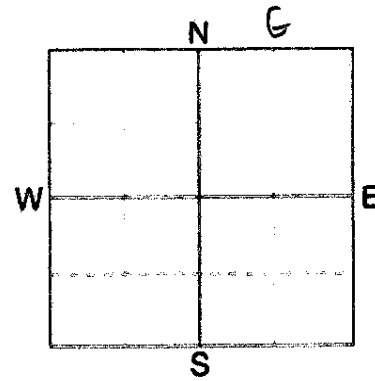


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SOIL TEST REPORT

FIELD ID **19-BW1**
 SAMPLE ID
 FIELD NAME **Field # 2**
 COUNTY
 TWP **7-2&3E** RANGE
 SECTION **4** QTR **NW SW** ACRES **325**

PREV. CROP **Canola-bu**



SUBMITTED FOR:
WILPARK FARMS
BOX 31
STE. AGATHE, MB **ROG 1Y0**

SUBMITTED BY: **PR2421**
PRAIRIE SKY AVIATION
2 MI SOUTH ON 59
BOX 309
NIVERVILLE, MB **ROA 1E0**

REF # **17341732** BOX # **0**
 LAB # **NW101287**

Date Sampled **10/04/2017**

Date Received **10/06/2017**

Date Reported **10/10/2017**

Nutrient In The Soil		Interpretation	1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
Depth	Concentration		Soybeans			Oats			Oats		
	0-6"		YIELD GOAL			YIELD GOAL			YIELD GOAL		
	6-24"	*****	50 BU			150 BU			140 BU		
	0-24"		SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Nitrate			Band			Band			Band		
	11 lb/ac		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
	21 lb/ac		N	***		N	118		N	108	
Olsen Phosphorus	9 ppm	*****	P ₂ O ₅	38	Band *	P ₂ O ₅	36	Band *	P ₂ O ₅	34	Band *
Potassium	585 ppm	*****	K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	10	Band (Starter)*
Chloride			Cl			Cl			Cl		
	0-6"		S	0		S	0		S	0	
	6-24"		B	0		B	0		B	0	
Sulfur			Zn	2	Band (Trial)	Zn	2	Band (Trial)	Zn	2	Band (Trial)
Boron	1.4 ppm	*****	Fe	0		Fe	0		Fe	0	
Zinc	0.85 ppm	*****	Mn	0		Mn	0		Mn	0	
Iron	45.7 ppm	*****	Cu	0		Cu	0		Cu	0	
Manganese	2.7 ppm	*****	Mg	0		Mg	0		Mg	0	
Copper	2.63 ppm	*****	Lime			Lime			Lime		
Magnesium	2044 ppm	*****	Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Calcium	6165 ppm	*****	Buffer pH			% Ca	% Mg	% K	% Na	% H	
Sodium	136 ppm	*****			49.9 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
Org. Matter	4.9 %	*****				61.7	34.1	3.0	1.2		
Carbonate(CCE)											
	0-6"										
	6-24"										
Soil Salts	1.21 mmho/cm	*****									
	1.32 mmho/cm	*****									

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

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 = 44 K2O = 75 AGVISE Band guidelines will build P & K test levels to the medium range over many years. 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 = 38 K2O = 29 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

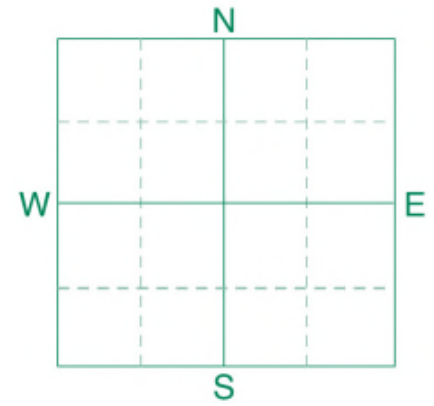
Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 35 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **1280** Field # 3
 SAMPLE ID
 FIELD NAME **Wilpark Farms**
 COUNTY
 TWP **RL 535** RANGE
 SECTION QTR ACRES **147**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103097** BOX # **0**
 LAB # **NW145366**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/24/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring								
Nitrate	0-6" 6-24"	*****	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL				
	97 lb/ac 36 lb/ac					80 BU								
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
	133 lb/ac					Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
	Olsen					N	68	N		N				
Phosphorus	36 ppm	*****	*****	*****	*****	P ₂ O ₅	15	Band (Starter)*		P ₂ O ₅				
Potassium	502 ppm	*****	*****	*****	*****	K ₂ O	10	Band (Starter)*		K ₂ O				
Chloride						Cl				Cl				
	0-6" 6-24"	*****	*****	*****	*****	S	0	S		S				
Sulfur	84 lb/ac 162 lb/ac									B		B		B
Boron						Zn	0	Zn		Zn				
Zinc	3,10 ppm	*****	*****	*****	*****	Fe		Fe		Fe				
Iron						Mn		Mn		Mn				
Manganese						Cu		Cu		Cu				
Copper						Mg	0	Mg		Mg				
Magnesium	1664 ppm	*****	*****	*****	*****	Lime		Lime		Lime				
Calcium	6727 ppm	*****	*****	*****	*****	Soil pH		Buffer pH		Cation Exchange Capacity				
Sodium	141 ppm	*****	*****	*****	*****	49.4 meq		% Base Saturation (Typical Range)		% Ca	% Mg	% K	% Na	% H
Org.Matter	6.4 %	*****	*****	*****	*****	0-6" 7.2		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)		
Carbonate(CCE)						6-24" 7.8		68.1	28.1	2.6	1.2			
Soil Salts	0-6" 6-24"	*****	*****	*****	*****									
	1.44 mmho/cm 1.28 mmho/cm													

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

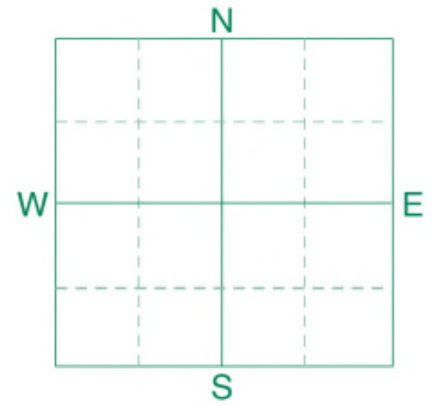
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **1275** Field # 4
 SAMPLE ID
 FIELD NAME **A Zitzler**
 COUNTY
 TWP **RL 533 S** RANGE
 SECTION QTR ACRES **168**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103101** BOX # **0**
 LAB # **NW145351**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/24/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring								
Nitrate	0-6" 103 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24" 42 lb/ac	*****	*****	*****	*****	80 BU								
	0-24" 145 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
	Olsen 44 ppm	*****	*****	*****	*****	N	56	N		N				
Phosphorus						P ₂ O ₅	15 Band (Starter)*	P ₂ O ₅		P ₂ O ₅				
Potassium	586 ppm	*****	*****	*****	*****	K ₂ O	10 Band (Starter)*	K ₂ O		K ₂ O				
Chloride						Cl		Cl		Cl				
	0-6" 52 lb/ac	*****	*****	*****	*****	S	0	S		S				
Sulfur	6-24" 156 lb/ac	*****	*****	*****	*****	B		B		B				
Boron						Zn	0	Zn		Zn				
Zinc	3.22 ppm	*****	*****	*****	*****	Fe		Fe		Fe				
Iron						Mn		Mn		Mn				
Manganese						Cu		Cu		Cu				
Copper						Mg	0	Mg		Mg				
Magnesium	1586 ppm	*****	*****	*****	*****	Lime	0	Lime		Lime				
Calcium	6059 ppm	*****	*****	*****	*****									
Sodium	132 ppm	*****	*****	*****	*****									
Org.Matter	6.5 %	*****	*****	*****	*****									
Carbonate(CCE)														
	0-6" 1.53 mmho/cm	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24" 1.36 mmho/cm	*****	*****	*****	*****	0-6" 6.9		45.6 meq	% Ca	% Mg	% K	% Na	% H	
Soil Salts						6-24" 7.7			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

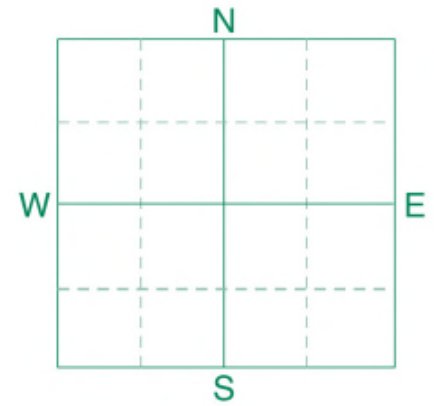
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **1281**
 SAMPLE ID Field # 5
 FIELD NAME **Willpark Farms**
 COUNTY
 TWP **RL 535** RANGE
 SECTION QTR ACRES **65**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103102** BOX # **0**
 LAB # **NW145052**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/21/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 48 lb/ac					Wheat-Spring								
	6-24" 36 lb/ac	*****	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24" 84 lb/ac					80 BU								
Phosphorus	Olsen 15 ppm	*****	*****	*****	*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
	Potassium 464 ppm	*****	*****	*****	*****	Band								
Sulfur	0-6" 58 lb/ac	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
	6-24" 144 lb/ac	*****	*****	*****	*****	N 117		N		N				
Zinc	1.12 ppm	*****	*****	*****	*****	P ₂ O ₅ 28	Band *	P ₂ O ₅		P ₂ O ₅				
						K ₂ O 10	Band (Starter)*	K ₂ O		K ₂ O				
Calcium	5355 ppm	*****	*****	*****	*****	Cl		Cl		Cl				
						S 0		S		S				
Magnesium	1361 ppm	*****	*****	*****	*****	B		B		B				
						Zn 0		Zn		Zn				
Iron						Fe		Fe		Fe				
						Mn		Mn		Mn				
Manganese						Cu		Cu		Cu				
						Mg 0		Mg		Mg				
Copper						Lime 0		Lime		Lime				
Org. Matter	6.9 %	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
						Carbonate(CCE)				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 0.94 mmho/cm	*****	*****	*****	*****	0-6" 6.8		39.6 meq	(65=75)	(15=20)	(1=7)	(0=5)	(0=5)	
	6-24" 0.81 mmho/cm	*****	*****	*****	*****	6-24" 7.7			67.7	28.7	3.0	0.7		

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

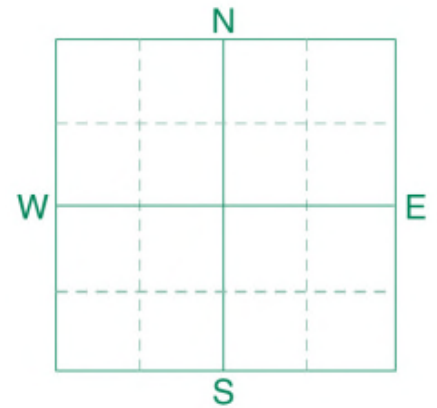
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop, Nitrogen credits may need to be adjusted based on local conditions, Many crops may respond to a starter application of P & K even on high soil tests, Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **1268** Field # 6
 SAMPLE ID
 FIELD NAME **Wilpark Farms**
 COUNTY
 TWP **NE 32-6-2e** RANGE
 SECTION QTR ACRES **156**
 PREV. CROP **Oats**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 ROAD 40 N
BLUMENORT, MB **ROA 0C1**

REF # **1949688** BOX # **0**
 LAB # **NW45492**

Date Sampled **08/18/2017**

Date Received **08/19/2017**

Date Reported **8/21/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu						YIELD GOAL			
Nitrate	0-6" 16 lb/ac					YIELD GOAL			YIELD GOAL			YIELD GOAL			
	6-24" 12 lb/ac	*****				40 BU									
	0-24" 28 lb/ac					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
						Band									
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
						N	112			N		N			
Phosphorus	Olsen 18 ppm	*****	*****	*****	*****	P ₂ O ₅	14	Band *		P ₂ O ₅		P ₂ O ₅			
Potassium	592 ppm	*****	*****	*****	*****	K ₂ O	0			K ₂ O		K ₂ O			
Chloride						Cl				Cl		Cl			
Sulfur	0-6" 16 lb/ac	*****	*****			S	15	Band		S		S			
	6-24" 186 lb/ac	*****	*****	*****	*****	B				B		B			
Boron						Zn	0			Zn		Zn			
Zinc	1,81 ppm	*****	*****	*****	*****	Fe				Fe		Fe			
Iron						Mn				Mn		Mn			
Manganese						Cu				Cu		Cu			
Copper						Mg	0			Mg		Mg			
Magnesium	1703 ppm	*****	*****	*****	*****	Lime				Lime		Lime			
Calcium	5622 ppm	*****	*****	*****	*****										
Sodium	104 ppm	*****	*****	*****	*****										
Org.Matter	5,9 %	*****	*****	*****	*****										
Carbonate(CCE)															
Sol. Salts	0-6" 0,95 mmho/cm	*****	*****	*****	*****	Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
	6-24" 1,29 mmho/cm	*****	*****	*****	*****	0-6" 7,1		6-24" 8,0		44,3 meq	% Ca	% Mg	% K	% Na	% I
											(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
											63,5	32,1	3,4	1,0	

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

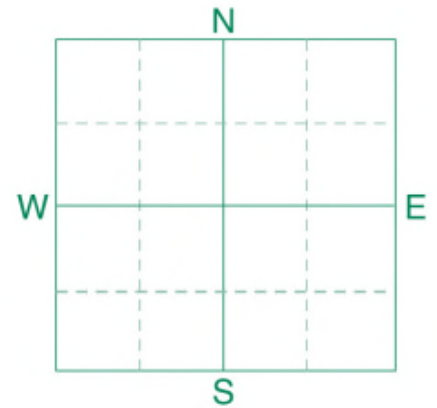
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests, Crop Removal: P205 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID **1267** Field # 8
 SAMPLE ID
 FIELD NAME **Wilpark Farms**
 COUNTY
 TWP **NE 33-6-2e** RANGE
 SECTION QTR ACRES **158**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 ROAD 40 N
BLUMENORT, MB **ROA 0C1**

REF # **1949686** BOX # **0**
 LAB # **NW45494**

Date Sampled **08/18/2017**

Date Received **08/19/2017**

Date Reported **8/21/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		VLow	Low	Med	High											
Nitrate	0-6" 10 lb/ac					Wheat-Spring										
	6-24" 12 lb/ac	****				YIELD GOAL		YIELD GOAL		YIELD GOAL						
						60 BU										
	0-24" 22 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
						Band										
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Phosphorus	Olsen 33 ppm	*****	*****	*****	*****	N	140	N		N						
Potassium	582 ppm	*****	*****	*****	*****	P ₂ O ₅	15	P ₂ O ₅	Band (Starter)*	P ₂ O ₅						
Chloride						K ₂ O	10	K ₂ O	Band (Starter)*	K ₂ O						
Sulfur	0-6" 40 lb/ac	*****	*****	*****	*****	Cl		Cl		Cl						
Boron	6-24" 360 + lb/ac	*****	*****	*****	*****	S	0	S		S						
Zinc	2,99 ppm	*****	*****	*****	*****	B		B		B						
Iron						Zn	0	Zn		Zn						
Manganese						Fe		Fe		Fe						
Copper						Mn		Mn		Mn						
Magnesium	1679 ppm	*****	*****	*****	*****	Cu		Cu		Cu						
Calcium	5348 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg						
Sodium	111 ppm	*****	*****	*****	*****	Lime		Lime		Lime						
Org.Matter	6,5 %	*****	*****	*****	*****	Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						0-6"	7,2			42,7 meq		% Ca	% Mg	% K	% Na	% I
Sol. Salts	0-6" 1,03 mmho/cm	*****	*****	*****	*****	6-24"	7,9					(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	6-24" 1,9 mmho/cm	*****	*****	*****	*****							62,6	32,8	3,5	1,1	

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

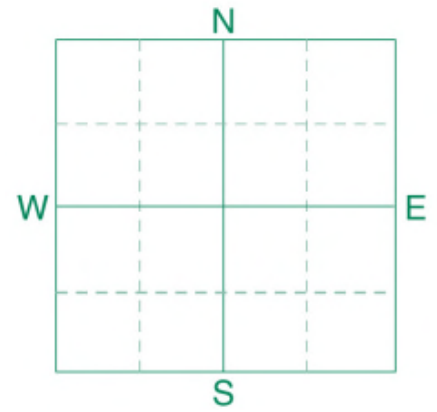
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories
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SOIL TEST REPORT

FIELD ID **8397** Field # 9
 SAMPLE ID
 FIELD NAME **Wilpark**
 COUNTY
 TWP **W 28-6-2e** RANGE
 SECTION QTR ACRES **170**
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2149010** BOX # **0**
 LAB # **NW185014**

Date Sampled **11/02/2017**

Date Received **11/04/2017**

Date Reported **11/5/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		VLow	Low	Med	High											
Nitrate	0-6" 83 lb/ac					Soybeans										
	6-24" 24 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL						
	0-24" 107 lb/ac	*****	*****	*****	*****	40 BU										
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
						Band										
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Phosphorus	Olsen 29 ppm	*****	*****	*****	*****	N	***	N		N						
Potassium	545 ppm	*****	*****	*****	*****	P ₂ O ₅	10 Band (Starter)*	P ₂ O ₅		P ₂ O ₅						
Chloride						K ₂ O	0	K ₂ O		K ₂ O						
Sulfur	0-6" 26 lb/ac	*****	*****	*****	*****	Cl		Cl		Cl						
	6-24" 138 lb/ac	*****	*****	*****	*****	S	5 Band (Trial)	S		S						
Boron						B		B		B						
Zinc	1,50 ppm	*****	*****	*****	*****	Zn	0	Zn		Zn						
Iron						Fe		Fe		Fe						
Manganese						Mn		Mn		Mn						
Copper						Cu		Cu		Cu						
Magnesium	1517 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg						
Calcium	4126 ppm	*****	*****	*****	*****	Lime	0	Lime		Lime						
Sodium	54 ppm	*****	*****	*****	*****	Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Org.Matter	7.0 %	*****	*****	*****	*****	0-6" 6.3				34.9 meq	% Ca	% Mg	% K	% Na	% I	
Carbonate(CCE)						6-24" 7.8					(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
Sol. Salts	0-6" 0.95 mmho/cm	*****	*****	*****	*****						59.1	36.2	4.0	0.7		
	6-24" 1.04 mmho/cm	*****	*****	*****	*****											

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

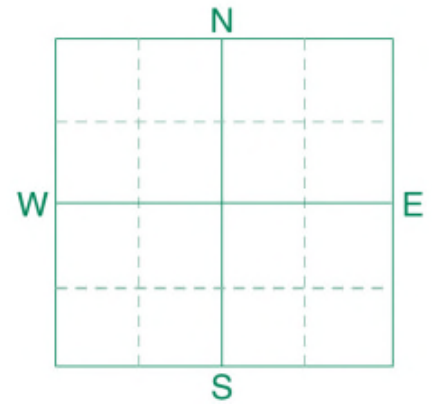
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 35 K2O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **1273** Field # 10
 SAMPLE ID
 FIELD NAME **Wilpark Farms**
 COUNTY
 TWP **RL 521-527** RANGE
W
 SECTION QTR ACRES **168**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103103** BOX # **0**
 LAB # **NW145287**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/24/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Wheat-Spring							
Nitrate	0-6" 6-24"	21 lb/ac 27 lb/ac	*****	*****		YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL		
	0-24"	48 lb/ac				80 BU							
						SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES		
						Band	Band	Band	Band	Band	Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
	Olsen	46 ppm	*****	*****	*****	N	153	N		N			
Phosphorus						P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅		P ₂ O ₅		
Potassium		628 ppm	*****	*****	*****	K ₂ O	10	Band (Starter)*	K ₂ O		K ₂ O		
Chloride						Cl			Cl		Cl		
	0-6" 6-24"	44 lb/ac 210 lb/ac	*****	*****	*****	S	0		S		S		
Sulfur						B			B		B		
Boron						Zn	0		Zn		Zn		
Zinc		4.45 ppm	*****	*****	*****	Fe			Fe		Fe		
Iron						Mn			Mn		Mn		
Manganese						Cu			Cu		Cu		
Copper						Mg	0		Mg		Mg		
Magnesium		1677 ppm	*****	*****	*****	Lime			Lime		Lime		
Calcium		5389 ppm	*****	*****	*****								
Sodium		137 ppm	*****	*****	*****								
Org.Matter		6.8 %	*****	*****	*****								
Carbonate(CCE)													
	0-6" 6-24"	0.93 mmho/cm 1.48 mmho/cm	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Soil Salts						0-6" 7.1 6-24" 8.0		43.1 meq	% Ca	% Mg	% K	% Na	% H
									(65-75) 62.5	(15-20) 32.4	(1-7) 3.7	(0-5) 1.4	(0-5)

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

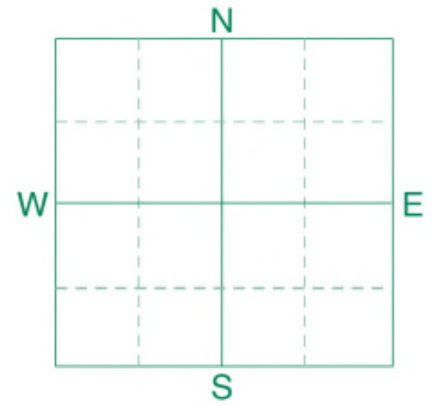
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **1272** Field # 11
 SAMPLE ID
 FIELD NAME **Wilpark Farms**
 COUNTY
 TWP **RL 521-527** RANGE
E
 SECTION QTR ACRES **164**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103104** BOX # **0**
 LAB # **NW145053**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/21/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring								
Nitrate	0-6" 41 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24" 36 lb/ac	*****	*****	*****	*****	80 BU								
	0-24" 77 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
	Olsen 34 ppm	*****	*****	*****	*****	N 124		N		N				
Phosphorus						P ₂ O ₅ 15	Band (Starter)*	P ₂ O ₅		P ₂ O ₅				
Potassium	471 ppm	*****	*****	*****	*****	K ₂ O 10	Band (Starter)*	K ₂ O		K ₂ O				
Chloride						Cl		Cl		Cl				
	0-6" 60 lb/ac	*****	*****	*****	*****	S 0		S		S				
	6-24" 360 +lb/ac	*****	*****	*****	*****	B		B		B				
Sulfur						Zn 0		Zn		Zn				
Boron						Fe		Fe		Fe				
Zinc	2,17 ppm	*****	*****	*****	*****	Mn		Mn		Mn				
Iron						Cu		Cu		Cu				
Manganese						Mg 0		Mg		Mg				
Copper						Lime		Lime		Lime				
Magnesium	1573 ppm	*****	*****	*****	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Calcium	4670 ppm	*****	*****	*****	*****	Buffer pH				% Ca	% Mg	% K	% Na	% H
Sodium	114 ppm	*****	*****	*****	*****			38.2 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Org.Matter	6.6 %	*****	*****	*****	*****					61.2	34.3	3.2	1.3	
Carbonate(CCE)														
	0-6" 0.91 mmho/cm	*****	*****	*****	*****									
Soil Salts	6-24" 1.78 mmho/cm	*****	*****	*****	*****									

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

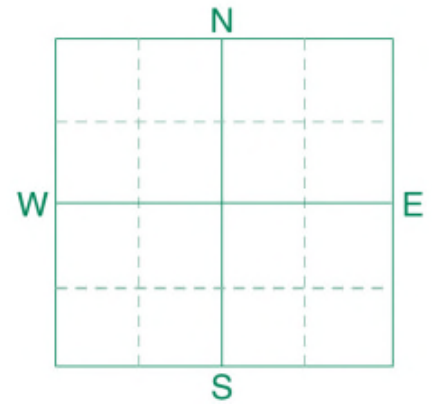
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 30 AGVISE 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 **8391**
 SAMPLE ID Field # 12
 FIELD NAME **Wilpark**
 COUNTY
 TWP **RL 521-527** RANGE
EE
 SECTION QTR ACRES **100**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Sunnybrook Swine 1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
6 MCADAM DR
LINDEN, MB **ROA 0X1**

REF # **2103105** BOX # **0**
 LAB # **NW145051**

Date Sampled **10/18/2017**

Date Received **10/19/2017**

Date Reported **10/21/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow	Low	Med	High	Wheat-Spring						
Nitrate	0-6" 54 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL		
	6-24" 27 lb/ac	*****	*****	*****	*****	80 BU						
	0-24" 81 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
						Band						
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
	Olsen 31 ppm	*****	*****	*****	*****	N 120		N		N		
Phosphorus						P ₂ O ₅ 15	Band (Starter)*	P ₂ O ₅		P ₂ O ₅		
Potassium	466 ppm	*****	*****	*****	*****	K ₂ O 10	Band (Starter)*	K ₂ O		K ₂ O		
Chloride						Cl		Cl		Cl		
	0-6" 52 lb/ac	*****	*****	*****	*****	S 0		S		S		
Sulfur	6-24" 84 lb/ac	*****	*****	*****	*****	B		B		B		
Boron						Zn 0		Zn		Zn		
Zinc	1,08 ppm	*****	*****	*****	*****	Fe		Fe		Fe		
Iron						Mn		Mn		Mn		
Manganese						Cu		Cu		Cu		
Copper						Mg 0		Mg		Mg		
Magnesium	1529 ppm	*****	*****	*****	*****	Lime		Lime		Lime		
Calcium	5323 ppm	*****	*****	*****	*****							
Sodium	77 ppm	*****	*****									
Org.Matter	6.4 %	*****	*****	*****	*****							
Carbonate(CCE)												
	0-6" 1.03 mmho/cm	*****	*****	*****	*****	Soil pH	Buffer pH	% Base Saturation (Typical Range)				
	6-24" 1.21 mmho/cm	*****	*****	*****	*****			% Ca	% Mg	% K	% Na	% H
Soil Salts						0-6" 7.0		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						6-24" 8.0		65.1	31.2	2.9	0.8	
							Cation Exchange Capacity					
							40.9 meq					

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)

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 = 50 K2O = 30 AGVISE Band guidelines will build P & K test levels to the medium range over many years.




MMPP - Variety Yield Data Browser

Select Municipalities or MASC Risk Areas

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

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. ✕

RISK AREA 12 

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

410 records returned

5,547 farm varieties grown on **1,007,488.3** acres

Average Yield

0.926 Tonnes (**40.8** 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.

Copy to Clipboard

Save as XLS

Showing 1 to 50 of 410 entries

				First	Previous	Next	Last
Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	69	11,319.0	1.245 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	36	5,129.0	1.230 Tonnes	
2013	RISK AREA 12	ARGENTINE CANOLA	1145 (INVIGOR HEALTH) (LT)	18	4,783.0	1.208 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	43	13,412.0	1.199 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	13	2,384.0	1.198 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L159 (INVIGOR) (LT)	26	4,142.0	1.178 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	37	8,683.0	1.173 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	45H29 (PIONEER) (RT)	4	739.0	1.164 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	15	3,070.0	1.162 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L261 (INVIGOR) (LT)	17	2,284.0	1.159 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L160S (INVIGOR) (LT)	6	1,040.0	1.118 Tonnes	
+ 2015	RISK AREA 12	ARGENTINE CANOLA	L160S (INVIGOR) (LT)	28	4,807.0	1.119 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	5440 (INVIGOR) [PHS04-690] (LT)	135	25,849.0	1.116 Tonnes	
+ 2014	RISK AREA 12	ARGENTINE CANOLA	5440 (INVIGOR) [PHS04-690] (LT)	116	20,440.0	1.110 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	1143 (INVIGOR HEALTH) (LT)	14	2,741.0	1.101 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	L130 (INVIGOR) (LT)	107	18,936.0	1.101 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	45P70 (PIONEER) [04N201] (ST)	3	560.0	1.099 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	5020 (INVIGOR) [RHY01/597] (LT)	110	16,068.0	1.092 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	46H75 (PIONEER) (ST)	13	2,305.0	1.089 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	NEX 830 CL (NQC02CNX21) (ST)	14	1,685.0	1.087 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	8440 (INVIGOR) [PHS04-781] (LT)	34	6,141.0	1.087 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	5440 (INVIGOR) [PHS04-690] (LT)	57	8,261.5	1.084 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	5070 (INVIGOR) [RHY01-1997] (LT)	37	7,980.0	1.082 Tonnes	
+ 2013	RISK AREA 12	ARGENTINE CANOLA	L120 (INVIGOR) (LT)	15	1,346.0	1.074 Tonnes	
2008	RISK AREA 12	ARGENTINE CANOLA	45H73 (PIONEER) [04N205] (ST)	7	695.0	1.073 Tonnes	
+ 2009	RISK AREA 12	ARGENTINE CANOLA	8440 (INVIGOR) [PHS04-781] (LT)	56	10,400.0	1.069 Tonnes	
+ 2008	RISK AREA 12	ARGENTINE CANOLA	5030 (INVIGOR) [RHY01-403] (LT)	50	8,000.0	1.063 Tonnes	

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2008	RISK AREA 12	ARGENTINE CANOLA	9590 (INVIGOR) (LT)	40	5,474.0	1.058 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	5440 (INVIGOR) [PHS04-690] (LT)	159	33,021.0	1.045 Tonnes
+ 2015	RISK AREA 12	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	6	899.0	1.043 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	5030 (INVIGOR) [RHY01-403] (LT)	49	9,043.0	1.041 Tonnes
+ 2013	RISK AREA 12	ARGENTINE CANOLA	L159 (INVIGOR) (LT)	55	9,753.0	1.037 Tonnes
+ 2008	RISK AREA 12	ARGENTINE CANOLA	NEX 845CL (NEXERA) [DN040845] (ST)	29	4,078.0	1.035 Tonnes
+ 2008	RISK AREA 12	ARGENTINE CANOLA	45H28 (PIONEER) (RT)	3	515.0	1.034 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	1144 (INVIGOR HEALTH) (LT)	38	11,341.0	1.032 Tonnes
+ 2014	RISK AREA 12	ARGENTINE CANOLA	46H75 (PIONEER) (ST)	16	2,692.0	1.031 Tonnes
+ 2008	RISK AREA 12	ARGENTINE CANOLA	45H26 (PIONEER) [03N230R] (RT)	37	4,659.0	1.027 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	NX4-202 CL (NEXERA) [DN051607] (ST)	8	909.0	1.027 Tonnes
+ 2016	RISK AREA 12	ARGENTINE CANOLA	L157H (INVIGOR HEALTH) (LT)	6	825.0	1.024 Tonnes
+ 2010	RISK AREA 12	ARGENTINE CANOLA	1145 (INVIGOR HEALTH) (LT)	30	11,133.0	1.023 Tonnes
+ 2013	RISK AREA 12	ARGENTINE CANOLA	45H29 (PIONEER) (RT)	6	1,028.0	1.020 Tonnes
+ 2014	RISK AREA 12	ARGENTINE CANOLA	L130 (INVIGOR) (LT)	82	14,158.0	1.022 Tonnes
+ 2008	RISK AREA 12	ARGENTINE CANOLA	V2010 (VICTORY) [03H252] (RT)	12	1,559.0	1.017 Tonnes
+ 2015	RISK AREA 12	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	58	12,352.0	1.014 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	45H73 (PIONEER) [04N205] (ST)	10	1,163.0	1.011 Tonnes
+ 2015	RISK AREA 12	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	149	32,676.0	1.010 Tonnes
+ 2009	RISK AREA 12	ARGENTINE CANOLA	NX4 105 RR (NEXERA) [NEX G2X0039] (RT)	6	594.0	1.005 Tonnes
+ 2014	RISK AREA 12	ARGENTINE CANOLA	1012 RR (NEXERA) (RT)	6	1,096.0	1.003 Tonnes
+ 2014	RISK AREA 12	ARGENTINE CANOLA	VR 9560 CL (PROVEN) (ST)	6	1,227.0	0.996 Tonnes
+ 2013	RISK AREA 12	ARGENTINE CANOLA	45H73 (PIONEER) [04N205] (ST)	9	965.0	0.992 Tonnes

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MMPP - Variety Yield Data Browser

Select Municipalities or MASC Risk Areas

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

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. ✕

RISK AREA 12 

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. ✕

GRAIN CORN 

Select Varieties

All Varieties 

Select Year Range



Search Summary

451 records returned

5,383 farm varieties grown on **767,987.6** acres

Average Yield

3.262 Tonnes (**128.4** 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)	Yield/acre (Imperial)
2016	RISK AREA 12	GRAIN CORN	DKC32-12RIB (DEKALB) (RIB)	5	1,004.0	4.566 Tonnes	179.8 Bushels
2016	RISK AREA 12	GRAIN CORN	DKC33-78 RIB (DEKALB) (RIB)	30	3,455.0	4.442 Tonnes	174.9 Bushels
2016	RISK AREA 12	GRAIN CORN	P7211HR (PIONEER)	10	1,141.0	4.401 Tonnes	173.3 Bushels
2016	RISK AREA 12	GRAIN CORN	A4939G2 RIB (PRIDE) (RIB)	4	803.0	4.399 Tonnes	173.2 Bushels
2016	RISK AREA 12	GRAIN CORN	DKC30-07RIB (DEKALB) (RIB)	13	2,174.0	4.255 Tonnes	167.5 Bushels
2016	RISK AREA 12	GRAIN CORN	39V09AM (PIONEER) (BT)(HX1)(LT)(RT)	45	6,838.0	4.255 Tonnes	167.5 Bushels
2016	RISK AREA 12	GRAIN CORN	P8387AM (PIONEER)(BT)(HX1)(LT)(RT)	8	784.0	4.177 Tonnes	164.4 Bushels
2016	RISK AREA 12	GRAIN CORN	DKC30-07 (DEKALB) (RT)	21	2,995.0	4.133 Tonnes	162.7 Bushels
2016	RISK AREA 12	GRAIN CORN	39V05 (PIONEER) (RT)	44	5,793.0	4.126 Tonnes	162.4 Bushels
2013	RISK AREA 12	GRAIN CORN	DKC30-07 (DEKALB) (RT)	26	4,433.0	4.092 Tonnes	161.1 Bushels
2016	RISK AREA 12	GRAIN CORN	DKC27-55RIB (DEKALB) (BT)(RIB)	18	1,846.0	4.087 Tonnes	160.9 Bushels
2013	RISK AREA 12	GRAIN CORN	DKC30-23 (DEKALB)	12	1,839.0	4.058 Tonnes	159.8 Bushels
2013	RISK AREA 12	GRAIN CORN	39V07 (PIONEER) (BT)(LT)(RT)	31	6,201.0	4.041 Tonnes	159.1 Bushels
2016	RISK AREA 12	GRAIN CORN	P7632AM (PIONEER) (BT)(LT)(RT)	76	14,094.8	4.011 Tonnes	157.9 Bushels
2016	RISK AREA 12	GRAIN CORN	TH 7677 VT2P RIB (THUNDER) (RIB)	8	877.0	3.997 Tonnes	157.4 Bushels
2016	RISK AREA 12	GRAIN CORN	39D97 (PIONEER) (BT)(LT)(RT)	6	907.0	3.978 Tonnes	156.6 Bushels
2016	RISK AREA 12	GRAIN CORN	P7958AM (PIONEER)	140	30,736.0	3.973 Tonnes	156.4 Bushels
2015	RISK AREA 12	GRAIN CORN	DKC30-07RIB (DEKALB) (RIB)	17	3,199.0	3.961 Tonnes	155.9 Bushels
2013	RISK AREA 12	GRAIN CORN	DKC27-25 (DEKALB) (LT)(RT)	6	580.0	3.950 Tonnes	155.5 Bushels
2015	RISK AREA 12	GRAIN CORN	DKC30-07 (DEKALB) (RT)	11	1,410.0	3.927 Tonnes	154.6 Bushels
2015	RISK AREA 12	GRAIN CORN	DKC27-25 (DEKALB) (LT)(RT)	9	1,207.0	3.926 Tonnes	154.5 Bushels
2015	RISK AREA 12	GRAIN CORN	39V07 (PIONEER) (BT)(LT)(RT)	48	7,499.0	3.900 Tonnes	153.5 Bushels
2013	RISK AREA 12	GRAIN CORN	39V05 (PIONEER) (RT)	110	19,455.0	3.882 Tonnes	152.8 Bushels
2013	RISK AREA 12	GRAIN CORN	LR 9074 RB (QUARRY) (BT)(RT)	7	643.0	3.868 Tonnes	152.3 Bushels
2013	RISK AREA 12	GRAIN CORN	39D97 (PIONEER) (BT)(LT)(RT)	98	20,001.0	3.863 Tonnes	152.1 Bushels
2013	RISK AREA 12	GRAIN CORN	A4176BTRR (PRIDE) (BT)(RT)	4	507.0	3.849 Tonnes	151.5 Bushels
2016	RISK AREA 12	GRAIN CORN	TH 7578 VT2P RIB (THUNDER) (RIB)	29	3,914.0	3.829 Tonnes	150.7 Bushels

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2015	RISK AREA 12	GRAIN CORN	P7632AM (PIONEER) (BT)(LT)(RT)	24	3,235.0	3.813 Tonnes	150.1 Bushels
2015	RISK AREA 12	GRAIN CORN	DKC26-28RIB (DEKALB) (BT)(RIB)(RT)	5	899.0	3.806 Tonnes	149.8 Bushels
2013	RISK AREA 12	GRAIN CORN	P7632HR (PIONEER) (BT)(RT)	11	1,407.0	3.775 Tonnes	148.6 Bushels
2015	RISK AREA 12	GRAIN CORN	P7958AM (PIONEER)	90	15,669.0	3.774 Tonnes	148.6 Bushels
2015	RISK AREA 12	GRAIN CORN	P7443R (PIONEER) (RT)	17	2,427.0	3.749 Tonnes	147.6 Bushels
2015	RISK AREA 12	GRAIN CORN	TH 7578 VT2P RIB (THUNDER) (RIB)	6	562.0	3.746 Tonnes	147.5 Bushels
2013	RISK AREA 12	GRAIN CORN	A4631G2 RIB (RT)(BT)	9	918.0	3.721 Tonnes	146.5 Bushels
2012	RISK AREA 12	GRAIN CORN	DKC26-25 (DEKALB) (RT)	4	689.0	3.713 Tonnes	146.2 Bushels
2015	RISK AREA 12	GRAIN CORN	P7632HR (PIONEER) (BT)(RT)	30	4,405.0	3.714 Tonnes	146.2 Bushels
2013	RISK AREA 12	GRAIN CORN	DKC26-28RIB (DEKALB) (BT)(RIB)(RT)	22	2,840.0	3.701 Tonnes	145.7 Bushels
2013	RISK AREA 12	GRAIN CORN	DKC27-54 (DEKALB)	9	1,114.0	3.701 Tonnes	145.7 Bushels
2012	RISK AREA 12	GRAIN CORN	39V07 (PIONEER) (BT)(LT)(RT)	4	651.0	3.689 Tonnes	145.2 Bushels
2013	RISK AREA 12	GRAIN CORN	P7443R (PIONEER) (RT)	77	9,699.0	3.679 Tonnes	144.8 Bushels
2007	RISK AREA 12	GRAIN CORN	PIONEER 39H83 (RT)	9	1,611.0	3.674 Tonnes	144.6 Bushels
2012	RISK AREA 12	GRAIN CORN	DKC30-20 (DEKALB) (BT)(RT)	12	1,899.0	3.670 Tonnes	144.5 Bushels
2012	RISK AREA 12	GRAIN CORN	39V05 (PIONEER) (RT)	58	8,274.0	3.668 Tonnes	144.4 Bushels
2015	RISK AREA 12	GRAIN CORN	P7632HR (PIONEER) (HX1)(LT)(RT)	6	563.0	3.653 Tonnes	143.8 Bushels
2012	RISK AREA 12	GRAIN CORN	DKC30-23 (DEKALB)	10	1,786.0	3.644 Tonnes	143.5 Bushels
2015	RISK AREA 12	GRAIN CORN	39V05 (PIONEER) (RT)	95	14,948.0	3.638 Tonnes	143.2 Bushels
2007	RISK AREA 12	GRAIN CORN	39B96 (PIONEER) (BT)(LT)	36	3,478.0	3.616 Tonnes	142.4 Bushels
2016	RISK AREA 12	GRAIN CORN	P7332R (PIONEER) (RT)	9	890.0	3.609 Tonnes	142.1 Bushels
2013	RISK AREA 12	GRAIN CORN	PIONEER 39Z69 (BT) (RT)	24	3,169.0	3.586 Tonnes	141.2 Bushels
2016	RISK AREA 12	GRAIN CORN	P7632HR (PIONEER) (BT)(RT)	8	963.0	3.583 Tonnes	141.1 Bushels

Show 50 entries

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MMPP - Variety Yield Data Browser

Select Municipalities or MASC Risk Areas

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Risk Areas

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RISK AREA 12 

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. ✕

SOYBEANS 

Select Varieties

All Varieties 

Select Year Range



2007 to 2016

Search Summary

543 records returned

4,740 farm varieties grown on **736,240.6** acres

Average Yield

1.066 Tonnes (**39.2** 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)	Yield/acre (Imperial)
2016	RISK AREA 12	SOYBEANS	DKB005-52 (DEKALB) (RT)	3	776.0	1.546 Tonnes	56.8 Bushels
2016	RISK AREA 12	SOYBEANS	LS 005R22 (LEGEND)(RT)	4	523.0	1.517 Tonnes	55.7 Bushels
2016	RISK AREA 12	SOYBEANS	24-12RY (DEKALB) (RT)	13	2,168.0	1.474 Tonnes	54.2 Bushels
2016	RISK AREA 12	SOYBEANS	NSC TILSTON RR2Y (NORTHSTAR) (RT)	5	923.0	1.422 Tonnes	52.3 Bushels
2016	RISK AREA 12	SOYBEANS	LS 008R560 (LEGEND) (RT)	5	1,098.0	1.415 Tonnes	52.0 Bushels
2016	RISK AREA 12	SOYBEANS	S006-W5 (SYNGENTA) (RT)	4	790.0	1.394 Tonnes	51.2 Bushels
2007	RISK AREA 12	SOYBEANS	LS 0065RR (LEGEND) [X0065RR] (RT)	4	583.0	1.366 Tonnes	50.2 Bushels
2016	RISK AREA 12	SOYBEANS	P002T04R (PIONEER) (RT)	3	518.0	1.366 Tonnes	50.2 Bushels
2016	RISK AREA 12	SOYBEANS	P006T78R2 (PIONEER) (RT)	11	1,829.0	1.346 Tonnes	49.5 Bushels
2016	RISK AREA 12	SOYBEANS	GRAY R2 (SECAN) [SC2450R2] (RT)	7	1,572.0	1.345 Tonnes	49.4 Bushels
2016	RISK AREA 12	SOYBEANS	TH 34006R2Y (THUNDER) (RT)	8	1,588.0	1.345 Tonnes	49.4 Bushels
2016	RISK AREA 12	SOYBEANS	S00-T9 (SYNGENTA) (RT)	5	975.0	1.327 Tonnes	48.7 Bushels
2016	RISK AREA 12	SOYBEANS	25-10RY (DEKALB) (RT)	35	6,472.0	1.311 Tonnes	48.2 Bushels
2013	RISK AREA 12	SOYBEANS	TH 33005R2Y (THUNDER) (RT)	3	501.0	1.308 Tonnes	48.1 Bushels
2007	RISK AREA 12	SOYBEANS	NSC PORTAGE RR (NORTHSTAR) (RT)	5	690.0	1.300 Tonnes	47.8 Bushels
2016	RISK AREA 12	SOYBEANS	DKB008-81 (DEKALB) (RT)	6	1,037.0	1.297 Tonnes	47.6 Bushels
2016	RISK AREA 12	SOYBEANS	LS 003R24N (LEGEND) (RT)	13	1,753.0	1.287 Tonnes	47.3 Bushels
2016	RISK AREA 12	SOYBEANS	24-10RY (DEKALB) (RT)	33	4,639.0	1.285 Tonnes	47.2 Bushels
2016	RISK AREA 12	SOYBEANS	P008T70R (PIONEER) (RT)	51	7,495.0	1.275 Tonnes	46.9 Bushels
2016	RISK AREA 12	SOYBEANS	LS ECLIPSE (LEGEND) [MKZ314A2-COYNN] (RT)	21	2,432.0	1.275 Tonnes	46.8 Bushels
2016	RISK AREA 12	SOYBEANS	NSC SANFORD R2Y (NORTHSTAR) [D09G12A1] (RT)	4	503.0	1.262 Tonnes	46.4 Bushels
2016	RISK AREA 12	SOYBEANS	P008T22R2 (PIONEER) (RT)	32	6,597.0	1.252 Tonnes	46.0 Bushels
2016	RISK AREA 12	SOYBEANS	PS 0074 R2 (PRIDE) (RT)	31	3,304.0	1.250 Tonnes	45.9 Bushels
2016	RISK AREA 12	SOYBEANS	PRO 2525R2 (SEVITA) (RT)	23	2,421.0	1.242 Tonnes	45.7 Bushels
2016	RISK AREA 12	SOYBEANS	TH 33005R2Y (THUNDER) (RT)	21	3,388.0	1.245 Tonnes	45.7 Bushels
2013	RISK AREA 12	SOYBEANS	LS 007R22 (LEGEND)(RT)	4	589.0	1.240 Tonnes	45.6 Bushels
2016	RISK AREA 12	SOYBEANS	ASTRO R2 (PROGRAIN) (RT)	15	2,284.0	1.242 Tonnes	45.6 Bushels

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2016	RISK AREA 12	SOYBEANS	AKRAS R2 (BRETT YOUNG) (RT)	23	3,803.0	1.239 Tonnes	45.5 Bushels
2016	RISK AREA 12	SOYBEANS	23-60RY (DEKALB) (RT)	26	3,407.0	1.235 Tonnes	45.4 Bushels
2013	RISK AREA 12	SOYBEANS	ASTRO R2 (PROGRAIN) (RT)	5	964.0	1.232 Tonnes	45.3 Bushels
2013	RISK AREA 12	SOYBEANS	90Y01 (PIONEER)	3	621.0	1.231 Tonnes	45.2 Bushels
2007	RISK AREA 12	SOYBEANS	24-51R (DEKALB) (RT)	10	1,675.0	1.227 Tonnes	45.1 Bushels
2013	RISK AREA 12	SOYBEANS	LS 006R22 (LEGEND) (RT)	5	1,052.0	1.217 Tonnes	44.7 Bushels
2014	RISK AREA 12	SOYBEANS	P008170R (PIONEER) (RT)	11	1,860.0	1.216 Tonnes	44.7 Bushels
2015	RISK AREA 12	SOYBEANS	GRAY R2 (SECAN) [SC2450R2] (RT)	5	1,194.0	1.214 Tonnes	44.6 Bushels
2007	RISK AREA 12	SOYBEANS	90M01 (PIONEER) [PH0502] (RT)	67	10,965.0	1.212 Tonnes	44.5 Bushels
2015	RISK AREA 12	SOYBEANS	P002T04R (PIONEER) (RT)	6	1,135.0	1.209 Tonnes	44.4 Bushels
2013	RISK AREA 12	SOYBEANS	HS 006RYS24 (HYLAND) (RT)	8	985.0	1.206 Tonnes	44.3 Bushels
2013	RISK AREA 12	SOYBEANS	LS 005R21 (LEGEND)(RT)	4	740.0	1.205 Tonnes	44.3 Bushels
2013	RISK AREA 12	SOYBEANS	NSC RICHER RR2Y (NORTHSTAR) (RT)	20	2,829.0	1.203 Tonnes	44.2 Bushels
2013	RISK AREA 12	SOYBEANS	900Y81 (PIONEER) (RT)	7	687.0	1.202 Tonnes	44.2 Bushels
2015	RISK AREA 12	SOYBEANS	AKRAS R2 (BRETT YOUNG) (RT)	6	877.0	1.203 Tonnes	44.2 Bushels
2009	RISK AREA 12	SOYBEANS	OAC ERIN (SEVITA)	4	968.0	1.200 Tonnes	44.1 Bushels
2012	RISK AREA 12	SOYBEANS	LS 008R21 (LEGEND)	5	735.0	1.192 Tonnes	43.8 Bushels
2013	RISK AREA 12	SOYBEANS	SAMPSA R2 (BRETT YOUNG) (RT)	22	3,318.0	1.193 Tonnes	43.8 Bushels
2012	RISK AREA 12	SOYBEANS	PS 0027RR (RT)	11	1,788.0	1.188 Tonnes	43.7 Bushels
2014	RISK AREA 12	SOYBEANS	24-61RY (DEKALB) (RT)	20	3,367.0	1.191 Tonnes	43.7 Bushels
2015	RISK AREA 12	SOYBEANS	TH 33003R2Y (THUNDER) (RT)	3	907.0	1.188 Tonnes	43.7 Bushels
2016	RISK AREA 12	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	34	4,932.0	1.190 Tonnes	43.7 Bushels
2013	RISK AREA 12	SOYBEANS	LS 005R22 (LEGEND)(RT)	14	2,352.0	1.187 Tonnes	43.6 Bushels

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MMPP - Variety Yield Data Browser

Select Municipalities or MASC Risk Areas

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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. ✕


RISK AREA 12 

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

149 records returned

4,101 farm varieties grown on **780,412.1** acres

Average Yield

1.555 Tonnes (**57.2** 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)	Yield/acre (Imperial)
2014	RISK AREA 12	RED SPRING WHEAT	AAC BRANDON (BW 932)	7	970.0	2.214 Tonnes	81.4 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	CARDALE (BW429)	5	964.0	2.204 Tonnes	81.0 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	8	1,917.0	2.079 Tonnes	76.4 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	5	621.0	2.078 Tonnes	76.3 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	23	3,195.0	2.053 Tonnes	75.4 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	HARVEST (BW259)	6	1,137.0	2.036 Tonnes	74.8 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	28	5,663.0	2.027 Tonnes	74.5 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	CARDALE (BW429)	77	15,070.0	2.009 Tonnes	73.8 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	CDC ABOUND (BW824)	5	764.0	1.978 Tonnes	72.7 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	CDC STANLEY (BW880)	28	3,965.0	1.911 Tonnes	70.2 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	KANE (BW342)	11	1,085.0	1.828 Tonnes	67.2 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	CDC VR MORRIS (BW423)	5	939.0	1.820 Tonnes	66.9 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	GLENN	65	14,238.0	1.804 Tonnes	66.3 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	GLENN	35	7,379.0	1.804 Tonnes	66.3 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	12	2,915.0	1.788 Tonnes	65.7 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	CARBERRY (BW874)	190	39,633.0	1.763 Tonnes	64.8 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	GLENN	48	6,286.0	1.762 Tonnes	64.7 Bushels
2010	RISK AREA 12	RED SPRING WHEAT	CDC GO (BW781)	25	3,716.0	1.750 Tonnes	64.3 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	CDC STANLEY (BW880)	33	4,645.0	1.746 Tonnes	64.1 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	SUPERB (BW252)	28	6,544.0	1.736 Tonnes	63.8 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	CARBERRY (BW874)	115	21,932.0	1.733 Tonnes	63.7 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	KANE (BW342)	147	27,154.0	1.717 Tonnes	63.1 Bushels
2015	RISK AREA 12	RED SPRING WHEAT	AAC BRANDON (BW 932)	94	15,447.0	1.718 Tonnes	63.1 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	AC BARRIE (BW 661)	151	29,923.0	1.710 Tonnes	62.8 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	GLENN	78	16,761.7	1.707 Tonnes	62.7 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	AC DOMAIN (BW 148)	128	26,735.0	1.704 Tonnes	62.6 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	WR 859 CL (BW859)	7	1,186.0	1.699 Tonnes	62.4 Bushels

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2015	RISK AREA 12	RED SPRING WHEAT	GLENN	23	5,514.0	1.695 Tonnes	62.3 Bushels
2008	RISK AREA 12	RED SPRING WHEAT	SOMERSET (BW307)	13	2,905.0	1.692 Tonnes	62.2 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	CARBERRY (BW874)	139	28,931.0	1.694 Tonnes	62.2 Bushels
2015	RISK AREA 12	RED SPRING WHEAT	AAC ELIE(BW931)	12	1,293.0	1.692 Tonnes	62.2 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	WR 859 CL (BW859)	11	1,932.0	1.691 Tonnes	62.1 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	SUPERB (BW252)	16	1,628.0	1.676 Tonnes	61.6 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	AC BARRIE (BW 661)	10	1,553.0	1.675 Tonnes	61.6 Bushels
2015	RISK AREA 12	RED SPRING WHEAT	CARDALE (BW429)	169	38,618.0	1.662 Tonnes	61.1 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	KANE (BW342)	6	1,111.0	1.641 Tonnes	60.3 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	HARVEST (BW259)	14	2,137.0	1.632 Tonnes	60.0 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	5604HR CL (BW 878)	4	870.0	1.633 Tonnes	60.0 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	HARVEST (BW259)	9	1,868.0	1.630 Tonnes	59.9 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	KANE (BW342)	31	3,695.0	1.625 Tonnes	59.7 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	AC DOMAIN (BW 148)	104	21,311.5	1.615 Tonnes	59.3 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	AC DOMAIN (BW 148)	49	8,502.1	1.615 Tonnes	59.3 Bushels
2016	RISK AREA 12	RED SPRING WHEAT	GLENN	15	3,634.0	1.606 Tonnes	59.0 Bushels
2012	RISK AREA 12	RED SPRING WHEAT	KANE (BW342)	69	11,566.0	1.584 Tonnes	58.2 Bushels
2014	RISK AREA 12	RED SPRING WHEAT	AC DOMAIN (BW 148)	4	520.0	1.580 Tonnes	58.1 Bushels
2010	RISK AREA 12	RED SPRING WHEAT	WR 859 CL (BW859)	6	830.1	1.572 Tonnes	57.8 Bushels
2013	RISK AREA 12	RED SPRING WHEAT	AC DOMAIN (BW 148)	24	4,006.0	1.568 Tonnes	57.6 Bushels
2016	RISK AREA 12	RED SPRING WHEAT	AAC BRANDON (BW 932)	177	32,629.0	1.567 Tonnes	57.6 Bushels
2009	RISK AREA 12	RED SPRING WHEAT	AC BARRIE (BW 661)	93	15,571.0	1.557 Tonnes	57.2 Bushels
2010	RISK AREA 12	RED SPRING WHEAT	HARVEST (BW259)	15	3,358.0	1.557 Tonnes	57.2 Bushels

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