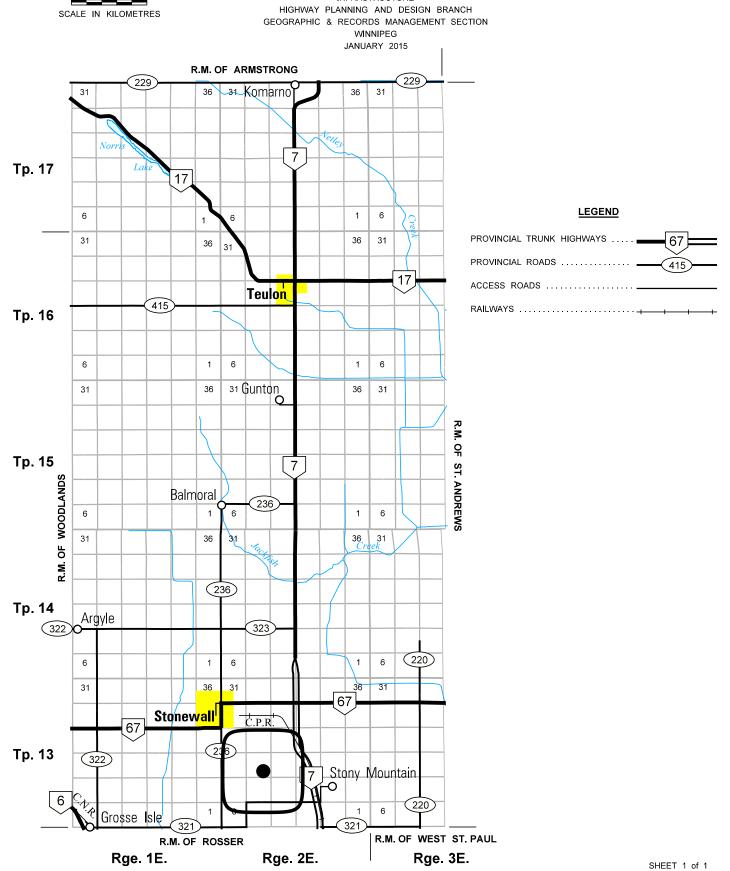


R.M. OF ROCKWOOD

PROVINCE OF MANITOBA INFRASTRUCTURE



Animal Units Calculator

			Current	Operation	Proposed	Operation
Α	В	С	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
	Mature cows (lactating and dry) including associated livestock	2	140	280	360	720
	Mature cows (lactating and dry)	1.35		-		-
	Heifers (0 to 3 months)	0.16		-		-
Dairy ³	Heifers (4 to 13 months)	0.41		-		-
-	Heifers (> 13 months)	0.87		-		-
	Bulls	1.35		-		-
	Veal calves	0.13		-		-
	Beef cows including associated livestock	1.25		-		-
Beef	Backgrounder	0.5		-		-
Beer	Summer pasture / replacement heifers	0.625		-		-
	Feeder cattle	0.769		-		-
	Sows - farrow to finish (234-254 lbs)	1.25		-		-
	Sows - farrow to weanling (up to 11 lbs)	0.25		-		-
- .	Sows - farrow to nursery (51 lbs)	0.313		-		-
Pigs	Boars (artificial insemination units)	0.2		-		-
	Weanlings, Nursery (11-51 lbs)	0.033		-		-
	Growers / Finishers (51-249 lbs)	0.143		-		-
	Broilers	0.005		-		-
	Roasters	0.01		-		-
	Layers	0.0083		-		-
Chickens	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		-		-
Horses	Mares	1.333		-		-
Oh	Ewes	0.2		-		-
Sheep	Feeder lambs	0.063		-		-
0:1 1:	Type:			-		-
Other Livestock	Type:			-		-
			Total Current:	280	Total Proposed:	720

Footnotes:

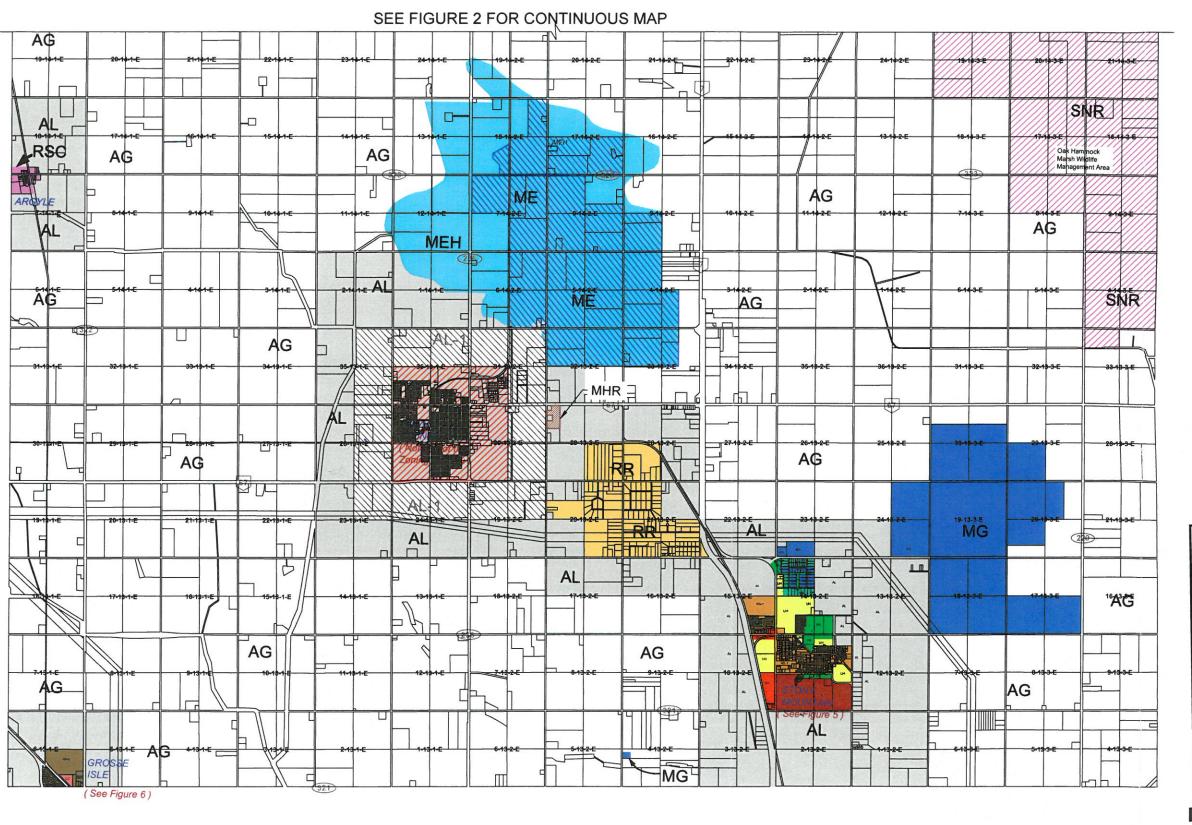
For all other livestock or operation types please inquire with the Manitoba Agriculture Contacts



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

 $^{^{\}rm 2}$ 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.



RM OF ROCKWOOD ZONING BY-LAW NO. 17/09 ZONING MAP FIGURE 1

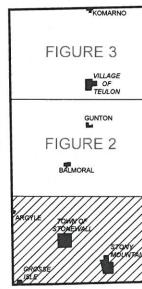
AGRICULTURAL GENERAL



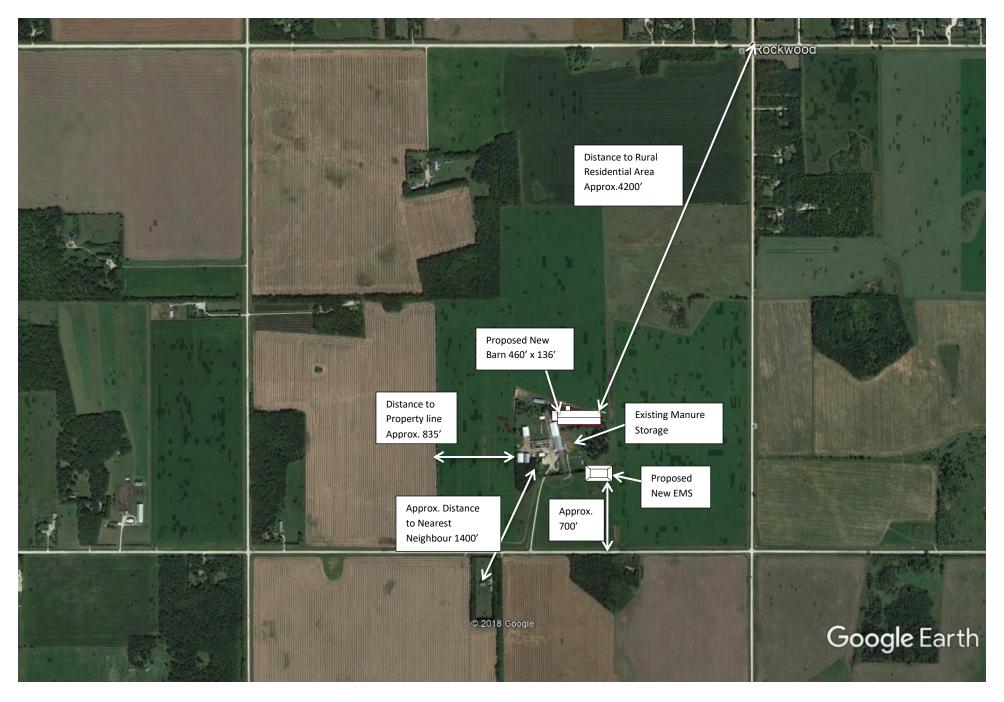
RESIDENTIAL COMPREHENSIVE

Approved July 28, 2010

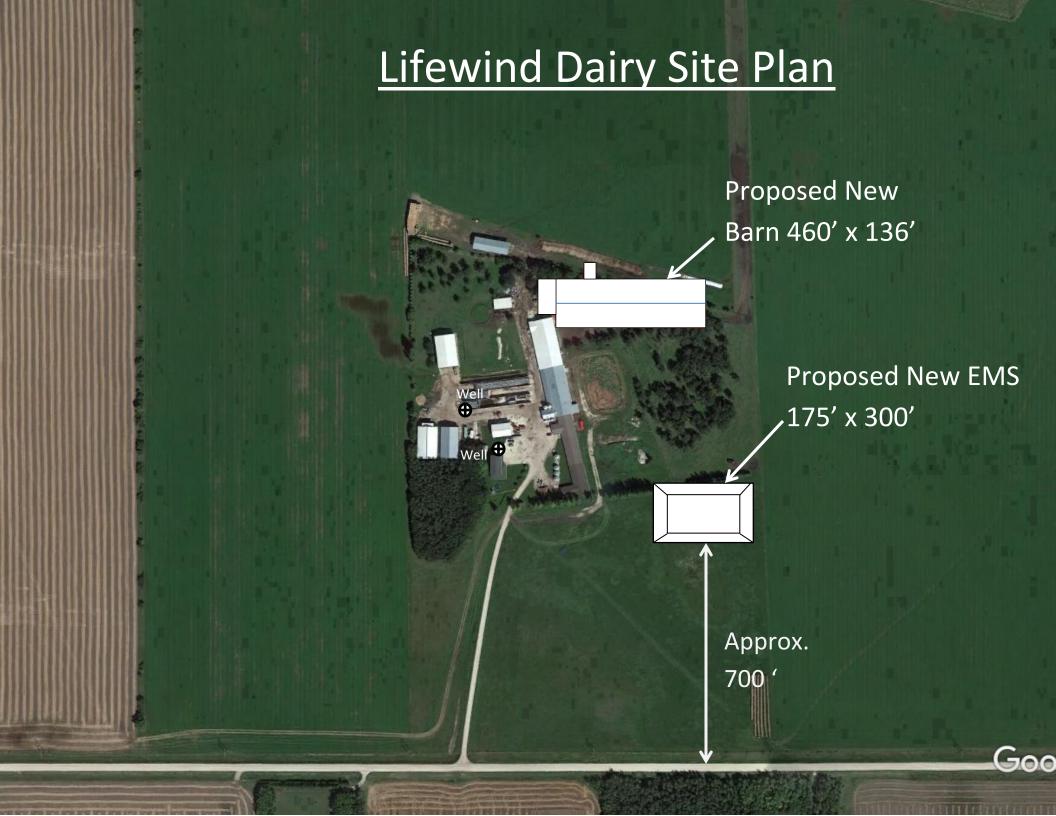
MHR RESIDENTIAL MOBILE HOME
LIMIT OF ZONES



KEY PLAN



Lifewind Dairy Site Location



Dairy Barn Water Requirement Estimator*

Enter the following farm data:

<u> </u>		_
Number of lactating/milking cows	300	
Average milk production (litres)	33	*
Parlor or tie stall (P/TS)	robotic milker	
Collection yard if free stall (Y/N)	N	
Plate cooler (Y/N)	Y	
Milkings per day	2	
Plate cooler water reused? (Y/N)	Υ	

Total water needs estimate per day:						
Litres	52845					
Imperial gallons	11640					
Cubic decametres	0.05					

Total water needs estimate per year:					
Litres	19288425				
Imperial gallons	4248552				
Cubic decametres	19.29				

^{*}Calculations are based on Manitoba AVERAGES for
• Feed composition

			Daily Manure Production			Production Period	Number of Animals		Total Manure Volume
Animal Type (A)	Animal Sub-type (B)	References (C)	Manure Type (D)	Default Manure Production (ft ³ /animal/day) (E)	Operation Manure Production ¹ (ft ³ /animal/day) (F)	² (Days) (G)	³ (Capacity) (H)	Total Manure Volume (ft³) (FxGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
			Semi-Solid 5	3.5				-	0.0
	Free Stall		Solid	3.4				-	
			Liquid ⁵	3.5	3.5	365	300	383,250.00	2,387,647.5
Dairy (milking cows ⁴ and associated		Table 6, pg 59, FPGs for Dairy	Semi-Solid 5	3.6				-	0.0
livestock)	Tie Stall	1995	Solid	3.5				-	
iivootooty		.000	Liquid ⁵	3.6				-	0.0
	Solid Manure Housing (See note Sec 8.2)		Solid	3.0	2.5	365	150	136,875.00	
	Milking Parlour Manure and Washwater		Liquid	0.5	0.5	365	300	54,750.00	
	Beef cows including associated livestock		Solid	1.2				-	
Beef	Backgrounder (200 day)	pg 117, FPGs for	Solid	0.73				-	
Deel	Summer pasture / replacement heifers	Hogs 1998	Solid	0.85				-	
	Feeder cattle		Solid	1.1				-	
	Sows - farrow to finish (234 - 254 lbs)		Liquid	2.3				-	0.0
	Sows - farrow to wean (up to 11 lbs)	MAFRI website,	Liquid	0.8				-	0.0
Pigs	Sows - farrow to nursery (51 lbs)	FPGs for Pigs	Liquid	1				-	0.0
	Weanlings, Nursery (11 - 51 lbs)	2007	Liquid	0.1				-	0.0
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25				-	0.0
				Yearly Manure Produ	ıction			Total Manure	Total Manure Volume
Animal Type	Type of Operation			nure Production r/bird space)	Operation Manure Production ¹ (ft³/year/bird space)	Production Period ² (Days)	Number of Birds ³ (Capacity)	Volume (ft ³) (F/365xGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
	Broilers – floor ⁶			1.23				-	
	Broiler breeder hens ⁷			2.3				-	
	Broiler breeder pullets ⁶			0.99				-	
	Roasters – floor ⁶	T-bl- 0 05		1.16				-	
Chickens	Layers – cage ⁸	Table 3, pg 85, FPGs for Poultry	2.33 1.68					-	0.0
CHICKEHS	Layers – floor ⁷	2000						-	
	Layers – solid pack ⁹	2000						-	
	Pullets – cage ⁸		0.71 0.75					-	0.0
	Pullets – floor ⁶							-	
	Pullets – solid pack ⁹							-	
	Broilers ⁶	Table 3, pg 85,		2.83				-	
Turkeys	Heavy toms ⁶	FPGs for Poultry		5.58				-	
	Heavy hens ⁶	2000		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 colum 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 <u>existing</u> manure storage facility (MSF) that will be used to store manure from the proposed project:

	Exi	Existing Manure Storage Facility Bottom Dimensions									
CELI	Width	Length	Depth	Height	Slope (H:L)		Capacity (days)				
CELL	Width	Dength	Вериг	(Above Grade)		Outside					
Primary	100 ft	180 ft	13 ft	3 ft	3:1 5:1		83				
	ft	ft	ft	ft							
Secondary											
	ft	ft	ft	ft							
Tertiary											
		I	T	1	Г	T					
Circular	Tank	Diameter	Height	Depth (Above Grade)							
		ft	ft	ft							

Permit/Registration #	Note: constructed prior to permitting requirement
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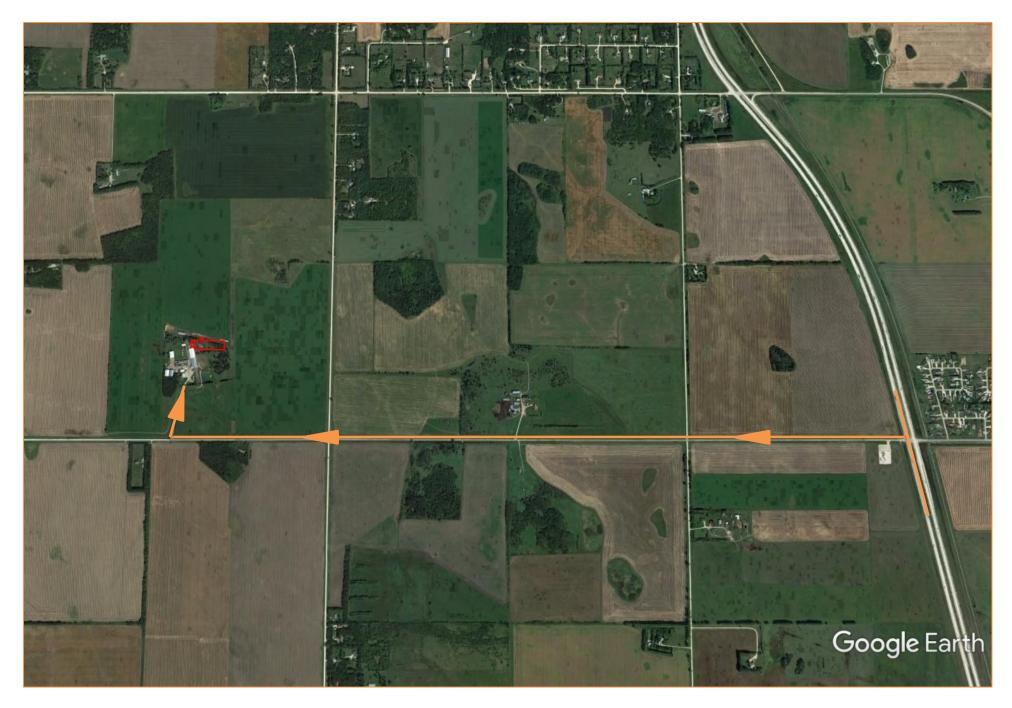


If available, indicate the dimensions of any <u>proposed</u> manure storage facility (MSF) that will be used to store manure from the proposed project:

	Prop	Proposed Manure Storage Facility Dimensions								
CELL	Width	Length	Depth	Height (Above	Slope	e (H:L)	Capacity (days)			
CLLL		S	1	Grade)	Inside	Outside	(days)			
Primary	175 ft	300 ft	13 ft	3 ft	3.5:1	5:1	368			
Secondary	ft	ft	ft	ft						
Tertiary	ft	ft	ft	ft						
Circular Tank		Diameter	Height	Depth						
Circular	1 anx	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)*.





Lifewind Farms Truck Route

Туре	Storage Type	Volatilization	Animal Numbers	Weight In	Weight Out	Average Animal Wt (lb)	Days on Feed per Cycle (days)	Number of Cycles per Year	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted per Herd Per Year (lb/yr/herd)
Lactating Cows	Liquid Uncovered Earthen	30%	0	1400	1440	1420	365	1	0	0
Dry Cows	Liquid Uncovered Earthen	30%	0	1440	1440	1440	365	1	0	0
Calves, 0-3 months	Liquid Uncovered Earthen	30%	0	90	275	183	365	1	0	0
Calves, 4-13 months	Liquid Uncovered Earthen	30%	0	275	810	543	365	1	0	0
Replacements, >13 months	Liquid Uncovered Earthen	30%	0	810	1250	1030	365	1	0	0
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	360	n/a	n/a	n/a	n/a	n/a	93876	49816

Last revised August 20, 2014

	Rem	oval	Uptake					Rem	oval	Uptake
Crop	P2O5	N	N	Units	Yield	Units	Acreage	P2O5	N	N
								(lb)	(lb)	(lb)
Alfalfa	13.8	58	58	lb/ton	1.869	ton/ac	172	4436	18645	18645
Barley Grain	0.42	0.97	1.39	lb/bu	62.3	bu/ac	148	3873	8944	12816
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac		-	-	-
Canola	1.04	1.93	3.19	lb/bu	33.6	bu/ac	281	9819	18222	30119
Corn Grain	0.44	0.97	1.53	lb/bu	125.5	bu/ac	44	2430	5356	8449
Corn Silage	12.7	31.2	31.2	lb/ton	4.88705	tons/ac	97	6020	14790	14790
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	1.144	tons/ac	70	801	2739	2739
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	33.6	bu/ac	160	4516	20805	27955
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu	51.8	bu/ac	144	4401	11189	15739
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
						Sub Total	1116	36296	100690	131252
			Estimate	d Average R		• • •		32.5	90.2	117.6
						tional Acres				
	Crop Planned on Additional Acres									
					То	tal Acreage	1116			
Note:	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	0	0
	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	93876	49816
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	93876	49816

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	93876
P2O5	49816
Crop Nutrient Use	lb/ac
Nitrogen Uptake	117.6
P2O5 Removal	32.5
Land Base Requirements	acres
Acres for Nitrogen Uptake	798
Acres for 2 x P2O5 Removal	766
Acres for 1 x P2O5 Removal	1532

Archived: Monday, April 16, 2018 11:39:08 AM

From: Friesen, Chris (SD)

Sent: Mon, 16 Apr 2018 11:10:37

To: 'Gary Plohman'

Subject: RE: rare species identification

Importance: Normal

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 Plohman [mailto:srossing@mymts.net]

Sent: April-09-18 3:38 PM

To: Friesen, Chris (SD) < Chris.Friesen@gov.mb.ca>

Subject: re: rare species identification

Hi Chris

I am currently working on a technical review application for Lifewind Dairy Farm.

Please provide information regarding the presence of rare species as required for the application.

A list of manure spread fields for the farm in the RM of Rockwood is attached indicating legal land locations.

Thanks for your help.

Gary Plohman

204 268-3218



Conservation
Environmental Services
1007 Century Street
Winnipeg, Manitoba R3H 0W4

September 10, 2010

Christophe Roulin Box 1923 Stonewall Manitoba R0C 2Z0

Re: Roulin, Christopher / Monika - Application for Registration of a Manure Storage Facility SE 17-13-2EPM, Rural Municipality of Rockwood, Application Number LR-075-002

Dear Mr. Roulin:

This correspondence is in response to your application for registration of a livestock manure storage facility located on SE 17-13-2EPM.

On the basis of the information reviewed by Manitoba Conservation staff to date, I hereby grant interim registration for your facility for the purposes of compliance with Section 16.3(2) of the *Livestock Manure and Mortalities Management Regulation* MR 42/98. The interim registration number for this facility shall be the same as your application number, LR-075-002.

This interim registration does not imply that the manure storage facility meets current construction standards as required by the *Livestock Manure and Mortalities Management Regulation*, nor does it suggest that any prior environmental impact has been corrected. This interim registration is granted solely for the purpose of allowing you to continue using your facility after November 10, 2010, and in accordance with Section 16.3(9) is granted subject to the condition that it may be opened by the director in the future for the purpose of including additional conditions in the final registration considered necessary for the protection of the environment.

Should you have any questions, please do not hesitate to contact your regional District Supervisor in the Steinbach office (204-346-6060), Winnipeg Office (204-945-5305) or Brandon Office (204-726-6064).

Yours sincerely,

Mike Gilbertson

Director, The Environment Act

ce: District Supervisor

Environmental Engineering Section

CROP ROTATION TABLE

А	В	С	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Alfalfa	172	1.869	Tons/ac	MASC
Timothy (seed and Straw harvested) Used MASC Grasses yield for this crop	70	1.144	Tons/ac	MASC
Canola	281	33.6	Bu/ac	MASC
Barley	148	62.3	Bu/ac	MASC
Wheat	144	51.8	Bu/ac	MASC
Soybeans	160	33.6	BU/ac	MASC
Grain Corn Silage Corn (also used this as the basis for Sorghum – Producer indicated similar yields and fertility)	44 97	125.5 13.963 converted to 35% to DM	Bu/ac Tons/ac	MASC MASC
Total Net Acreage for Manure Application	1116			

- 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.



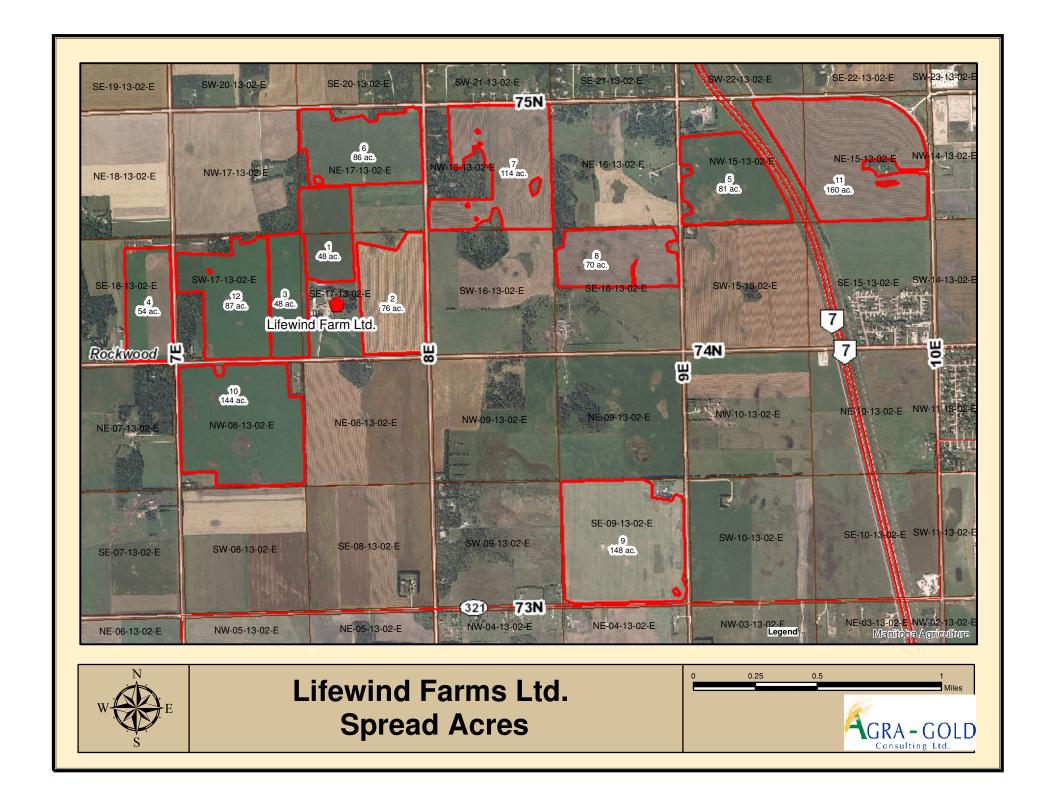
MANURE APPLICATION FIELD CHARACTERISTICS TABLE

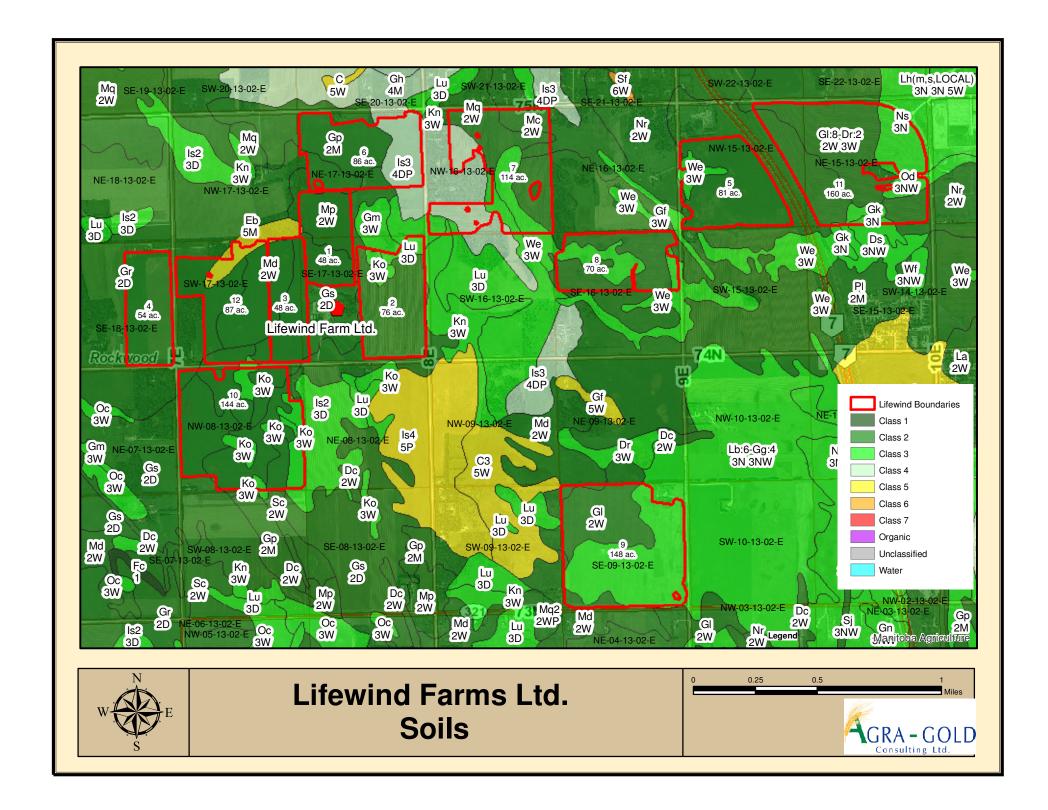
	Α	В	С	D	E	F	G	Н	I	J
Field	Legal Description	Rural Municipality	O/C/L/ A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
1										
2										
3						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

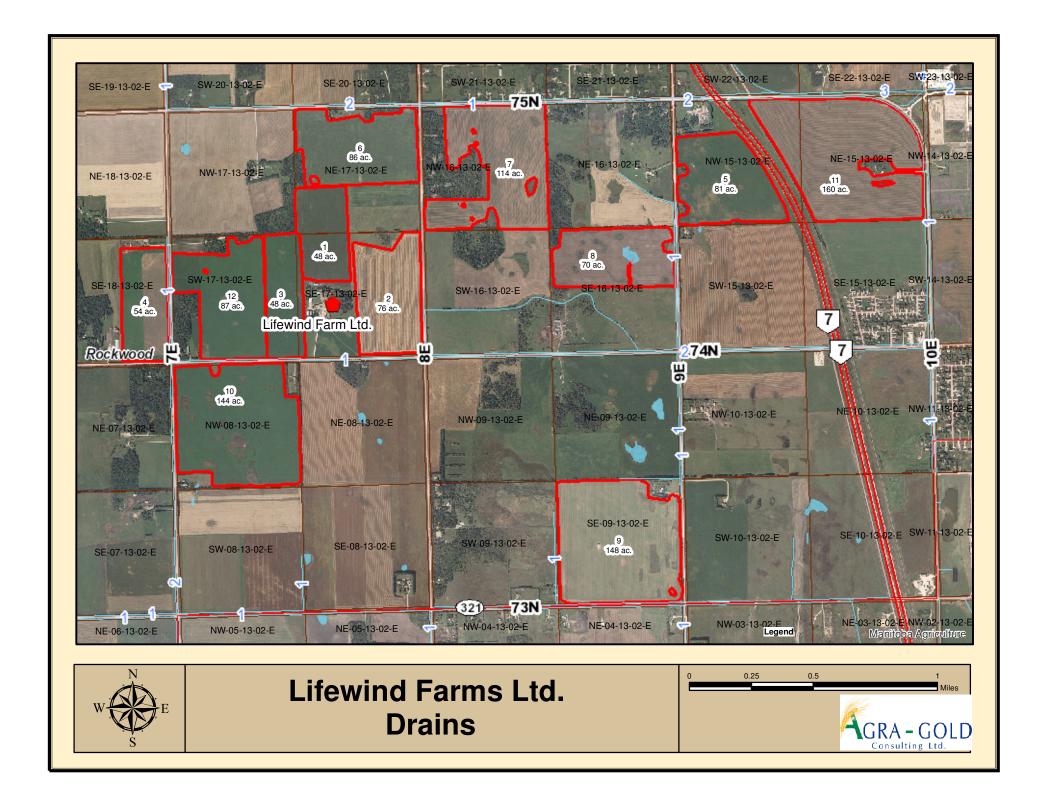
l	Enter the legal description for each p	arcel of land that will receive m	nanure: Sec, Twp, Rge	or River Lot (including parish).

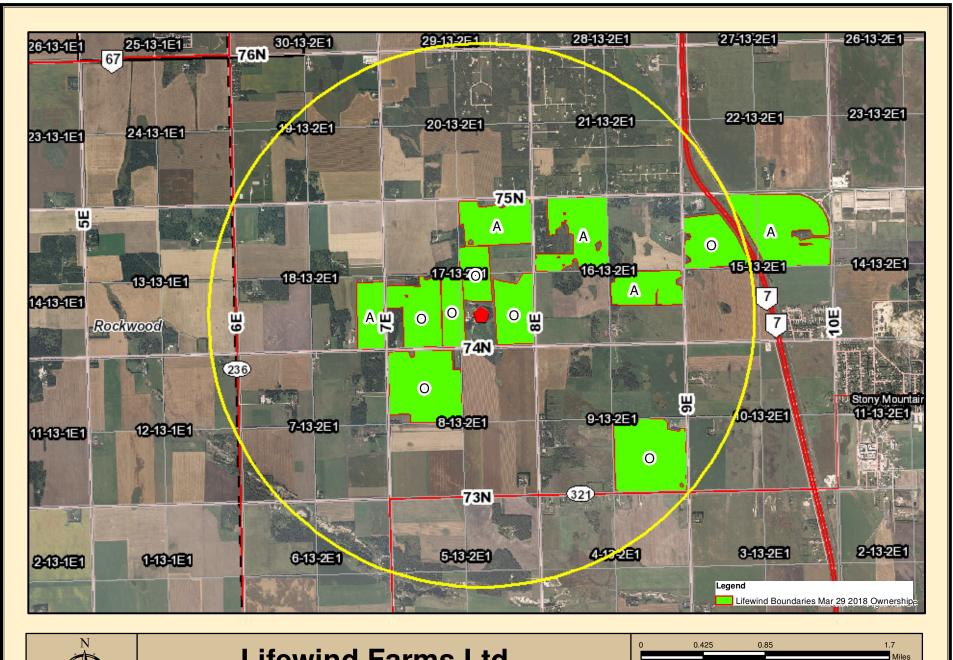
Total Net Acreage for Manure Application:

Α.	Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).	
В.	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.	
Η.	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 or	ompleted 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).	





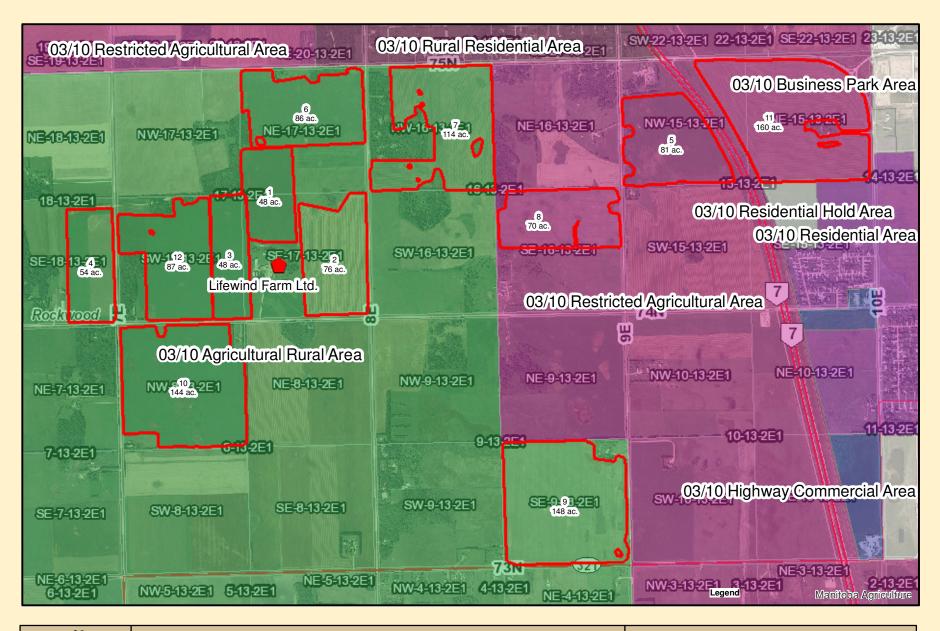






Lifewind Farms Ltd. Land Use

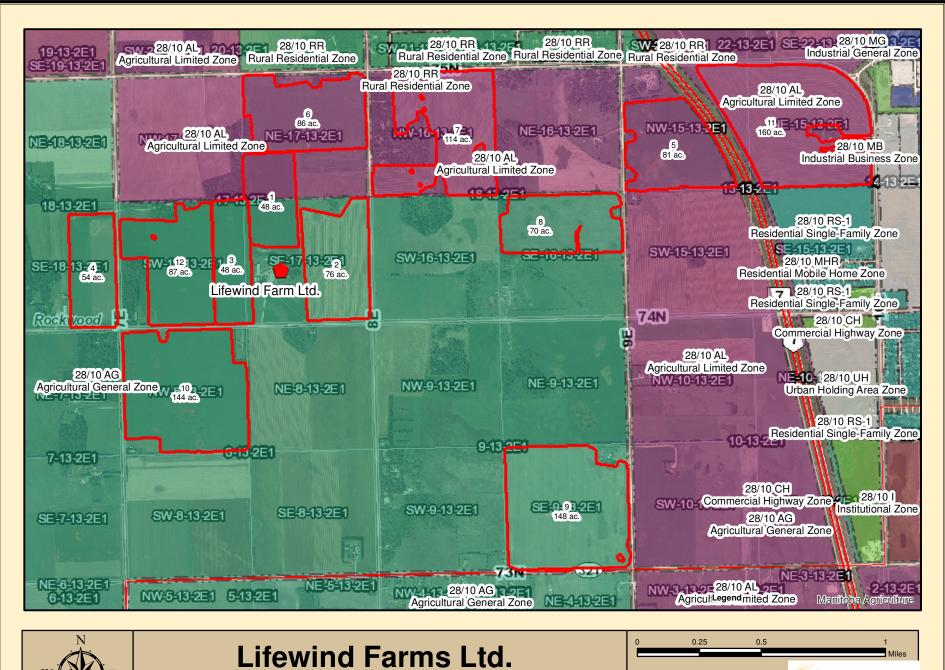






Lifewind Farms Ltd.
Land Use - Development Plan







Lifewind Farms Ltd. Land Use - Zoning





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

Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAME Behind Yard

COUNTY TWP

13

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

RANGE 2E

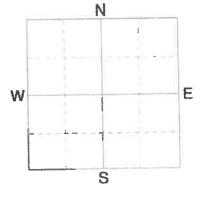
SUBMITTED BY: TEO817

SECTION 17

BOX 779

QTR Center ACRES 50

PREV. CROP



1982990 BOX # LAB# NW65624

REF #

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB

ROC 2ZO

Date Sampled

Date Received 09/12/2017

RDC 2Z0

Date Reported 10/26/2017

Nutrient In 1	The Soil	Interpretation	1st Cr	op Choice		2nd Cro	p Choice	3r	d Cro	p Choic	:e
0-6"	13 lb/ac	VLaw Law Med High	YIE	D GOAL		YIELD	GOAL		AIEIT	GOAL	
6-24"	6 lb/ac		SUGGESTE	ED GUIDELINE	ES	SUGGESTED	GUIDELINES	SUG	GESTE	GUIDELI	NES
0-24"	19 lb/ac		LB/ACRE	APPLICAT:	ION	LB/ACRE	APPLICATION	LB/	ACRE	APPLICA	ATION
	*		N			N		N			
Oisen Phosphorus	22 ppm		P ₂ O ₅			P2O5		P ₂ O ₅			
Potassium	277 ppm	*****	K ₂ O			K20		K20			
0-24"	24 lb/ac		CI			CI		Cl			
0-6" 6-24"	16 lb/ac 42 lb/ac	Charles and Committee and Comm	S			S		S			
Sulfur			В			В		В			
Boron	1.5 ppm	*************	Zn			Zn		Zn			
Zinc	1.90 ppm	***************						Fe			
lmn	24.2 ppm	*****	Fe			Fe		re		-	
Manganese	1.8 ppm	*****	Mn			Mn		Mn			
Copper	1.29 ppm	************	Cu			Cu		Cu	Ň		
Magnesium	1175 ppm	***************				Mo		Mg			
Calcium	6867 ppm	*****	Mg	_		Mg	-			-	
Sodium	31 ppm	*****	Lime			Lime		Lime			
Org,Matter	6.8 %	******	RES		Cati	on Exchange	% Base	Saturati	on (Ty	pical Rai	nge)
Carbonate(CCE)	2.6 %	******	Soil pH	Buffer pH	100000	Capacity	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.42 mmho/cm 0.43 mmho/cm		0-6" 7.8 6-24" 8.3		-	41.0 meq	(65-75) 74.0	(15-20) 23.9	(1-7) 1.7	(0-5) 0.3	(0-5)

General Comments: Texture is not estimated on high pH soils.



SOIL TEST REPORT

FIELD ID 2
SAMPLE ID
FIELD NAME East Home Yard
COUNTY

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

TWP 13 RANGE 2E
SECTION 17 QTRSE ACRES 0

SUBMITTED BY: TE0817

PREV. CROP

BOX 779



N

REF # 1982994 BOX #

LAB # **NW65821**

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB ROC

ROC 220

100 110

Date Sampled

Date Received 09/13/2017

RDC 2ZD

Date Reported 10/26/2017

Nutrient In 7	he Soil	Interpretation	1st Cr	p Choice	2nd	d Crop	Choice	3r	d Cro	p Choic	e	
0-6"	17 lb/ac	View Law Med High	YIEL	D GOAL		YIELD (SOAL		YIELD GOAL			
6-24"			SUGGESTE	D GUIDELINE	s SUGG	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
0-24"	29 lb/ac		LB/ACRE	APPLICATI	ON LB/A	CRE	APPLICATIO	IN LB/	ACRE	APPLICA	ATION	
			N		N			N				
Olsen Phosphorus	36 ppm	***************	P ₂ Os		P2O5			P205				
Potassium	316 ppm	******	K2O		K ₂ O			K20				
0-24" Chlorid <i>e</i>	28 lb/ac	*****	c)		CI			CI				
0-6" 6-24"	20 lb/ac 42 lb/ac	CHAST MANAGEMENT THE RESIDENCE OF THE PARTY	5		S			5 B				
Sulfur	1.7 ppm	**********	В			-		E1120		+		
Zinc	2.37 ppm	***********	Zn		Zn			Zn				
Iron	27,7 ppm		Fe		Fe			Fe				
Manganese	1.9 ppm		Mn		Mn			Mn				
Copper	1.52 ppm	******	Cu		Cu			Cu		1		
Magnesium	967 ppm	******		_				Mg				
Calcium	5432 ppm	****************	Mg		Mg			13		-		
Sodium	22 ppm	l Asa	Lime		Lime			Lime	•			
Org.Matter	6.6 %	******		I Consider	Cation Exc	hange	% Bas	e Saturati	ion (Ty	pical Ra	nge)	
Carbonate(CCE)	2.9 %	an angle alle alle alle alle des des matte alle de	Soil pH	Buffer pH	Capac		% Ca	% Mg	% K	% Na	% H	
0-6" 6-24"	0.4 mmho/cm 0.34 mmho/cm	The state of the s	0-6" 7.9 6-24" 8.3		36.1 m	eq	(65-75) 75.2	(15-20) 22.3	(1-7) 2.2	(0-5) 0.3	(0-5)	

General Comments: Texture is not estimated on high pH soils.



SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAMEWest Side of Yard

COUNTY

TWP

13 SECTION 17

RANGE 2E

ACRES 50 QTR**SW**

PREV. CROP

N E W

REF # LAB #

76.4

21.4

1.9

0.3

1982995 BOX # NW65629

0

SUBMITTED FOR: **Chris Roulin**

Box 1923

Stonewall, MB

ROC 2ZO

SUBMITTED BY: TE0817

TERRACO-STONEWALL **HIGHWAY 67 WEST**

BOX 779

STONEWALL, MB

ROC 2Z0

Date Reported 10/26/2017

Date Sampled

Date Received 09/12/2017

Nutrient In	The Soil	Interpretation	1st Cr	op Choice		2nd C	rop Choice	31	d Cro	p Choi	ce		
0-6"	16 lb/ac	vEow Low Med High	YIE	LD GOAL		YIE	ELD GOAL		AIEN	D GOAL			
6-24"	9 lb/ac	·····	SUGGESTED GUIDELINES			SUGGEST	ED GUIDELINES	SUG	SUGGESTED GUIDELINES				
0-24" Nitrate	25 lb/ac		LB/ACRE	APPLICAT	TON	LB/ACRE	APPLICATION	LB/	ACRE	APPLIC	MOITA		
			N			N		N					
Olsen	13 ppm	************	P ₂ O ₅			P2O5		P ₂ O ₅					
Potassium	271 ppm	**************	K2O			K20		K ₂ O					
0-24"	24 lb/ac		CI			et		CI					
0-6" 6-24"	16 lb/ac 18 lb/ac	******	S			S		S					
Boron	1.5 ppm		Zn			Zn		Zn					
Zinc	1.93 ppm	*****	0) #1						+	-			
Iron	24.5 ppm	*****	Fe			Fe		Fe					
Manganese	2.3 ppm	*****	Mn			Mn		Mn	3				
Copper	1.27 ppm	*****	Cu			Cu		Cu					
Magnesium	926 ppm	******				Direct Control							
Catcium	5512 ppm	******	Mg			Mg		Mg		-			
Sodium	26 ppm	3839	Lime			Lime		Lime					
Org.Matter	7.4 %		MALBER		Cati	on Exchan	ge % Base	Saturati	on (Ty	pical Ra	nge)		
Carbonate(CCE)	2.8 %	******	Soil pH	Buffer pH	1000-000	Capacity	No. of Concession, Name of Street, or other Party of Street, or other	% Mg	% K	% Na	% H		
0-6" 6-24"	0.43 mmho/cm		0-6* 7.7		:	36.1 meq	(65-75)	15-20)	(1-7)	(0-5)	(0-5)		

6-24" 8.0

General Comments: Texture is not estimated on high pH soils.

6-24"

0.4 mmho/cm



SOIL TEST REPORT

FIELD ID 4
SAMPLE ID
FIELD NAME Kaegi
COUNTY

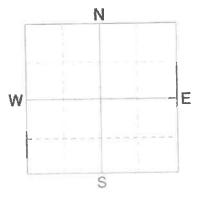
TWP 13 SECTION 18

RANGE 2E

SUBMITTED BY: TE0817

QTRSE ACRES 55

PREV. CROP



REF #

1982996 BOX #

0

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB

ROC 2ZO

TERRACO-STONEWALL

HIGHWAY 67 WEST

BOX 779

STONEWALL, MB

ROC 2ZO

LAB # **NW65928**

Date Reported 10/26/2017

Date Sampled

Date Received 09/13/2017

Date Sampled												
Nutrient In 1	he Soil	Interpretation	1st Cr	op Choice	2nd C	rop Choice	3r	d Cro	p Choic	e		
0-6"	10 lb/ac	Work Low Med High	YIELD GOAL			YIELD GOAL			YIELD GOAL			
6-24"	12 lb/ac		SUGGESTI	ED GUIDELINE	s sugges	TED GUIDELINES	SUGGESTED GUIDELINES					
0-24" Vitrate	22 lb/ac		LB/ACRE	APPLICAT	ION LB/ACRI	APPLICATION	LB/	ACRE	APPLIC	ATION		
			N		TN.		N					
Olsen Phosphorus	16 ppm	*************	P ₂ O ₅		P205		P2O5					
Potassium	393 ppm	*****************	K ₂ O		K ₂ O		K20					
0-24"	12 lb/ac		C)		СІ		ÇI					
0-6" 6-24"	14 lb/ac 18 lb/ac	The state of the s	5		S B		S B					
Sulfur	1.5 ppm	******	8		В				-			
Zinc	1.35 ppm		Zn		Zn		Zn					
Iron	22.1 ppm		Fe		Fe		Fe					
Manganese	2.8 ppm	******	Mri		Mn		Mn					
Copper	1.49 ppm		Cu		Cu		Cu					
Magnesium	1298 ppm	*************			Ma		Mg					
Calcium	6701 ppm	*************	Mg		Mg							
Sodium	38 ppm	22222	Lime		Lime		Lime					
Org.Matter	7.0 %	*****		JA FA	Cation Excha	nge % Base	Saturati	on (Ty	pical Ra	nge)		
Carbonate(CCE)	3.8 %	**********	Soil pH	Buffer pH	Capacity	% Ca	% Mg	% K	% Na	% H		
0-6" 6-24"	0.61 mmho/cm 0.54 mmho/cm		0-6" 7.7 6-24" 8.1		45.5 meq	(65-75) ((15-20) 23.8	(1-7) 2.2	(0-5) 0. 4	(0-5)		

Sol. Salts

General Comments: Texture is not estimated on high pH soils.



SUBMITTED FOR:

ROC 2Z0

Chris Roulin

Stonewall, MB

Box 1923

SOIL TEST REPORT

FIELD ID SAMPLE ID

FIELD NAME West of 7 COUNTY

TWP

RANGE 2E 13 SECTION ACRES 88 15 QTR **NW**

PREV. CROP

SUBMITTED BY: TE0817

TERRACO-STONEWALL HIGHWAY 67 WEST

BOX 779

STONEWALL, MB **ROC 2Z0** W Ε S

1982997 BOX # REF #

LAB# NW67163

Date Sampled Date Received **09/13/2017** Date Reported 3/15/2018

Nutrient Ir	n The Soil	In	terpi	retati	on	1s	t Cro	p Choice	е	2n	d Cro	p Choice		3	rd Cro	p Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Corn-	Grain					
0-6" 6-24"	17 lb/ac 21 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
	,,,,	*****	*				130	BU			140	BU					
0-24''	38 lb/ac					SUGO	GESTED	GUIDELIN	IES	SUGO	GESTED	GUIDELINE	:S	SUG	GESTE	D GUIDE	LINES
Vitrate							Band			Band							
01	-					LB/A	CRE	APPLICAT	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPLIC	CATION
Olsen	7 ppm	*****	*****	k		N	118			N	130			N			
Potassium	108 ppm	*****	*****	****		P ₂ O ₅	49	Band ³	*	P ₂ O ₅	53	Band *		P ₂ O ₅			
0-24''	28 lb/ac	*****	****			K ₂ O	43	Band ³	*	K ₂ O	47	Band *		K ₂ O			
0-6" 6-24"	74 lb/ac 72 lb/ac					CI		Not Availab		CI		Not Availabl	e	CI			
Sulfur						S	0			S	0			S			
Boron	1.5 ppm			*****	****	В	0			В	0			В			
Iron	0.51 ppm					Zn	3	Band		Zn	3	Band		Zn			
Manganese	12.1 ppm 2.8 ppm			******		Fe	0			Fe	0			Fe			
Copper	0.58 ppm		*****			Mn	0			Mn	0			Mn			
Magnesium	907 ppm	*****	*****	*****	*****	Cu	0			Cu	0			Cu			
Calcium	4482 ppm	*****	*****	*****	*****	Mg	0			Mg	0			Mg			
Sodium	39 ppm	*****				Lime				Lime				Lime			
Org.Matter	2.3 %	*****	***						Cati	ion Excl	nange	% Bas	e Sa	turatio	on (Typ	oical Rai	nge)
Carbonate(CCE)	9.9 %	*****	*****	*****	*****	Soil p	НВ	uffer pH		Capacit	_	% Ca	%	Mg	% K	% Na	% Н
0-6" 6-24" Sol. Salts	0.39 mmho/cm 0.21 mmho/cm		***			0-6" 8				30.4 me	q	(65-75) 73.7		-20) 4.9	(1-7) 0.9	(0-5) 0.6	(0-5)

General Comments: Texture is not estimated on high pH soils.

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 52 K2O = 35 A GVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 56 K20 = 38 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



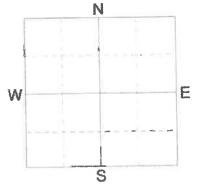
SOIL TEST REPORT

FIELD ID 6
SAMPLE ID
FIELD NAME
COUNTY

TWP 13 SECTION 17 RANGE 2E

QTR NE ACRES 80

PREV. CROP



REF #

1982999 BOX # NW65631

F (

SUBMITTED FOR: Chris Roulin

Box 1923

Stonewall, MB

ROC 220

SUBMITTED BY: TE0817
TERRACO-STONEWALL

HIGHWAY 67 WEST

BOX 779

STONEWALL, MB

ROC 2ZO

LAB #

Date Reported 10/26/2017

Date Sampled

Date Received 09/12/2017

Nutr	rient In Th	e Soil	Interpretation	1st Cr	op Choice		2nd Cre	p Choice	3r	d Cro	p Choic	е
	0-6"	9 lb/ac	Viow Law Med High	YIE	D GOAL		YIEU	O GOAL		YIELD	GOAL	
	6-24"	6 lb/ac	•••	SUGGESTI	D GUIDELINE	s s	UGGESTE	GUIDELINES	SUGO	SESTEC	GUIDELI	NES
Nitrate	0-24"	15 lb/ac		LB/ACRE	APPLICATI	ON I	B/ACRE	APPLICATION	LB/A	CRE	APPLICA	ATION
				N		1			N			
Phas phorus	Olsen	7 ppm		P2O5		P ₂	05		P205			
Potassium		229 p pm		K₂O		K	0		K20			
Chloride	0-24"	24 lb/ac		CI			1		CI			
	0-6" 6-24"	16 lb/ac 24 lb/ac		S			3		5 B			
Sultur Boron		0.9 ppm	******	В	_	_		-	Zn		-	
Zinc	7.52	0.70 ppm		Zn		-	n		241	-	-	
Iron		18.2 ppm	*****	Fe			е		Fe			
Manganese		2.5 ppm	**********	Mn		1	4n		Mn			
Copper		0.71 ppm	*********	Cu			Cu		Cu			
Magnesium		554 ppm	**************	Mg			4g		Mq			
Catclum		5204 ppm	***************	PiQ.							-	
Sodium		23 ppm		Lime		L	me		Lime			
Org.Matter		3.7 %	**************************************		B. 65. a. 41	Cation	Exchang	e % Base S	Saturatio	on (Ty	pical Rai	
Carbonate(CC	E)	3.9 %	**********	Soil pH	Buffer pH	Ca	pacity	% Ca	% Mg	% K	% Na	% H

l			Cation Exchange	% Base Saturation (Typical Range)								
١	Soil pH	Buffer pH	Capacity	% Ca	% Mg	% K	% Na	% H				
	0-6" 7.9 6-24" 8.2		31.3 meq	(65-75) 83.1	(15-20) 14.7	(1-7) 1.9	(0-5) 0.3	(0~5)				
l	6-24" 8.2			83.1	14./	1.3	0.3	_				

General Comments: Texture is not estimated on high pH soils.

0-6"

6-24"

0.28 mmho/cm

0.22 mmho/cm



SUBMITTED FOR:

ROC 2ZO

SOIL TEST REPORT

FIELD ID 7 SAMPLE ID FIELD NAME COUNTY

TWP

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

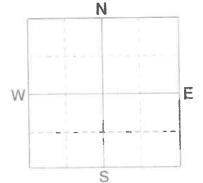
RANGE 2E

SUBMITTED BY: TE0817

QTRNW ACRES 150 SECTION 16

PREV. CROP

BOX 779



NW85809 LAB #

REF # 1983000 BOX #

Date Sampled

Stonewall, MB

Chris Roulin

Box 1923

Date Received 09/26/2017

ROC 2Z0

Date Reported 10/26/2017

Nutrient In	The Soil	Interpretation	1st Cr	op Choice		2nd Cro	p Choice	3	rd Cro	p Choic	ce
0-6"	35 lb/ac	VLovi Low Med High	YIE	LD GOAL		YIELD	GOAL		AIET	GOAL.	
6-24"	33 lb/ac	*****	SUGGESTI	ED GUIDELIN	ES	SUGGESTED	GUIDELINES	SUG	GESTE	GUIDEL	INES
0-24" Nitrate	68 lb/ac		LB/ACRE	APPLICAT	TON	LB/ACRE	APPLICATION	tB/	ACRE	APPLIC	ATION
			N			N		N			
Olsen Phosphorus	8 ppm		P2O5			P2O5		P2O5			
Potassium	184 ppm	******	K ₂ O			K ₂ O		K ₂ O			
0-24''	20 lb/ac		CI			CI		CI			
0-6" 6-24"		**************	s			S		S			
Sulfur			В			В		В			
Goron	1.8 ppm	*****	Zn			Zn		Zn			
Zinc	0.72 ppm	**********	155.007			*	-	Fe			
Tron	16.8 ppm		Fe			Fe		- 1		-	_
Manganese	1.6 ppm	***********	Mn			Mn		Mn			
Copper	0.94 ppm	******	Cu			Cu		Cu			
14 agnesium	1113 ppm	*************		-				Mg			
Calcium	5027 ppm	*************	Mg			Mg	-	1.79		+	_
Sodium	27 ppm		Lime			Lime		Lime			
Org.Matter	4.7 %	******	TO BE THE		Catio	on Exchange	% Base	Saturat	ion (Ty	pical Ra	nge)
Carbonate(CGE)	6.7 %	******	Soil pH	Buffer pH	1000000	Capacity	% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.52 mmho/cm 0.36 mmho/cm	The second secon	0-6" 8.2 6-24" 8.6		3	5.0 meq	(65-75) 71.8	(15-20) 26.5	(1-7) 1.3	(0-5) 0.3	(0-5)

General Comments: Texture is not estimated on high pH soils.

Sol. Salts



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

13 TWP SECTION 16

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

RANGE 2E

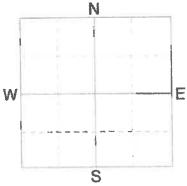
SUBMITTED BY: TE0817

ACRES 80 QTR SE

ROC 2ZO

PREV. CROP

BOX 779



REF #

1983001 BOX #

NW65626 LAB#

Box 1923

Chris Roulin

Stonewall, MB

Date Sampled

ROC 220

Date Received 09/12/2017

Date Reported 10/26/2017

0.9

32.5

66.0

0.7

Nutrient In The Soil		Interpretation 1st Crop Choice				2nd Cr	31	3rd Crop Choice				
0-6*	5 lb/ac	VLow Low Med High	YIELD GOAL SUGGESTED GUIDELINES			YIEL	D GOAL		YIELD GOAL			
6-24"	9 lb/ac					SUGGESTE	SUG	SUGGESTED GUIDELINES				
0-24" Nitrate	14 lb/ac		LB/ACRE	APPLICAT	TON	LB/ACRE	APPLICATION	LB/	ACRE	APPLIC	ATION	
			N			N		N				
Olsen Phosphorus	7 ppm	******	P2O5			P2Os		PaOs				
Potassium	123 ppm	*************	K ₂ O			K ₂ O		K ₂ O				
0-24"	24 lb/ac		CI			cı		CI				
0-6" 6-24"	120 +lb/ac 360 +lb/ac	***************************************	S			S		S				
Sulfur			В			В		В				
Baran	2.6 ppm	****************	20			Zn		Zn				
Zinc	0.50 ppm	*******		-								
Iron .	12.4 ppm	************	Fe			Fe		Fe				
Manganese	1.6 ppm	***********	Mn			Mn		Mn				
Copper	0.58 ppm	******	Cu			Cu		Cu				
Hagnes lum	1435 ppm			_						-		
Calcium	4861 ppm	*****	Mg			Mg		Mg				
Sodium	62 ppm		Lime			Lime		Lime	7			
Org.Matter	4.8 %	******	Cati		Cation Exchange		e % Base	Saturati	Saturation (Typical Range)			
Carbonate(CCE)	6.3 %	******	Soil pH	Buffer pH	Cation Exchange Capacity		THE RESERVE OF THE PARTY OF THE	% M g	% K	% Na % F		
0-6" 6-24"	0.51 mmho/cm	Company of the State of the Sta	0-6" 8.4			36.8 meq	(65-75)	15-20)	(1-7)	(0-5)	(0-5)	

6-24" 8.6

General Comments: Texture is not estimated on high pH soils.

0.48 mmho/cm

6-24"



SUBMITTED FOR:

ROC 220

SOIL TEST REPORT

FIELD ID 9
SAMPLE ID
FIELD NAME
COUNTY

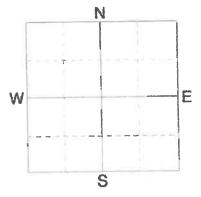
TWP 13

RANGE 2E

SUBMITTED BY: TEO817

SECTION 9 QTRSE ACRES 150

PREV. CROP



TERRACO-STONEWALL HIGHWAY 67 WEST

BOX 779

STONEWALL, MB

ROC 2Z0

REF # 1983002 BOX # 0

LAB # NW65175

(65-75)

65.6

41.2 meq

(15-20)

32.5

(1-7)

0.9

(0-5)

1.0

Date Sampled

Stonewall, MB

Chris Roulin

Box 1923

Date Received 09/12/2017

Date Reported 10/26/2017

(0-5)

Nutrient In The Soil		Interpretation 1st Crop Choice			2nd Cr	op Choice	3rd Crop Choice						
0-6"	15 lb/ac	View Law Med High	YIELD GOAL			YIELD GOAL			YIELD GOAL				
6-24" 9 lb/ac		SUGGESTED GUIDELINES			SUGGESTE	SUGGESTED GUIDELINES							
0-24"	24 lb/ac		LB/ACRE	APPLICATI	ON	LB/ACRE	APPLICATION	LB/ACRE		APPLICATION			
		N		19	N		N						
Olsen Phosphorus	11 ppm		P ₂ O ₅			P ₂ Q ₅		P ₂ O ₅					
Potassium	145 ppm	****************	K20			K20		K ₂ O					
0-24"	20 lb/ac		CI			CI		CI					
0-6" 6-24"	120 +lb/ac 360 +lb/ac		s			S		S		-			
Sulfur			В			В		В					
Boron	2.4 ppm	******	Zn			Zn		Zn					
Zinc	6.40 ppm	******	2.11				_		9	-			
Iron	18.0 ppm		Fe			Fe		Fe					
Manganese	1.4 ppm	******	Min			Mn		Mn					
Copper	6.92 ppm	***********	Cu			Cu		Cu					
Magnesium	1607 ppm	**************								-			
Calcium	5403 ppm	*****	Mg			Mg		Mg					
Sødium	93 ppm	**********	Lime			Lime :		Lime					
Org.Matter	4.5 %	******		Ober 2 all	Cation Exchange % Base Sa			Saturation (Typical Range)					
Carbonate(CCE)	7.2 %	******	Soil pH	Buffer pH	Capacity		THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	% Ng % K		% Na	% H		

0-6" 8.2

6-24" 8.4

General Comments: Texture is not estimated on high pH soils.

0.83 mmho/cm

0.88 mmho/cm

0-6"

6-24"

Sol. Salts



SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 13 SECTION 8

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

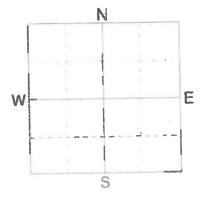
RANGE 2E

QTR NW ACRES 150

SUBMITTED BY: TE0817

PREV. CROP

BOX 779



1982991 BOX # REF #

NW65822 LAB#

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB

Date Sampled

RDC 220

Date Received 09/13/2017

RDC 2Z0

Date Reported 10/26/2017

Nutrient In The Soil		Interpretation	1st Cro	2n	d Crop	Choice	31	3rd Crop Choice				
6-24" 9 lb/a	9 lb/ac	VLow Low Med High	YIELI		YIELD GOAL				YIELD GOAL			
		2222	SUGGESTE	SUGG	ESTED (GUIDELINES	SUG	SUGGESTED GUIDELIN				
	18 lb/ac		LB/ACRE	APPLICATION	ON LB/A	LB/ACRE		N LB/	ACRE	APPLICA	ATION	
			N		N.			N				
Olsen	1 0 ppm		P2O5		PaOs			P ₂ O ₅				
Potassium	393 ppm	******	K ₂ O		K ₂ O			K ₂ O				
0-24"	48 lb/ac		CI		CI			CI.				
0-6 * 6-24 * Suitor	16 lb/ac 24 lb/ac		S		S			8				
Boron	1.4 ppm	************	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Zn			Zn				
Zinc	0.81 ppm	******	Zn	-		-						
Iron	18.4 ppm	*****	Fe		Fe			Fe		-		
Manganese	1.9 ppm	******	Mn		Mn			Mn				
Copper	1.61 ppm	******	Cu		Cu			Cu				
Magnesium	1283 ppm	***************	Mg		Mg			Mg				
Calcium	6218 ppm	***************			Phose			Limi				
Sadium	38 ppm	*****	Lime		Lime			Lime				
Org.Matter	5.2 %	******	Soil pH Buffer pH		Cation Exchange		% Bas	e Saturat	Saturation (Typical Rar			
Carbonate(CCE)	4.1 %	************	SON PM	Builet hu	Capacity		% Ca	% Mg	% K	% Na	% H	
0-6" 6-24" Sol. Salts	0.45 mmho/cm 0.36 mmho/cm		0-6" 8.0 6-24" 8.3		43.0 m	eq	(65-75) 72.4	(15-20) 24.9	(1-7) 2.3	(0-5) 0.4	(0-5)	

General Comments: Texture is not estimated on high pH soils.



SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 13 SECTION 15

TERRACO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

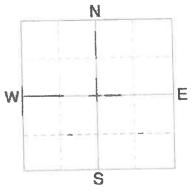
RANGE 2E

ACRES 160 QTR NE

SUBMITTED BY: TE0817

PREV. CROP

BOX 779



REF #

BOX # 1982992

NW113944 LAB#

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB

Date Sampled

ROC 2ZO

Date Received 10/11/2017

ROC 2ZO

Date Reported 10/26/2017

(15-20) (1-7) (0-5)

36.0

0.7

(65-75)

61.5

40.0 meg

(0-5)

1.8

Nutrient In The Soil		Interpretation	1st Cro	p Choice	2nd (2nd Crop Choice			3rd Crop Choice				
0-6"	12 lb/ac	Vibw Low Med High	YIELD GOAL SUGGESTED GUIDELINES		Y	YIELD GOAL			YIELD GOAL				
6-24"	27 lb/ac	******			SUGGES	TED GUIDELINES	SUG	SUGGESTED GUIDELIN					
0-24"	39 lb/ac		LB/ACRE	APPLICATIO	DN LB/ACR	E APPLICATION	ON LB/	LB/ACRE		ATION			
		N		N		N							
Olsen Phosphorus	11 ppm	*********	PzOs		P ₂ O ₅		P2O5						
Potassium	110 ppm		K ₂ O		K ₂ Q		K ₂ O						
0-24" Chloride	4972 lb/a c		CI		CI		CI						
0-6" 6-24"	120 +lb/ac 360 +lb/ac		5		S		S						
Sulfur	2.2 ppm	*********	8				Zn						
Zinc	0.40 ppm		Zn		Zn				-				
Iron	11.0 ppm	**************	Fe		Fe		fe	5					
Nanganese	1.8 ppm		Mn		Min		Mn						
Copper	0.84 ppm	************	Cu		Cu		Cu						
Magnesium	1731 ppm	*************	Mg		Mg		Mg						
Calcium	4921 ppm	***************	g		0.000		Lime	,					
Sodium	165 ppm		Lime		Lime		E 400						
Org.Matter	4.5 %		Soil nH	Buffer pH	Cation Exchi								
Carbonate(CCE)	11.1 %				Capacity	% Ca	% Mg	% K	% Na	% H			

0-6" 8.4

6-24" 8.7

General Comments: Texture is not estimated on high pH soils.

1.2 mmho/cm

0.97 mmho/cm

0-6"

6-24"



SOIL TEST REPORT

FIELD ID 12 SAMPLE ID FIELD NAME COUNTY

TWP

RANGE 2E

SUBMITTED BY: TE0817

ACRES 55 QTR SW SECTION 17

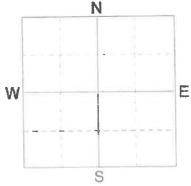
PREV. CROP Corn-Grain

TERRAÇO-STONEWALL

HIGHWAY 67 WEST

STONEWALL, MB

BOX 779



1982993

BOX #

REF #

LAB# NW168833

SUBMITTED FOR:

Chris Roulin Box 1923

Stonewall, MB

Date Sampled

ROC 2ZO

ROC 2ZO

Date Received 10/27/2017

Date Reported 11/1/2017

% H

Not Available

Nutrient In The Soil		Interpretation	1st Crop Choice			2n	d Cro	p Choice	31	3rd Crop Choice				
		View Law Med High	Canola-bu				Canola-bu				Canola-bu			
0-6"	32 lb/ac			YIEL	D GOAL	7,55		YIELD	GOAL		YIEL	GOAL		
6-24"	66 lb/ac	*****	SO BU			60 BU				65 BU				
0-24"	98 lb/ac		SUGG	ESTE	D GUIDELINE	s	SUGO	ESTED	GUIDELINES	SUG	GESTE	GUIDEL	INES	
Nitrate			Band				- 1	Ва	ind		Band			
			LB/ACRE APPLICATION		ION	LB/ACRE		APPLICATIO	N LB/	LB/ACRE		ATION		
Olsen	12 ppm	*****	N	77			N	112		- N	130			
Pnospnorus Potassium	385 ppm	**********	P2O5	33	Band *		P ₂ O ₅	39	Band *	P ₂ O ₅	42	Ban	d *	
	48 lb/ac	***************	K20	0			K20	0		K ₂ O	0			
0-24"	48 10/ ac		C1		Not		C)		Not	CI		Not Av	ailabl	
0-6" 6-24"	26 lb/ac 48 lb/ac	CONTRACTOR OF THE PROPERTY OF	C)		Availab	le			Available					
Sulfur			S	15	Band		S	15	Band	S	15	Bai	nd ———	
Boron	1,5 ppm	*****	В	0			В	0		В	0			
Zinc	1.20 ppm	******	Zn	0			Zn	D		Zn	0			
Iron	14.1 ppm	**************	Fe	0			Fe	0		Fe	0			
Manganese	2.0 ppm	**********		-		_	Mn	0	-	Mn	0	_		
Copper	1.32 ppm	*************	Mn	0			300	-	-	Cu	0			
Magnesium	1043 ppm	***************	Cu	0			Cu	0		Cu	-	-		
Calcium	6403 ppm	******	Mg	0			Mg	0		Mg	0			
Sadium	50 ppm	*****	Lime				Lime			Lime	H			
Org.Matter	5.9 %	****************	Cat		ition Exchange		% Base	Saturati	iaturation (Typical Rang					
Carbonate(CCE)	3.2 %	*****	Soil pH		Buffer pH		Capacity		% Ca	% Mg	% K	% Na	% ł	
0-6" 5-24"	0.56 mmho/cm 0.57 mmho/cm	The second secon	0-6" 7.8 6-24" 8.1				41.9 meq		(65-75) 76.4	(15-20) 20.7	(1-7) 2.4	(0-5) 0.5	(0-5)	

Sol. Salts General Comments: Texture is not estimated on high pH soils.

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 45 K20 = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 59 K20 = 29 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Tip: Click or touc	h the 'X' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or touc	h the button below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
	h in the select boxes (below) to select at least one item from each list. Clic	k X
	ROCKWOOD	
•	one crop is selected, the Yield Variety Data will be returned, but 'Top Variet Varieties by Yield' charts won't be generated.	iesX
	ALFALFA	
elect Varietie	S	
	All Varieties	

42 records returned

196 farm varieties grown on 15,484.0 acres

Average Yield

1.696 Tonnes (**1.869** Tons) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

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Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2008	ROCKWOOD	ALFALFA	NO VAR	19	1,918.0	2.735 Tonnes
+ 2010	ROCKWOOD	ALFALFA	NO VAR	14	1,295.0	2.387 Tonnes
+ 2009	ROCKWOOD	ALFALFA	NO VAR	17	1,481.0	2.103 Tonnes
+ 2012	ROCKWOOD	ALFALFA	NO VAR	13	1,013.0	1.768 Tonnes
+ 2014	ROCKWOOD	ALFALFA	NO VAR	17	1,136.0	1.704 Tonnes
+ 2015	ROCKWOOD	ALFALFA	NO VAR	14	1,022.0	1.624 Tonnes
+ 2011	ROCKWOOD	ALFALFA	NO VAR	13	1,218.0	1.503 Tonnes
+ 2017	ROCKWOOD	ALFALFA	NO VAR	12	843.0	1.425 Tonnes
+ 2016	ROCKWOOD	ALFALFA	NO VAR	15	1,262.0	1.064 Tonnes
+ 2013	ROCKWOOD	ALFALFA	NO VAR	14	1,266.0	0.954 Tonnes
+ 2008	ROCKWOOD	ALFALFA	ALGONQUIN	Below	Minimum	Tolerance



Tip: Click or tou	ch the 'X' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or too	ch the button below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
	ch in the select boxes (below) to select at least one item from each list. Clicl	χX
	ROCKWOOD	
•	n one crop is selected, the Yield Variety Data will be returned, but 'Top Varieti o Varieties by Yield' charts won't be generated.	esX
	BARLEY	
elect Varieti	es	
	All Varieties	

82 records returned

321 farm varieties grown on 64,244.0 acres

Average Yield

1.357 Tonnes (**62.3** Bushels) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

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Showing 1	to 50 of 82 ent	ries		First	Previous	Next Last	
Year	Risk Area / R.M.	Crop	Variety	Farms Acres		Yield/acre (Metric)	
+ 2017	ROCKWOOD	BARLEY	CDC AUSTENSON (TR06389)	4	2,053.0	2.441 Tonnes	
+ 2013	ROCKWOOD	BARLEY	CONLON	8	2,764.0	2.008 Tonnes	
+ 2017	ROCKWOOD	BARLEY	CONLON	4	1,326.0	2.005 Tonnes	
+ 2015	ROCKWOOD	BARLEY	TRADITION (BT 954)	5	500.0	1.762 Tonnes	
+ 2013	ROCKWOOD	BARLEY	CDC AUSTENSON (TR06389)	6	873.0	1.749 Tonnes	
+ 2016	ROCKWOOD	BARLEY	CDC AUSTENSON (TR06389)	8	2,201.0	1.744 Tonnes	
+ 2008	ROCKWOOD	BARLEY	AC METCALFE (TR 232)	8	1,100.0	1.659 Tonnes	
+ 2009	ROCKWOOD	BARLEY	CONLON	14	4,502.0	1.636 Tonnes	
+ 2008	ROCKWOOD	BARLEY	CONLON	19	5,561.0	1.618 Tonnes	



Tip: Click or touc	h the 'X' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or touc	h the button below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
_	h in the select boxes (below) to select at least one item from each list. Clic	k X
	ROCKWOOD	
•	one crop is selected, the Yield Variety Data will be returned, but 'Top Variet	ties×
by Acres' and 'Top	Varieties by Yield' charts won't be generated.	
	ARGENTINE CANOLA	
elect Varietie	S	
	All Varieties	

278 records returned

1,394 farm varieties grown on **278,599.0** acres

Average Yield

0.762 Tonnes (33.6 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)
+ 2013	ROCKWOOD	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	9	2,672.0	1.208 Tonnes
+ 2017	ROCKWOOD	ARGENTINE CANOLA	L233P (BAYER) 5CN0130 (LT)	15	2,831.0	1.202 Tonnes
+ 2017	ROCKWOOD	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	26	5,770.0	1.196 Tonnes
+ 2013	ROCKWOOD	ARGENTINE CANOLA	L130 (INVIGOR) (LT)	18	4,002.0	1.163 Tonnes
+ 2017	ROCKWOOD	ARGENTINE CANOLA	L140P (INVIGOR) (LT)	21	5,931.0	1.148 Tonnes
+ 2013	ROCKWOOD	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	17	3,712.0	1.127 Tonnes
+ 2017	ROCKWOOD	ARGENTINE CANOLA	L230 (BAYER) 5CN0125 (LT)	4	1,724.0	1.097 Tonnes



Select Year Range

IID: Click or touch the 'X'	' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or touch the bu	utton below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
Tip: Click or touch in the or touch the	select boxes (below) to select at least one item from each list. lear all selected items.	Click X
	ROCKWOOD	
elect Crop(s)		
	op is selected, the Yield Variety Data will be returned, but 'Top Va	arieties
Tip: If more than one cro	op is selected, the Yield Variety Data will be returned, but 'Top Va es by Yield' charts won't be generated.	arietiesX
Tip: If more than one cro	· ·	arieties X
Tip: If more than one cro	es by Yield' charts won't be generated.	arieties X

49 records returned

70 farm varieties grown on 10,456.0 acres

Average Yield

3.188 Tonnes (**125.5** Bushels) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

First

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•						
Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2017	ROCKWOOD	GRAIN CORN	MZ 1340DBR (MAIZEX) (RIB)	3	509.0	3.636 Tonnes
+ 2017	ROCKWOOD	GRAIN CORN	P7211HR (PIONEER)	5	1,030.0	3.346 Tonnes
+ 2013	ROCKWOOD	GRAIN CORN	P7443R (PIONEER) (RT)	3	1,010.0	2.785 Tonnes
+ 2008	ROCKWOOD	GRAIN CORN	LR 9875R (LEGEND) (RT)	Below	Minimum	Tolerance
+ 2008	ROCKWOOD	GRAIN CORN	39M26 (PIONEER) (RT)	Below	Minimum	Tolerance
+ 2009	ROCKWOOD	GRAIN CORN	39B64 (PIONEER) (RT)	Below	Minimum	Tolerance
+ 2010	ROCKWOOD	GRAIN CORN	PS 2230 RR (PICKSEED) (RT)	Below	Minimum	Tolerance



Select Year Range

TIP. Click or touch the X	(at right) in these tip balloons to hide them permanently.	×
Tip: Click or touch the bu	utton below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
Tip: Click or touch in the or touch the	e select boxes (below) to select at least one item from each list. Elear all selected items.	Click X
	ROCKWOOD	
elect Crop(s)		
Tin: If more then one ere	on is calcuted the Viold Variety Data will be returned but 'Ton V	oriotico
•	op is selected, the Yield Variety Data will be returned, but 'Top Ves by Yield' charts won't be generated.	arieties X
•		arieties
•	es by Yield' charts won't be generated.	arieties X

69 records returned

281 farm varieties grown on 17,666.0 acres

Average Yield

1.038 Tonnes (**1.144** Tons) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

First

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Showing	1	to	50	Οţ	69	entries
---------	---	----	----	----	----	---------

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2016	ROCKWOOD	GRASSES	NO VAR (TIMOTHY)	8	503.0	1.223 Tonnes
+ 2014	ROCKWOOD	GRASSES	NO VAR (TIMOTHY)	9	583.0	1.145 Tonnes
+ 2014	ROCKWOOD	GRASSES	NO VAR	18	1,325.0	1.097 Tonnes
+ 2010	ROCKWOOD	GRASSES	NO VAR	12	615.0	0.970 Tonnes
+ 2015	ROCKWOOD	GRASSES	NO VAR	18	1,321.0	0.946 Tonnes
+ 2017	ROCKWOOD	GRASSES	NO VAR	14	774.0	0.834 Tonnes
+ 2011	ROCKWOOD	GRASSES	NO VAR	15	1,026.0	0.714 Tonnes
+ 2012	ROCKWOOD	GRASSES	NO VAR	16	1,040.0	0.655 Tonnes
+ 2016	ROCKWOOD	GRASSES	NO VAR	18	1,239.0	0.643 Tonnes
+ 2013	ROCKWOOD	GRASSES	NO VAR	16	1,021.0	0.488 Tonnes
+ 2008	ROCKWOOD	GRASSES	NO VAR	Below	Minimum	Tolerance



Tip: Click or tou	ch the 'X' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or tou	ch the button below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
	ch in the select boxes (below) to select at least one item from each list. Click con to clear all selected items.	×
	ROCKWOOD	
•	one crop is selected, the Yield Variety Data will be returned, but 'Top Varietie Varieties by Yield' charts won't be generated.	s×
	SILAGE CORN	
elect Varietie	es	
	All Varieties	

60 records returned

63 farm varieties grown on 4,581.0 acres

Average Yield

12.670 Tonnes (13.963 Tons) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

First

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Showing	7	to	50	ot	60	entries
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0	9 .		That Trevious		1 1011000	TTCXC Edot	
Y	ear	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+	2008	ROCKWOOD	SILAGE CORN	AMAIZING GRACE (BALDRIDGE)	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	HL 2240 (HYLAND)	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	PICKSEED 2270	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	PIONEER 38B11(BT) (LT)	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	PS2601RR (PICKSEED) (RT)	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	39B94 (PIONEER) (BT) (LT)(RT)	Below	Minimum	Tolerance
+	2008	ROCKWOOD	SILAGE CORN	39F57 (PIONEER) (RT)	Below	Minimum	Tolerance



Select Year Range

TIP. Click or touch the X	' (at right) in these tip balloons to hide them permanently.	×
Tip: Click or touch the bu	utton below to select Municipalities or MASC Risk Areas.	×
	Municipalities	
Tip: Click or touch in the or touch the	select boxes (below) to select at least one item from each list. Elear all selected items.	Click X
	ROCKWOOD	
elect Crop(s)		
Tip: If more than one cro	op is selected, the Yield Variety Data will be returned, but 'Top Va	arietiesX
•	op is selected, the Yield Variety Data will be returned, but 'Top Vaes by Yield' charts won't be generated.	arietiesX
•		arieties
•	es by Yield' charts won't be generated.	arieties

265 records returned

1,089 farm varieties grown on 227,016.0 acres

Average Yield

0.914 Tonnes (**33.6** 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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Showing 1 to 50 of 265 entries

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Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)
+ 2016	ROCKWOOD	SOYBEANS	P008T22R2 (PIONEER) (RT)	4	556.0	1.290 Tonnes
+ 2012	ROCKWOOD	SOYBEANS	TH 32004R2Y (THUNDER) (RT)	6	638.0	1.172 Tonnes
+ 2013	ROCKWOOD	SOYBEANS	VITO R2 (PROGRAIN) (RT)	3	639.0	1.170 Tonnes
+ 2015	ROCKWOOD	SOYBEANS	TH 33005R2Y (THUNDER) (RT)	7	911.0	1.171 Tonnes
+ 2016	ROCKWOOD	SOYBEANS	24-10RY (DEKALB) (RT)	4	1,233.0	1.156 Tonnes
+ 2016	ROCKWOOD	SOYBEANS	NSC RESTON RR2Y (NSGENETICS) (RT)	4	1,033.0	1.151 Tonnes
+ 2015	ROCKWOOD	SOYBEANS	NSC RESTON RR2Y (NSGENETICS) (RT)	5	1,888.0	1.141 Tonnes
+ 2016	ROCKWOOD	SOYBEANS	TH 33005R2Y (THUNDER) (RT)	5	1,157.0	1.127 Tonnes



Tip: Click or touc	th the 'X' (at right) in these tip balloons to hide them permanently.
Tip: Click or touc	h the button below to select Municipalities or MASC Risk Areas.
	Municipalities
_	th in the select boxes (below) to select at least one item from each list. Click 🗙
	ROCKWOOD
•	one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties' Varieties by Yield' charts won't be generated.
	RED SPRING WHEAT
elect Varietie	s
	All Varieties

82 records returned

846 farm varieties grown on 195,440.0 acres

Average Yield

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

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

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

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Showing	7	to	50	Οţ	82	entries
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Year	Risk Area / R.M.	Crop	Variety	Variety Farms		Yield/acre (Metric)
+ 2017	ROCKWOOD	RED SPRING WHEAT	AAC BRANDON (BW 932)	49	19,701.0	2.024 Tonnes
+ 2017	ROCKWOOD	RED SPRING WHEAT	CARDALE (BW429)	15	3,159.0	2.024 Tonnes
+ 2017	ROCKWOOD	RED SPRING WHEAT	AAC ELIE(BW931)	9	1,937.0	1.968 Tonnes
+ 2013	ROCKWOOD	RED SPRING WHEAT	GLENN	15	7,083.0	1.961 Tonnes
+ 2017	ROCKWOOD	RED SPRING WHEAT	CARBERRY (BW874)	7	1,657.0	1.857 Tonnes
+ 2013	ROCKWOOD	RED SPRING WHEAT	CARBERRY (BW874)	47	11,796.0	1.793 Tonnes
+ 2013	ROCKWOOD	RED SPRING WHEAT	KANE (BW342)	16	1,602.0	1.638 Tonnes