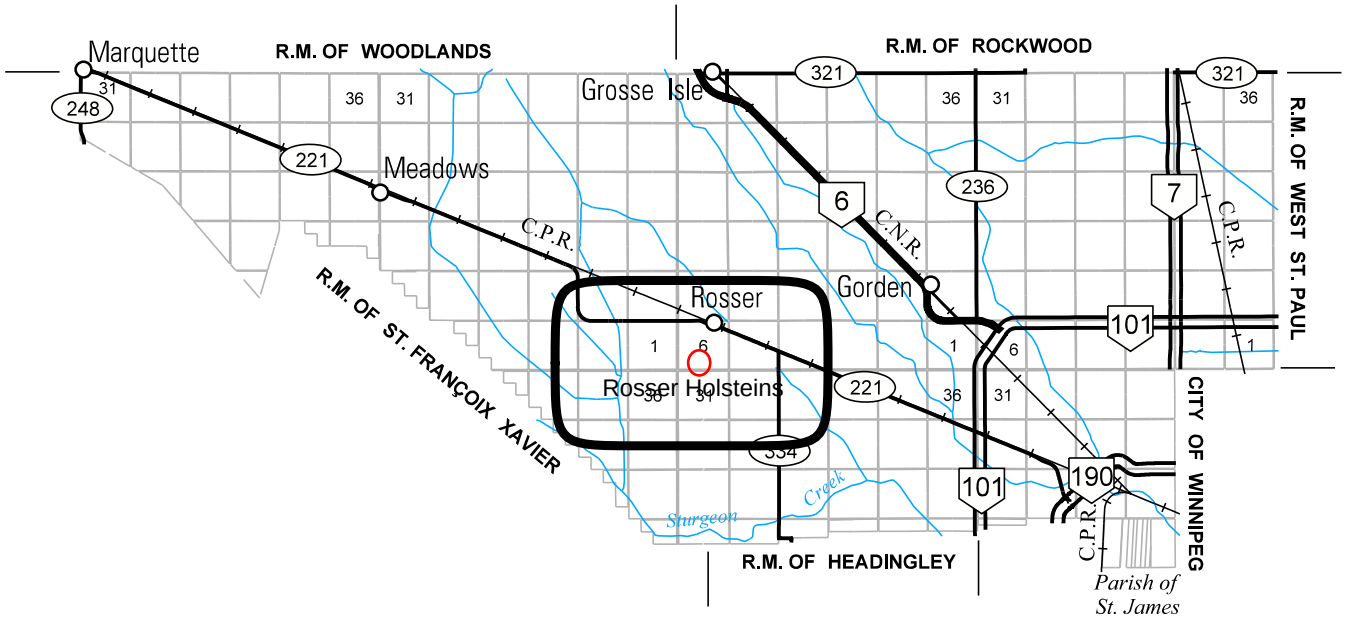
R.M. OF ROSSER

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

LEGEND

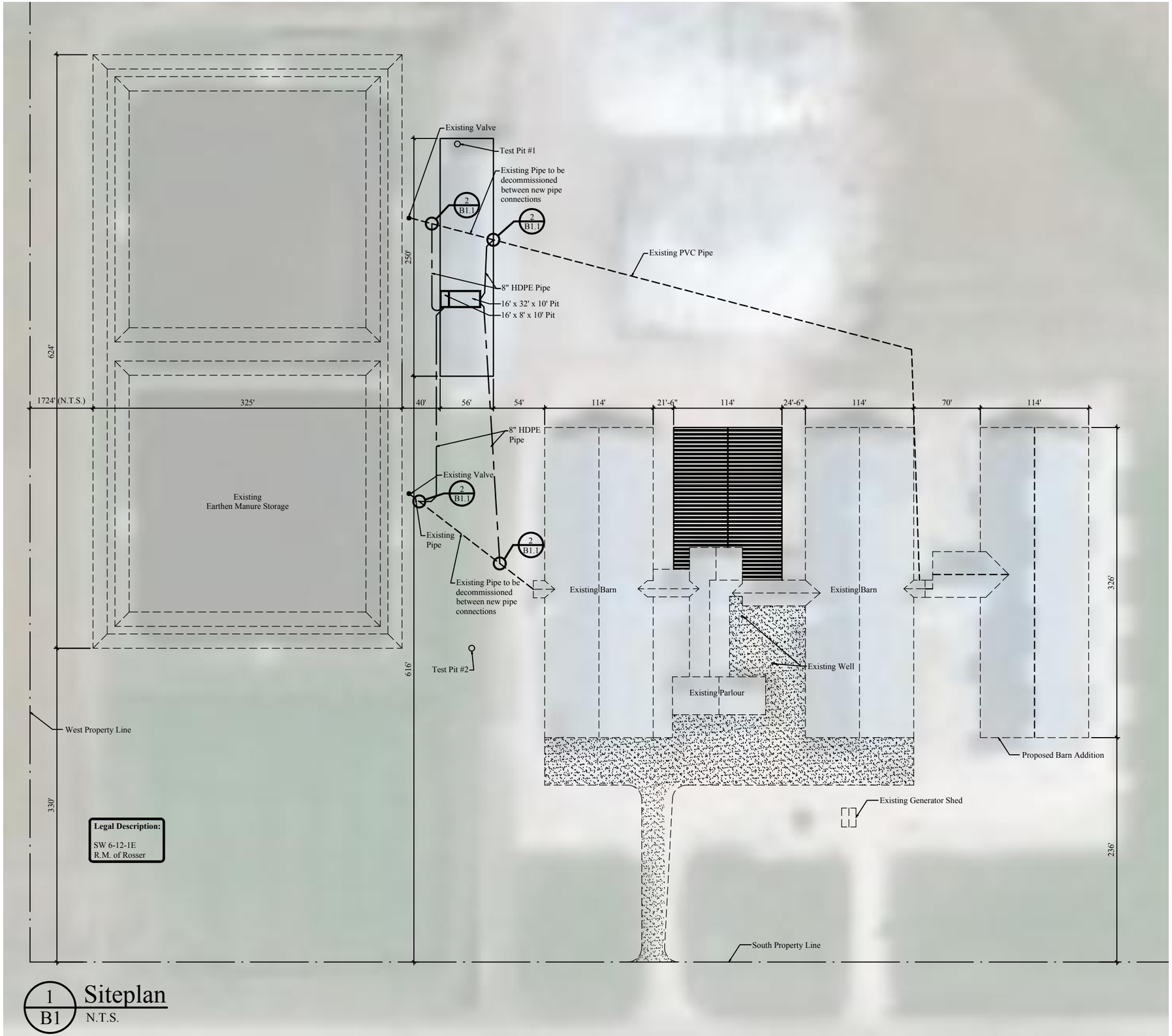
PROVINCIAL TRUNK HIGHWAYS 6
PROVINCIAL ROADS 221
ACCESS ROADS .....
RAILWAYS .....



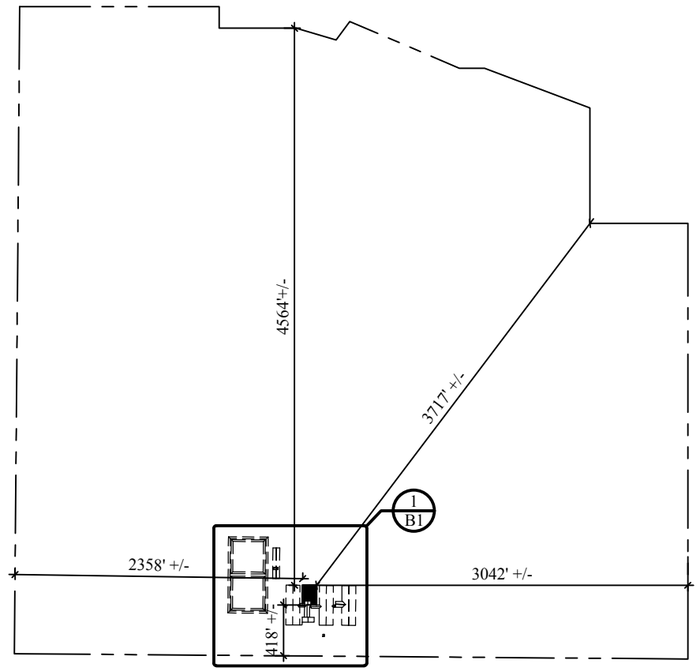
Tp. 12

Tp. 11

Rge. 2W. Rge. 1W. Rge. 1E. Rge. 2E.



1 B1 Siteplan
N.T.S.



2 B1 Key Plan
N.T.S.

North

Penfor Construction
Box 20 Blumenort, Manitoba R0A 0C0
Phone: (204) 326-6313; Fax: (204) 346-1313

Project Name and Address
Rosser Holsteins
Proposed Strawpack Addition
Rosser, MB

Drawing Title
Site Plan

Date	Drawn By	Sheet
Jan. 9, 2018	DD	B1
Scale	Checked By	
as noted	RD	

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	600	1,200	1,000	2,000
	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 weanling (up to 11 lbs)	0.25		-		-
	Sows - farrow to nursery (51 lbs)	0.313		-		-
	Boars (artificial insemination units)	0.2		-		-
	Weanlings, Nursery (11-51 lbs)	0.033		-		-
	Growers / Finishers (51-249 lbs)	0.143		-		-
Chickens	Broilers	0.005		-		-
	Roasters	0.01		-		-
	Layers	0.0083		-		-
	Pullets	0.0033		-		-
	Broiler breeder pullets	0.0033		-		-
	Broiler breeder hens	0.01		-		-
Turkeys	Broilers	0.01		-		-
	Heavy Toms	0.02		-		-
	Heavy Hens	0.01		-		-
Horses	Mares	1.333		-		-
Sheep	Ewes	0.2		-		-
	Feeder lambs	0.063		-		-
Other Livestock	Type:			-		-
	Type:			-		-
			Total Current:	1,200	Total Proposed:	2,000

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

Manitoba

Dairy Barn Water Requirement Estimator*

Enter the following farm data:

Number of lactating/milking cows	1000
Average milk production (litres)	31 **
Parlor or tie stall (P/TS)	P
Collection yard if free stall (Y/N)	y
Plate cooler (Y/N)	y
Milkings per day	3
Plate cooler water reused? (Y/N)	y

Total water needs estimate per day:	
Litres	185350
Imperial gallons	40826
Cubic decametres	0.19

Total water needs estimate per year:	
Litres	67652750
Imperial gallons	14901487
Cubic decametres	67.65

*Calculations are based on Manitoba AVERAGES for

- Feed composition

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	3.5	365	750	958,125.00	5,969,118.8
			Solid	3.4				-	
			Liquid [5]	3.5			0	-	0.0
	Tie Stall		Semi-Solid [5]	3.6				-	0.0
			Solid	3.5				-	
			Liquid [5]	3.6				-	0.0
	Loose Housing - heifers,dry & milking cows		Solid	3.0	2.0	365	1086	792,780.00	See Note sec 8.2
	Milking Parlour Manure and Washwater		Liquid	0.5	0.5	365	800	146,000.00	
Beef	Beef cows including associated livestock	pg 117, FPGs for Hogs 1998	Solid	1.2				-	
	Backgrounder (200 day)		Solid	0.73				-	
	Summer pasture / replacement heifers		Solid	0.85				-	
	Feeder cattle		Solid	1.1				-	
Pigs	Sows - farrow to finish (234 - 254 lbs)	MAFRI website, FPGs for Pigs 2007	Liquid	2.3				-	0.0
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8				-	0.0
	Sows - farrow to nursery (51 lbs)		Liquid	1				-	0.0
	Weanlings, Nursery (11 - 51 lbs)		Liquid	0.1				-	0.0
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25				-	0.0

Animal Type	Type of Operation		Yearly Manure Production		Production Period [2] (Days)	Number of Birds [3] (Capacity)	Total Manure Volume (ft^3) (F/365xGxH)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal)
			Default Manure Production (ft^3/year/bird space)	Operation Manure Production [1] (ft^3/year/bird space)				
Chickens	Broilers – floor [6]	Table 3, pg 85, FPGs for Poultry 2000	1.23				-	
	Broiler breeder hens [7]		2.3				-	
	Broiler breeder pullets [6]		0.99				-	
	Roasters – floor [6]		1.16				-	
	Layers – cage [8]		2.33				-	0.0
	Layers – floor [7]		1.68				-	
	Layers – solid pack [9]						-	
	Pullets – cage [8]		0.71				-	0.0
	Pullets – floor [6]		0.75				-	
	Pullets – solid pack [9]						-	
Turkeys	Broilers [6]	Table 3, pg 85, FPGs for Poultry 2000	2.83				-	
	Heavy toms [6]		5.58				-	
	Heavy hens [6]		3.32				-	

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

Instructions and footnotes:

[1] ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in 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/ft^3

[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/ft^3

[8] Manure removed from barn at 90% moisture content with a density of 59 lb/ft^3

[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 Bottom Dimensions						Storage Capacity (days)
	Width	Length	Depth	Height (Above Grade)	Slope (H:L)		
					Inside	Outside	
Primary	270 ft	270 ft	12 ft	6 ft	3:1	5:1	207
Secondary	270 ft	310 ft	12 ft	6 ft	3:1	5:1	244
Tertiary	ft	ft	ft	ft			
Circular Tank		Diameter	Height	Depth (Above Grade)			
		ft	ft	ft			

Permit/Registration # LM-0035 LM-0681

Manitoba

Rosser Holsteins – Truck Haul Route

Archived: Friday, February 16, 2018 12:09:25 PM
From: Friesen, Chris (SD)
Sent: Mon, 12 Feb 2018 12:33:12
To: 'Gary Plohman'
Subject: RE: rosser holsteins species at risk
Importance: Normal

No concerns regarding impacts to the crayfish provided relevant guidelines/regulations re: spreading near waterways are followed.

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: February-12-18 11:16 AM
To: Friesen, Chris (SD) <Chris.Friesen@gov.mb.ca>
Subject: RE: rosser holsteins species at risk

Thanks Chris
As in the Woodlands proposal manure from this operation will be applied only in late fall after the breeding season.
As far as the crayfish is concerned I assume we would need to abide by appropriate setbacks however I don't see the crayfish listed in the setback table.
Hope this manure handling plan will adequately deal with the identified species. Please advise.
Thanks,
Gary Plohman

From: Friesen, Chris (SD) [mailto:Chris.Friesen@gov.mb.ca]
Sent: Monday, February 12, 2018 10:43 AM
To: 'Gary Plohman'
Subject: RE: rosser holsteins species at risk

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 6-12-1E
Barn Swallow (Hirundo rustica), S4B, SARA: Threatened, COSEWIC: Threatened

SE 6-12-1E
Bobolink (Dolichonyx oryzivorus), S4B, SARA: Threatened, COSEWIC: Threatened

SE 5-12-1E
Calico Crayfish (Orconectes immunis), S3

SW 29-11-1E
Bobolink (Dolichonyx oryzivorus), 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/

From: Gary Plohman [mailto:srossing@mymts.net]
Sent: January-21-18 9:35 AM
To: Friesen, Chris (SD) <Chris.Friesen@gov.mb.ca>
Subject: re: rosser holsteins species at risk

Hi Chris
I am working on a technical review application for Rosser Holsteins located near Rosser, Manitoba. As you know I am required to determine whether any species at risk are present at the building site or manure spread acres. I am hoping that you can provide the necessary information.
A list of manure spread fields involved with this proposed site is attached. I trust this is the information you need.
Thank you.

Gary Plohman
Agra-Gold Consulting
Ph (home) 204 268-3218
Email: srossing@mymts.net

Type	Storage Type	Volatilization	Animal Numbers	Weight In (lb)	Weight Out (lb)	Average Animal Wt (lb)	Days on Feed per Cycle (days)	Number of Cycles per Year	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted per Herd Per Year (lb/yr/herd)
Lactating Cows	Liquid Uncovered Earthen	30%	0	1400	1440	1420	365	1	0	0
Dry Cows	Manure Pack	20%	0	1440	1440	1440	365	1	0	0
Calves, 0-3 months	Manure Pack	20%	0	90	275	183	365	1	0	0
Calves, 4-13 months	Manure Pack	20%	0	275	810	543	365	1	0	0
Replacements, >13 months	Manure Pack	20%	0	810	1250	1030	365	1	0	0
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	1000	n/a	n/a	n/a	n/a	n/a	260767	138377

Last revised August 20, 2014

Crop	Removal P2O5	Removal N	Uptake N	Units	Yield	Units	Acreage	Removal P2O5 (lb)	Removal N (lb)	Uptake N (lb)
Alfalfa	13.8	58	58	lb/ton	4.368	ton/ac	926	55818	234597	234597
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	41.5	bu/ac	292	12603	23388	38656
Corn Grain	0.44	0.97	1.53	lb/bu	128.2	bu/ac	317	17881	39420	62178
Corn Silage	12.7	31.2	31.2	lb/ton	5.58	tons/ac	317	22465	55188	55188
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	120.7	bu/ac	244	7657	18259	31512
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	40.1	bu/ac	341	11486	52919	71105
Sunflower	1.1	2.8		lb/cwt		cwt/ac		-	-	-
Wheat - Spring	0.59	1.5	2.11	lb/bu		bu/ac		-	-	-
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac		-	-	-
						Sub Total	2437	127910	423771	493237
						Estimated Average Removal/Uptake (lb/ac)		52.5	173.9	202.4
						Additional Acres				
						Crop Planned on Additional Acres				
						Total Acreage	2437			

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 (lb/year)	P2O5 (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	260767	138377
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	**260767**	**138377**

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	260767
P2O5	138377
Crop Nutrient Use	**lb/ac**
Nitrogen Uptake	202.4
P2O5 Removal	52.5
Land Base Requirements	**acres**
Acres for Nitrogen Uptake	**1288**
Acres for 2 x P2O5 Removal	**1318**
Acres for 1 x P2O5 Removal	**2636**

CROP ROTATION TABLE

A	B	C	D	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Alfalfa	926	4.368	Ton/acre (dry basis)	MASC: Risk Area / Soil Zone
Oats	244	120.7	Bu/acre	MASC: Risk Area / Soil Zone
Soybeans	341	40.1	Bu/acre	MASC: Risk Area / Soil Zone
Canola	292	41.5	Bu/acre	MASC: Risk Area / Soil Zone
Grain Corn	317	128.2	Bu/acre	MASC: Risk Area / Soil Zone
Silage Corn	317	5.58	Ton/acre (dry basis)	MASC: Risk Area / Soil Zone
	2437			
Total Net Acreage for Manure Application				

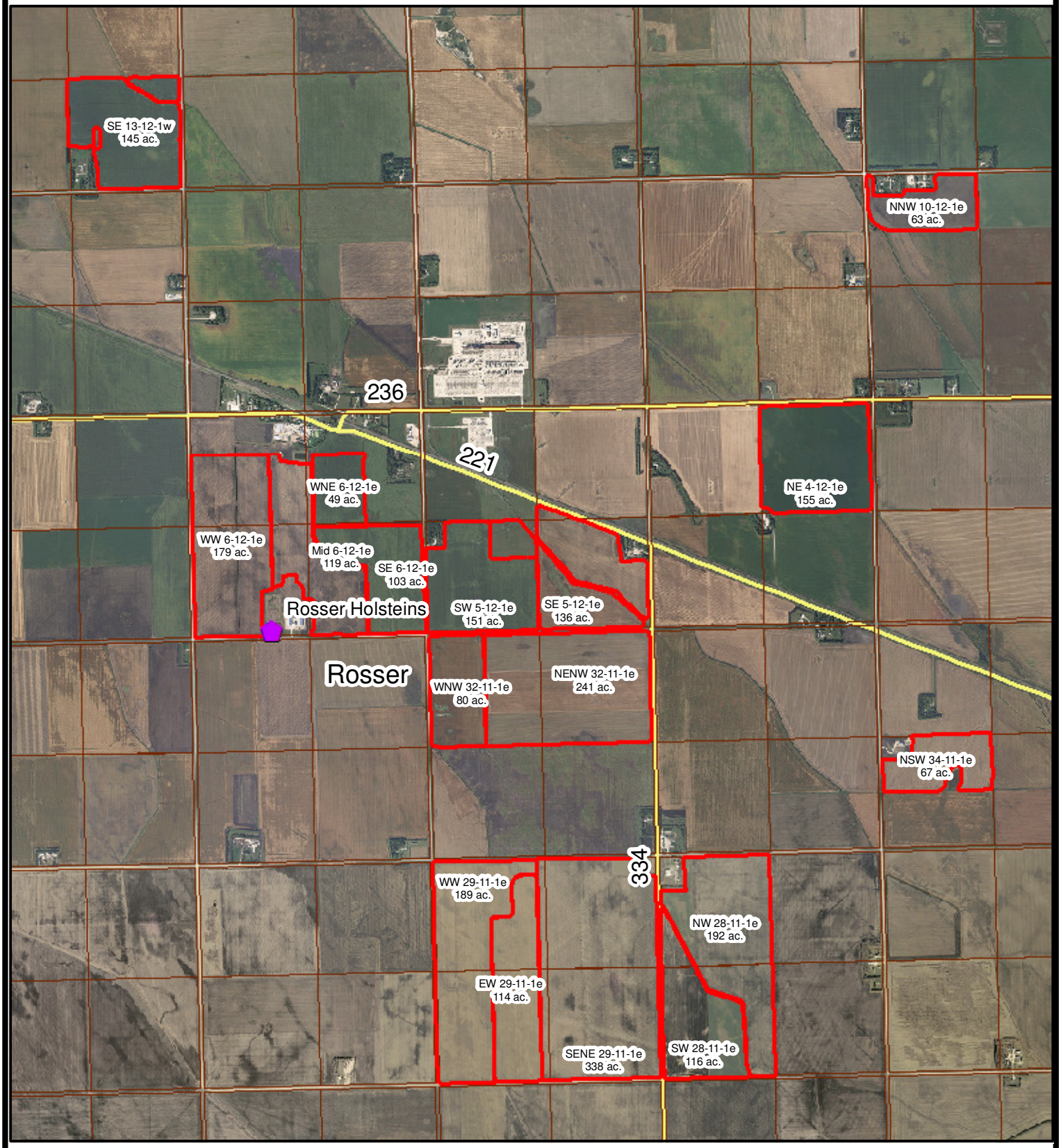
A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.
B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acres will be used to grow canola, enter 288. The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

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

	A	B	C	D	E	F	G	H	I	J
Field	**Legal Description**	**Rural Municipality**	**O/C/L/ A**	**Total Acreage**	**Setbacks, including features**	**Net Acreage for Manure Application**	**Agriculture Capability Class and Subclass**	**Soil Phosphorus (ppm Olsen P) 0-6 inches**	**Development Plan Designation**	**Zoning**
1	WW 6-12-1e	Rosser	O	189		179	2w 3w	33	03 / 10: Agricultural Rural Area	14-15: AL - Agricultural Limited Zone
2	Mid 6-12-1e	Rosser	O	119		119	2w 3w	38	03 / 10: Agricultural Rural Area	14-15: AL - Agricultural Limited Zone
3	SE 6-12-1e	Rosser	O	103		103	2w 3w, 3w 3nw	38	03 / 10: Agricultural Rural Area	14-15: AL - Agricultural Limited Zone
4	WNE 6-12-1e	Rosser	O	49		49	2w 3w	51	03 / 10: Agricultural Rural Area	14-15: AL - Agricultural Limited Zone
5	SW 5-12-1e	Rosser	O	151		151	2w 3w, 3w 3nw	56	03 / 10: Agricultural Rural Area	14-15: AL - Agricultural Limited Zone
6	SE 5-12-1e	Rosser	A	136		136	2w 3w, 3w 3nw	7.8	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
7	NE 4-12-1e	Rosser	O	155		155	2w 3w, 3w 3nw	13	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
8	WNW 32-11-1e	Rosser	A	80		80	3w 3nw, 2w 3w	12	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
9	NENW 32-11-1e	Rosser	A	241		241	2w 3w, 3w 3nw	11	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
10	WW 29-11-1e	Rosser	A	189		189	2w 3w, 3w 3nw	8.8	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
11	EW 29-11-1e	Rosser	A	114		114	2w 3w, 3w 3nw	14	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
12	SENE 29-11-1e	Rosser	A	338		338	2w 3w, 3w 3nw	27	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
13	SW 28-11-1e	Rosser	A	116		116	3w 3nw, 2w 3w	17	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
14	NW 28-11-1e	Rosser	A	192		192	2w 3w, 3w 3nw	28	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
15	NSW 34-11-1e	Rosser	A	67		67	2w 3w	7.1	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
16	NNW 10-12-1e	Rosser	A	63		63	2w, 2w 3w, 3w 3nw	8.1	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
17	SE 13-12-1w	Rosser	O	145		145	2w 3w	29	03 / 10: Agricultural Rural Area	14-15: AG - Agricultural General Zone
18										
19										
20										
					Total Net Acreage for Manure Application:	2437				

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).

Rosser Holsteins Spread Fields



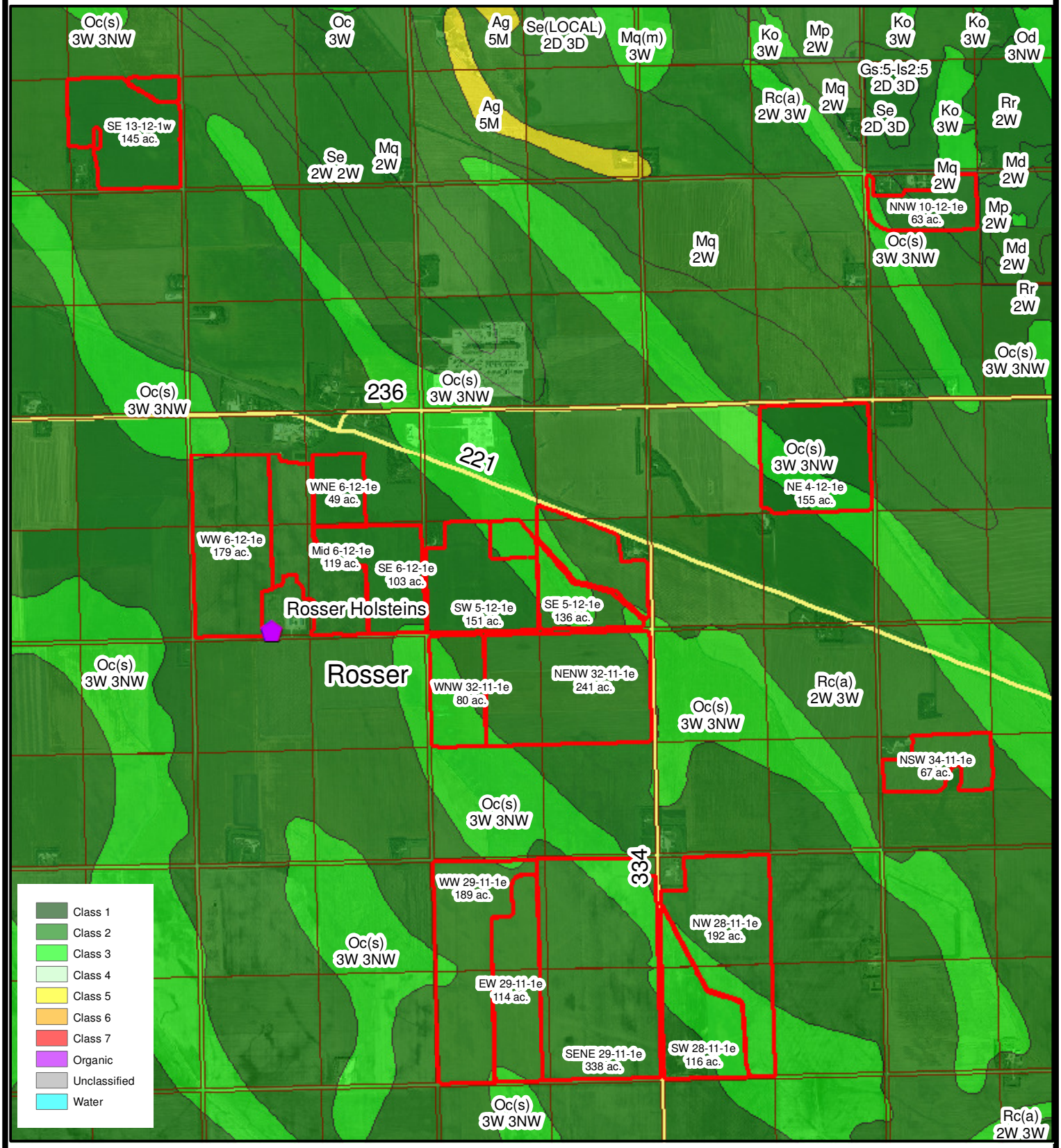
N
W E
S

0 0.3 0.6 1.2 1.8 2.4 Miles

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

AGRA-GOLD Consulting Ltd.

Rosser Holsteins Soils



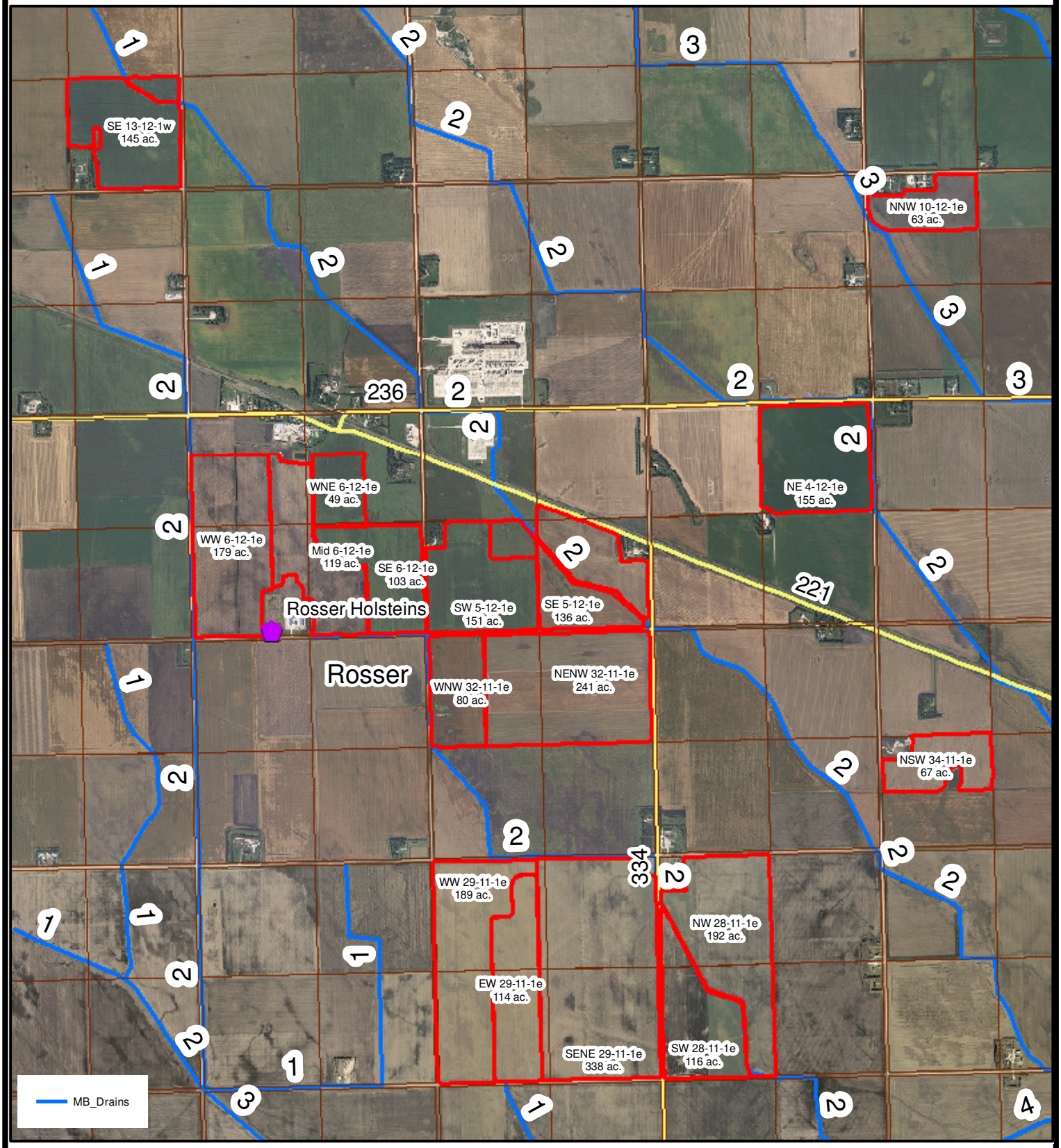
N
W E
S

0 0.3 0.6 1.2 1.8 2.4 Miles

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

AGRA - GOLD Consulting Ltd.

Rosser Holsteins Drains



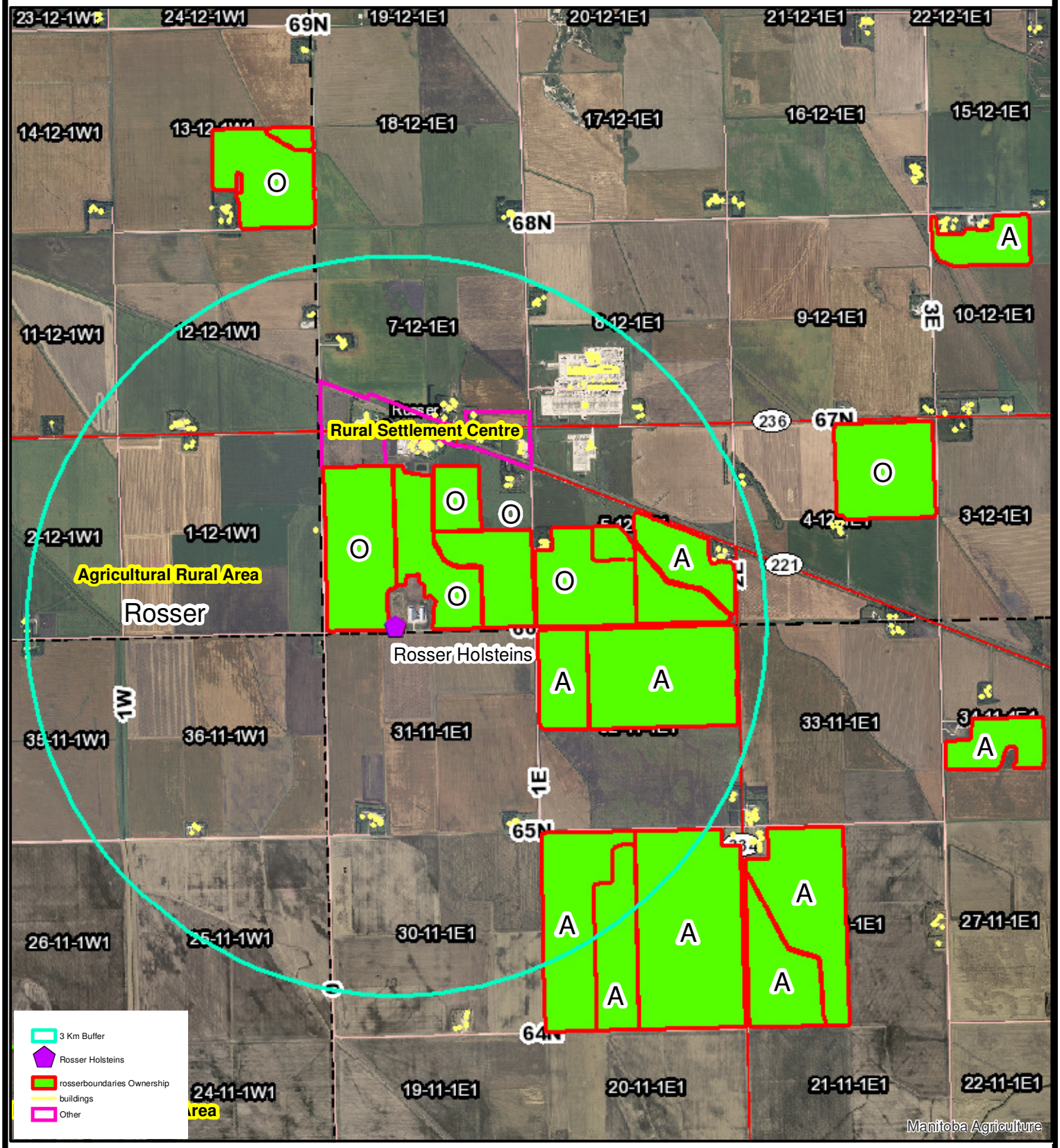
N
W E
S

0 0.3 0.6 1.2 1.8 2.4 Miles

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

AGRA-GOLD Consulting Ltd.

Rosser Holsteins - Land Use Map



N
W E
S

0 0.35 0.7 1.4 2.1 2.8 Miles

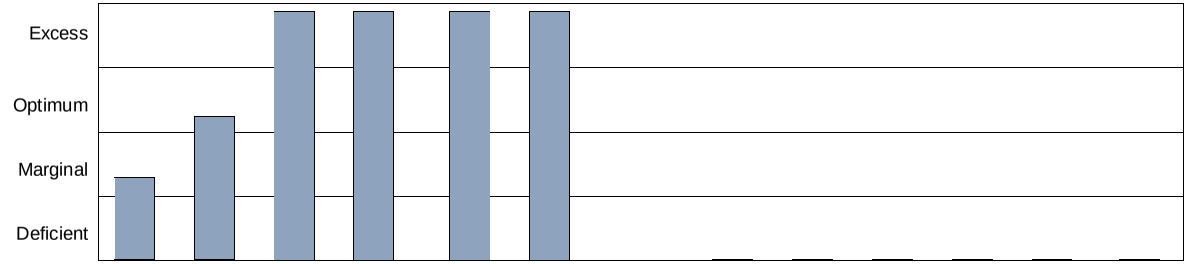
Coordinate System: NAD 1983 UTM Zone 14N
Central Meridian: 99°0'0"W

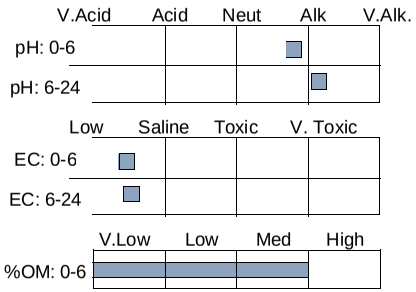
AGRA-GOLD Consulting Ltd.

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_136
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 1	**Received Date**	2017/11/17
		Legal Location:	WW 6-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	200		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_136-01	0-6	17	33.0	510	10	5700	2400	87							7.8	0.87	8.1
171117_136-02	6-24	11			22										8.3	1.02	





	N	P	K	S
0-6 lb/Ac:	34	66	1020	19
6-24 lb/Ac:	66			132
Total lb/Ac measured:	100	66	1020	151
Estimated lb/Ac to 24 inch:	100			151

CEC (meq/100g):	49.8	Ca Base Saturation (%):	57.0	Mg Base Saturation (%):	40.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.6	Na Base Saturation (%):	0.8

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments: PREVIOUS CROP: SOYBEANS

* Bicarbonate-Extractable (Olsen) Phosphate

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MMPP - Fertilizer Data Browser

Select Municipalities or MASC Risk Areas

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

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

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)

ALFALFA ⊗

Select Soil Type(s)

SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

2007 to 2016

Search Summary

19 records returned

47 farm varieties grown on **3,338.0** acres

Average Yield

3.964 Tonnes (**4.368** Tons) per acre

Average Fertilizer Application

Nitrogen: **11.2** lbs per acre
Phosphorus: **40.9** lbs per acre
Potassium: **11.7** lbs per acre
Sulphur: **1.8** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer 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 19 of 19 entries First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2015	RISK AREA 12	ALFALFA	D	5	590.0	4.345 Tons	33.9	49.5	14.3	1.7
2007	RISK AREA 12	ALFALFA	C	Below	Minimum					
2007	RISK AREA 12	ALFALFA	D	Below	Minimum					
2008	RISK AREA 12	ALFALFA	C	Below	Minimum					
2008	RISK AREA 12	ALFALFA	D	Below	Minimum					
2009	RISK AREA 12	ALFALFA	C	Below	Minimum					
2009	RISK AREA 12	ALFALFA	D	Below	Minimum					
2010	RISK AREA 12	ALFALFA	D	Below	Minimum					
2011	RISK AREA 12	ALFALFA	C	Below	Minimum					
2011	RISK AREA 12	ALFALFA	D	Below	Minimum					
2012	RISK AREA 12	ALFALFA	C	Below	Minimum					
2012	RISK AREA 12	ALFALFA	D	Below	Minimum					
2013	RISK AREA 12	ALFALFA	C	Below	Minimum					
2013	RISK AREA 12	ALFALFA	D	Below	Minimum					
2014	RISK AREA 12	ALFALFA	C	Below	Minimum					
2014	RISK AREA 12	ALFALFA	D	Below	Minimum					
2015	RISK AREA 12	ALFALFA	C	Below	Minimum					
2016	RISK AREA 12	ALFALFA	C	Below	Minimum					
2016	RISK AREA 12	ALFALFA	D	Below	Minimum					

Show 50 entries First Previous Next Last

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MMPP - Fertilizer Data Browser

Select Municipalities or MASC Risk Areas

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Risk Areas

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RISK AREA 12 ⊗

Select Crop(s)

GRAIN CORN ⊗

Select Soil Type(s)

SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

2007 to 2016

Search Summary

20 records returned

2,194 farm varieties grown on **436,964.9** acres

Average Yield

3.257 Tonnes (**128.2** Bushels) per acre

Average Fertilizer Application

Nitrogen: **114.7** lbs per acre
Phosphorus: **36.4** lbs per acre
Potassium: **13.3** lbs per acre
Sulphur: **5.0** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer 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 20 of 20 entries First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2016	RISK AREA 12	GRAIN CORN	C	111	26,380.8	160.6 Bushels	133.3	41.6	11.9	8.1
2016	RISK AREA 12	GRAIN CORN	D	122	22,299.0	154.7 Bushels	132.4	46.2	19.8	7.7
2013	RISK AREA 12	GRAIN CORN	D	142	26,165.0	153.7 Bushels	121.7	38.7	14.5	5.4
2015	RISK AREA 12	GRAIN CORN	C	79	16,752.0	149.9 Bushels	132.4	38.6	13.3	8.5
2015	RISK AREA 12	GRAIN CORN	D	99	16,989.0	149.8 Bushels	124.0	42.1	21.7	7.1
2013	RISK AREA 12	GRAIN CORN	C	122	27,048.0	149.0 Bushels	125.0	35.9	11.4	4.9
2012	RISK AREA 12	GRAIN CORN	C	109	25,016.0	136.4 Bushels	120.5	34.5	8.5	3.6
2007	RISK AREA 12	GRAIN CORN	C	106	24,150.0	135.9 Bushels	94.6	31.3	11.7	4.2
2014	RISK AREA 12	GRAIN CORN	C	104	21,285.0	135.0 Bushels	126.5	42.0	13.8	5.9
2010	RISK AREA 12	GRAIN CORN	D	91	15,765.0	134.9 Bushels	105.9	34.4	11.8	4.5
2012	RISK AREA 12	GRAIN CORN	D	134	25,498.0	134.2 Bushels	117.2	37.9	14.3	4.6
2008	RISK AREA 12	GRAIN CORN	C	109	25,430.0	132.8 Bushels	102.2	33.4	12.0	3.8
2007	RISK AREA 12	GRAIN CORN	D	122	20,320.0	132.7 Bushels	90.9	33.7	16.7	4.1
2010	RISK AREA 12	GRAIN CORN	C	96	20,743.0	132.1 Bushels	110.9	32.0	7.2	3.4
2008	RISK AREA 12	GRAIN CORN	D	123	23,188.0	130.7 Bushels	98.5	34.8	14.8	4.0

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2014	RISK AREA 12	GRAIN CORN	D	113	21,584.0	129.0 Bushels	123.4	40.8	18.6	7.3
2011	RISK AREA 12	GRAIN CORN	D	117	21,329.0	110.1 Bushels	112.5	33.5	13.3	3.3
2011	RISK AREA 12	GRAIN CORN	C	94	19,529.1	108.1 Bushels	112.3	31.9	8.6	3.8
2009	RISK AREA 12	GRAIN CORN	D	107	17,146.0	30.3 Bushels	103.6	32.5	13.6	3.5
2009	RISK AREA 12	GRAIN CORN	C	94	20,348.0	24.9 Bushels	101.6	31.0	9.4	3.7

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MMPP - Fertilizer Data Browser

Select Municipalities or MASC Risk Areas

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

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

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)

SILAGE CORN ⊗

Select Soil Type(s)

SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

1993 1998 2003 2008 2012

2007 to 2016

Search Summary

16 records returned

53 farm varieties grown on **2,732.0** acres

Average Yield

14.468 Tonnes (**15.944** Tons) per acre

Average Fertilizer Application

Nitrogen: **98.0** lbs per acre
Phosphorus: **25.3** lbs per acre
Potassium: **14.4** lbs per acre
Sulphur: **1.8** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer 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 16 of 16 entries First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2011	RISK AREA 12	SILAGE CORN	D	10	529.0	7.813 Tons	90.1	3.6	18.9	2.6
2007	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2008	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2008	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2009	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2009	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2010	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2010	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2011	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2012	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2012	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2013	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2014	RISK AREA 12	SILAGE CORN	D	Below	Minimum					
2015	RISK AREA 12	SILAGE CORN	C	Below	Minimum					
2015	RISK AREA 12	SILAGE CORN	D	Below	Minimum					

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MMPP - Fertilizer Data Browser

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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)

ARGENTINE CANOLA ⊗

Select Soil Type(s)

SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

1993 1998 2003 2008 2012

2007 to 2016

Search Summary

20 records returned

3,257 farm varieties grown on **625,239.3** acres

Average Yield

0.940 Tonnes (**41.5** Bushels) per acre

Average Fertilizer Application

Nitrogen: **112.2** lbs per acre
Phosphorus: **33.6** lbs per acre
Potassium: **5.1** lbs per acre
Sulphur: **12.0** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer Data

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Showing 1 to 20 of 20 entries First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2014	RISK AREA 12	ARGENTINE CANOLA	C	153	28,577.0	51.1 Bushels	119.1	36.9	5.9	13.3
2014	RISK AREA 12	ARGENTINE CANOLA	D	138	24,328.0	49.8 Bushels	119.6	37.6	7.3	13.4
2013	RISK AREA 12	ARGENTINE CANOLA	C	172	31,472.0	49.3 Bushels	118.0	33.6	4.2	12.3
2008	RISK AREA 12	ARGENTINE CANOLA	C	162	30,481.0	48.2 Bushels	106.2	33.1	5.2	10.8
2013	RISK AREA 12	ARGENTINE CANOLA	D	164	29,602.5	47.5 Bushels	113.6	34.8	5.6	13.5
2008	RISK AREA 12	ARGENTINE CANOLA	D	152	25,619.0	46.9 Bushels	101.1	31.2	5.1	11.1
2015	RISK AREA 12	ARGENTINE CANOLA	C	159	31,804.0	45.1 Bushels	125.6	38.2	6.1	13.5
2009	RISK AREA 12	ARGENTINE CANOLA	D	178	34,981.0	43.8 Bushels	100.8	30.9	3.4	11.0
2015	RISK AREA 12	ARGENTINE CANOLA	D	138	25,990.0	43.8 Bushels	118.7	39.9	8.0	14.8
2010	RISK AREA 12	ARGENTINE CANOLA	D	174	32,581.0	43.4 Bushels	109.1	32.5	4.7	12.0
2009	RISK AREA 12	ARGENTINE CANOLA	C	186	37,929.0	41.7 Bushels	105.8	29.6	3.4	10.1
2010	RISK AREA 12	ARGENTINE CANOLA	C	192	40,011.6	38.9 Bushels	111.1	31.2	3.5	11.8
2016	RISK AREA 12	ARGENTINE CANOLA	D	135	26,375.0	38.7 Bushels	120.2	38.8	5.3	14.3
2007	RISK AREA 12	ARGENTINE CANOLA	C	160	26,714.0	38.3 Bushels	104.1	31.1	5.7	10.0
2007	RISK AREA 12	ARGENTINE CANOLA	D	149	23,296.0	37.2 Bushels	97.4	31.1	3.8	10.4

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2016	RISK AREA 12	ARGENTINE CANOLA	C	128	24,522.0	36.4 Bushels	122.6	36.6	6.3	13.7
2011	RISK AREA 12	ARGENTINE CANOLA	D	204	44,320.2	36.3 Bushels	110.2	32.4	6.0	12.3
2011	RISK AREA 12	ARGENTINE CANOLA	C	197	45,700.0	33.8 Bushels	113.9	31.7	3.9	10.4
2012	RISK AREA 12	ARGENTINE CANOLA	C	157	31,355.0	33.1 Bushels	113.8	32.3	4.8	11.7
2012	RISK AREA 12	ARGENTINE CANOLA	D	159	29,581.0	32.6 Bushels	115.7	34.3	5.2	12.3

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MMPP - Fertilizer Data Browser

Select Municipalities or MASC Risk Areas

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Risk Areas

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RISK AREA 12 ⊗

Select Crop(s)

OATS ⊗

Select Soil Type(s)

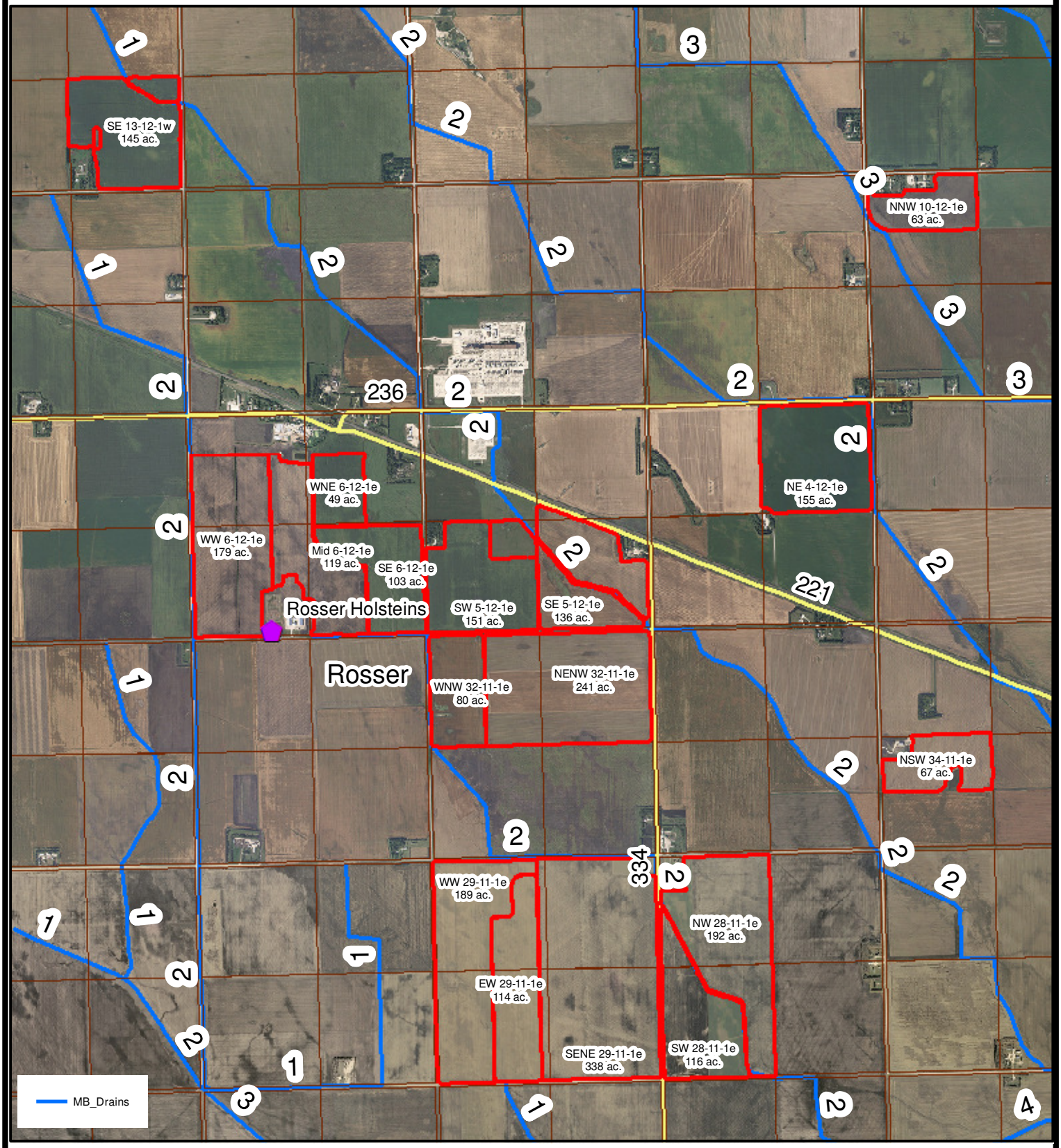
SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

1993 1998 2003 2008 2012

2007 to 2016

Rosser Holsteins Drains



N
W E
S

0 0.3 0.6 1.2 1.8 2.4 Miles

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

AGRA-GOLD Consulting Ltd.

Search Summary

20 records returned

692 farm varieties grown on **111,122.7** acres

Average Yield

1.862 Tonnes (**120.7** Bushels) per acre

Average Fertilizer Application

Nitrogen: **76.3** lbs per acre
Phosphorus: **30.4** lbs per acre
Potassium: **7.8** lbs per acre
Sulphur: **2.7** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer 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 20 of 20 entries

First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2014	RISK AREA 12	OATS	C	25	4,352.0	138.9 Bushels	89.2	28.0	9.0	6.7
2016	RISK AREA 12	OATS	D	18	3,391.0	135.8 Bushels	91.1	38.9	10.9	2.1
2016	RISK AREA 12	OATS	C	25	4,339.0	135.6 Bushels	77.4	40.2	13.0	6.3
2014	RISK AREA 12	OATS	D	30	4,925.5	134.0 Bushels	87.9	29.6	9.3	5.2
2015	RISK AREA 12	OATS	D	32	4,934.0	132.8 Bushels	91.1	32.7	11.7	3.9
2013	RISK AREA 12	OATS	C	26	3,976.0	132.7 Bushels	84.2	34.4	7.9	5.4
2008	RISK AREA 12	OATS	C	44	8,363.0	131.7 Bushels	68.2	30.2	7.5	2.5
2013	RISK AREA 12	OATS	D	26	4,442.0	131.0 Bushels	77.3	30.8	11.0	4.3
2009	RISK AREA 12	OATS	C	27	4,907.0	130.0 Bushels	64.4	28.1	8.8	3.0
2015	RISK AREA 12	OATS	C	33	6,446.0	129.9 Bushels	89.7	36.9	9.0	3.3
2008	RISK AREA 12	OATS	D	45	5,685.0	119.2 Bushels	65.0	27.9	4.9	0.0
2012	RISK AREA 12	OATS	D	22	2,880.0	118.6 Bushels	77.0	26.8	4.7	3.0
2009	RISK AREA 12	OATS	D	21	2,620.0	118.4 Bushels	65.3	27.0	5.2	0.0
2010	RISK AREA 12	OATS	D	28	4,560.0	118.0 Bushels	69.6	27.9	8.3	0.7
2007	RISK AREA 12	OATS	D	59	7,727.0	114.3 Bushels	61.0	26.6	6.8	0.2
2007	RISK AREA 12	OATS	C	76	12,574.0	113.6 Bushels	70.0	28.6	6.7	1.5
2012	RISK AREA 12	OATS	C	36	5,557.1	111.9 Bushels	82.0	29.4	6.2	1.6
2010	RISK AREA 12	OATS	C	41	7,017.0	110.3 Bushels	79.1	28.4	5.7	2.8
2011	RISK AREA 12	OATS	D	36	5,084.1	100.6 Bushels	77.1	30.7	5.8	1.9
2011	RISK AREA 12	OATS	C	42	7,343.0	91.7 Bushels	79.6	30.6	7.7	3.6

Show 50 entries

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MASC
Manitoba Agricultural Services Corporation

MMPP - Fertilizer Data Browser

Select Municipalities or MASC Risk Areas

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

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

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)

SOYBEANS ⊗

Select Soil Type(s)

SOIL TYPE C, SOIL TYPE D ⊗

Select Year Range

1993 1998 2003 2008 2012

2007 to 2016

Search Summary

20 records returned

1,186 farm varieties grown on **202,611.0** acres

Average Yield

1.090 Tonnes (**40.1** Bushels) per acre

Average Fertilizer Application

Nitrogen: **6.2** lbs per acre
Phosphorus: **32.3** lbs per acre
Potassium: **4.8** lbs per acre
Sulphur: **1.7** lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

Fertilizer 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 20 of 20 entries

First Previous Next Last

Year	Risk Area / R.M.	Crop	Soil	Farms	Acres	Yield/acre (Imperial)	Nitrogen (lbs)	Phosphorus (lbs)	Potassium (lbs)	Sulphur (lbs)
2016	RISK AREA 12	SOYBEANS	C	105	20,433.0	46.3 Bushels	7.5	34.6	4.9	3.3
2007	RISK AREA 12	SOYBEANS	C	23	2,734.0	44.5 Bushels	14.0	23.9	4.9	2.0
2013	RISK AREA 12	SOYBEANS	C	72	14,210.0	43.5 Bushels	6.0	32.4	1.5	0.9
2013	RISK AREA 12	SOYBEANS	D	63	10,287.0	43.5 Bushels	5.5	32.7	4.8	1.7
2007	RISK AREA 12	SOYBEANS	D	20	2,009.0	43.0 Bushels	12.4	27.7	3.2	1.3
2016	RISK AREA 12	SOYBEANS	D	103	18,776.0	42.9 Bushels	5.1	38.3	4.3	1.8
2010	RISK AREA 12	SOYBEANS	C	38	6,406.0	40.3 Bushels	9.1	25.3	1.8	1.2
2015	RISK AREA 12	SOYBEANS	D	105	18,090.0	39.4 Bushels	2.7	37.8	10.8	1.2
2014	RISK AREA 12	SOYBEANS	C	108	22,812.0	39.0 Bushels	4.0	34.3	4.9	1.3
2010	RISK AREA 12	SOYBEANS	D	43	7,240.0	38.9 Bushels	6.9	24.7	1.8	0.9
2014	RISK AREA 12	SOYBEANS	D	93	16,441.0	38.9 Bushels	5.2	35.7	6.7	3.0
2015	RISK AREA 12	SOYBEANS	C	106	19,924.0	38.9 Bushels	4.3	34.8	5.6	1.6
2012	RISK AREA 12	SOYBEANS	C	47	7,442.0	38.6 Bushels	10.2	26.8	2.9	0.5
2009	RISK AREA 12	SOYBEANS	C	23	3,136.0	38.1 Bushels	11.6	24.0	2.1	1.5
2012	RISK AREA 12	SOYBEANS	D	63	9,071.0	36.8 Bushels	3.9	29.1	3.4	1.4
2009	RISK AREA 12	SOYBEANS	D	26	3,643.0	35.0 Bushels	11.9	22.7	2.4	1.8
2008	RISK AREA 12	SOYBEANS	C	35	4,705.0	33.9 Bushels	10.5	25.1	2.9	3.4
2011	RISK AREA 12	SOYBEANS	D	45	5,033.0	33.6 Bushels	6.3	27.7	4.3	2.6
2011	RISK AREA 12	SOYBEANS	C	33	5,033.0	33.2 Bushels	11.9	23.3	0.8	1.1
2008	RISK AREA 12	SOYBEANS	D	35	5,186.0	32.8 Bushels	9.1	23.5	6.3	0.3

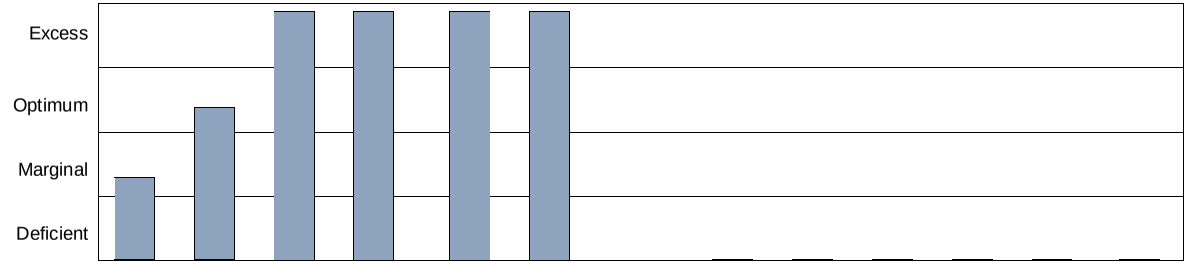
Show 50 entries

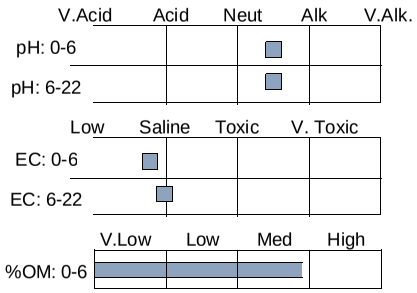
First Previous Next Last

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_125
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 2	**Received Date**	2017/11/17
		Legal Location:	MID 6-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	120		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_125-01	0-6	18	38.0	570	250	4700	2800	260							7.5	1.53	7.6
171117_125-02	6-22	12			140										7.5	1.96	





	N	P	K	S
0-6 lb/Ac:	36	76	1140	500
6-22 lb/Ac:	64			747
Total lb/Ac measured:	100	76	1140	1247
Estimated lb/Ac to 24 inch:	107			1313

CEC (meq/100g):	48.9	Ca Base Saturation (%):	48.0	Mg Base Saturation (%):	47.0
Base Saturation (%):	100.0	K Base Saturation (%):	3.0	Na Base Saturation (%):	2.3

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

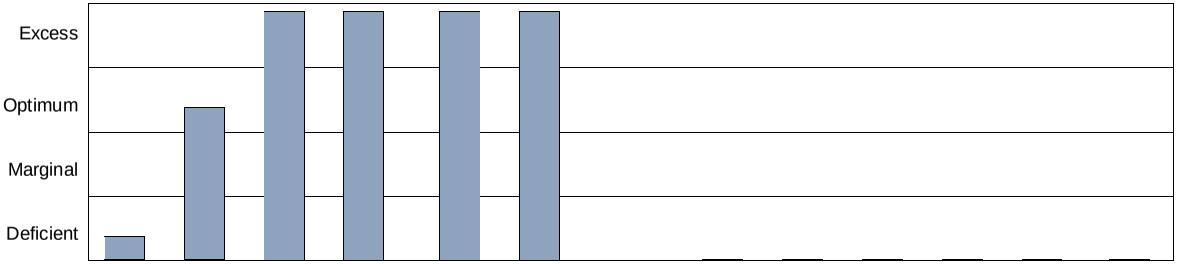
Comments: PREVIOUS CROP: SOYBEANS

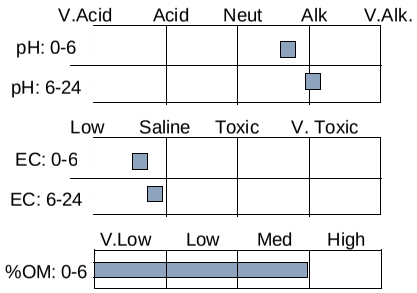
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_126
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 3	**Received Date**	2017/11/17
		Legal Location:	ESE 6-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	103		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_126-01	0-6	9	38.0	520	22	5300	2300	140							7.7	1.24	7.9
171117_126-02	6-24	2			100										8.1	1.68	





	N	P	K	S
0-6 lb/Ac:	19	76	1040	44
6-24 lb/Ac:	10			600
Total lb/Ac measured:	29	76	1040	644
Estimated lb/Ac to 24 inch:	29			644

CEC (meq/100g):	47.3	Ca Base Saturation (%):	56.0	Mg Base Saturation (%):	40.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.8	Na Base Saturation (%):	1.3

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

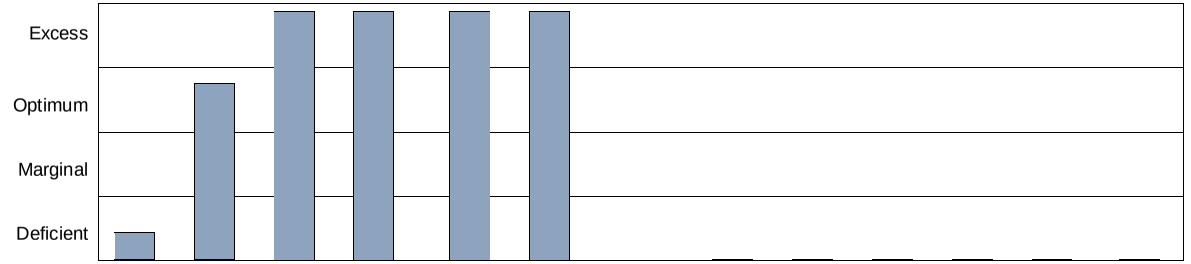
Comments: PREVIOUS CROP: ALFALFA

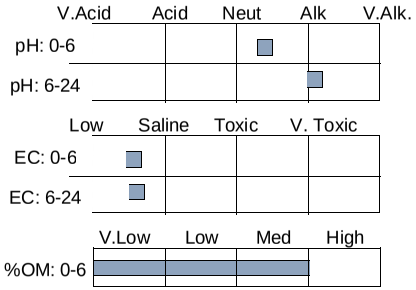
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_127
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 4	**Received Date**	2017/11/17
		Legal Location:	WNE 6-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	60		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_127-01	0-6	12	51.0	580	19	4400	2000	82							7.4	1.08	9.3
171117_127-02	6-24	2			39										8.2	1.17	





	N	P	K	S
0-6 lb/Ac:	24	102	1160	38
6-24 lb/Ac:	10			234
Total lb/Ac measured:	34	102	1160	272
Estimated lb/Ac to 24 inch:	34			272

CEC (meq/100g):	40.8	Ca Base Saturation (%):	54.0	Mg Base Saturation (%):	41.0
Base Saturation (%):	100.0	K Base Saturation (%):	3.7	Na Base Saturation (%):	0.9

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

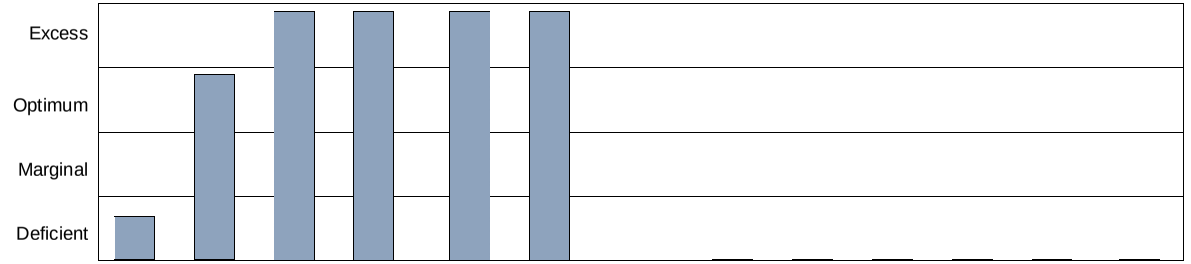
Comments: PREVIOUS CROP: ALFALFA

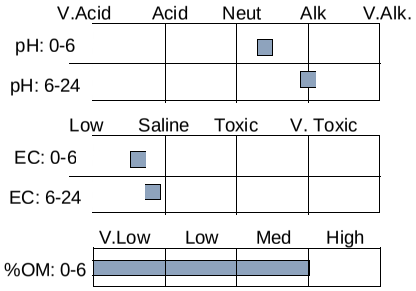
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_134
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 5	**Received Date**	2017/11/17
		Legal Location:	SW 5-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	151		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_134-01	0-6	20	56.0	750	22	5200	2000	70							7.4	1.21	9.7
171117_134-02	6-24	2			78										8.0	1.66	





	N	P	K	S
0-6 lb/Ac:	40	112	1500	44
6-24 lb/Ac:	13			468
Total lb/Ac measured:	53	112	1500	512
Estimated lb/Ac to 24 inch:	53			512

CEC (meq/100g):	44.5	Ca Base Saturation (%):	58.0	Mg Base Saturation (%):	37.0
Base Saturation (%):	100.0	K Base Saturation (%):	4.3	Na Base Saturation (%):	0.7

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

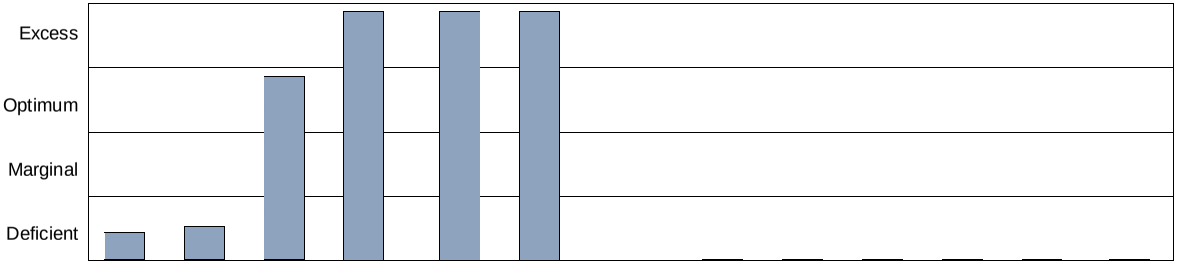
Comments: PREVIOUS CROP: ALFALFA

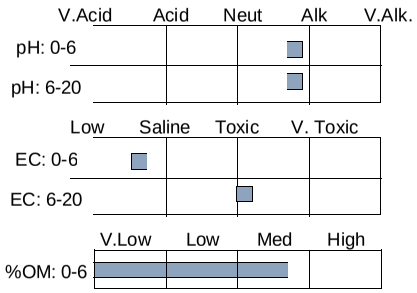
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_133
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 6	**Received Date**	2017/11/17
		Legal Location:	SE 5-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	137		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_133-01	0-6	14	7.8	450	16	5500	2500	180							7.8	1.21	6.8
171117_133-02	6-20	1			1200										7.8	4.38	





	N	P	K	S
0-6 lb/Ac:	28	16	900	32
6-20 lb/Ac:	5			5600
Total lb/Ac measured:	33	16	900	5632
Estimated lb/Ac to 24 inch:	38			6225

CEC (meq/100g):	49.4	Ca Base Saturation (%):	55.0	Mg Base Saturation (%):	41.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.3	Na Base Saturation (%):	1.6

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

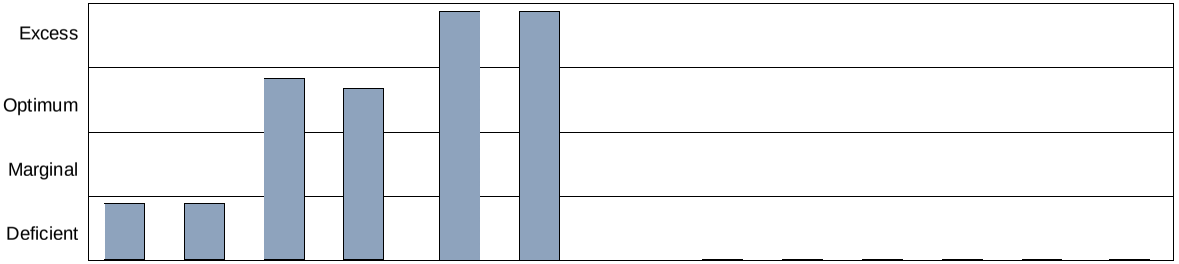
Comments: PREVIOUS CROP: ALFALFA

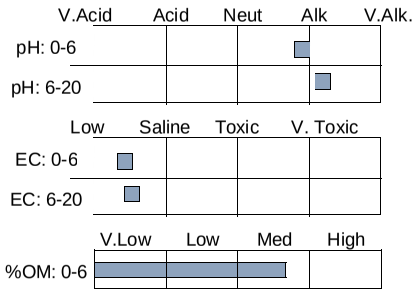
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_114
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 7	**Received Date**	2017/11/17
		Legal Location:	NE 4-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	154		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_114-01	0-6	27	13.0	440	6	5400	2500	98							7.9	0.79	6.7
171117_114-02	6-20	3			11										8.4	1.01	





	N	P	K	S
0-6 lb/Ac:	54	26	880	12
6-20 lb/Ac:	15			51
Total lb/Ac measured:	69	26	880	63
Estimated lb/Ac to 24 inch:	79			70

CEC (meq/100g):	49.5	Ca Base Saturation (%):	55.0	Mg Base Saturation (%):	42.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.3	Na Base Saturation (%):	0.9

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

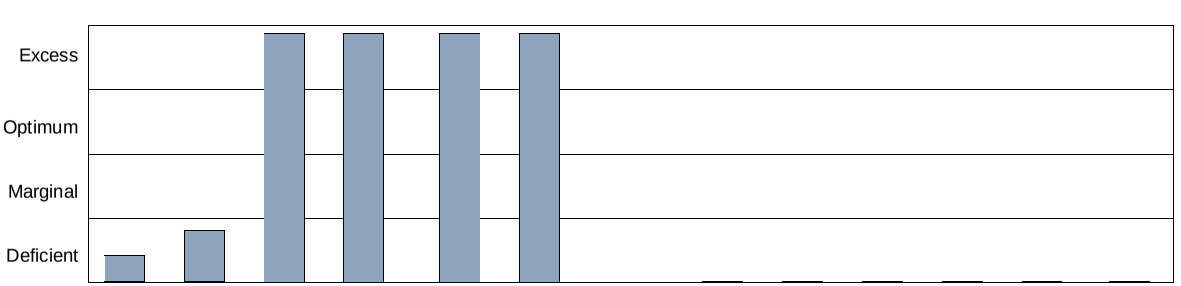
Comments: PREVIOUS CROP: CORN

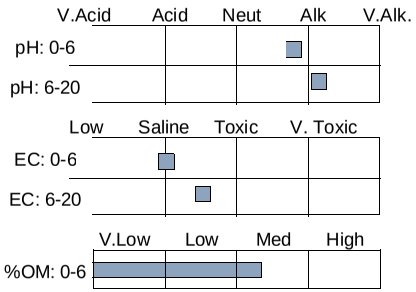
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_121
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 8	**Received Date**	2017/11/17
		Legal Location:	WNW 32-11-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	79		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_121-01	0-6	11	12.0	570	160	5100	2900	300							7.8	2.04	5.4
171117_121-02	6-20	2			210										8.3	3.06	





	N	P	K	S
0-6 lb/Ac:	22	24	1140	320
6-20 lb/Ac:	10			980
Total lb/Ac measured:	32	24	1140	1300
Estimated lb/Ac to 24 inch:	36			1437

CEC (meq/100g):	52.1	Ca Base Saturation (%):	49.0	Mg Base Saturation (%):	46.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.8	Na Base Saturation (%):	2.5

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

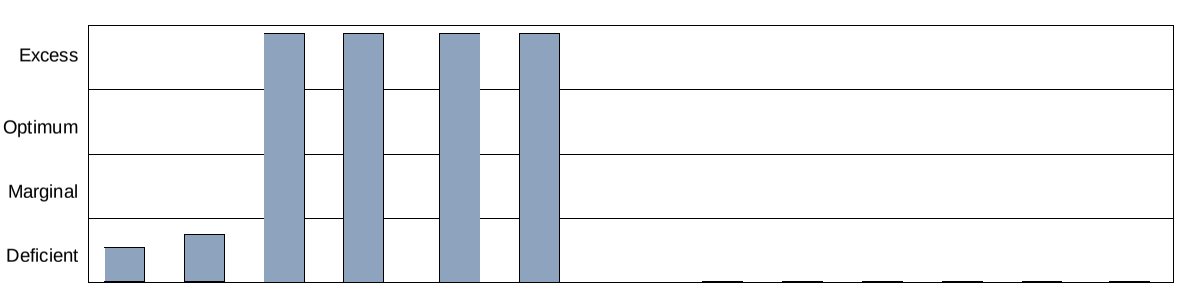
Comments: PREVIOUS CROP: SOYBEANS

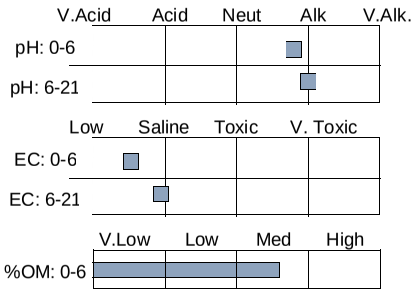
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_118
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 9	**Received Date**	2017/11/17
		Legal Location:	NE ENW 32-11-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	242		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_118-01	0-6	16	11.0	590	21	6000	2300	98							7.8	1.00	6.4
171117_118-02	6-21	2			250										8.0	1.89	





	N	P	K	S
0-6 lb/Ac:	32	22	1180	42
6-21 lb/Ac:	11			1250
Total lb/Ac measured:	42	22	1180	1292
Estimated lb/Ac to 24 inch:	46			1394

CEC (meq/100g):	50.9	Ca Base Saturation (%):	59.0	Mg Base Saturation (%):	37.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.9	Na Base Saturation (%):	0.8

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

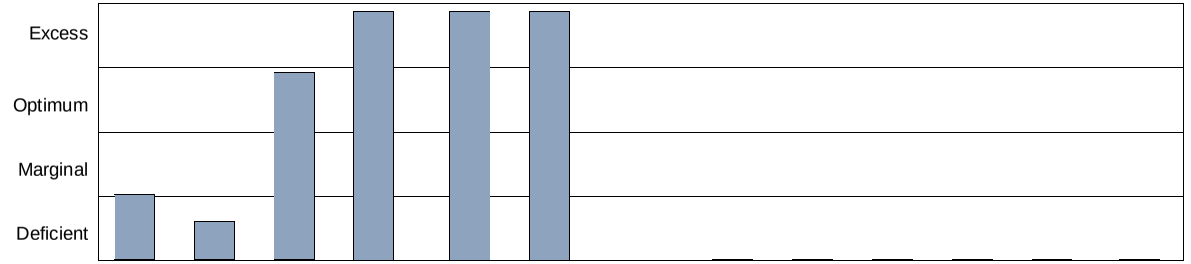
Comments:

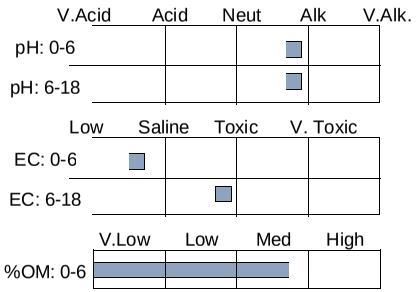
* Bicarbonate-Extractable (Olsen) Phosphate

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

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_122
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 10	**Received Date**	2017/11/17
		Legal Location:	WW 29-11-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	189		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_122-01	0-6	28	8.8	470	27	5600	2800	300							7.8	1.18	6.9
171117_122-02	6-18	6			860										7.8	3.64	





	N	P	K	S
0-6 lb/Ac:	56	18	940	54
6-18 lb/Ac:	25			3440
Total lb/Ac measured:	81	18	940	3494
Estimated lb/Ac to 24 inch:	98			4046

CEC (meq/100g):	53.7	Ca Base Saturation (%):	52.0	Mg Base Saturation (%):	43.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.2	Na Base Saturation (%):	2.4

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments:

* Bicarbonate-Extractable (Olsen) Phosphate

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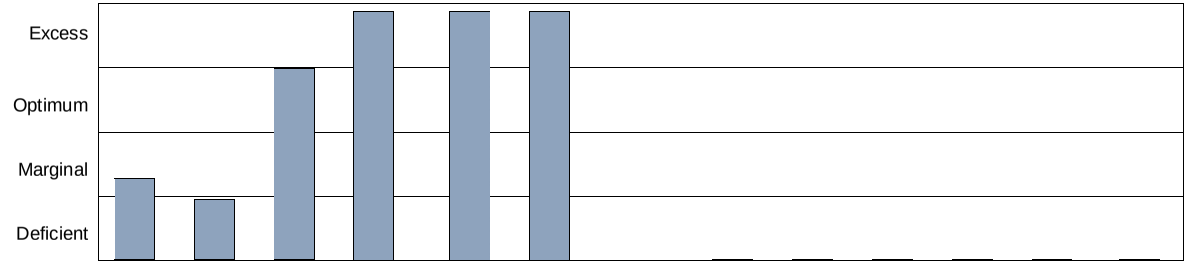
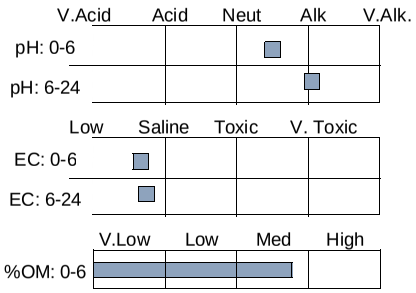
Winnipeg, Manitoba Canada
R2J 0H3
Phone: 1 204 233 4099

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_119
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 11	**Received Date**	2017/11/17
		Legal Location:	EW 29-11-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	113		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_119-01	0-6	25	14.0	490	11	5100	2700	190							7.5	1.29	7.1
171117_119-02	6-24	8			45										8.1	1.46	





	N	P	K	S
0-6 lb/Ac:	50	28	980	22
6-24 lb/Ac:	49			270
Total lb/Ac measured:	99	28	980	292
Estimated lb/Ac to 24 inch:	99			292

CEC (meq/100g):	50.2	Ca Base Saturation (%):	51.0	Mg Base Saturation (%):	45.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.5	Na Base Saturation (%):	1.6

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments: PREVIOUS CROP: CORN

* Bicarbonate-Extractable (Olsen) Phosphate

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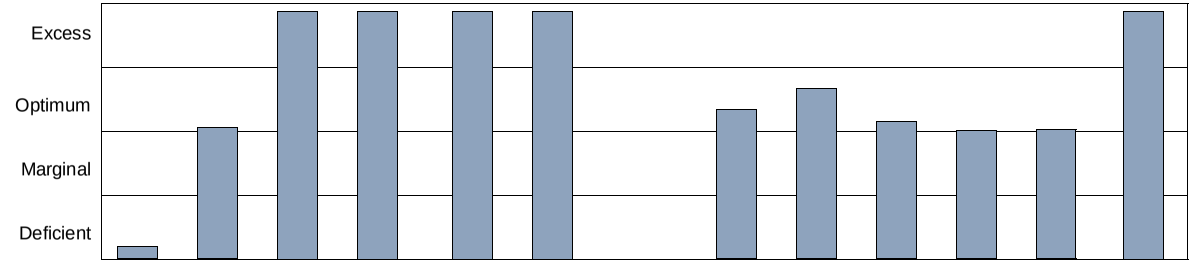
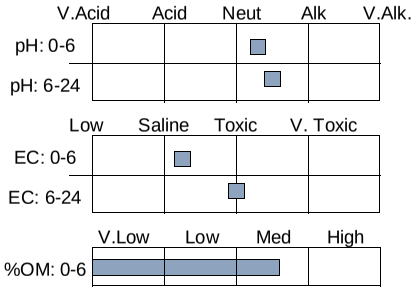
Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	170901_001
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/08/31
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 12	**Received Date**	2017/09/01
		Legal Location:	E 29-11-1 E1	**Date Reported:**	2017/09/05
Attention:	Julian Wiese	**Total Acres:**	343		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
170901_001-01	0-6	5	27.0	560	140	5900	2800	460	1.7	3.6	51.0	2.3	1.4	270.0	7.3	2.50	6.4
170901_001-02	6-24	1			500									300.0	7.5	4.00	





	N	P	K	S
0-6 lb/Ac:	9	54	1120	280
6-24 lb/Ac:	7			3000
Total lb/Ac measured:	16	54	1120	3280
Estimated lb/Ac to 24 inch:	16			3280

CEC (meq/100g):	55.5	Ca Base Saturation (%):	53.0	Mg Base Saturation (%):	41.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.6	Na Base Saturation (%):	3.6

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:	Comments: Previous Crop: Oats
	* Bicarbonate-Extractable (Olsen) Phosphate

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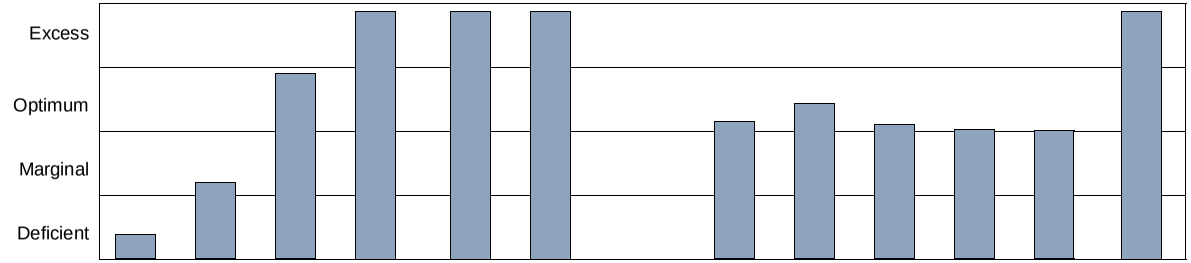
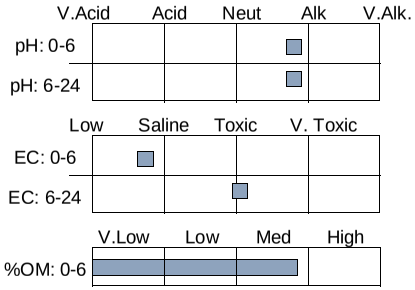
Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	170901_028
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/08/31
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 13	**Received Date**	2017/09/01
		Legal Location:	SW 28-11-1 E1	**Date Reported:**	2017/09/05
Attention:	Julian Wiese	**Total Acres:**	115		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
170901_028-01	0-6	8	17.0	460	47	6700	2000	250	1.2	2.6	38.0	2.6	1.1	41.0	7.8	1.43	7.4
170901_028-02	6-24	2			1200									220.0	7.8	4.18	





	N	P	K	S
0-6 lb/Ac:	16	34	920	94
6-24 lb/Ac:	14			7200
Total lb/Ac measured:	30	34	920	7294
Estimated lb/Ac to 24 inch:	30			7294

CEC (meq/100g):	52.0	Ca Base Saturation (%):	64.0	Mg Base Saturation (%):	32.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.2	Na Base Saturation (%):	2.1

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:	Comments: Previous Crop: Alfalfa
	* Bicarbonate-Extractable (Olsen) Phosphate

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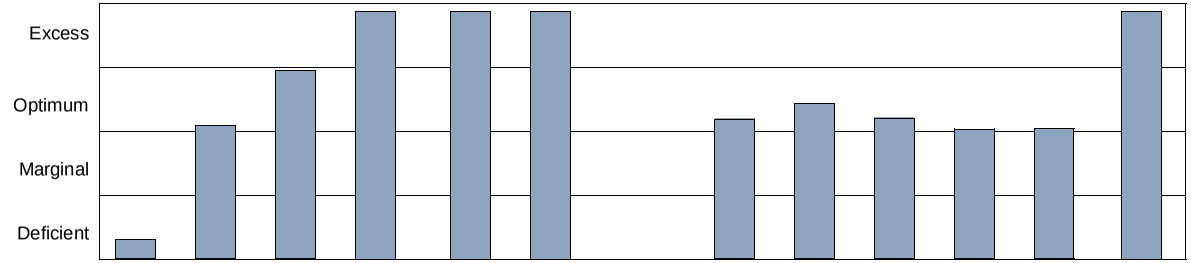
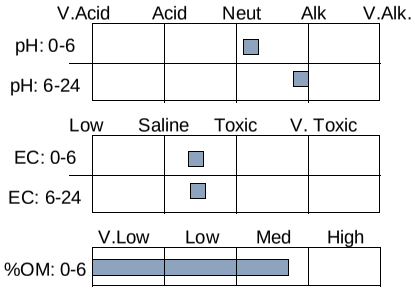
Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	170901_029
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/08/31
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 14	**Received Date**	2017/09/01
		Legal Location:	NW 28-11-1 E1	**Date Reported:**	2017/09/05
Attention:	Julian Wiese	**Total Acres:**	189		
Client ID:	09-0026	**Sampler:**	BB		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
170901_029-01	0-6	6	28.0	480	540	6100	2300	330	1.3	2.6	68.0	3.4	1.6	52.0	7.2	2.88	6.9
170901_029-02	6-24	2			230									290.0	7.9	2.92	





	N	P	K	S
0-6 lb/Ac:	11	56	960	1080
6-24 lb/Ac:	13			1380
Total lb/Ac measured:	24	56	960	2460
Estimated lb/Ac to 24 inch:	24			2460

CEC (meq/100g):	52.4	Ca Base Saturation (%):	58.0	Mg Base Saturation (%):	37.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.3	Na Base Saturation (%):	2.7

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:	Comments: Previous Crop: Alfalfa
	* Bicarbonate-Extractable (Olsen) Phosphate

Farmers Edge Laboratories
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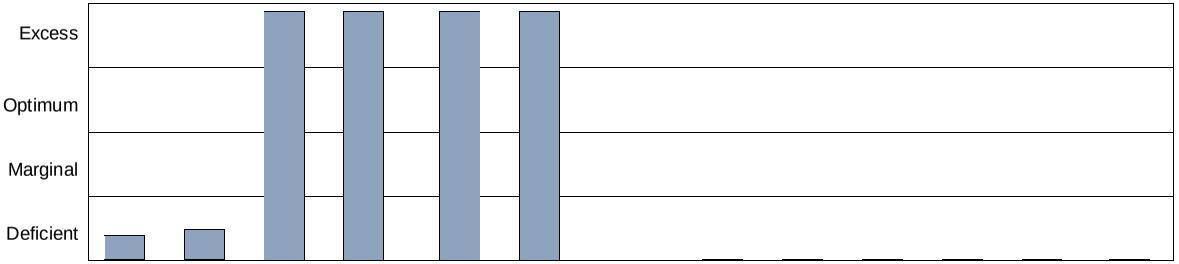
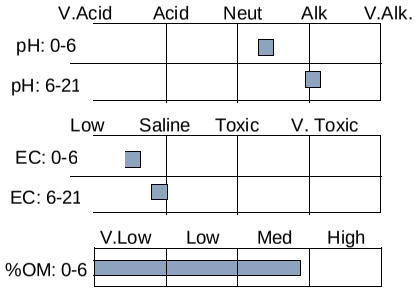
Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_120
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 15	**Received Date**	2017/11/17
		Legal Location:	NSW 34-11-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	67		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_120-01	0-6	10	7.1	520	9	5300	2300	130							7.4	1.04	7.5
171117_120-02	6-21	2			49										8.1	1.81	





	N	P	K	S
0-6 lb/Ac:	19	14	1040	17
6-21 lb/Ac:	12			245
Total lb/Ac measured:	30	14	1040	262
Estimated lb/Ac to 24 inch:	33			283

CEC (meq/100g):	47.6	Ca Base Saturation (%):	56.0	Mg Base Saturation (%):	40.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.8	Na Base Saturation (%):	1.2

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments: PREVIOUS CROP: ALFALFA

* Bicarbonate-Extractable (Olsen) Phosphate

Farmers Edge Laboratories
1357 Dugald Road
Winnipeg, Manitoba Canada
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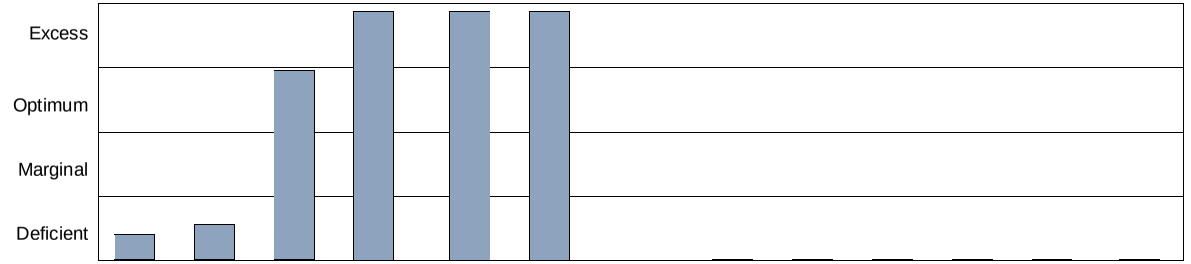
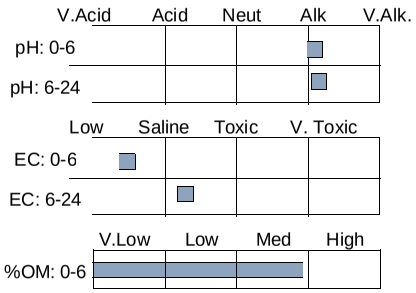
Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_124
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 16	**Received Date**	2017/11/17
		Legal Location:	NNW 10-12-1 E1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	62		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_124-01	0-6	10	8.1	480	15	3500	3300	150							8.2	0.90	7.7
171117_124-02	6-24	2			380										8.3	2.58	





	N	P	K	S
0-6 lb/Ac:	19	16	960	30
6-24 lb/Ac:	12			2280
Total lb/Ac measured:	31	16	960	2310
Estimated lb/Ac to 24 inch:	31			2310

CEC (meq/100g):	45.9	Ca Base Saturation (%):	38.0	Mg Base Saturation (%):	58.0
Base Saturation (%):	100.0	K Base Saturation (%):	2.7	Na Base Saturation (%):	1.5

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments: PREVIOUS CROP: ALFALFA

* Bicarbonate-Extractable (Olsen) Phosphate

Farmers Edge Laboratories
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Winnipeg, Manitoba Canada
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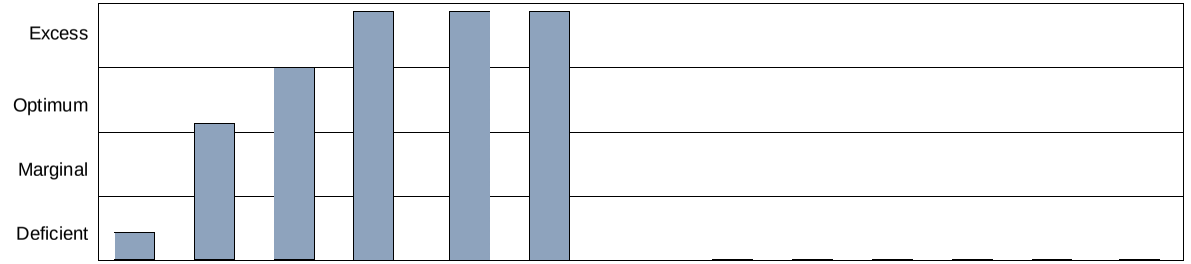
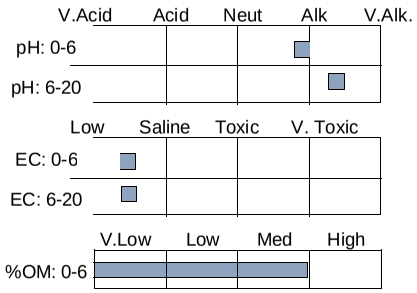
Phone: 1 204 233 4099

Report To:	Farmers Edge - Eastman	**Grower:**	Rosser Holstein	**Lot Number:**	171117_117
	1357 Dugald Road	**Grower Field Name:**		**Date Sampled:**	2017/11/07
	Winnipeg, Manitoba R2J 0H3	**Reference Field Name**	Field # 17	**Received Date**	2017/11/17
		Legal Location:	SE 13-12-1 W1	**Date Reported:**	2017/11/22
Attention:	Julian Wiese	**Total Acres:**	144		
Client ID:	09-0026	**Sampler:**	RICARDO		

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
171117_117-01	0-6	12	29.0	500	15	5100	1900	52							7.9	0.88	7.9
171117_117-02	6-20	2			46										8.8	0.91	





	N	P	K	S
0-6 lb/Ac:	24	58	1000	30
6-20 lb/Ac:	9			215
Total lb/Ac measured:	33	58	1000	245
Estimated lb/Ac to 24 inch:	38			271

CEC (meq/100g):	42.8	Ca Base Saturation (%):	59.0	Mg Base Saturation (%):	37.0
Base Saturation (%):	100.0	K Base Saturation (%):	3.0	Na Base Saturation (%):	0.5

Sand (%):	Silt (%):	Clay (%):	Texture:

Recommendation:

Comments: PREVIOUS CROP: ALFALFA

* Bicarbonate-Extractable (Olsen) Phosphate