




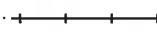


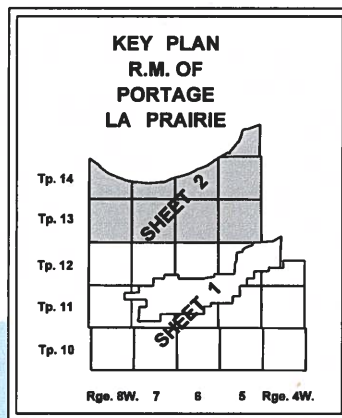
R.M. OF PORTAGE LA PRAIRIE

0 5
SCALE IN KILOMETRES

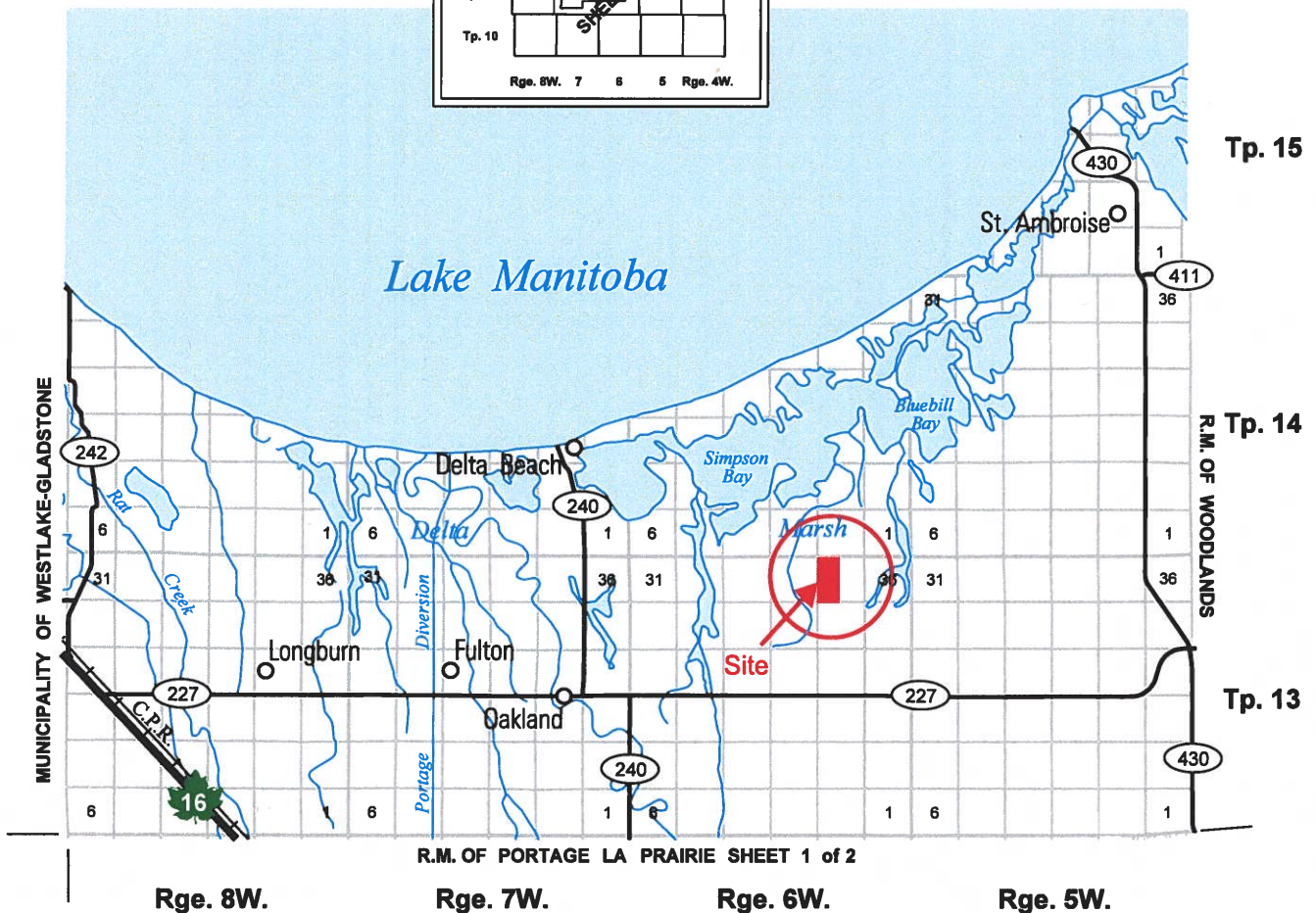
PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 1, 2015

LEGEND

- TRANS-CANADA HIGHWAY  ACCESS ROADS 
- PROVINCIAL ROADS  RAILWAYS 



Northern Breeze Colony Farms Ltd.
W1/2 35-13-6W
RM of Portage La Prairie



Animal Units Calculator

A	B	C	Current Operation		Proposed Operation	
			D	E	F	G
Operation Type	Animal Categories	Animal Units per Head	Current Number of Animals ¹	Current Animal Units	Proposed Number of Animals ²	Proposed Number of Animal Units
Dairy ³	Mature cows (lactating and dry) including associated livestock	2		-		-
	Mature cows (lactating and dry)	1.35		-		-
	Heifers (0 to 3 months)	0.16		-		-
	Heifers (4 to 13 months)	0.41		-		-
	Heifers (> 13 months)	0.87		-		-
	Bulls	1.35		-		-
Beef	Veal calves	0.13		-		-
	Beef cows including associated livestock	1.25		-		-
	Backgrounder	0.5		-		-
	Summer pasture / replacement heifers	0.625		-		-
Pigs	Feeder cattle	0.769		-		-
	Sows - farrow to finish (234-254 lbs)	1.25	600	750	720	900
	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		-		-
Chickens	Growers / Finishers (51-249 lbs)	0.143		-		-
	Broilers	0.005		-		-
	Roasters	0.01		-		-
	Layers	0.0083		-	12,000	100
	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	4,500	45	4,500	45
Horses	Mares	1.333		-		-
Sheep	Ewes	0.2		-		-
	Feeder lambs	0.063		-		-
Other Livestock	Type:			-		-
	Type:			-		-
			Total Current:	795	Total Proposed:	1,045

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 [Manitoba Agriculture and Resource Development](#)



PROJECT NAME	NORTHERN BREEZE COLONY SW 35-13-6W
BUILDING AREA	N/A
SHEET TITLE	SITE PLAN
DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	MARCH 2020
DRAWING SCALE	SCALED TO FIT
SHEET NUMBER	SP-1

**South-Man
Engineering**

6451 Luptonville Blvd. | Winnipeg, Manitoba | R2J 3K4
PH: (204) 669-8655 | FAX: (204) 669-2204

- ALPHABETICAL NOTES APPLY ONLY TO THIS SHEET
- A** DOMESTIC LAGOON;
 - B** CONCRETE TANK;
 - C** DUGOUT;
 - D** SLURRYSTORE (UNUSED);
 - E** SLURRYSTORE;
 - F** TURKEY BARN;
 - G** HOG BARN;
 - H** FARM SHOP;
 - I** ELECTRIC/CARPENTER;
 - J** EQUIPMENT STORAGE;
 - K** COMPOST SITE;
 - L** NEW MANURE STORAGE (38'x60');
 - M** NEW LAYER BARN (50'x270');
 - N** RESIDENTIAL DEVELOPMENT;

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison *				
Feeder/heifer/steer (600 lb.)		5	9	-
Feeder (900 lb.)		7	12	-
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	-
Dry milking cow **		10	12	-
Lactating cow **		25	30	-
Bison		8	10	-
Horses				
Horses		8	11	-
Hogs				
Sow (Farrow/wean)	648	5.5		3,564
Dry Sow/Boar	171	4		684
Feeder	6,300	2		12,600
Nursery (33 lb.)	2,100	1		2,100
Chickens				
Broilers		0.035		-
Roasters/Pullets		0.04		-
Layers	12,000	0.055		660
Breeders		0.07		-
Turkeys				
Turkey Growers		0.13		-
Turkey Heavies	4,500	0.16		720
Sheep/Goats				
Sheep/Goats		2		-
Ewes/Does		3		-
Lambs/Kids (90 lb.)		1.6		-
TOTAL (IG/day)				20,328
*** TOTAL with 10% wash water				22,361

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

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

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

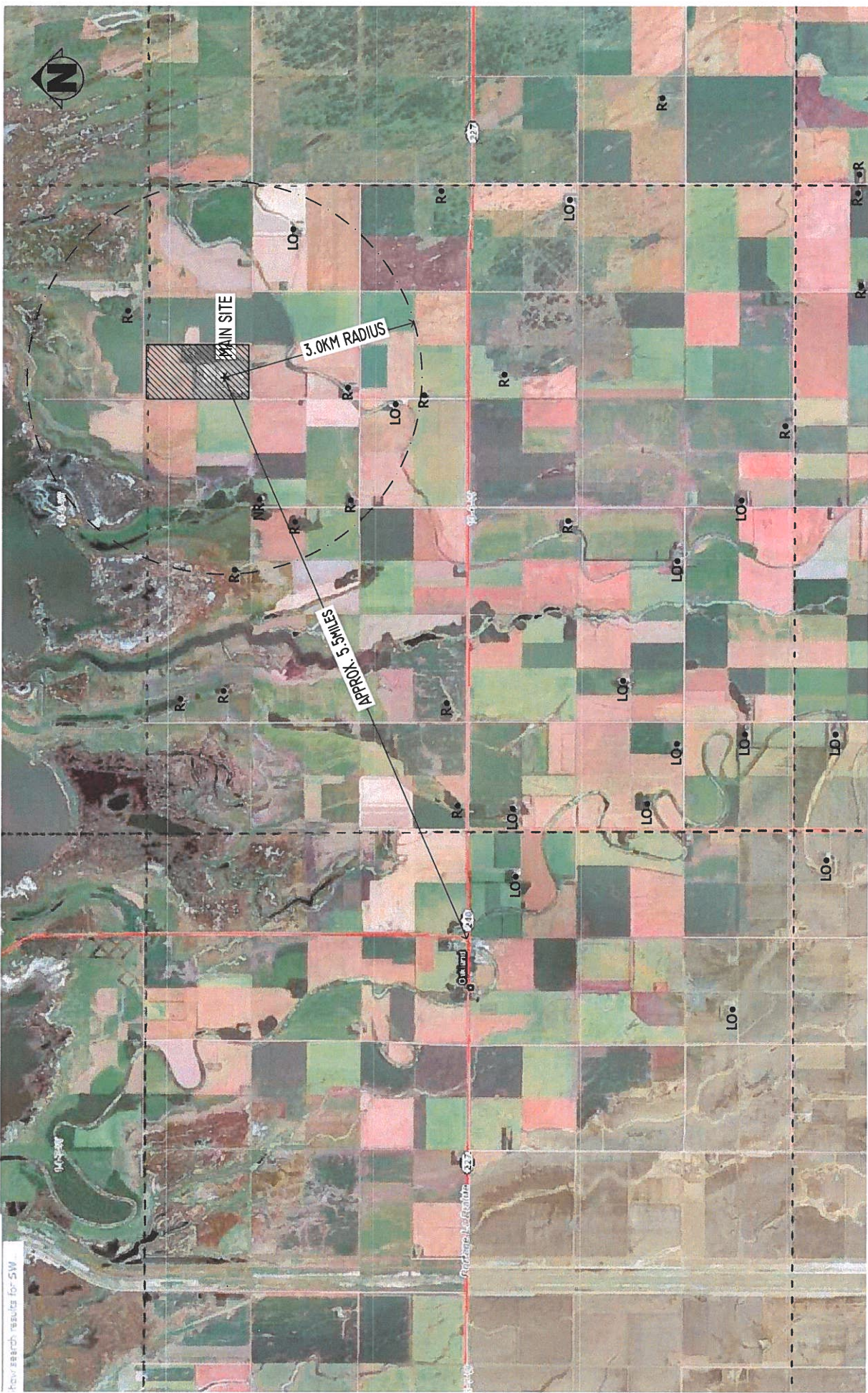
Other consumption:
Normal household consumption:
60-75 IG/day per person or
(272-340 l/day/person)


Unit Conversions		
Total per day	Total per year	Unit
22,361	8,161,692	IG
92,411	33,730,047	litres
0.092	34	cubic decametres (dam ³)

Conversion Factor: 1 IGPM = 4.546 l/m

Please note that the Water Requirement Calculator is an estimation only.

For search results for SW



- LEGEND:**
-  - PROJECT SITE
 - R - RESIDENCE
 - NR - NEAREST NEIGHBOR (APPROX 1.9MILES)
 - LO - LIVESTOCK OPERATIONS
 - - 3KM NOTIFICATION AREA
- FOR THE PUBLIC CONDITIONAL USE HEARING

PROJECT NAME	NORTHERN BREEZE COLONY SW 35-13-6W	BUILDING AREA	N/A
SHEET TITLE	LAND USE MAP	DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	MARCH 2020	DRAWING SCALE	SCALED TO FIT
		SHEET NUMBER	SP-2A



4451 Logansville Blvd. | Winnipeg, Manitoba | R2J 3K4
 P.O. BOX 1000005 | TEL: (204) 469-2204

THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.

Select Year Range



2009 to 2019

SEARCH

Search Summary

415 records returned

2,931 farm varieties grown on 837,374.0 acres

Average Yield

0.937 Tonnes (41.3 Bushels) per acre

Showing 1 to 50 of 415 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	5030 (INVIGOR) RHYD1-403 (LT)	20	5,769.0	1.223 Tonnes	53.9 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L230 (BAYER) 5CN0125 (LT)	11	2,532.0	1.217 Tonnes	53.7 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L233P (BASF) 5CN0130 (LT){PSR-R}	31	6,990.0	1.197 Tonnes	52.8 Bushels
2013	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L154 (INVIGOR) (LT)	38	12,449.0	1.181 Tonnes	52.1 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	8	2,296.0	1.164 Tonnes	51.3 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L140P (INVIGOR) (LT){PSR-R}	58	16,445.0	1.161 Tonnes	51.2 Bushels
2018	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L233P (BASF) 5CN0130 (LT){PSR-R}	81	33,338.0	1.144 Tonnes	50.4 Bushels
2018	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L230 (BAYER) 5CN0125 (LT)	13	3,766.0	1.141 Tonnes	50.3 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L252 (INVIGOR) (LT)	39	11,281.0	1.136 Tonnes	50.1 Bushels
2013	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	57	18,854.0	1.133 Tonnes	50.0 Bushels
2017	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	1022 RR (NEXERA) (RT)	3	1,318.0	1.133 Tonnes	49.9 Bushels
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	5440 (INVIGOR) PHS04-690 (LT)	76	29,794.0	1.130 Tonnes	49.8 Bushels
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	NX4 105 RR (NEXERA) NEX G2X0039 (RT)	11	1,912.0	1.128 Tonnes	49.7 Bushels
2019	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L255PC (INVIGOR) 6CN0122 (LT) {PSR-R}	15	6,037.0	1.121 Tonnes	49.4 Bushels
2014	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	46H75 (PIONEER) (ST)	4	1,522.0	1.113 Tonnes	49.1 Bushels
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	5020 (INVIGOR) RHY01/597 (LT)	25	6,819.0	1.094 Tonnes	48.3 Bushels
2013	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	1012 RR (NEXERA) (RT)	28	5,612.0	1.093 Tonnes	48.2 Bushels
2013	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L120 (INVIGOR) (LT)	9	1,219.0	1.074 Tonnes	47.4 Bushels
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	D3151 (DUPONT) (RT)	3	803.0	1.073 Tonnes	47.3 Bushels
2009	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	8440 (INVIGOR) PHS04-781 (LT)	42	17,934.0	1.073 Tonnes	47.3 Bushels
2013	PORTAGE LA PRAIRIE	ARGENTINE CANOLA	L156H (INVIGOR HEALTH) (LT)	11	6,171.0	1.064 Tonnes	46.9 Bushels

Select Year Range



2009 to 2019

SEARCH

Search Summary

90 records returned

435 farm varieties grown on 164,568.0 acres

Average Yield

1.745 Tonnes (80.2 Bushels) per acre

Showing 1 to 50 of 90 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2013	PORTAGE LA PRAIRIE	BARLEY	CHAMPION (TR04719)	3	1,529.0	2.683 Tonnes	123.3 Bushels
2013	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	12	2,634.0	2.347 Tonnes	107.8 Bushels
2017	PORTAGE LA PRAIRIE	BARLEY	CELEBRATION (6B01-2218)	4	1,152.0	2.298 Tonnes	105.6 Bushels
2013	PORTAGE LA PRAIRIE	BARLEY	CELEBRATION (6B01-2218)	4	1,911.0	2.270 Tonnes	104.2 Bushels
2015	PORTAGE LA PRAIRIE	BARLEY	XENA (TR975,BZ-594-19)	3	1,096.0	2.234 Tonnes	102.6 Bushels
2017	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	9	3,523.0	2.218 Tonnes	101.9 Bushels
2018	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	9	4,311.0	2.211 Tonnes	101.6 Bushels
2017	PORTAGE LA PRAIRIE	BARLEY	CANMORE	4	1,841.0	2.144 Tonnes	98.5 Bushels
2018	PORTAGE LA PRAIRIE	BARLEY	CONLON	8	2,221.0	2.144 Tonnes	98.5 Bushels
2010	PORTAGE LA PRAIRIE	BARLEY	CDC COALITION (TR03373)	3	1,083.0	2.140 Tonnes	98.3 Bushels
2017	PORTAGE LA PRAIRIE	BARLEY	CONLON	11	1,984.0	2.120 Tonnes	97.4 Bushels
2018	PORTAGE LA PRAIRIE	BARLEY	CANMORE	6	1,297.0	2.100 Tonnes	96.4 Bushels
2019	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	11	6,106.0	2.081 Tonnes	95.6 Bushels
2019	PORTAGE LA PRAIRIE	BARLEY	CANMORE	4	2,715.0	2.043 Tonnes	93.8 Bushels
2009	PORTAGE LA PRAIRIE	BARLEY	CONLON	25	15,648.0	1.969 Tonnes	90.4 Bushels
2013	PORTAGE LA PRAIRIE	BARLEY	CONLON	27	11,897.0	1.871 Tonnes	85.9 Bushels
2015	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	16	5,922.0	1.852 Tonnes	85.1 Bushels
2012	PORTAGE LA PRAIRIE	BARLEY	CHAMPION (TR04719)	6	1,925.0	1.849 Tonnes	84.9 Bushels
2009	PORTAGE LA PRAIRIE	BARLEY	ROBUST	6	1,075.0	1.832 Tonnes	84.2 Bushels
2016	PORTAGE LA PRAIRIE	BARLEY	CELEBRATION (6B01-2218)	3	605.0	1.797 Tonnes	82.5 Bushels
2014	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	11	5,800.0	1.776 Tonnes	81.6 Bushels
2016	PORTAGE LA PRAIRIE	BARLEY	CDC AUSTENSON (TR06389)	15	7,802.0	1.748 Tonnes	80.3 Bushels

Select Year Range



2009 to 2019

SEARCH

Search Summary

453 records returned

1,964 farm varieties grown on 500,254.8 acres

Average Yield

1.002 Tonnes (36.8 Bushels) per acre

Showing 1 to 50 of 453 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2016	PORTAGE LA PRAIRIE	SOYBEANS	LS MAIDAN (LEGEND) GS00872 (RT)	9	1,954.0	1.537 Tonnes	56.5 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	24-10RY (DEKALB) (RT)	31	8,801.0	1.336 Tonnes	49.1 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	P008T70R (PIONEER) (RT)	6	1,297.0	1.319 Tonnes	48.5 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	LS 003R24N (LEGEND) (RT)	20	5,842.0	1.315 Tonnes	48.3 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	NSC GLADSTONE RR2Y (NSGENETICS) (RT)	9	2,830.0	1.307 Tonnes	48.0 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	NSC ELIE RR2Y (NSGENETICS) (RT)	17	4,002.0	1.303 Tonnes	47.9 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	LS 005R21 (LEGEND)(RT)	7	1,132.0	1.301 Tonnes	47.8 Bushels
2012	PORTAGE LA PRAIRIE	SOYBEANS	NSC RICHER RR2Y (NSGENETICS) (RT)	5	739.0	1.288 Tonnes	47.3 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	NSC RICHER RR2Y (NSGENETICS) (RT)	21	3,859.0	1.281 Tonnes	47.1 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	NSC TILSTON RR2Y (NSGENETICS) (RT)	4	545.0	1.281 Tonnes	47.1 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	S007-Y4 RR2Y (SYNGENTA) (RT)	13	5,616.0	1.278 Tonnes	47.0 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	VITO R2 (PROGRAIN) (RT)	4	987.0	1.271 Tonnes	46.7 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	P008T22R2 (PIONEER) (RT)	4	1,403.0	1.262 Tonnes	46.4 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	CHADBURN R2 MKZ709A1-BBYN.SC2475RR (RT)	5	1,166.0	1.261 Tonnes	46.3 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	PEKKO R2 (BRETT YOUNG) A1025926 (RT)	3	700.0	1.261 Tonnes	46.3 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	TH 32004R2Y (THUNDER) (RT)	5	1,282.0	1.253 Tonnes	46.0 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	23-10RY (DEKALB) (RT)	6	1,725.0	1.247 Tonnes	45.8 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	NSC LIBAU RR2Y (NSGENETICS) (RT)	5	1,245.0	1.235 Tonnes	45.4 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	TH 33003R2Y (THUNDER) (RT)	5	737.0	1.236 Tonnes	45.4 Bushels
2013	PORTAGE LA PRAIRIE	SOYBEANS	LS 002R23 (LEGEND) (RT)	5	1,361.0	1.234 Tonnes	45.3 Bushels
2016	PORTAGE LA PRAIRIE	SOYBEANS	TH 33005R2Y (THUNDER) (RT)	11	5,068.0	1.232 Tonnes	45.3 Bushels
2017	PORTAGE LA PRAIRIE	SOYBEANS	S006-W5 (SYNGENTA) AR12010501 X2R00753	7	1,847.0	1.225 Tonnes	45.0 Bushels

Select Year Range



2009 to 2019

SEARCH

Search Summary

128 records returned

1,900 farm varieties grown on 650,785.6 acres

Average Yield

1.648 Tonnes (60.6 Bushels) per acre

Showing 1 to 50 of 128 entries

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2013	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CDC GO (BW781)	3	949.0	2.232 Tonnes	82.0 Bushels
2017	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC BRANDON (BW 932)	85	38,574.0	2.137 Tonnes	78.5 Bushels
2017	PORTAGE LA PRAIRIE	RED SPRING WHEAT	WR859 CL (BW859)	5	1,031.0	2.079 Tonnes	76.4 Bushels
2018	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC VIEWFIELD (FP GENETICS) BW965 EXP	9	2,622.0	2.041 Tonnes	75.0 Bushels
2018	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC BRANDON (BW 932)	108	57,383.0	2.031 Tonnes	74.6 Bushels
2018	PORTAGE LA PRAIRIE	RED SPRING WHEAT	WR859 CL (BW859)	4	745.0	2.018 Tonnes	74.1 Bushels
2017	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AC DOMAIN (BW 148)	5	772.0	2.000 Tonnes	73.5 Bushels
2017	PORTAGE LA PRAIRIE	RED SPRING WHEAT	GLENN	5	2,467.0	1.991 Tonnes	73.2 Bushels
2009	PORTAGE LA PRAIRIE	RED SPRING WHEAT	SUPERB (BW252)	9	1,758.0	1.968 Tonnes	72.3 Bushels
2009	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CDC GO (BW781)	12	4,205.0	1.925 Tonnes	70.7 Bushels
2010	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CDC GO (BW781)	3	1,145.0	1.905 Tonnes	70.0 Bushels
2017	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CARDALE (BW429)	23	8,620.0	1.906 Tonnes	70.0 Bushels
2009	PORTAGE LA PRAIRIE	RED SPRING WHEAT	GLENN	28	5,358.0	1.904 Tonnes	69.9 Bushels
2014	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC BRANDON (BW 932)	5	628.6	1.894 Tonnes	69.6 Bushels
2018	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CARDALE (BW429)	20	6,110.0	1.885 Tonnes	69.3 Bushels
2010	PORTAGE LA PRAIRIE	RED SPRING WHEAT	WR859 CL (BW859)	5	1,091.0	1.883 Tonnes	69.2 Bushels
2019	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC BRANDON (BW 932)	124	62,334.0	1.862 Tonnes	68.4 Bushels
2013	PORTAGE LA PRAIRIE	RED SPRING WHEAT	WR859 CL (BW859)	22	6,737.0	1.859 Tonnes	68.3 Bushels
2013	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AC DOMAIN (BW 148)	8	1,494.0	1.825 Tonnes	67.0 Bushels
2019	PORTAGE LA PRAIRIE	RED SPRING WHEAT	AAC VIEWFIELD (FP GENETICS) BW965 EXP	11	2,834.0	1.795 Tonnes	66.0 Bushels
2013	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CARBERRY (BW874)	89	23,404.0	1.756 Tonnes	64.5 Bushels
2018	PORTAGE LA PRAIRIE	RED SPRING WHEAT	CARBERRY (BW874)	7	1,204.0	1.744 Tonnes	64.1 Bushels

1a - Pigs

Operation Name:

Operation Type	Storage Type	Volatilization	Animal Numbers (Places)	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Gilts (Purchased)	Liquid Uncovered Earthen	30%		0	0
Boars	Liquid Uncovered Earthen	30%		0	0
Weanlings/Nursery	Liquid Uncovered Earthen	30%		0	0
Growers/Finishers	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to 6.2 kg	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to 28 kg	Liquid Uncovered Earthen	30%		0	0
Sows, farrow to finish	Liquid Uncovered Steel/Concrete	20%	720	223430	113556

Last Revised February 12, 2020

1e - Poultry

Operation Name: [REDACTED]

Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight in kg	Weight out kg	Days on Feed	Cycles per Year	N Excreted Adjusted for N Loss lb/flock/yr	P2O5 Excreted lb/flock/yr
Chickens	Light Broilers	Solid Manure Shed	20%		0.043	1.8	30	7	0	0
Chickens	Broilers	Solid Manure Shed	20%		0.043	2.275	35	7	0	0
Chickens	Broiler Breeder Pullets	Solid Manure Shed	20%		0.040	2.975	168	2	0	0
Chickens	Broiler Breeder Hens	Solid Manure Shed	20%		2.975	3.950	245	1	0	0
Eggs	White Layer Pullets	Solid Manure Shed	20%		0.040	1.355	133	2	0	0
Eggs	White Layer Hens	Solid Manure Shed	20%		1.355	1.875	357	1	0	0
Eggs	White Breeder Pullets	Solid Manure Shed	20%		0.040	1.240	119	2	0	0
Eggs	White Breeder Hens	Solid Manure Shed	20%		1.240	1.670	350	1	0	0
Eggs	Brown Layer Pullets	Solid Manure Shed	20%		0.040	1.630	133	2	0	0
Eggs	Brown Layer Hens	Solid Manure Shed	20%	12000	1.630	2.025	357	1	14321	11356
Eggs	Brown Breeder Pullets	Solid Manure Shed	20%		0.040	1.407	119	2	0	0
Eggs	Brown Breeder Hens	Solid Manure Shed	20%		1.407	1.950	350	1	0	0
Turkey	Broiler Turkey (0-9 wks)	Solid Manure Shed	20%		0.070	4.950	63	5	0	0
Turkey	Hen Turkey (0-11 wks)	Solid Manure Shed	20%		0.070	6.650	77	4	0	0
Turkey	Heavy Hens (0-14 wks)	Field Storage	40%	4500	0.070	9.750	98	3	8264	6285
Turkey	Toms (0-14 wks)	Solid Manure Shed	20%		0.070	13.000	98	3	0	0
Turkey	Breeding Hen Growers (0-30 wks)	Solid Manure Shed	20%		0.070	12.900	210	1	0	0
Turkey	Breeding Hens (31-End of Lay)	Solid Manure Shed	20%		12.900	12.400	252	1	0	0
Turkey	Breeding Tom Grower (0-17 wks)	Solid Manure Shed	20%		0.070	15.770	119	1	0	0
Turkey	Breeding Tom Grower (17-30 wks)	Solid Manure Shed	20%		15.770	25.000	91	1	0	0
Turkey	Breeding Tom (31-End of Lay)	Solid Manure Shed	20%		25.000	28.180	252	1	0	0

Last Revised November 26, 2019

2 - Crop Rotation

Operation Name: Enter the operation name on the livestock tab(s)

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake	
	P2O5 (lb)	N (lb)	N	Units				P2O5 (lb)	N (lb)	N	Units
Alfalfa	13.8	58	58	lb/ton		ton/ac					
Barley Grain	0.42	0.97	1.39	lb/bu	80.2	bu/ac	328	11048	25516		36565
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac					
Canola	1.04	1.93	3.19	lb/bu	41.3	bu/ac	1145	49180	91267		150850
Corn Grain	0.44	0.97	1.53	lb/bu		bu/ac					
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac					
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac					
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac					
Flax	0.65	2.13	2.88	lb/bu		bu/ac					
Grass Hay	10	34.2	34.2	lb/ton		tons/ac					
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac					
Oats	0.26	0.62	1.07	lb/bu		bu/ac					
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac					
Peas	0.69	2.34	3.06	lb/bu		bu/ac					
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac					
Rye	0.45	1.06	1.67	lb/bu		bu/ac					
Soybeans	0.84	3.87	5.2	lb/bu	36.8	bu/ac	645	19938	91858		123427
Sunflower	1.1	2.8		lb/cwt		cwt/ac					
Wheat - Spring	0.59	1.5	2.11	lb/bu	60.6	bu/ac	1145	40938	104081		146407
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac					
Total Acres							3263	121105	312722	457249	
Estimated Average Removal/Uptake (lb/ac)								37.1	95.8	140.1	
Acres in Hanover and La Broquerie											
Proportion in Hanover or La Broquerie							0%				
Additional Acres											
Crop Planned on Additional Acres											
Total Acreage							3263				

***Notes:** Enter the number of acres that are in the RM's of Hanover or La Broquerie in cell H26. Additional acres include acres for which crop removal or soil data is limited or unavailable.

3 - Farm Excretion

Operation Name: Enter the operation name on the livestock tab(s)

Species	Animal Category/Operation type	N (lb/year)	P2O5 (lb/year)
Pigs	Boars	0	0
	Weanlings/Nursery	0	0
	Growers/Finishers	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	223430	113556
Beef	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
	Lactating First Calf Heifer	0	0
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	0	0
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Light Broilers	0	0
	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	White Layer Pullets	0	0
	White Layer Hens	0	0
	White Breeder Pullets	0	0
	White Breeder Hens	0	0
	Brown Layer Pullets	0	0
	Brown Layer Hens	14321	11356
	Brown Breeder Pullets	0	0
	Brown Breeder Hens	0	0
Turkeys	Broiler Turkey (0-9 wks)	0	0
	Hen Turkey (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	8264	6285
	Toms (0-14 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (31-End of Lay)	0	0
	Breeding Tom Grower (0-17 wks)	0	0
	Breeding Tom Grower (17-30 wks)	0	0
	Breeding Tom (31-End of Lay)	0	0
Total		246015	131197

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

4 - Land Base Summary**Operation Name:** Enter the operation name on the livestock tab(s)

Nutrients Excreted		lbs
Nitrogen		246015
Phosphorus (P2O5)		131197
Crop Nutrient Use		lb/ac
Average Crop N Uptake		140.1
Average Crop Phosphorus (P2O5) Removal		37.1
Operation-specific Phosphorus (P2O5) Allowance		74.2
Land Available		
		3263
Land Base Required		acres
Acres for Nitrogen		1756
Acres for Phosphorus (P2O5)		1767
Phosphorus Balance		acres
Acres for Phosphorus Balance (1X)		3535

Note: For lands located in Hanover and/or La Broquerie, the acres required for phosphorus are based on phosphorus balance (1X). For other lands, the acres required for phosphorus are based on twice crop phosphorus removal (2X). Land requirements for operations with lands inside and outside Hanover and/or La Broquerie are based on a weighted average.

Last revised November 26, 2019

Manure Application Field Characteristics Table

Field ID	A Legal description	B Rural Municipality	C O/C/L/A	D Setbacks, including features	E Net acreage for manure application	F Agriculture capability class and subclass	G Soil Phosphorus (ppm Olsen P) 0-6 inches
1	NW-33-12-7W	Portage La Prairie	O	3m; property line & water	140	2W	22
2	NW-15-13-7W	Portage La Prairie	O	3m; property line	132	2W	17
3	SE-15-13-7W	Portage La Prairie	O	3m; property line	158	2W	9
4	NW-24-13-7W	Portage La Prairie	O	3m; property line	138	2W; 1; 3N	9
5	SE-24-13-7W	Portage La Prairie	O	3m; property line	158	2W; 1; 3N; 3W	9
6	NW-19-13-6W	Portage La Prairie	O	3m; property line & water	147	2W; 1; 2M	13
7 South	SW-17-13-6W	Portage La Prairie	O	3m; property line & water	152	2W; 2N-2W; 1	6
8	SW-16-13-6W	Portage La Prairie	O	3m; property line & water	143	2W; 1	16
9	NW-9-13-6W	Portage La Prairie	O	3m; property line & water	132	2W; 1; 3M	5
10	NW-21-13-6W	Portage La Prairie	O	3m; property line forest	137	2W; 3N; 2M	23
12	SE-28-13-6W	Portage La Prairie	O	3m; property line, water & forest	142	3N; 2M	17
13N	NE-34-13-6W	Portage La Prairie	O	3m; property line & water	158	3N	38
13S	SE-34-13-6W	Portage La Prairie	O	3m; property line & water	153	3N	44
M Simpson	NE-27-13-6W	Portage La Prairie	A	3m; property line & water	153	3NW; 3N	21
15	NW-26-13-6W	Portage La Prairie	A	3m; property line, water & forest	124	3N; 2M	33
16	E1/2 SE-27-13-6W	Portage La Prairie	O	3m; property line & water	76	3N	47
17	SW-12-13-6W	Portage La Prairie	O	3m; property line & forest	132	3N; 2W	52
22	SE-12-13-6W	Portage La Prairie	O	3m; property line & water	127	3N; 2W	14
Fingas	N1/2 23-13-6W	Portage La Prairie	A	3m; property line & water	316	3N; 2W	47

Total net acreage for manure application: 2,818

- 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 (e.g., C/A for Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease).
- D. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g., 8m, Order 3 drain).
- E. 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.
- F. Enter the agriculture capability class and sub-class ratings for the acreage available for manure application.
- G. 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 36 months old and must be completed by an accredited soil-testing laboratory.



Manure Application Field Characteristics Table

Field ID	A Legal description	B Rural Municipality	C O/C/L/A	D Setbacks, including features	E Net acreage for manure application	F Agriculture capability class and subclass	G Soil Phosphorus (ppm Olsen P) 0-6 inches
7	NW-17-13-6W	Portage La Prairie	O	3m; property line & water	144		
11	NW-34-13-6W	Portage La Prairie	O	3m; property line & water	94		
14	NW-35-13-6W	Portage La Prairie	O	3m; property line & shrubs	129		
18	SW-7-13-5W	Portage La Prairie	O	3m; property line	158		
19	NE-24-13-7W	Portage La Prairie	O	3m; property line & water	51		
20	SE-23-13-6W	Portage La Prairie	O	3m; property line & water	158		
21	SW-31-13-5W	Portage La Prairie	O	3m; property line & water	71		
27	W1/2-24-13-6W	Portage La Prairie	O	3m; property line & water	305		
	SW-35-13-6W	Portage La Prairie	O	3m; property line	12		
Lodge	S1/2 2-14-6W	Portage La Prairie	A	3m; property line, shrub & water	230		
	NW-36-13-6W	Portage La Prairie	A	3m; property line & water	70		
	NE/SE-35-13-6W	Portage La Prairie	A	3m; property line	266		
	S1/2+NW-25-13-6W	Portage La Prairie	A	3m; property line & water	459		
	W1/2-27-13-6W	Portage La Prairie	A	3m; property line & water	294		
	SW-34-13-6W	Portage La Prairie	A	3m; property line	36		
	NE-28-13-6W	Portage La Prairie	A	3m; property line & shrub	112		
	W1/2 SE-27-13-6W	Portage La Prairie	A	3m; property line	102		
	NE-16-13-6W	Portage La Prairie	A	3m; property line	152		

Total net acreage for manure application: 2,843

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.

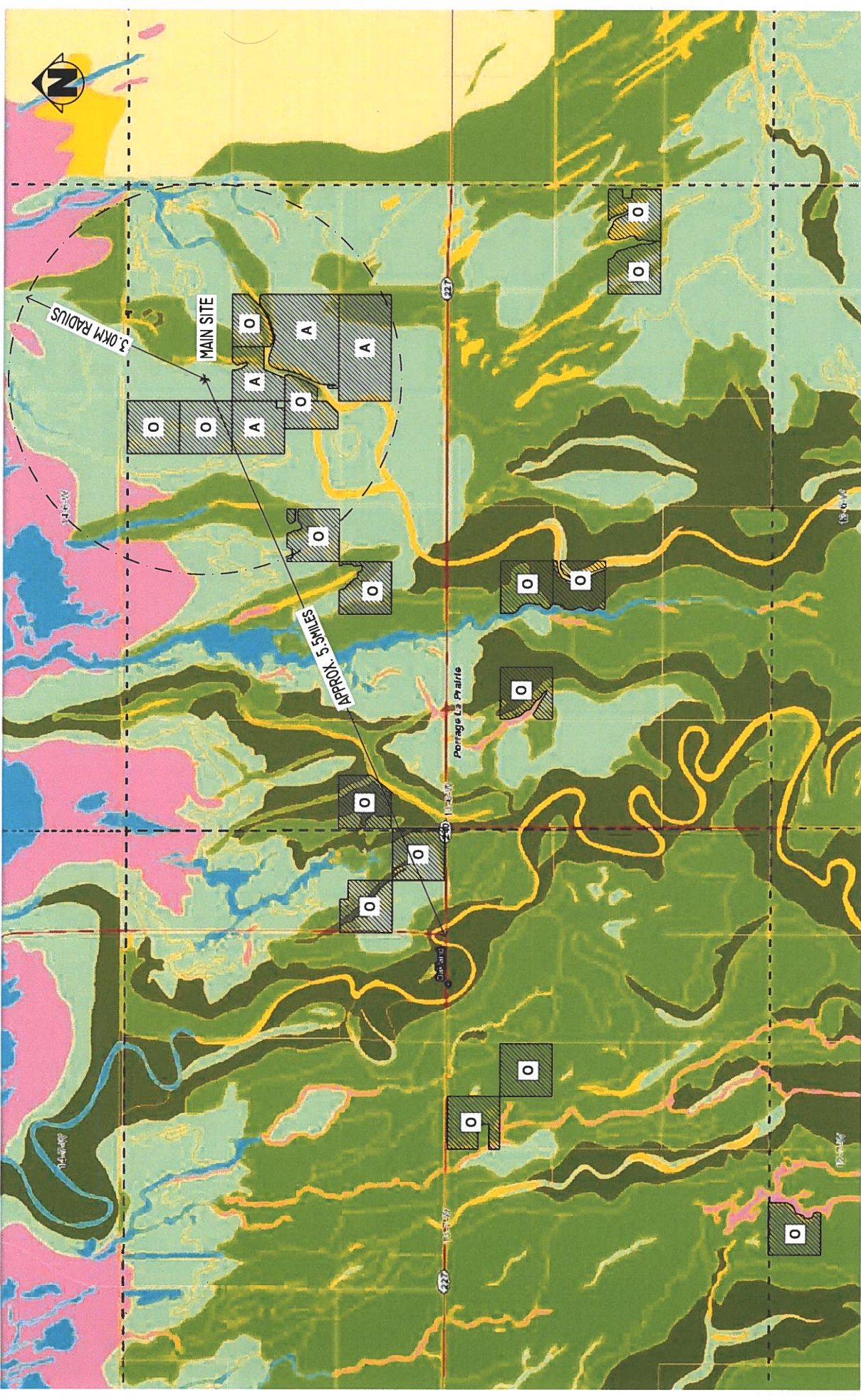
C. Indicate how the land has been secured for manure application: O – Own / C – Crown / L – Lease / A – Agreement. Multiple designations may be used as appropriate (e.g., C/A for Crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease).

D. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g., 8m, Order 3 drain).
E. Enter the net acreage available for manure application for the acreage available for manure application; include identification of type of feature (e.g., 8m, Order 3 drain).
F. Enter the agriculture capability class and sub-class ratings for the acreage available for manure application.

G. 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 36 months old and must be completed by an accredited soil-testing laboratory.

Alternate fields without soil test results





PROJECT NAME	NORTHERN BREEZE COLONY SW 35-13-6W	BUILDING AREA	N/A
SHEET TITLE	SPREAD FIELD MAP	DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	MARCH 2020	DRAWING SCALE	SCALED TO FIT
		SHEET NUMBER	SP-2B

South-Man Engineering

4431 Logansport Blvd. | Winnipeg, Manitoba | R2J 3K4
 PH: (204) 669-9652 | FAX: (204) 669-9204

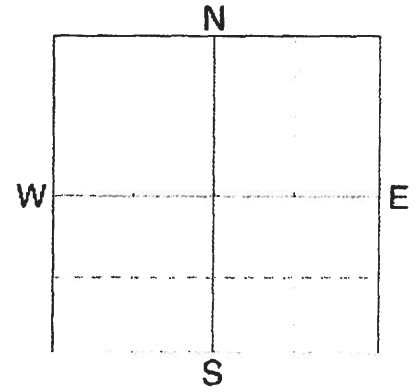
- LEGEND:**
- LO - LIVESTOCK OPERATIONS
 - O - SPREAD FIELDS (OWNED)
 - A - SPREAD FIELDS (AGREEMENT)
 - MS - MANURE STORAGE
 - - - - - 3KM NOTIFICATION AREA FOR THE PUBLIC CONDITIONAL USE HEARING
- SOIL CLASS 1
 - SOIL CLASS 2
 - SOIL CLASS 3
 - SOIL CLASS 4
 - SOIL CLASS 5



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

SOIL TEST REPORT

FIELD ID **10**
 SAMPLE ID **10**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **14751561** BOX # **1956**
 LAB # **NW76138**

Date Sampled **09/19/2019**

Date Received **09/22/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Low Med High								
	21 lb/ac 66 lb/ac		YIELD GOAL		YIELD GOAL		YIELD GOAL			
	87 lb/ac		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate			N		N		N			
Phosphate	23 ppm		P		P		P			
Potassium	270 ppm		K		K		K			
Chloride	328 lb/ac		Cl		Cl		Cl			
Sulfur	14 lb/ac 342 lb/ac		S		S		S			
Boron	1.5 ppm		B		B		B			
Zinc	2.67 ppm		Zn		Zn		Zn			
Iron	20.2 ppm		Fe		Fe		Fe			
Manganese	3.1 ppm		Mn		Mn		Mn			
Copper	0.94 ppm		Cu		Cu		Cu			
Magnesium	871 ppm		Mg		Mg		Mg			
Calcium	5117 ppm		Ca		Ca		Ca			
Sodium	44 ppm		Na		Na		Na			
Organics	4.0 %		Org		Org		Org			
Carbon (C)	3.0 %		C		C		C			
Electrical Conductivity	0.32 mmho/cm 1.09 mmho/cm		EC		EC		EC			
Soil Salts										
			Soil pH	Buffer pH	Cation Exchange Capacity	Base Saturation (Typical Range)				
			0-6" 7.8		33.7 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)
			6-24" 8.4			75.9	21.5	2.1	0.6	0.0

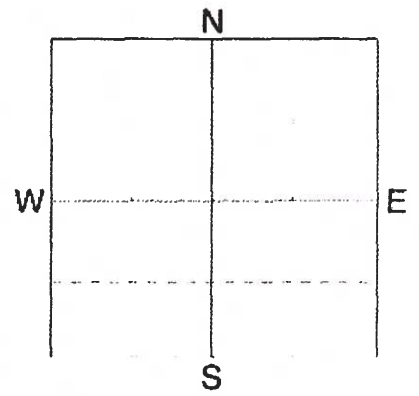
General Comments: Texture is not estimated on high pH soils.



Soil Analysis by Agvise Laboratories
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **8**
 SAMPLE ID **8**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **14751593** BOX # **5093**
 LAB # **NW110966**

Date Sampled **10/28/2019**

Date Received **10/29/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
0-6" 5-24"	9 lb/ac 18 lb/ac 27 lb/ac		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate			N		N		N	
Phosphorus	16 ppm		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅	
Potassium	253 ppm		K ₂ O		K ₂ O		K ₂ O	
Chloride	24 lb/ac		Cl		Cl		Cl	
Sulfur	120 +lb/ac 360 +lb/ac		S		S		S	
Boron	1.8 ppm		B		B		B	
Zinc	1.28 ppm		Zn		Zn		Zn	
Iron	27.0 ppm		Fe		Fe		Fe	
Manganese	2.0 ppm		Mn		Mn		Mn	
Copper	1.16 ppm		Cu		Cu		Cu	
Magnesium	1326 ppm		Mg		Mg		Mg	
Calcium	7145 ppm		Ca		Ca		Ca	
Sodium	66 ppm		Na		Na		Na	
Org. Matter	5.8 %		Lime		Lime		Lime	
Carbonate (CEC)	2.3 %							
Soil Salts	1.63 mmho/cm 2.61 mmho/cm							
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
			0-6" 7.5		47.7 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)
			6-24" 8.0			% Na (0-5)	% H (0-5)	
						74.9	23.2	1.4
						0.6	0.0	

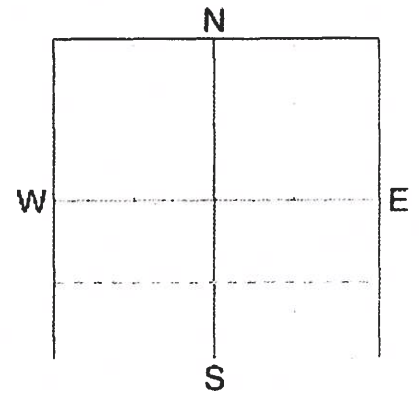
General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)



Soil Analysis by Agvise Laboratories
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **9**
 SAMPLE ID **9**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **14751594** BOX # **5019**
 LAB # **NW110968**

Date Sampled **10/28/2019**

Date Received **10/29/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL				
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Nitrate	0-6" 6 lb/ac 6-24" 15 lb/ac 0-24" 21 lb/ac		N		N		N				
Phosphate	0-6" 5 ppm 6-24" 5 ppm		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅				
Potassium	0-6" 243 ppm 6-24" 243 ppm		K ₂ O		K ₂ O		K ₂ O				
Chloride	0-6" 12 lb/ac 6-24" 12 lb/ac		Cl		Cl		Cl				
Sulfur	0-6" 16 lb/ac 6-24" 78 lb/ac		S		S		S				
Boron	0-6" 1.6 ppm 6-24" 1.6 ppm		B		B		B				
Zinc	0-6" 0.97 ppm 6-24" 0.97 ppm		Zn		Zn		Zn				
Iron	0-6" 19.2 ppm 6-24" 19.2 ppm		Fe		Fe		Fe				
Manganese	0-6" 2.7 ppm 6-24" 2.7 ppm		Mn		Mn		Mn				
Copper	0-6" 0.64 ppm 6-24" 0.64 ppm		Cu		Cu		Cu				
Magnesium	0-6" 908 ppm 6-24" 908 ppm		Mg		Mg		Mg				
Calcium	0-6" 4732 ppm 6-24" 4732 ppm		Ca		Ca		Ca				
Sodium	0-6" 28 ppm 6-24" 28 ppm		Na		Na		Na				
Org Matter	0-6" 4.7 % 6-24" 4.7 %		Lime		Lime		Lime				
Carbonate (CCP)	0-6" 0.35 mmho/cm 6-24" 0.36 mmho/cm		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
						% Ca	% Mg	% K	% Na	% H	
			0-6" 7.8		32.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
			6-24" 8.7			74.0	23.7	1.9	0.4	0.0	

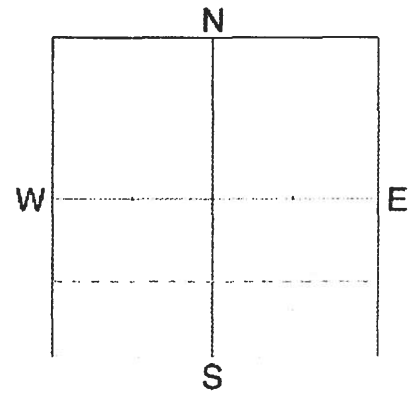
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **7 South**
 SAMPLE ID **7 South**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **14751595** BOX # **5097**
 LAB # **NW110969**

Date Sampled **10/28/2019**

Date Received **10/29/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
Depth	Value		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
0-6" 6-24"	9 lb/ac 21 lb/ac								
0-24"	30 lb/ac								
Nitrate									
0-6" 6-24"	6 ppm								
Phosphorus									
Potassium	182 ppm								
0-24"	24 lb/ac								
Chloride									
0-6" 6-24"	10 lb/ac 96 lb/ac								
Sulfur									
Boron	1.8 ppm								
Zinc	0.87 ppm								
Iron	12.3 ppm								
Manganese	1.6 ppm								
Copper	0.73 ppm								
Magnesium	1388 ppm								
Calcium	5780 ppm								
Sodium	35 ppm								
Org. Matter	4.4 %								
Carbonate (CEC)	4.5 %								
0-6" 6-24"	0.33 mmho/cm 0.32 mmho/cm								
Sol. Salts									
			Cation Exchange Capacity		Moisture Saturation (Typical Range)				
			Capacity		% Ca	% Mg	% K	% Na	% H
			41.1 meq		(65-75) 70.3	(15-20) 28.2	(1-7) 1.1	(0-5) 0.4	(0-5) 0.0
0-6"	8.1								
6-24"	8.7								

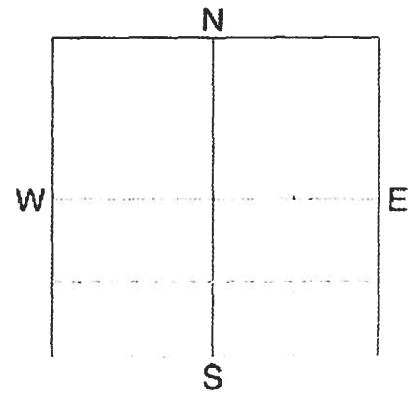
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **6**
 SAMPLE ID **6**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Barley**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386853** BOX # **5492**
 LAB # **NW49153**

Date Sampled **08/26/2019**

Date Received **08/27/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
			YIELD GOAL		YIELD GOAL		YIELD GOAL		
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			Broadcast						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
			N		N		N		
			P ₂ O ₅		P ₂ O ₅		P ₂ O ₅		
			K ₂ O		K ₂ O		K ₂ O		
			Cl		Cl		Cl		
			S		S		S		
			B		B		B		
			Zn		Zn		Zn		
			Fe		Fe		Fe		
			Mn		Mn		Mn		
			Cu		Cu		Cu		
			Mg		Mg		Mg		
			Lime		Lime		Lime		
			Cation Exchange Capacity		% Base Saturation (Typical Range)				
			Spl. pH	Buffer pH	% Ca	% Mg	% K	% Na	% H
			0-6" 8.3		60.7	(15-20) 35.9	(1-7) 1.3	(0-5) 2.2	(0-5) 0.0
			6-24" 8.7						

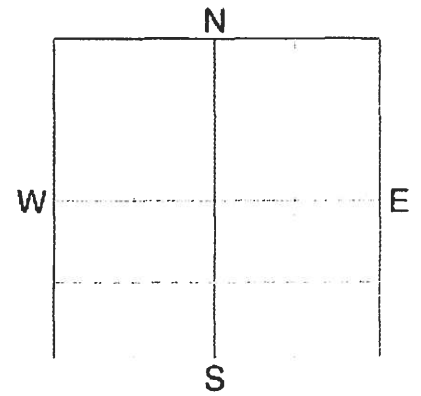
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **5**
 SAMPLE ID **5**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Barley**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386854** BOX # **5492**
 LAB # **NW49154**

Date Sampled **08/26/2019**

Date Received **08/27/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
Depth	Concentration		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES		
0-6" 6-24"	26 lb/ac 30 lb/ac									
0-24"	56 lb/ac									
Nitrate			LB/ACRE APPLICATION	LB/ACRE APPLICATION	LB/ACRE APPLICATION	LB/ACRE APPLICATION	LB/ACRE APPLICATION	LB/ACRE APPLICATION		
0-6" 6-24"	9 ppm		N	N	N	N	N	N		
Phosphorus			P ₂ O ₅	P ₂ O ₅	P ₂ O ₅	P ₂ O ₅	P ₂ O ₅	P ₂ O ₅		
Potassium	218 ppm		K ₂ O	K ₂ O	K ₂ O	K ₂ O	K ₂ O	K ₂ O		
0-6" 6-24"	280 lb/ac		Cl	Cl	Cl	Cl	Cl	Cl		
Chloride			S	S	S	S	S	S		
0-6" 6-24"	78 lb/ac 360 +lb/ac		B	B	B	B	B	B		
Sulfur			Zn	Zn	Zn	Zn	Zn	Zn		
Boron	2.0 ppm		Fe	Fe	Fe	Fe	Fe	Fe		
Zinc	1.21 ppm		Mn	Mn	Mn	Mn	Mn	Mn		
Iron	17.9 ppm		Cu	Cu	Cu	Cu	Cu	Cu		
Manganese	2.7 ppm		Mg	Mg	Mg	Mg	Mg	Mg		
Copper	0.77 ppm		Lime	Lime	Lime	Lime	Lime	Lime		
Magnesium	1242 ppm									
Calcium	5306 ppm									
Sodium	68 ppm									
Org. Matter	4.6 %									
Carbonate (CCE)	2.2 %									
0-6" 6-24"	0.59 mmho/cm 0.7 mmho/cm									
Sol. Salts										
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.9		37.7 meq	% Ca	% Mg	% K	% Na	% H
			6-24" 8.5			(65-75) 70.3	(15-20) 27.4	(1-7) 1.5	(0-5) 0.8	(0-5) 0.0

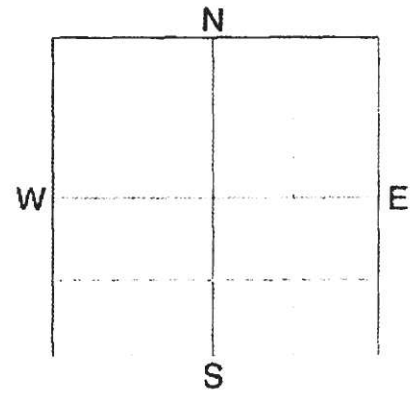
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID 4
 SAMPLE ID 4
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES 0
 PREV. CROP Barley



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386855** BOX # **5492**
 LAB # **NW49155**

Date Sampled **08/26/2019**

Date Received **08/27/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
			YIELD GOAL		YIELD GOAL		YIELD GOAL	
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
0-6" Nitrate	23 lb/ac	*****	N		N		N	
6-24" Nitrate	30 lb/ac	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅	
0-24" Nitrate	53 lb/ac	*****	K ₂ O		K ₂ O		K ₂ O	
0-24" Chloride	44 lb/ac	*****	Cl		Cl		Cl	
0-6" Sulfur	34 lb/ac	*****	S		S		S	
6-24" Sulfur	360 +lb/ac	*****	B		B		B	
Boron	1.3 ppm	*****	Zn		Zn		Zn	
Zinc	1.12 ppm	*****	Fe		Fe		Fe	
Iron	25.1 ppm	*****	Mn		Mn		Mn	
Manganese	3.1 ppm	*****	Cu		Cu		Cu	
Copper	0.66 ppm	*****	Mg		Mg		Mg	
Magnesium	786 ppm	*****	Lime		Lime		Lime	
Calcium	4838 ppm	*****						
Sodium	49 ppm	*****						
Org Matter	3.2 %	*****						
Carbonate (CEC)	2.0 %	*****						
0-6" Sol. Salts	0.37 mmho/cm	*****						
6-24" Sol. Salts	0.54 mmho/cm	*****						

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.8		31.4 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
6-24" 8.4			77.1	20.9	1.4	0.7	0.0

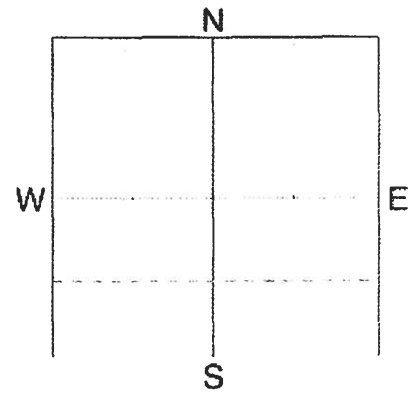
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **12**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386869** BOX # **485**
 LAB # **NW61572**

Date Sampled **09/05/2019**

Date Received **09/08/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
0-6" 6-24"	14 lb/ac 33 lb/ac	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
0-24"	47 lb/ac	*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
Nitrate		*****	N		N		N			
Phosphorus	17 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium	183 ppm	*****	K ₂ O		K ₂ O		K ₂ O			
Chloride	252 lb/ac	*****	Cl		Cl		Cl			
Sulfur	16 lb/ac 276 lb/ac	*****	S		S		S			
Boron	1.4 ppm	*****	B		B		B			
Zinc	1.92 ppm	*****	Zn		Zn		Zn			
Iron	8.5 ppm	*****	Fe		Fe		Fe			
Manganese	1.9 ppm	*****	Mn		Mn		Mn			
Copper	0.74 ppm	*****	Cu		Cu		Cu			
Magnesium	818 ppm	*****	Mg		Mg		Mg			
Calcium	4712 ppm	*****	Lime		Lime		Lime			
Sodium	56 ppm	*****								
Org. Matter	3.5 %	*****								
Carbonate (CEC)	2.9 %	*****								
0-6" 6-24"	0.27 mmho/cm 0.5 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Soil Salts		*****	0-6" 8.3		31.1 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)
		*****	6-24" 8.6			75.8	21.9	1.5	0.8	0.0

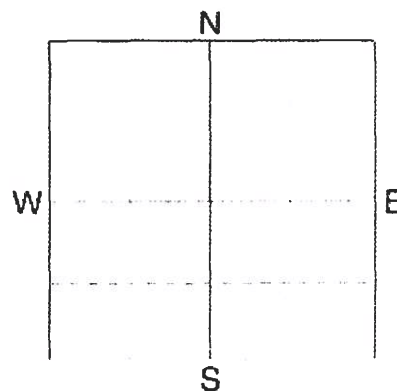
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **FINGAS**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386873** BOX # **303**
 LAB # **NW61577**

Date Sampled **09/05/2019**

Date Received **09/08/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
Depth	Concentration		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
0-6" 6-24"	22 lb/ac 36 lb/ac									
0-24"	58 lb/ac									
Nitrate										
0-6" 6-24"	47 ppm									
Phosphorus										
Potassium	347 ppm									
0-6" 6-24"	276 lb/ac									
Chloride										
0-6" 6-24"	62 lb/ac 360 +lb/ac									
Sulfur										
Boron	1.5 ppm									
Zinc	2.17 ppm									
Iron	18.8 ppm									
Manganese	2.0 ppm									
Copper	1.51 ppm									
Magnesium	1461 ppm									
Calcium	3845 ppm									
Sodium	70 ppm									
Org. Matter	5.7 %									
Carbonate (CEC)	0.3 %									
0-6" 6-24"	0.68 mmho/cm 1.3 mmho/cm									
Sol. Salts										
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 7.8		32.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 8.3			59.0	37.4	2.7	0.9	0.0

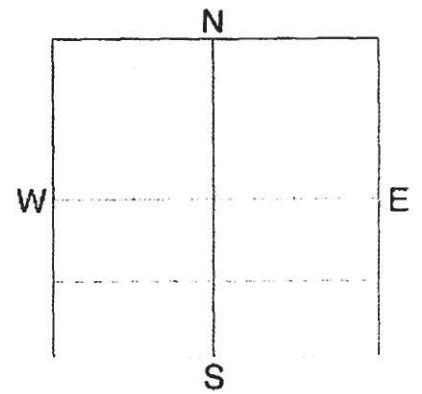
General Comments: Texture is not estimated on high pH soils.



SOIL TEST REPORT

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

FIELD ID **26**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Barley**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386874** BOX # **342**
 LAB # **NW61579**

Date Sampled **09/05/2019**

Date Received **09/08/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
Depth	Rate		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 45 lb/ac 6-24" 30 lb/ac 0-24" 75 lb/ac		N		N		N			
Phosphorus	Olsen 7 ppm		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium	281 ppm		K ₂ O		K ₂ O		K ₂ O			
Chloride	0-24" 112 lb/ac		Cl		Cl		Cl			
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac		S		S		S			
Boron	1.7 ppm		B		B		B			
Zinc	0.75 ppm		Zn		Zn		Zn			
Iron	14.8 ppm		Fe		Fe		Fe			
Manganese	2.6 ppm		Mn		Mn		Mn			
Copper	1.45 ppm		Cu		Cu		Cu			
Magnesium	1683 ppm		Mg		Mg		Mg			
Calcium	4769 ppm		Ca		Ca		Ca			
Sodium	116 ppm		Na		Na		Na			
Org. Matter	6.6 %									
Carbonate (CCE)	2.8 %									
Sol. Salts	0-6" 1.4 mmho/cm 6-24" 1.21 mmho/cm									
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.9		39.1 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)
			6-24" 8.4			61.0	35.9	1.8	1.3	0.0

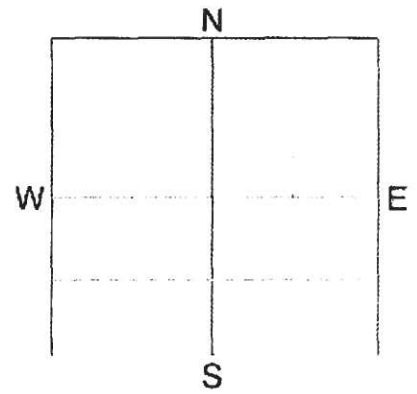
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **16**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386893** BOX # **1101**
 LAB # **NW68396**

Date Sampled **09/16/2019**

Date Received **09/17/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
			N		N		N			
			P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
			K ₂ O		K ₂ O		K ₂ O			
			Cl		Cl		Cl			
			S		S		S			
			B		B		B			
			Zn		Zn		Zn			
			Fe		Fe		Fe			
			Mn		Mn		Mn			
			Cu		Cu		Cu			
			Mg		Mg		Mg			
			Lime		Lime		Lime			
			Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)			
						% Ca	% Mg	% K	% Na	% H
			0-6" 8.3		38.3 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 8.5			67.7	28.7	2.8	0.7	0.0

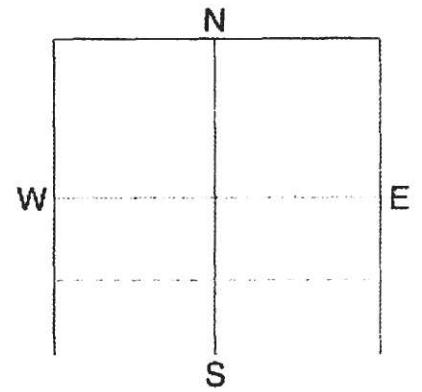
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **15**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386894** BOX # **1155**
 LAB # **NW68400**

Date Sampled **09/16/2019**

Date Received **09/17/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice							
		Low Med High												
			YIELD GOAL		YIELD GOAL		YIELD GOAL							
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES							
			Band/Maint.		Band/Maint.		Band/Maint.							
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
			N		N		N		N		N		N	
			P ₂ O ₅		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅	
			K ₂ O		K ₂ O		K ₂ O		K ₂ O		K ₂ O		K ₂ O	
			Cl		Cl		Cl		Cl		Cl		Cl	
			S		S		S		S		S		S	
			B		B		B		B		B		B	
			Zn		Zn		Zn		Zn		Zn		Zn	
			Fe		Fe		Fe		Fe		Fe		Fe	
			Mn		Mn		Mn		Mn		Mn		Mn	
			Cu		Cu		Cu		Cu		Cu		Cu	
			Mg		Mg		Mg		Mg		Mg		Mg	
			Lime		Lime		Lime		Lime		Lime		Lime	
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)								
			0-6" 8.0		33.7 meq	% Ca	% Mg	% K	% Na	% H				
			6-24" 8.5			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)				
						71.9	24.8	2.5	0.7	0.0				

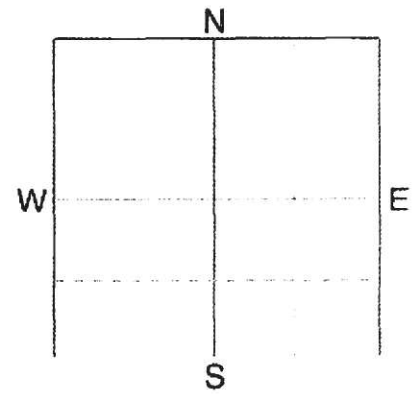
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **M SIMPSON**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP **13-6** RANGE
 SECTION **27** QTR **NE** ACRES **153**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM,
MB R1N 4A8

REF # **19386895** BOX # **1103**
 LAB # **NW68406**

Date Sampled **09/16/2019**

Date Received **09/17/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice							
			YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION						
Nitrate	0-6" 19 lb/ac 6-24" 27 lb/ac													
Nitrate	0-24" 46 lb/ac													
Phosphorus Olsen	21 ppm													
Potassium	217 ppm													
Chloride	0-24" 404 lb/ac													
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac													
Boron	2.0 ppm													
Zinc	2.03 ppm													
Iron	7.8 ppm													
Manganese	1.9 ppm													
Copper	0.68 ppm													
Magnesium	1215 ppm													
Calcium	5623 ppm													
Sodium	110 ppm													
Org. Matter	4.7 %													
Carbonate (CEC)	4.5 %													
Sol. Salts	0-6" 1.15 mmho/cm 6-24" 2.54 mmho/cm													
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)								
			0-6" 8.1		39.3 meq	% Ca	% Mg	% K	% Na	% H				
			6-24" 8.4			(65-75) 71.6	(15-20) 25.8	(1-7) 1.4	(0-5) 1.2	(0-5) 0.0				

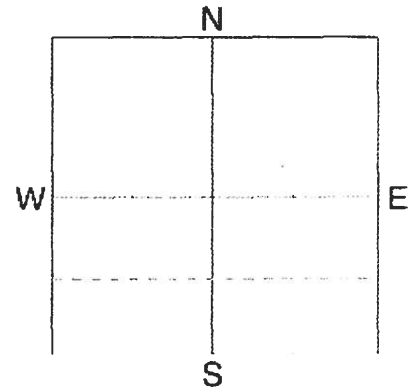
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **13S**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Canola-lb**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386896** BOX # **1255**
 LAB # **NW68410**

Date Sampled **09/16/2019**

Date Received **09/17/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
			YIELD GOAL		YIELD GOAL		YIELD GOAL						
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Nitrate	0-6" 31 lb/ac 6-24" 123 lb/ac 0-24" 154 lb/ac		N		N		N						
Phosphorus Olsen	44 ppm		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅						
Potassium	251 ppm		K ₂ O		K ₂ O		K ₂ O						
Chloride	0-24" 1168 lb/ac		Cl		Cl		Cl						
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac		S		S		S						
Boron	1.9 ppm		B		B		B						
Zinc	2.83 ppm		Zn		Zn		Zn						
Iron	9.1 ppm		Fe		Fe		Fe						
Manganese	1.6 ppm		Mn		Mn		Mn						
Copper	0.99 ppm		Cu		Cu		Cu						
Magnesium	993 ppm		Mg		Mg		Mg						
Calcium	5881 ppm		Lime		Lime		Lime						
Sodium	149 ppm												
Org Matter	4.1 %												
Carbonate (CO ₃)	2.6 %												
Sol. Satus	0-6" 1.66 mmho/cm 6-24" 3.57 mmho/cm												
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)							
			0-6" 7.9 6-24" 8.4		39.0 meq	% Ca (65-75) 75.5	% Mg (15-20) 21.2	% K (1-7) 1.7	% Na (0-5) 1.7	% H (0-5) 0.0			

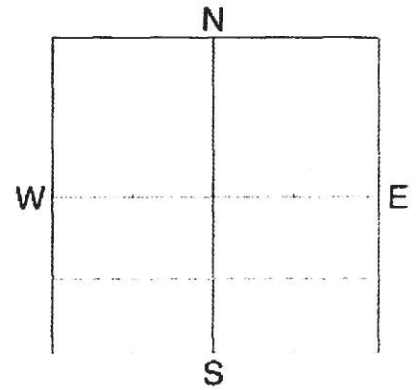
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **13N**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Canola-lb**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19386897** BOX # **1162**
 LAB # **NW68415**

Date Sampled **09/16/2019**

Date Received **09/17/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
Depth	Rate		YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES	YIELD GOAL	SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Nitrate	0-6" 30 lb/ac 6-24" 84 lb/ac 0-24" 114 lb/ac		N		N		N				
Phosphorus	0-6" 38 ppm 6-24" 38 ppm		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅				
Potassium	0-6" 414 ppm 6-24" 414 ppm		K ₂ O		K ₂ O		K ₂ O				
Chloride	0-24" 944 lb/ac		Cl		Cl		Cl				
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac		S		S		S				
Boron	0-6" 2.6 ppm 6-24" 2.6 ppm		B		B		B				
Zinc	0-6" 2.62 ppm 6-24" 2.62 ppm		Zn		Zn		Zn				
Iron	0-6" 22.5 ppm 6-24" 22.5 ppm		Fe		Fe		Fe				
Manganese	0-6" 2.3 ppm 6-24" 2.3 ppm		Mn		Mn		Mn				
Copper	0-6" 1.71 ppm 6-24" 1.71 ppm		Cu		Cu		Cu				
Magnesium	0-6" 1643 ppm 6-24" 1643 ppm		Mg		Mg		Mg				
Calcium	0-6" 5553 ppm 6-24" 5553 ppm		Lime		Lime		Lime				
Sodium	0-6" 115 ppm 6-24" 115 ppm										
Org Matter	0-6" 5.8 % 6-24" 5.8 %										
Carbonate (CCE)	0-6" 3.3 % 6-24" 3.3 %										
Sol. Salt	0-6" 0.7 mmho/cm 6-24" 2.48 mmho/cm										
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
			0-6" 8.0		43.0 meq	% Ca	% Mg	% K	% Na	% H	
			6-24" 8.6			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
						64.5	31.8	2.5	1.2	0.0	

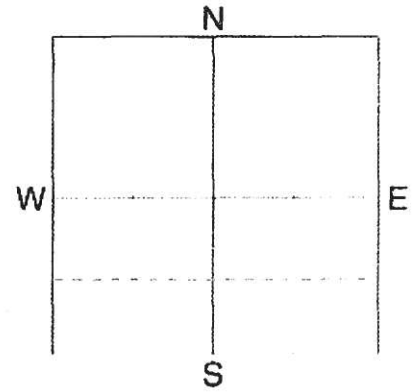
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **1**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE LA PRAIRIE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19772513** BOX # **491**
 LAB # **NW127360**

Date Sampled **11/04/2019**

Date Received **11/05/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL						
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Nitrate	0-6" 8 lb/ac 6-24" 45 lb/ac	*****	N		N		N						
Phosphorus	Olsen 22 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅						
Potassium	461 ppm	*****	K ₂ O		K ₂ O		K ₂ O						
Chloride	0-24" 120 lb/ac	*****	Cl		Cl		Cl						
Sulfur	0-6" 86 lb/ac 6-24" 360 +lb/ac	*****	S		S		S						
Boron	1.2 ppm	*****	B		B		B						
Zinc	2.01 ppm	*****	Zn		Zn		Zn						
Iron	66.6 ppm	*****	Fe		Fe		Fe						
Manganese	5.7 ppm	*****	Mn		Mn		Mn						
Copper	1.8 ppm	*****	Cu		Cu		Cu						
Magnesium	1774 ppm	*****	Mg		Mg		Mg						
Calcium	3242 ppm	*****	Lime		Lime		Lime						
Sodium	112 ppm	*****											
Org. Matter	7.2 %	*****											
Carbonate (CEC)	0.4 %	*****											
Soil Salts	0-6" 0.6 mmho/cm 6-24" 3.02 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)							
						% Ca	% Mg	% K	% Na	% H			
			0-6" 7.4		32.7 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)			
			6-24" 8.2			49.6	45.3	3.6	1.5	0.0			

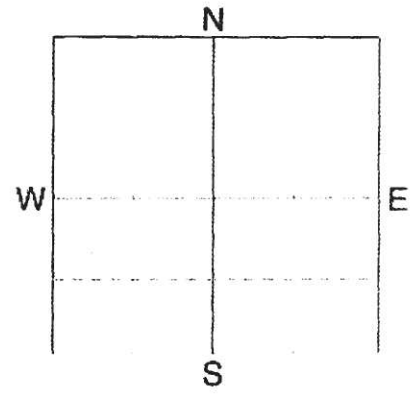
General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



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

SOIL TEST REPORT

FIELD ID 2
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES 0
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE
PORTAGE LA PRAIRIE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19772514** BOX # **576**
 LAB # **NW127362**

Date Sampled **11/04/2019**

Date Received **11/05/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6 lb/ac 6-24" 15 lb/ac 0-24" 21 lb/ac	*****	N		N		N			
Phosphate	Olsen 17 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium	286 ppm	*****	K ₂ O		K ₂ O		K ₂ O			
Chloride	0-24" 24 lb/ac	*****	Cl		Cl		Cl			
Sulfur	0-6" 22 lb/ac 6-24" 360 +lb/ac	*****	S		S		S			
Boron	1.6 ppm	*****	B		B		B			
Zinc	1.33 ppm	*****	Zn		Zn		Zn			
Iron	41.1 ppm	*****	Fe		Fe		Fe			
Manganese	3.7 ppm	*****	Mn		Mn		Mn			
Copper	1.09 ppm	*****	Cu		Cu		Cu			
Magnesium	1528 ppm	*****	Mg		Mg		Mg			
Calcium	4631 ppm	*****	Lime		Lime		Lime			
Sodium	68 ppm	*****								
Org. Matter	5.8 %	*****								
Carbonate (CEC)	1.2 %	*****								
Sol. Salts	0-6" 0.42 mmho/cm 6-24" 1.27 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.6 6-24" 8.4		36.9 meq	% Ca (65-75) 62.7	% Mg (15-20) 34.5	% K (1-7) 2.0	% Na (0-5) 0.8	% H (0-5) 0.0

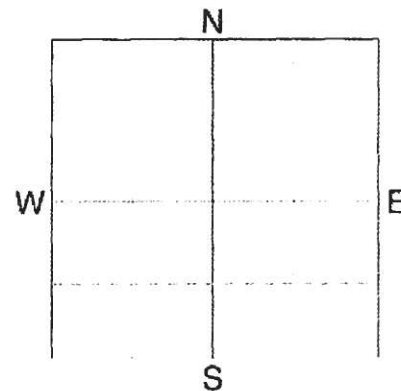
General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)



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

SOIL TEST REPORT

FIELD ID **3**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE LA PRAIRIE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4AS
MB

REF # **19772515** BOX # **499**
 LAB # **NW127363**

Date Sampled **11/04/2019**

Date Received **11/05/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation Low Med High	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6 lb/ac	*****	N		N		N			
	6-24" 9 lb/ac		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
	0-24" 15 lb/ac		K ₂ O		K ₂ O		K ₂ O			
Olsen Phosphorus	9 ppm	*****	Cl		Cl		Cl			
Potassium	246 ppm	*****	S		S		S			
Chloride	4 lb/ac	*****	B		B		B			
Sulfur	8 lb/ac	*****	Zn		Zn		Zn			
Boron	1.9 ppm	*****	Fe		Fe		Fe			
Zinc	0.79 ppm	*****	Mn		Mn		Mn			
Iron	14.8 ppm	*****	Cu		Cu		Cu			
Manganese	1.8 ppm	*****	Mg		Mg		Mg			
Copper	1.09 ppm	*****	Lime		Lime		Lime			
Magnesium	1414 ppm	*****								
Calcium	5243 ppm	*****								
Sodium	36 ppm	*****								
Org. Matter	5.3 %	*****								
Carbonate (CCP)	2.6 %	*****								
Soil Salts	0-6" 0.43 mmho/cm	*****								
	6-24" 0.41 mmho/cm	*****								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 8.0		38.8 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)
			6-24" 8.9			67.6	30.4	1.6	0.4	0.0

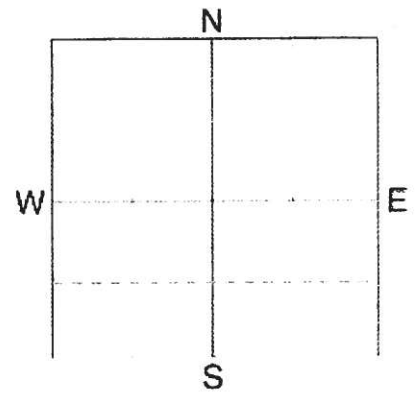
General Comments: Texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **17**
 SAMPLE ID
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
NORTHERN BREEZE

PORTAGE, MB

SUBMITTED BY: **MU1503**
SHUR-GRO FARM - PORTAGE
38173 HWY 1 W
PORTAGE LA PRAIRIE RM, R1N 4A8
MB

REF # **19772534** BOX # **10369**
 LAB # **NW140979**

Date Sampled **11/08/2019**

Date Received **11/09/2019**

Date Reported **3/16/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		Low Med High							
			YIELD GOAL		YIELD GOAL		YIELD GOAL		
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Nitrate	0-6" 14 lb/ac 6-14" 12 lb/ac 0-14" 26 lb/ac	*****	N		N		N		
Phosphorus	Olsen 52 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅		
Potassium	633 ppm	*****	K ₂ O		K ₂ O		K ₂ O		
Chloride	0-6" 7 lb/ac 6-14" 8 lb/ac	***	Cl		Cl		Cl		
Sulfur	0-6" 20 lb/ac 6-14" 99 lb/ac	*****	S		S		S		
Boron	1.3 ppm	*****	B		B		B		
Zinc	2.83 ppm	*****	Zn		Zn		Zn		
Iron	80.0 ppm	*****	Fe		Fe		Fe		
Manganese	5.2 ppm	*****	Mn		Mn		Mn		
Copper	1.87 ppm	*****	Cu		Cu		Cu		
Magnesium	1742 ppm	*****	Mg		Mg		Mg		
Calcium	4581 ppm	*****	Lime		Lime		Lime		
Sodium	54 ppm	*****							
Org. Matter	7.4 %	*****							
Carbonate (CEC)	1.4 %	*****							
Sol. Salts	0-6" 0.75 mmho/cm 6-14" 1.05 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)		
					% Ca	% Mg	% K	% Na	% H
			0-6" 7.0		39.9 meq	(65-75)	(15-20)	(1-7)	(0-5)
			6-24" 8.2			57.4	36.4	4.1	0.6 1.6

General Comments: Clays/Clay Loams (CEC range = 30+) (Fine)
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



PROJECT NAME	NORTHERN BREEZE COLONY SW 35-13-6W	BUILDING AREA	N/A
SHEET TITLE	TRUCK HAUL ROUTE	DRAWN BY	R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	MARCH 2020	DRAWING SCALE	SCALED TO FIT
		SHEET NUMBER	SP-3

**South-Man
Engineering**

8-851 Logansdale Blvd. | Winnipeg, Manitoba | R2J 3K4
 PH. (204) 568-8652 | FAX (204) 568-2204



Data request D Edossa SouthManEng 20200608 N Breeze Col Layer Barn

1 message

Murray, Colin (ARD) <Colin.Murray@gov.mb.ca>
 To: Desalegn Edossa <desalegn.southmaneng@gmail.com>

Fri, Jun 12, 2020 at 1:10

Hi Edossa

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's (CDC) rare species database for your area of interest. This includes the primary locations: SW-35-013-06W1 and NW-35-013-06W1; and a two kilometer radius buffer from the edge of the location boundary.

The search resulted in the following occurrences:

1. Within the footprint or primary location(s):

Within SW-35-013-06W1:

INFORMAL TAXA	SCIENTIFIC NAME	COMMON NAME	SRANK	ESEA	SARA	COSEWIC
Vertebrate Animal	Contopus virens	(Eastern Wood-pewee)	S3B		Special Concern	Special Concern

Within NW-35-013-06W1:

No listed or tracked species occurrences found at this time.

2. Within 2km of the footprint boundary:

Within 2km of SW-35-013-06W1 and NW-35-013-06W1:

INFORMAL TAXA	SCIENTIFIC NAME	COMMON NAME	SRANK	ESEA	SARA	COSEWIC
Vertebrate Animal	Aechmophorus occidentalis	(Western Grebe)	S3S4B		Special Concern	Special Concern
Vascular Plant	Celtis occidentalis	(Hackberry)	S1?	Threatened		
Vertebrate Animal	Dolichonyx oryzivorus	(Bobolink)	S3S4B		Threatened	Threatened
Vertebrate Animal	Tympanuchus phasianellus	(Sharp-tailed Grouse)	S5			

3. General area records low locational accuracy:

No listed or tracked species occurrences found at this time.

4. Found in broader area and similar habitat:

INFORMAL TAXA	SCIENTIFIC NAME	COMMON NAME	SRANK	ESEA	SARA	COSEWIC
Vascular Plant	Agalinis aspera	(Rough Agalinis)	S2	Endangered	Endangered	Endangered

Further information on this ranking system can be found on our website at: <http://www.natureserve.org/conservation-tools/conservation-status-assessment>.

These designations can be found at:

<http://web2.gov.mb.ca/laws/statutes/ccsm/e111e.php>,

<https://www.canada.ca/en/environment-climate-change/services/committee-status-endangered-wildlife.html> and

<http://www.sararegistry.gc.ca/default.asp?lang=En&n=24F7211B-1>.

Manitoba's recommended setback distances can be found at: https://www.gov.mb.ca/sd/pubs/conservation-data-centre/mbcddc_bird_setbacks.pdf.

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 CDC staff and others who have shared their data, and reflect 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.

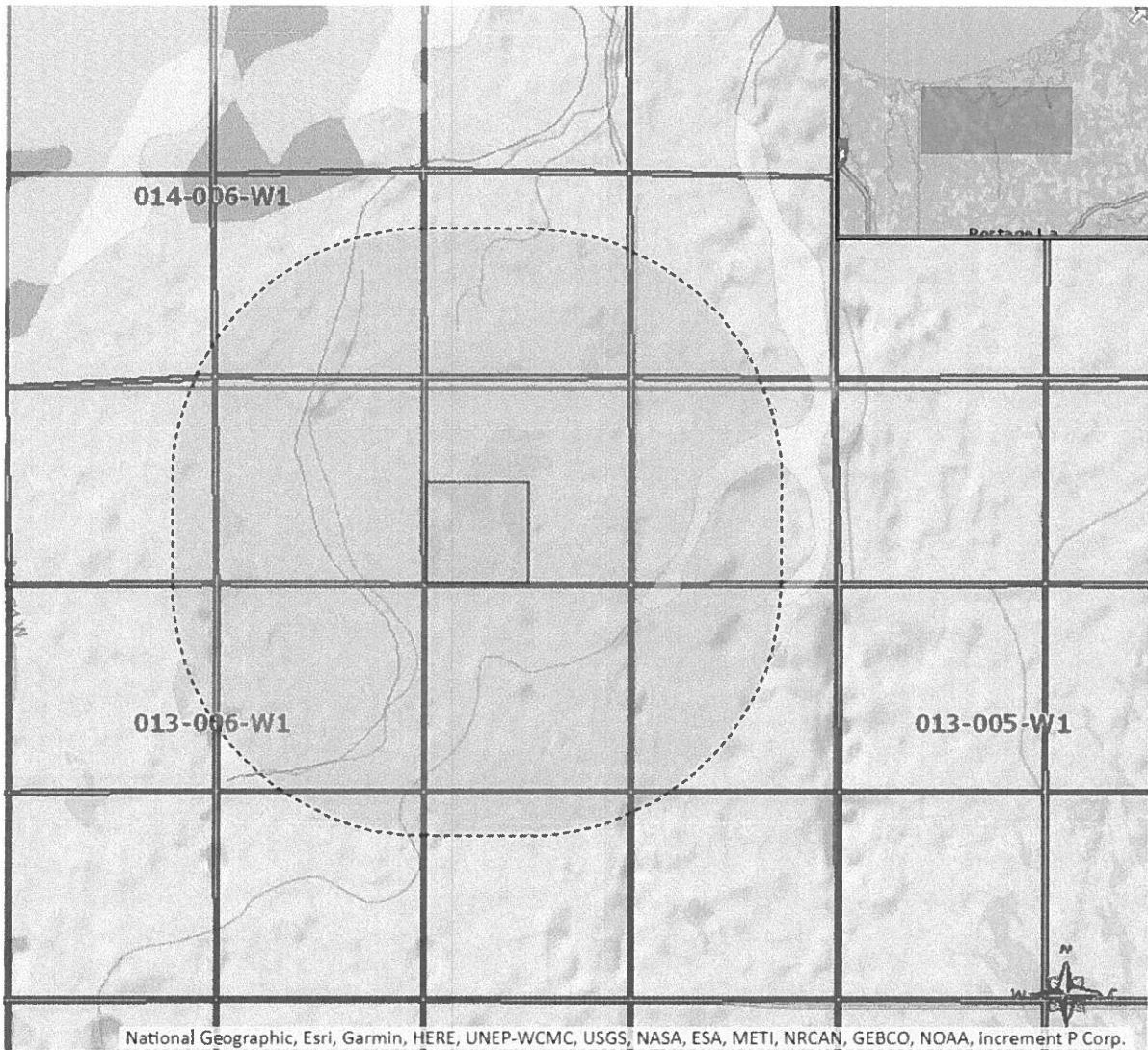
We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information contact me directly at (204) 945-7760.

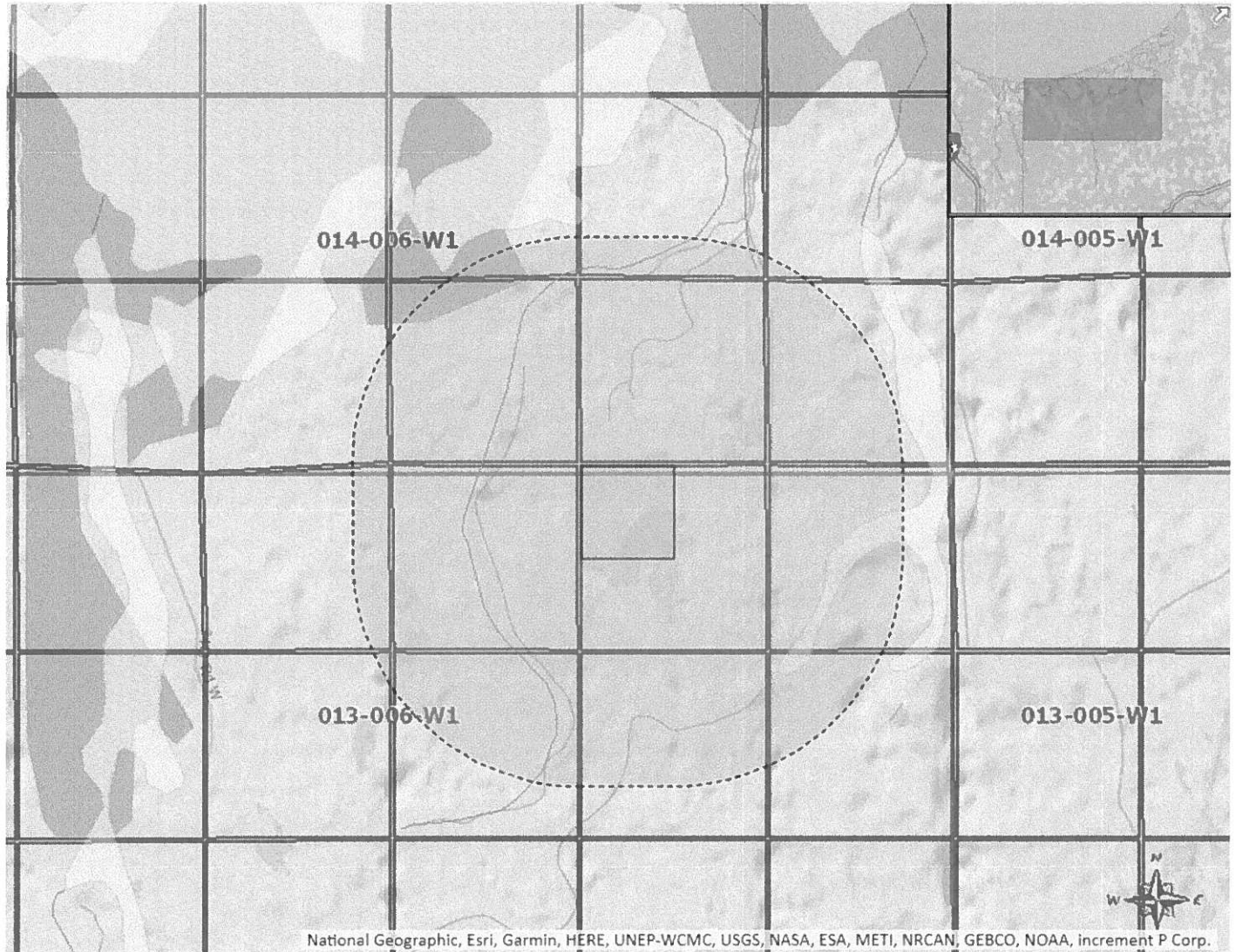
Colin

Reference screen clip:

SW-35-013-06W1:



NW-35-013-06W1:



Colin Murray
 Information Manager
 Manitoba Conservation Data Centre
 Wildlife and Fisheries Branch
 Agriculture and Resource Development

200 Sauteaux Crescent
 Winnipeg, Manitoba, R3J3W3
 204-945-7760
colin.murray@gov.mb.ca
<http://www.gov.mb.ca/sd/cdc/index.html>



-----Original Message-----

From: +WPG969 - Form Submissions (FIN) <noreply@gov.mb.ca>
 Sent: June 8, 2020 10:02 AM
 To: Murray, Colin (ARD) <Colin.Murray@gov.mb.ca>
 Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by CDC Information Request () on Monday, June 8, 2020 at 10:01:58

DocumentID: Manitoba_Sustainable_Development

Project Title: Northern Breeze Colony-Layer Barn

Date Needed: 2020/06/10

Name: Desalegn Edossa

Company/Organization: South-Man Engineering

6/12/2020

Gmail - Data request D Edossa SouthManEng 20200608 N Breeze Col Layer Barn

Address: 8-851 Lagimodiere BLVD

City: winnipeg

Province/State: Manitoba

Phone: (204) 963-9144

Email: desalegn.southmaneng@gmail.com

Project Description: The information will be used to determine the impacts on species by a proposed expansion of livestock operation.

Information Requested: Would like to know if there are any species at risk or endangered in region that may be impacted by the proposed expansion of livestock operation.

Format Requested: Microsoft Word Document as email attachment.

Location: SW 35-13-6W and NW 35-13-6W in the RM of Portage La Prairie.

action: Submit

Strategy to avoid Eastern Wood-Pewee's habitat destruction

The Eastern Wood-Pewee was listed as a species of Special Concern by Committee on the Status of Endangered Wildlife in Canada in November 2012 (COSEWIC, 2012)¹. North American Breeding Bird Survey (BBS) data show that it has experienced long-term declines in Canada. The Manitoba long-term trend is not statistically significant overall, but there is a significant trend in every Bird Conservation Region (BCR) in the species' provincial range except the Prairie Potholes. This species would benefit from careful planning of resource extraction activities in wooded habitats, especially in the boreal-parkland transition. There are opportunities for foresters to manage habitat for this species through selective harvesting and thinning. Mosquito fogging in urban areas should be studied in terms of its local impact on aerial insectivores and other species, and regulated as appropriate.

Threats are not understood, but are thought to include:

- 1) degradation of habitat quality on the breeding grounds due to urban development and reduced levels of forest management;
- 2) loss and/or degradation of habitat on the wintering grounds;
- 3) large-scale changes in the availability of flying-insect prey due to unknown causes;
- 4) high rates of mortality during migration and/or on the wintering grounds;
- 5) high rates of nest predation from increasing numbers of avian predators; and
- 6) changes in forest structure due to White-tailed Deer over-grazing.

The proposed construction of barns and manure storage will be undertaken on a small parcel of land within the quarter section (SW 35-13-6W) west of the wooded habitat of Eastern Wood-Pewee. Therefore, it is anticipated that Eastern Wood-Pewee habitat is not likely to be affected by the proposed construction activities. Breeding activity extends from late May through August and occasionally September. To avoid damaging or destroying the habitat or existence of Eastern Wood-Pewee on the proposed site, we recommend that no construction activities take place in close proximity to the wooded area to the east during the breeding season.

¹ COSEWIC (2012). *COSEWIC assessment and status report on the Eastern Wood-pewee Contopus virens in Canada*. Committee on the Status of Endangered Wildlife in Canada. Ottawa. x + 39 pp. (www.registrelep-sararegistry.gc.ca/default_e.cfm).



PORTAGE LA PRAIRIE PLANNING DISTRICT



FILE NO.: PR 85-20
FEE: \$ 1,100.00

APPLICATION FOR:

- Conditional Use Variation Order Road Creation
- Development Plan Amendment Zoning Amendment

Applicant: **Northern Breeze Colony Farms Ltd.**

Legal Owner: **2965748 Manitoba Ltd..**

Location of Property: **31143 Rd 77N**

Legal Description: **SW 35-13-6W & NW 35-13-6W**

Roll Number: **255700 & 255500**

Zoning: **AG**

The Portage la Prairie Planning District requires that the following, as indicated, be supplied in order to process this application:

- a) Status of Title
- b) Site Plan
- c) Authorization to apply
- d) Survey Plan by M.L.S.
- e) Valid Agreement to purchase
- f) Other Data:

APPLICABLE DOCUMENTS:

Development Plan: PORTAGE LA PRAIRIE PLANNING DISTRICT 02-2018
 Zoning: CITY BY-LAW NO. 10-8492 OR RM BY-LAW NO. 3096

PROPOSED CHANGES: Conditional use, to start the Technical Review Process, to allow an expansion of livestock operations for the following:

- 1) existing farrow to finish hog operation of 750 Animal Units (AU) (600 hogs) to be expanded to 900 AU (720 hogs);
- 2) new chicken layer operation of 99.6AU (12,000 layers) to be added to the farm.

REASONS IN SUPPORT OF APPLICATION: Applicant was approved for a conditional use to allow a 600 (750 AU) farrow to finish hog operation in 1993 (Conditional Use #93-19, minute reference # 94-72). They were also granted a conditional use to allow a poultry operation of 114 AU for heavy tom turkey operation in 1999 (Conditional Use # 3-99, minute reference #99-208). The turkey operation is to remain as is.

I undertake to observe and perform all provisions of the Planning Act, the applicable Development Plan, Basic Planning Statement, Zoning By-law or Planning Scheme, any Development Agreement entered into under Section 150/151 of The Planning Act and any applicable conditions imposed under Parts 4, 5, 6 and 7 of the Planning Act, and the provisions of other relevant laws or by-laws.

I ALSO FULLY UNDERSTAND THAT THE FEE REQUIRED FOR THIS APPLICATION IS NOT REFUNDABLE.

Signature of Owner: _____

Date:

Address of Owner: _____ Phone: _____

Signature of Applicant: *Ernie*

Date: December 17, 2020

Address of Applicant: Box 1030 Portage Phone: 204-871-0342

Application Rec'd by: *S. Lynn Anderson*

Date: December 17, 2020



8-851 Lagimodiere Blvd.
Winnipeg, MB R2J 3K4

Phone: 204.668.9652
Fax: 204.668.9204
E-mail: sme@southmaneng.com

Don Malinowski
Senior Planner
Community & Regional Planning Branch
Technical Review Section
604-800 Portage Ave.
Winnipeg MB
R3G 0N4

February 22, 2021

**Re: Northern Breeze Colony Farms Ltd.
Technical Review - Response to Request for Additional Information**

Dear Mr. Malinowski;

In response to concerns expressed with regards to potential flooding within the proposed development area, the proponent has verified that overland flooding had occurred in 2011. In light of this situation it will be proposed any new construction or a perimeter dyke will be constructed to flood protection levels. These works will be coordinated in conjunction with Manitoba Infrastructure through the permitting process that has been established and the flood protection levels as indicated by their department..

I trust this response will adequately address the concern expressed. Please feel free to contact me if you have any additional questions or concerns.

Respectfully Submitted

South-Man Engineering

Per

A handwritten signature in black ink, appearing to read "Peter Grieger".

Peter Grieger, P. Eng