Field 1

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(15) Lornes **W 31-6-11** **Acres:** 223 (225.2 GPS)

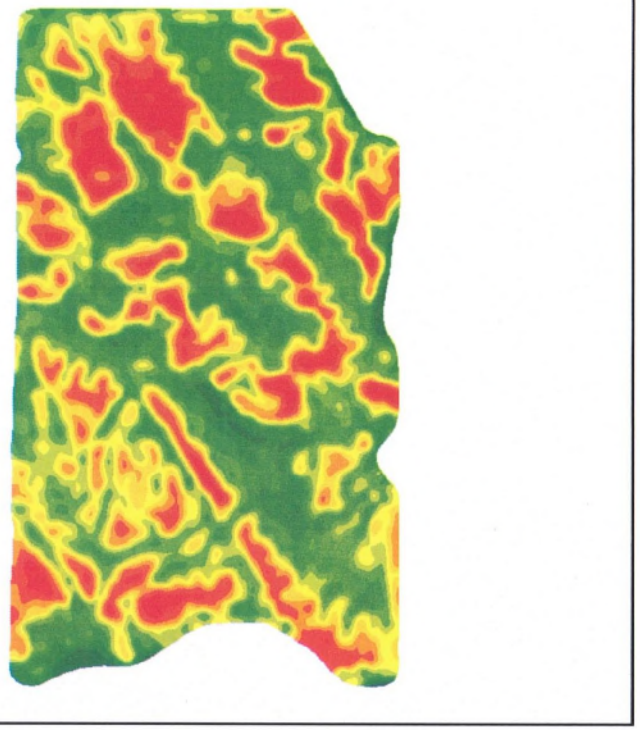
Crop: Soybeans-Enlist

Last Crop: Wheat-Red Spring(SY Manness)

Yield Goal (bu/ac) 40.3

Machine Controller: X20

Prescription File: LornesSoys25



Zone	Acres	YieldGoal (bu/ac)	Soybeans2MAP Layer 1	Layer 2	Layer 3	Layer 4	Layer 5
1	13.3	30			40		
2	21	30			40		
3	20.8	35			40		
4	22.2	40			40		
5	24.7	45			40		
6	28.4	50			40		
7	38.4	45			40		
8	41.5	40			40		
9	13.9	35			40		
10	2.5	30			40		
Average:		40.3			40.0		

Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	15	2	57	31	4.1	7.9	7 (Olsen)	301	16	10	1.2	1.0	1.0		0.43	Nov 19, 2024
zone 3,4	19	6	65	25	4.1	7.5	17 (Olsen)	407	12	23	1.8	2.6	0.7		0.43	Nov 19, 2024
zone 5,6	23	6	115	44	6.3	7.3	16 (Olsen)	344	32	40	2.0	1.0	1.1		0.56	Nov 19, 2024
zone 7,8	35	14	79	26	5.7	7.3	23 (Olsen)	297	10	31	1.5	1.0	0.7		0.33	Nov 19, 2024
zone 9,10	7	12	101	32	4.5	7.7	10 (Olsen)	345	120	39	1.9	1.0	1.6		0.98	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 2

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(2) Around Slough | **SW 5-7-11** | **Acres:** 138 (141.5 GPS)

Crop: Wheat-Red Spring(AAC Starbuck VB)

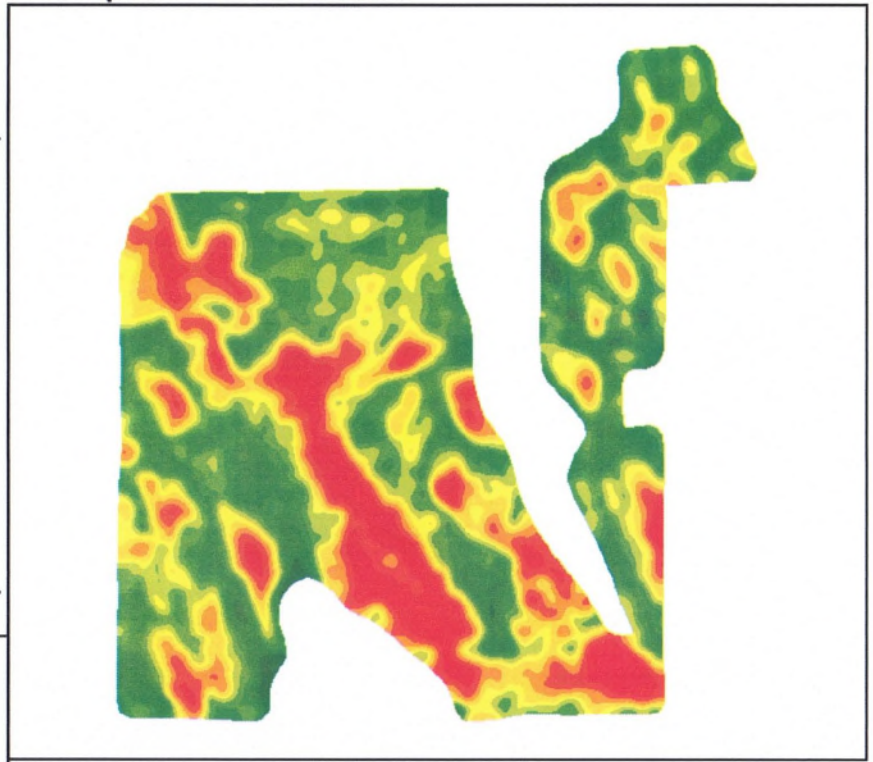
Last Crop: Oats(AAC Douglas)

Yield Goal (bu/ac) 74.5

Machine Controller: X20

Prescription File: ASWheat25

Zone	Acres	YieldGoal (bu/ac)	Wheat2 Layer 1	Layer 2	MAPUreaPotash4 Layer 3	Layer 4	Layer 5
1	11.6	40		120	75		
2	10.6	50		115	75		
3	11.4	60		115	75		
4	12.9	80		115	75		
5	15.7	90		110	75		
6	18.9	90		110	75		
7	22.8	90		115	75		
8	22.3	80		120	75		
9	15.2	60		125	75		
10	1.5	50		130	75		
Average:		74.5		116.2	75.0		



Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	16	16	48	18	6.1	7.4	15 (Olsen)	339	14	5	1.0	0.8	0.6		0.38	Sep 04, 2024
zone 3,4	17	19	50	15	5.7	6.9	25 (Olsen)	282	4	20	1.2	0.9	0.5		0.39	Sep 04, 2024
zone 5,6	24	30	81	13	6.5	6.9	14 (Olsen)	234	12	22	1.2	0.8	0.7		0.41	Sep 04, 2024
zone 7,8	32	15	43	8	6.3	7.2	19 (Olsen)	239	10	34	1.4	0.8	0.8		0.47	Sep 04, 2024
zone 9,10	12	32	59	14	6.0	7.7	13 (Olsen)	228	120	16	1.8	1.0	1.9		0.80	Sep 04, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 3

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(22) West Nicholas | **NW 5-7-11** | **Acres:** 115 (110.1 GPS)

Crop: Canola-Liberty(L340PC (Lumiderm))

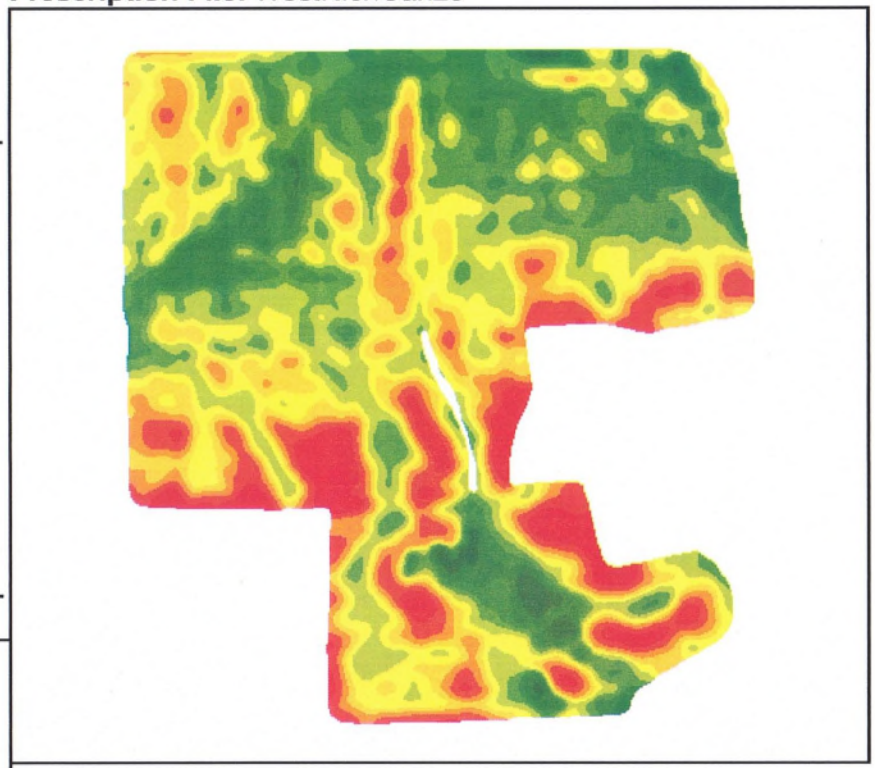
Last Crop: Peas(AAC Carver Y)

Yield Goal (bu/ac) 49.8

Machine Controller: X20

Prescription File: WestNichCan25

Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Urea4 Layer 4	Layer 5
1	5.6	35		5.7	40		
2	8.2	35		5.2	40		
3	10.6	45		5	40		
4	13.5	50		4.7	40		
5	18.3	60		4.7	40		
6	19.4	60		4.7	40		
7	16.5	50		5	40		
8	12.5	45		5.2	40		
9	5.4	40		5.5	40		
10	1.2	35		5.7	40		
Average:		49.8		5.0	40.0		



Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	12	11	20	3	5.9	6.2	34 (Olsen)	381	4	3	2.8	1.0	0.4		0.10	Aug 28, 2024
zone 3,4	22	23	34	4	7.8	6.8	36 (Olsen)	330	10	10	2.1	1.0	1.0		0.36	Aug 28, 2024
zone 5,6	34	51	33	1	6.9	7.9	10 (Olsen)	189	28	9	0.8	1.1	2.7		0.53	Aug 28, 2024
zone 7,8	26	40	18	3	8.1	7.8	6 (Olsen)	170	34	11	1.0	0.8	2.7		0.42	Aug 28, 2024
zone 9,10	6	31	54	2	4.9	8.5	6 (Olsen)	175	60	12	0.7	1.0	2.8		0.64	Aug 28, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 4 & 5

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(12) Kens | **NE 5-7-11** | **Acres:** 82 (82.3 GPS)

Field 4 and 5 total is 111 acres

Crop: Wheat-Red Spring(AAC Starbuck VB)

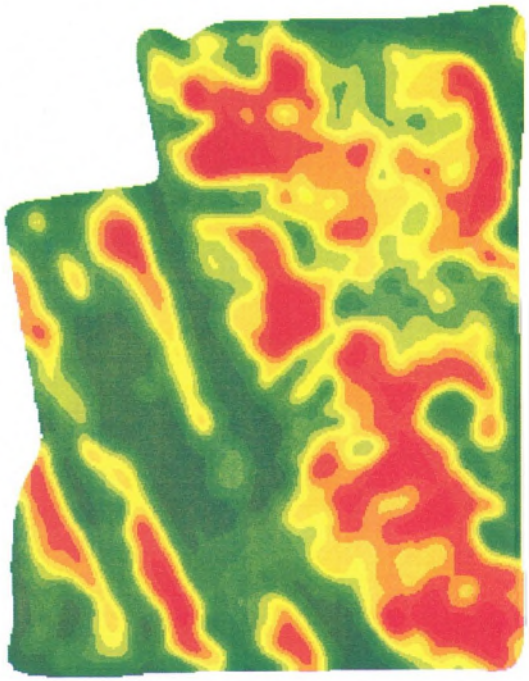
Last Crop: Canola-Liberty(L340PC (Lumiderm))

Yield Goal (bu/ac) 79.1

Machine Controller: X20

Prescription File: KenWheat25

Zone	Acres	YieldGoal (bu/ac)	Wheat2 Layer 1	MAPS Layer 2	Urea3 Layer 3	Potash4 Layer 4	Layer 5
1	4.8	50		120	75	185	
2	8.6	60		115	75	185	
3	8.9	70		115	75	160	
4	8.6	90		113	75	160	
5	8.2	100		113	75	155	
6	9.1	100		113	75	155	
7	8.5	100		113	75	145	
8	8.3	90		120	75	145	
9	9.2	70		125	75	185	
10	8.8	50		130	75	185	
Average:		79.1		117.7	75.0	165.4	



Notes: at 290lb max only getting 115 N (115-21-30-0) - might have to seperate urea. not really calling for potash so could potentially leave out?

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	16	17	99	18	5.9	6.4	23 (Olsen)	412	16	3	1.8	1.0	0.5		0.46	Nov 19, 2024
zone 3,4	21	26	80	31	7.7	5.6	20 (Olsen)	405	22	6	2.2	0.9	0.3		0.34	Nov 19, 2024
zone 5,6	21	21	75	32	7.2	5.8	31 (Olsen)	507	12	4	2.3	0.7	0.2		0.36	Nov 19, 2024
zone 7,8	20	26	78	31	6.7	5.7	29 (Olsen)	538	30	7	2.4	0.9	0.4		0.30	Nov 19, 2024
zone 9,10	22	15	92	15	6.5	6.1	41 (Olsen)	558	32	8	2.8	1.1	0.2		0.34	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

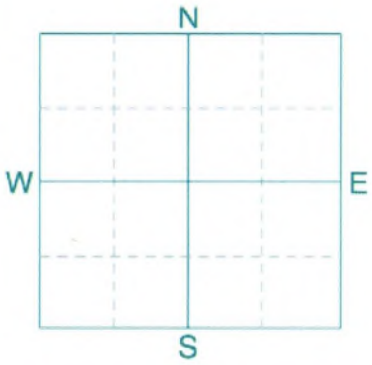
Field 6

Field2Field Agronomy Inc.

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

SOIL TEST REPORT

FIELD ID **NE 19-6-10W**
SAMPLE ID **Zone 1**
FIELD NAME **Roberts**
COUNTY **W**
TWP **6** RANGE **10**
SECTION **19** QTR **NE** ACRES **160**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy

Bruxells, MB

SUBMITTED BY: **FI6625**
FIELD 2 FIELD AGRONOMY
BOX 357
MIAMI, MB **R0G 1H0**

REF # **5365106** BOX # **10825**
LAB # **NW214513**

Date Sampled | Date Received **10/19/2024** | Date Reported **10/28/2024**

Nutrient In The Soil			Interpretation (VLow Low Med High)
Nitrate	0-6"	71 lb/acre	
	6-24"	66 lb/acre	**********
	0-24"	137 lb/acre	
Phosphorus	Olsen (0-6")	6 ppm	**********
Potassium		194 ppm	**********
Chloride	0-24"	44 lb/acre	**********
Sulfur	0-6"	26 lb/acre	**********
	6-24"	60 lb/acre	**********
Boron		0.9 ppm	**********
Zinc		0.78 ppm	**********
Iron		13.8 ppm	**********
Manganese		4.1 ppm	**********
Copper		0.86 ppm	**********
Magnesium		423 ppm	**********
Calcium		5450 ppm	**********
Sodium		25 ppm	****
Org.Matter		3.8 %	**********
Carbonate(CCE)		3.6 %	**********
Sol. Salts	0-6"	0.65 mmho/cm	**********
	6-24"	0.38 mmho/cm	**********

1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
Wheat-Spring			Corn-Silage			Soybeans		
YIELD GOAL			YIELD GOAL			YIELD GOAL		
70 BU			30 Tons			45 BU		
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Band/Maint.			Band/Maint.			Band/Maint.		
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION
N	27		N	125		N	***	
P_2O_5	46	Band *	P_2O_5	108	Band *	P_2O_5	40	Band *
K_2O	26	Band *	K_2O	249	Band *	K_2O	53	Band *
Cl	0		Cl		Not Available	Cl	0	
S	5	Band (Trial)	S	5	Band (Trial)	S	5	Band (Trial)
B	0		B	0		B	0	
Zn	0		Zn	2	Band	Zn	1	Band
Fe	0		Fe	0		Fe	0	
Mn	0		Mn	0		Mn	0	
Cu	0		Cu	0		Cu	0	
Mg	0		Mg	0		Mg	0	
Lime			Lime			Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.6 6-24" 8.1		31.4 meq	(65-75) 86.8	(15-20) 11.2	(1-7) 1.6	(0-5) 0.3	(0-5) 0.0

General Comments: Fine-textured (CEC: 31+ meq)

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 50 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 108 K2O = 249 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Field 7

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(20) Top Hill **W-NW 28-6-11** **Acres:** 33 (31.7 GPS)

Crop: Canola-Liberty(L340PC (Lumiderm))

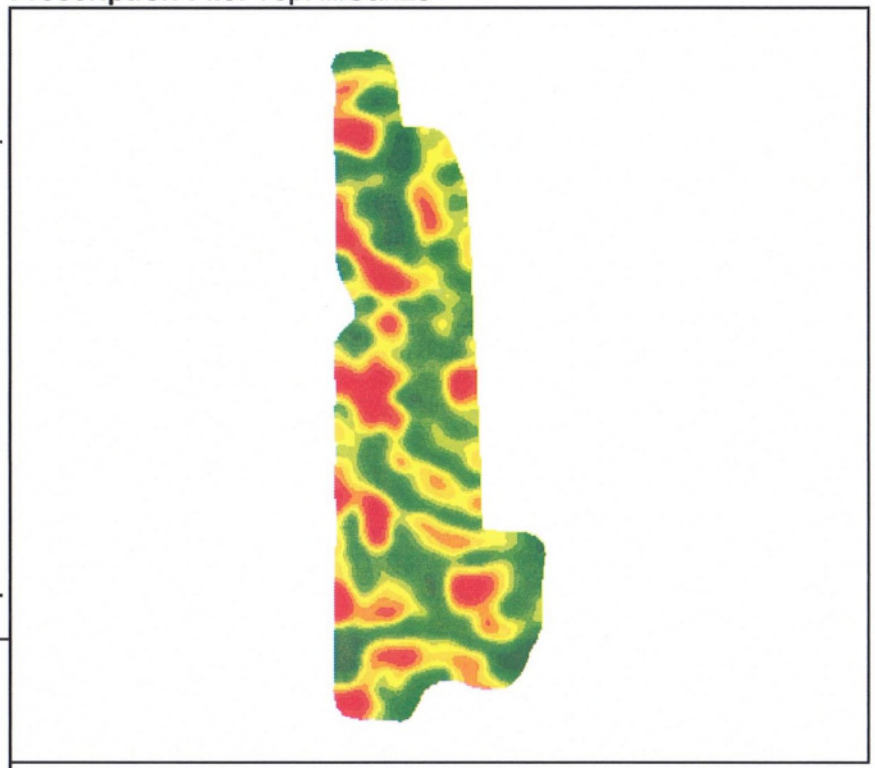
Last Crop: Wheat-Red Spring(SY Manness)

Yield Goal (bu/ac) 49.3

Machine Controller: X20

Prescription File: TopHillCan25

Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Urea4 Layer 4	Layer 5
1	1.9	35	40	5.2	47	170	
2	2	40	40	5	47	170	
3	2.8	45	69	4.7	47	220	
4	3.2	55	69	4.7	47	220	
5	3.9	60	62	4.7	47	180	
6	4.5	60	62	4.7	47	180	
7	4.3	55	62	5	47	245	
8	4.6	45	62	5.2	47	245	
9	3.7	40	62	5.5	47	245	
10	1.4	35	62	5.7	47	245	
Average:		49.3	60.6	5.0	47.0	214.4	



Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	12	8	58	41	3.7	7.8	25 (Olsen)	328	120	9	2.1	1.8	1.3		0.69	Nov 19, 2024
zone 3,4	19	15	59	33	4.0	7.8	14 (Olsen)	188	12	9	1.6	1.1	1.0		0.43	Nov 19, 2024
zone 5,6	26	11	54	38	3.7	7.9	25 (Olsen)	277	32	10	2.0	1.6	1.2		0.39	Nov 19, 2024
zone 7,8	28	14	67	22	3.9	7.7	18 (Olsen)	257	20	8	3.2	3.9	0.8		0.34	Nov 19, 2024
zone 9,10	16	19	56	27	4.8	7.8	22 (Olsen)	245	18	28	2.2	1.2	1.3		0.48	Nov 19, 2024

Stephanie Stinson
cell:

Field 8

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(27) South Farm | **E-NW 28-6-11** | **Acres:** 35 (29.6 GPS)

Crop: Wheat-Red Spring(AAC Starbuck VB)

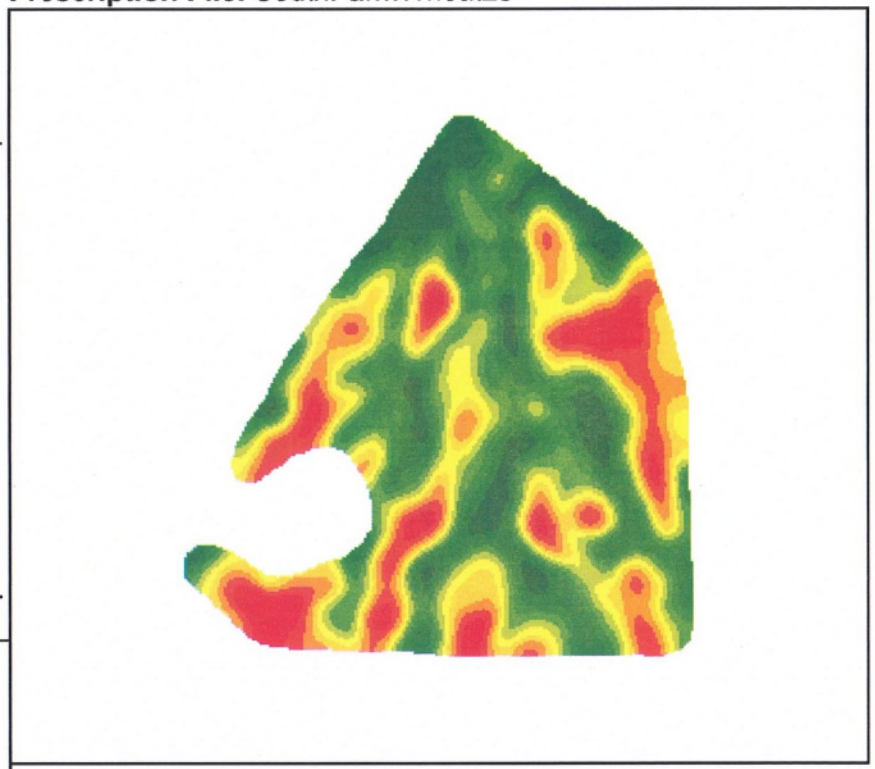
Last Crop: Canola-Liberty(L340PC)

Yield Goal (bu/ac) 80.6

Machine Controller: X20

Prescription File: SouthFarmWheat25

		YieldGoal	Wheat1	MAP2	Urea3	Potash4	
Zone	Acres	(bu/ac)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5
1	1.5	50		120	75		
2	2.4	60		115	75		
3	2.8	70		110	75		
4	3	90		110	75		
5	2.9	100		110	75		
6	3	100		110	75		
7	3.7	100		115	75		
8	4.1	90		120	75		
9	4	70		125	75		
10	2.8	50		130	75		
Average:		80.6		116.7	75.0		



Notes:

Field Area	% Field	N(22)	N(23)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	13	35	74	3.8	7.8	23 (Olsen)	192	16	17		0.7	0.0		0.52	Nov 04, 2023
zone 3,4	19	32	52	4.7	7.8	18 (Olsen)	222	18	14		0.6	0.0		0.53	Nov 06, 2023
zone 5,6	20	51	39	5.4	7.8	26 (Olsen)	258	120	27		0.9	0.0		0.91	Nov 06, 2023
zone 7,8	26	52	62	6.8	8.1	20 (Olsen)	202	60	30		0.9	0.0		0.70	Nov 06, 2023
zone 9,10	23	53	26	7.1	8.1	28 (Olsen)	255	62	18		1.1	0.0		0.85	Nov 06, 2023

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 9

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(17) North of Barn | **SW 33-6-11** | **Acres:** 90 (86.7 GPS)

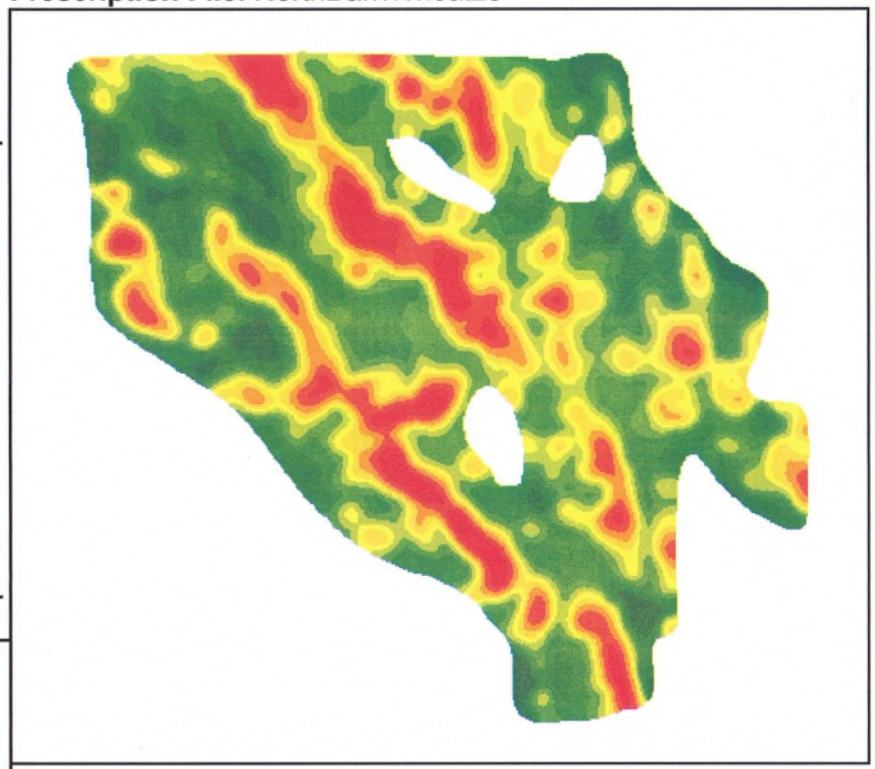
Crop: Wheat-Red Spring(AAC Starbuck VB)

Last Crop: Corn-RR(MS 8270R)

Yield Goal (bu/ac) 85.3

Machine Controller: X20

Prescription File: NorthBarnWheat25



Zone	Acres	YieldGoal (bu/ac)	Wheat2 Layer 1	MAP Layer 2	Layer 3	Layer 4	Layer 5
1	3.8	50		120	75	170	
2	5.3	60		115	75	170	
3	6.5	70		110	75	135	
4	8.5	90		110	75	135	
5	10.1	100		110	75	30	
6	12	100		110	75	30	
7	14.1	100		115	75	175	
8	14.2	90		120	75	175	
9	9.4	70		125	75	185	
10	3.6	50		130	75	185	
Average:		85.3		115.6	75.0	132.5	

Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	10	24	35	23	3.7	8.1	30 (Olsen)	275	14	125	1.9	2.2	1.3		0.33	Nov 19, 2024
zone 3,4	17	31	23	24	5.1	8.2	8 (Olsen)	258	22	51	1.2	1.0	1.9		0.40	Nov 19, 2024
zone 5,6	25	23	30	25	5.3	7.8	23 (Olsen)	261	32	66	2.2	1.2	1.0		0.37	Nov 19, 2024
zone 7,8	32	22	41	22	4.7	7.9	15 (Olsen)	212	16	99	2.1	1.2	1.3		0.38	Nov 19, 2024
zone 9,10	15	26	48	18	5.2	8.4	16 (Olsen)	189	72	74	1.4	1.7	3.0		0.54	Nov 19, 2024

Stephanie Stinson
cell:

Field 10

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(8) East of Yard | **NE 28-6-11** | **Acres:** 75 (73.5 GPS)

Crop: Peas(AAC Carver Y)

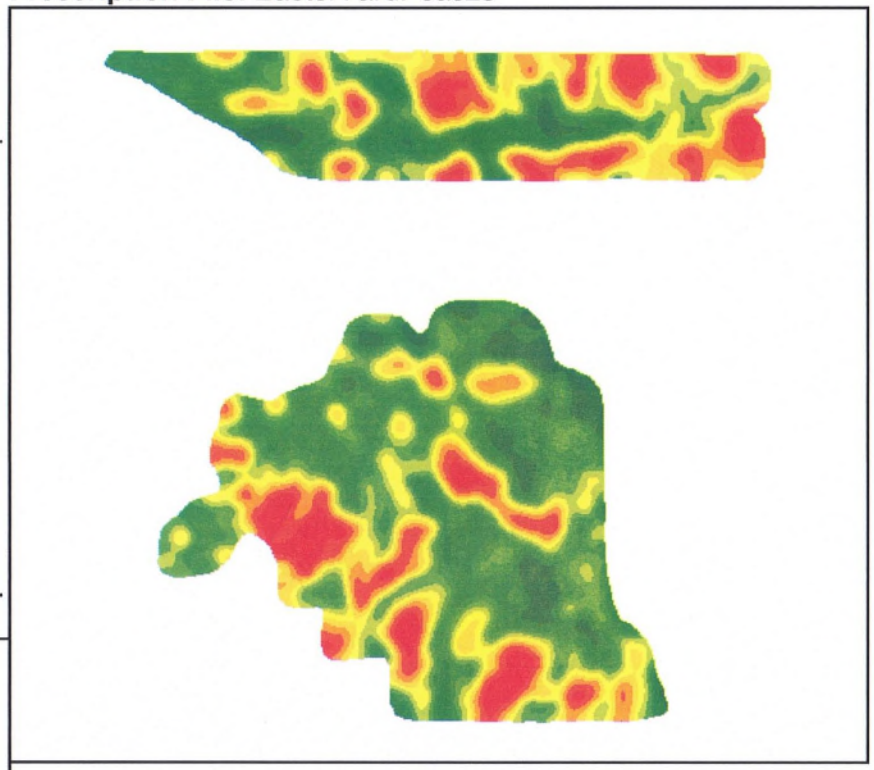
Last Crop: Canola-Liberty(L340PC (Lumiderm))

Yield Goal (bu/ac) 59.8

Machine Controller: X90

Prescription File: EastofYardPeas25

Zone	Acres	YieldGoal (bu/ac)	Inoculant2 Layer 1	MAP3 Layer 2	Peas4 Layer 3	Layer 4	Layer 5
1	4	30		4	40	236	
2	5.3	40		4	40	225	
3	5.8	50		4	40	215	
4	6.6	60		4	40	215	
5	7.9	80		4	40	215	
6	8.2	80		4	40	215	
7	9.6	80		4	40	215	
8	10.5	60		4	40	236	
9	12.8	50		4	40	236	
10	3.9	30		4	40	247	
Average:		59.8		4.0	40.0	225.1	



Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	12	15	17	33	3.4	8.0	9 (Olsen)	131	18	5	1.3	0.7	0.9		0.35	Nov 19, 2024
zone 3,4	17	17	21	30	4.5	7.9	6 (Olsen)	164	20	20	1.5	1.1	1.1		0.48	Nov 19, 2024
zone 5,6	22	21	12	30	3.6	7.9	9 (Olsen)	176	20	8	0.7	0.6	1.1		0.39	Nov 19, 2024
zone 7,8	27	31	14	38	4.7	7.9	20 (Olsen)	216	36	12	1.1	0.6	1.7		0.55	Nov 19, 2024
zone 9,10	22	46	17	12	5.6	8.4	7 (Olsen)	138	108	22	1.2	1.0	3.2		0.68	Nov 19, 2024

Stephanie Stinson
cell:

Field 11

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(25) Cabernal | **NW 27-6-11** | **Acres:** 80 (75.9 GPS)

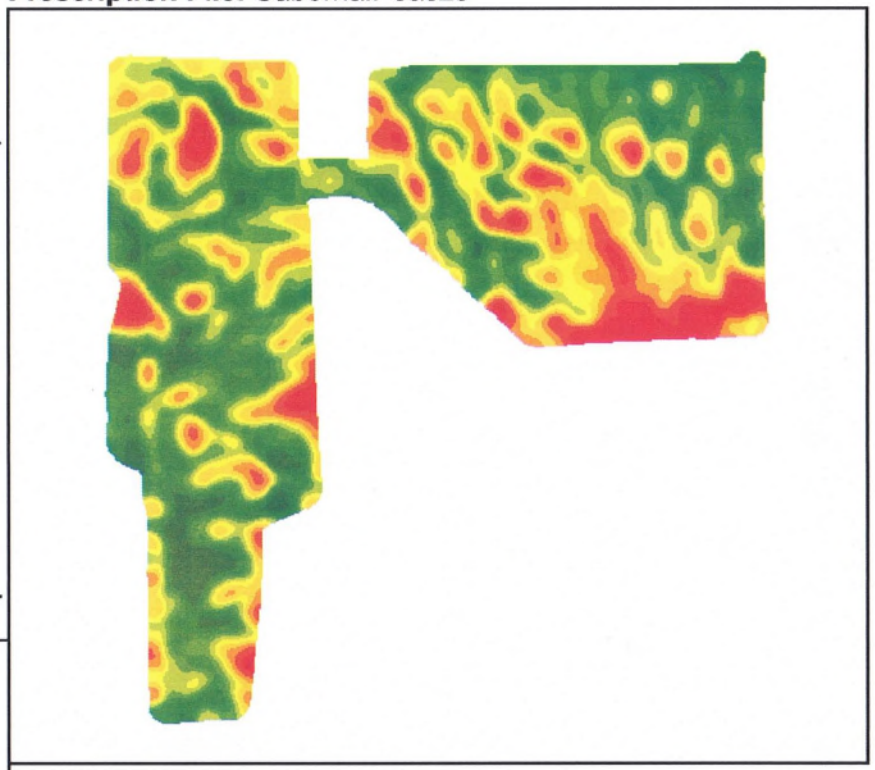
Crop: Peas(AAC Carver Y)

Last Crop: Oats(AAC Douglas)

Yield Goal (bu/ac) 62.4

Machine Controller: X20

Prescription File: CabernalPeas25



Zone	Acres	YieldGoal (bu/ac)	Inoculant2 Layer 1	MAP Layer 2	MAP Layer 3	Peas4 Layer 4	Peas4 Layer 5
1	3.2	30		4	40	236	
2	4	40		4	40	225	
3	6.3	50		4	40	215	
4	8.9	60		4	40	215	
5	8.9	80		4	40	215	
6	10.4	80		4	40	215	
7	11.4	80		4	40	215	
8	11.3	60		4	40	236	
9	9.2	50		4	40	236	
10	3.2	30		4	40	247	
Average:		62.4		4.0	40.0	223.3	

Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	9	41	69	26	3.5	8.0	26 (Olsen)	297	12	6	1.7	1.1	0.9		0.40	Nov 19, 2024
zone 3,4	20	32	27	21	3.4	7.8	14 (Olsen)	167	16	3	1.2	1.1	0.8		0.35	Nov 19, 2024
zone 5,6	25	34	36	22	3.5	7.7	16 (Olsen)	199	10	3	1.2	1.4	0.8		0.40	Nov 19, 2024
zone 7,8	30	35	63	29	3.8	7.3	16 (Olsen)	291	10	22	1.4	1.1	0.6		0.44	Nov 19, 2024
zone 9,10	16	53	14	23	4.0	8.0	10 (Olsen)	210	48	30	1.3	0.8	1.2		0.52	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 12

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(1) Adolphs | **NE 27-6-11** | **Acres:** 87 (87.2 GPS)

Crop: Canola-Liberty(L340PC (Lumiderm))

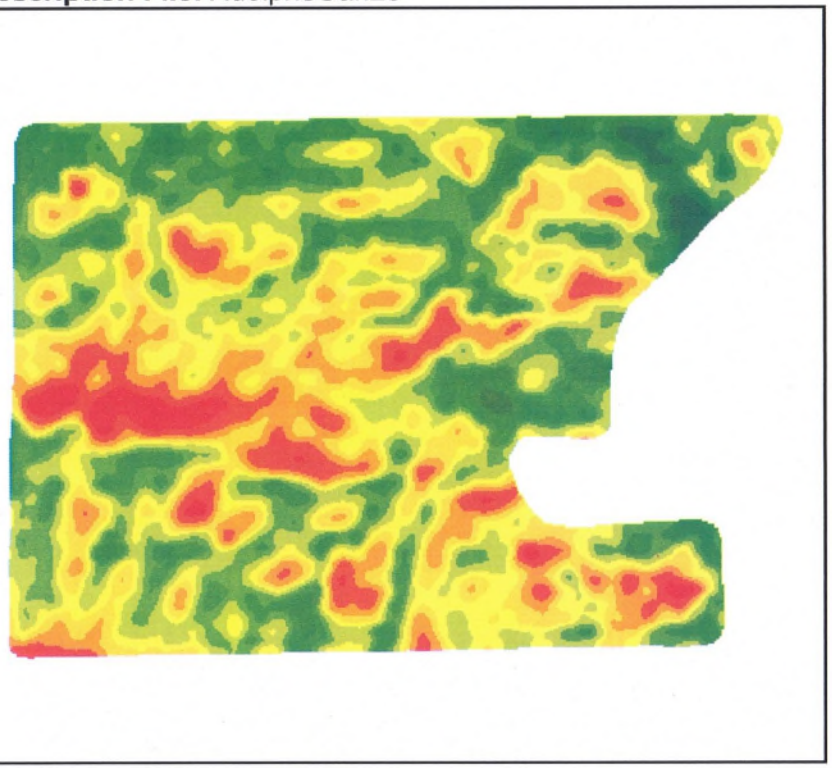
Last Crop: Wheat-Red Spring(AAC Hodge VB)

Yield Goal (bu/ac) 48.9

Machine Controller: X20

Prescription File: AdolphsCan25

Zone	Acres	YieldGoal (bu/ac)	AMS Layer 1	Canola2 Layer 2	MAP Layer 3	Urea Layer 4	Layer 5
1	1.6	30	83	5.2	40	200	
2	5.4	35	83	5	40	200	
3	9	45	83	4.7	40	235	
4	12.4	45	83	4.7	40	235	
5	14.6	50	70	4.7	40	220	
6	17.1	60	70	5	40	220	
7	13.7	55	70	5.2	40	150	
8	10.5	45	70	5.2	40	150	
9	3	35	62	5.5	40	30	
10	0.9	30	62	5.7	40	30	
Average:		48.9	73.8	5.0	40.0	194.4	



Notes: N very high in zone 8, 9 Phos is average in zone 1-10. calling for 40lb/ac on test. 25 with seed for toxicity reasons

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6"_	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	8	8	28	18	2.1	8.1	13 (Olsen)	192	10	6	0.7	0.7	0.7		0.28	Nov 19, 2024
zone 3,4	24	10	32	27	2.8	7.5	13 (Olsen)	271	10	11	0.9	0.8	0.5		0.37	Nov 19, 2024
zone 5,6	36	12	23	33	3.6	7.6	10 (Olsen)	219	14	13	1.5	1.3	0.8		0.42	Nov 19, 2024
zone 7,8	27	12	21	34	4.2	7.6	16 (Olsen)	378	12	26	1.5	1.0	1.0		0.48	Nov 19, 2024
zone 9,10	4	21	27	26	4.6	8.2	15 (Olsen)	227	92	32	1.3	1.1	2.2		0.69	Nov 19, 2024

Stephanie Stinson
cell:

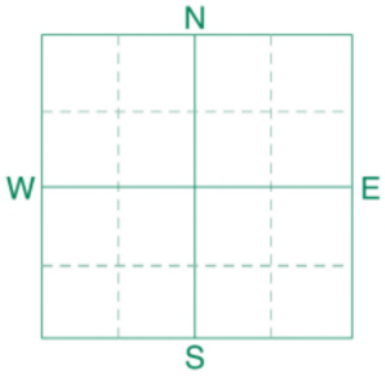
Field 13

Field2Field Agronomy Inc.

Analysis by AGVISE Laboratories
www.agvise.com
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

Field ID: **W-SE 34-6-11**
Field Name: **NW Adolphs**
Sample ID: **E-NW 34-6-11**
County:
Section: **34**
Township: **6**
Quarter: **W-SE 34-6-11**
Range: **11**
Acres: **72**
Previous Crop: **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy
Bruxells, MB
Canada

SUBMITTED BY:
FIELD 2 FIELD AGRONOMY **FI6625**
BOX 357
MIAMI, MB R0G-1H0
Canada

Ref #: **5952786**
Box #: **11223**
Lab #: **NW200119**

Date Sampled:
Date Received: **10/23/2025**
Date Reported: **10/25/2025**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	**0-6"** **14 lb/acre** **6-24"** **15 lb/acre** **0-24"** **29 lb/acre**	******	******		
Phosphorus **Olsen** (0-6")	**7 ppm**	******	******		
Potassium	**160 ppm**	******	******	******	*
Chloride	**0-24"** **16 lb/acre**	******			
Sulfur	**0-6"** **32 lb/acre** **6-24"** **18 lb/acre**	****** ******	****** ******	****** *	
Boron	**1.3 ppm**	******	******	******	*
Zinc	**1.76 ppm**	******	******	******	*****
Iron	**14.2 ppm**	******	******	******	******
Manganese	**2.8 ppm**	******	******	******	**
Copper	**0.52 ppm**	******	******		
Magnesium	**595 ppm**	******	******	******	******
Calcium	**4225 ppm**	******	******	******	******
Sodium	**29 ppm**	****			
Org. Matter	**6.5 %**	******	******	******	******
Carbonate (CCE)	**1.7 %**	******	***		
Sol. Salts	**0-6"** **0.35 mmho/cm** **6-24"** **0.32 mmho/cm**	****** ******	** **		

1st Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	**0**	
P_2O_5	**52**	**Broadcast**
K_2O	**150**	**Broadcast**
Cl		**Not Available**
S	**0**	
B	**0**	
Zn	**0**	
Fe	**0**	
Mn	**0**	
Cu	**1**	**Broadcast (Trial)**
Mg	**0**	
Lime	**0**	

2nd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

3rd Crop Choice		
YIELD GOAL		
0		
SUGGESTED GUIDELINES		
LB/ACRE		APPLICATION
N		
P_2O_5		
K_2O		
Cl		
S		
B		
Zn		
Fe		
Mn		
Cu		
Mg		
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" **7.9** 6-24" **8.3**		**26.6 meq**	(65-75) **79.4**	(15-20) **18.6**	(1-7) **1.5**	(0-5) **0.5**	(0-5) **0.0**

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P_2O_5 = 30 K_2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

Field 14

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(26) NE Adolphs | **E-SE 34-6-11** | **Acres:** 75 (70.5 GPS)

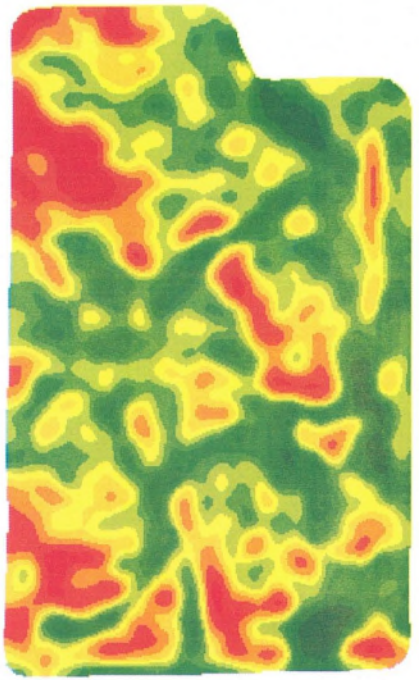
Crop: Wheat-Red Spring(AAC Starbuck VB)

Last Crop: Corn-RR

Yield Goal (bu/ac) 75.7

Machine Controller: X20

Prescription File: NEAdolphsWheat25



Zone	Acres	YieldGoal (bu/ac)	Wheat2 Layer 1	MAPS Layer 2	Urea Layer 3	Potash4 Layer 4	Layer 5
1	2.5	40		138	75	150	
2	5.2	50		125	75	150	
3	6.2	60		115	75	170	
4	7.8	80		110	75	170	
5	9.6	100		110	75	175	
6	12.4	90		110	75	175	
7	11.7	80		115	75	160	
8	9.4	70		120	75	160	
9	4.9	60		125	75	30	
10	1.7	50		138	75	30	
Average:		75.7		116.3	75.0	153.5	

Notes:

Field Area	% Field	N(23)	N(24)	OM %	pH	P (0-6"	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	11	125	14	5.3	7.9	21 (Olsen)	175	12	23	1.5	0.5	1.0		0.28	Nov 19, 2024
zone 3,4	20	153	18	5.7	7.8	16 (Olsen)	233	14	37	2.1	0.8	1.3		0.36	Nov 19, 2024
zone 5,6	31	150	18	5.9	7.7	25 (Olsen)	222	18	26	2.0	0.6	1.2		0.33	Nov 19, 2024
zone 7,8	30	134	21	6.8	7.9	10 (Olsen)	183	22	40	1.7	1.0	2.0		0.54	Nov 19, 2024
zone 9,10	9	181	75	7.9	8.1	13 (Olsen)	185	64	81	2.3	1.3	3.1		0.80	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

Field 15

Variable Rate MAPS Report

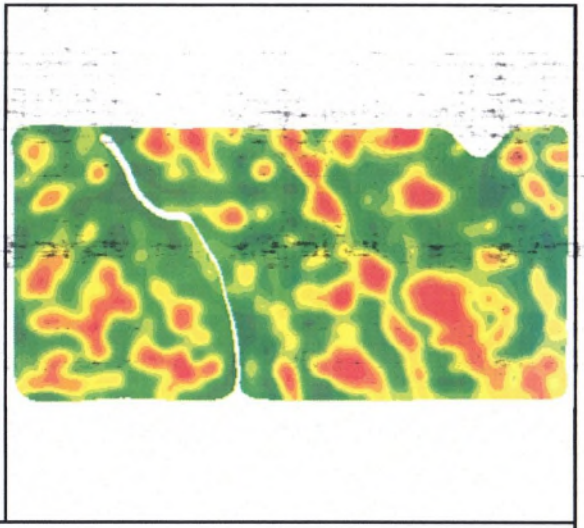
Mangin Bros Dairy

(4) Doyon 80 | **SW 35-6-11** | **Acres:** 79 (78.4 GPS)

Crop: Canola-Liberty
Last Crop: Oats
Yield Goal (bu/ac) 50.3

Machine Controller:
Prescription File: Doyon80Canola24

Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Blank4 Layer 4	Layer 5	Actual Fertility Rates
1	2.2	30	83	5.2	20			19 - 10 - 0 - 20
2	4.5	35	83	5	20			19 - 10 - 0 - 20
3	6	45	62	4.7	20			15 - 10 - 0 - 15
4	7.5	50	62	4.7	20			15 - 10 - 0 - 15
5	8.3	60	62	4.7	40			17 - 21 - 0 - 15
6	10.4	60	62	4.7	40			17 - 21 - 0 - 15
7	13.1	60	62	5	40			17 - 21 - 0 - 15
8	11.7	50	62	5.2	40			17 - 21 - 0 - 15
9	10.7	45	62	5.5	20			15 - 10 - 0 - 15
10	5.1	30	62	5.7	20			15 - 10 - 0 - 15
Average:		50.3	63.8	5.0	30.9			16 - 16 - 0 - 15



Notes:

Field Area	% Field	N(21)	N(22)	N(23)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	8	9	9	99	6.3	7.9	21 (Olsen)	191	18	211	0.8	0.6	1.2		0.31	Oct 05, 2023
zone 3,4	17	7	17	112	6.3	7.8	26 (Olsen)	223	30	11	0.8	0.7	1.2		0.39	Oct 04, 2023
zone 5,6	24	10	18	112	6.7	7.5	16 (Olsen)	212	18	18	0.8	0.7	1.0		0.35	Oct 04, 2023
zone 7,8	31	7	21	125	7.0	7.8	14 (Olsen)	172	26	14	0.9	0.8	1.3		0.47	Oct 04, 2023
zone 9,10	20	10	26	173	8.6	7.9	21 (Olsen)	202	28	17	1.2	1.2	2.3		0.50	Oct 04, 2023

Monday, April 22, 2024

Matthew McDougald
cell:(204) 693-1001

Field 16

Variable Rate MAPS Report

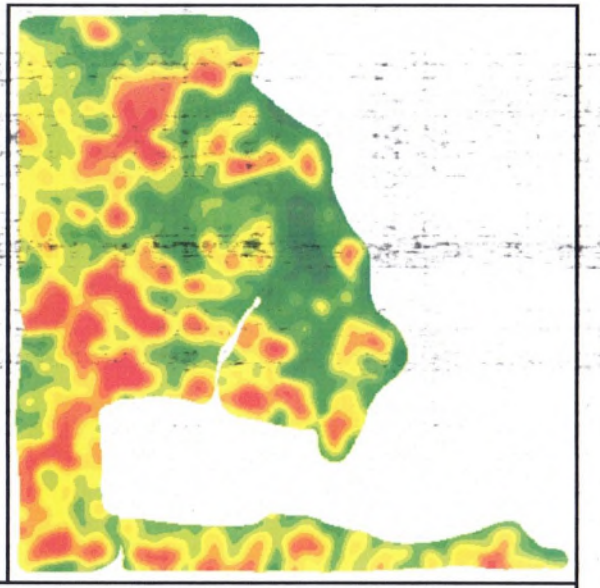
Mangin Bros Dairy

(24) Vans West | **W-NW 26-6-11** | **Acres:** 77 (83.4 GPS)

Crop: Wheat-Red Spring
Last Crop: Oats
Yield Goal (bu/ac) 77.1

Machine Controller:
Prescription File: VansWheat24

Zone	Acres	YieldGoal (bu/ac)	Wheat 1 Layer 1	Blank 2 Layer 2	MAP 3 Layer 3	UreaPotash 4 Layer 4	Layer 5	Actual Fertility Rates
1	3.5	40	120		28	125		51 - 15 - 13 - 0
2	6.3	50	115		48	180		74 - 25 - 18 - 0
3	8.6	60	110		48	220		89 - 25 - 22 - 0
4	10.2	80	110		48	220		89 - 25 - 22 - 0
5	14	90	110		48	250		100 - 25 - 25 - 0
6	13.9	90	110		48	250		100 - 25 - 25 - 0
7	12.6	90	115		48	180		74 - 25 - 18 - 0
8	8.9	80	120		48	125		53 - 25 - 13 - 0
9	4.6	60	125		15	75		31 - 8 - 8 - 0
10	1.9	50	132		15	75		31 - 8 - 8 - 0
Average:		77.1	113.9		44.6	195.9		79 - 23 - 20 - 0



Notes:

Field Area	% Field	N(21)	N(22)	N(23)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	12	12	12	18	3.8	8.0	15 (Olsen)	218	16	7	1.6	0.7	0.7		0.28	Nov 30, 2023
zone 3,4	22	18	12	24	5.4	8.0	16 (Olsen)	287	22	12	0.6	0.5	1.3		0.37	Nov 30, 2023
zone 5,6	33	10	37	21	5.5	7.9	19 (Olsen)	206	12	17	3.8	0.8	1.3		0.43	Nov 30, 2023
zone 7,8	25	22	24	43	8.5	7.9	17 (Olsen)	189	14	27	0.9	0.8	2.4		0.55	Nov 30, 2023
zone 9,10	8	63	23	25	7.3	8.4	21 (Olsen)	214	48	21	2.5	1.0	3.5		0.69	Nov 30, 2023

Monday, April 22, 2024

Matthew McDougald
cell:(204) 693-1001

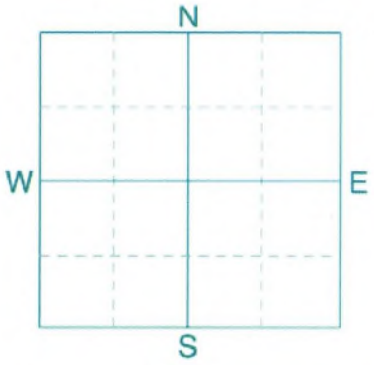
Field 17

Field2Field Agronomy Inc.

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

SOIL TEST REPORT

FIELD ID **NE 35-6-11W**
SAMPLE ID
FIELD NAME **Johns**
COUNTY **W**
TWP **6** RANGE **11**
SECTION **35** QTR **NE** ACRES **138**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy

Bruxells, MB

SUBMITTED BY: **FI6625**
FIELD 2 FIELD AGRONOMY
BOX 357
MIAMI, MB **R0G 1H0**

REF # **5365051** BOX # **10910**
LAB # **NW214510**

Date Sampled
Date Received **10/19/2024**
Date Reported **10/28/2024**

Nutrient In The Soil		Interpretation (VLow Low Med High)
Nitrate 0-6"	34 lb/acre	**********
Nitrate 6-24"	24 lb/acre	**********
Nitrate 0-24"	58 lb/acre	**********
Phosphorus Olsen (0-6")	14 ppm	**********
Potassium	414 ppm	**********
Chloride 0-24"	52 lb/acre	**********
Sulfur 0-6"	114 lb/acre	**********
Sulfur 6-24"	360 +lb/acre	**********
Boron	1.5 ppm	**********
Zinc	1.09 ppm	**********
Iron	15.4 ppm	**********
Manganese	4.8 ppm	**********
Copper	0.7 ppm	**********
Magnesium	626 ppm	**********
Calcium	5800 ppm	**********
Sodium	43 ppm	**********
Org.Matter	5.9 %	**********
Carbonate(CCE)	3.0 %	**********
Sol. Salts 0-6"	0.9 mmho/cm	**********
Sol. Salts 6-24"	1.26 mmho/cm	**********

1st Crop Choice		
Alfalfa		
YIELD GOAL		
5 Tons		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	0	
P_2O_5	53	Broadcast
K_2O	0	
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	1	Broadcast (Trial)
Mg	0	
Lime		

2nd Crop Choice		
Soybeans		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	***	
P_2O_5	40	Broadcast
K_2O	0	
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Grain		
YIELD GOAL		
160 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	84	
P_2O_5	71	Broadcast
K_2O	10	Band (2x2) *
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.7 6-24" 7.9		35.5 meq	(65-75) 81.8	(15-20) 14.7	(1-7) 3.0	(0-5) 0.5	(0-5) 0.0

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 50 K2O = 250 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.

Crop 2: Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Broadcast guideline will build P & K test levels to the high range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

Crop 3: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 50 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.

Field 18

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(6) Doyon Hiway | **E-NW 35-6-11** | **Acres:** 53 (49.8 GPS)

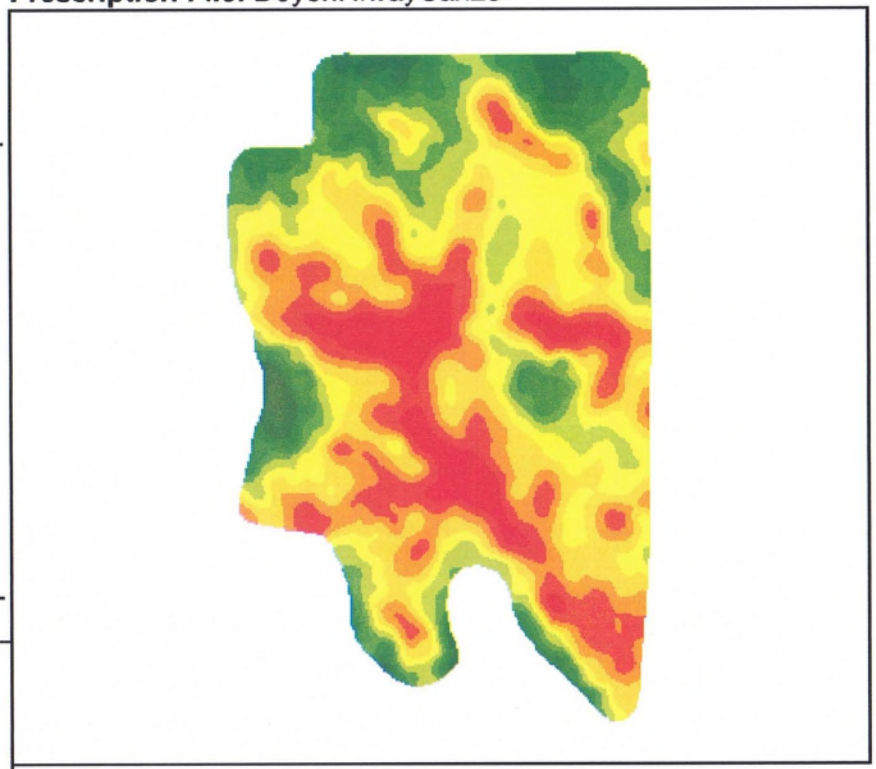
Crop: Canola-Liberty(L340PC (Lumiderm))

Last Crop: Wheat-Red Spring(SY Manness)

Yield Goal (bu/ac) 49.0

Machine Controller: X20

Prescription File: DoyonHiwayCan25



Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Urea4 Layer 4	Layer 5
1	3.2	35	70	5.2	47	200	
2	5.9	35	70	5	47	200	
3	7.4	45	62	5	47	220	
4	9.1	50	62	4.7	47	220	
5	8.7	55	70	4.7	47	210	
6	5.6	60	70	5	47	210	
7	4.4	60	70	5.2	47	240	
8	3.2	50	70	5.2	47	240	
9	1.6	45	42	5.5	47	220	
10	1.3	40	42	5.7	47	220	
Average:		49.0	65.8	5.0	47.0	216.6	

Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	18	3	30	20	3.1	8.0	7 (Olsen)	190	10	5	1.0	1.4	0.9		0.31	Nov 19, 2024
zone 3,4	33	9	11	27	5.0	7.7	10 (Olsen)	269	18	7	1.3	0.7	1.0		0.40	Nov 19, 2024
zone 5,6	28	17	18	29	5.6	7.4	8 (Olsen)	201	12	13	1.1	0.7	1.1		0.50	Nov 19, 2024
zone 7,8	15	15	17	27	6.1	7.8	9 (Olsen)	184	12	7	1.1	0.6	1.5		0.39	Nov 19, 2024
zone 9,10	6	12	28	32	7.9	8.1	12 (Olsen)	180	120	38	1.8	1.0	3.7		0.76	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

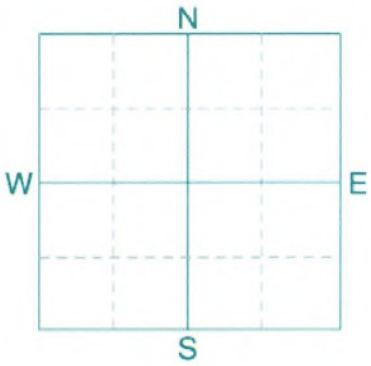
Field 19

Field2Field Agronomy Inc.

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

SOIL TEST REPORT

FIELD ID **W of NW 35-6-11W**
SAMPLE ID
FIELD NAME **Doyon 90**
COUNTY **W**
TWP **6** RANGE **11**
SECTION **35** QTR **NW** ACRES **87**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy

Bruxells, MB

SUBMITTED BY: **FI6625**
FIELD 2 FIELD AGRONOMY
BOX 357
MIAMI, MB **R0G 1H0**

REF # **5365053** BOX # **10825**
LAB # **NW214512**

Date Sampled | Date Received **10/19/2024** | Date Reported **10/28/2024**

Nutrient In The Soil		Interpretation (VLow Low Med High)
Nitrate	0-6" 12 lb/acre 6-24" 15 lb/acre 0-24'' 27 lb/acre	**********
Phosphorus	Olsen (0-6") 14 ppm	**********
Potassium	225 ppm	**********
Chloride	0-24'' 56 lb/acre	**********
Sulfur	0-6" 52 lb/acre 6-24" 288 lb/acre	**********
Boron	1.8 ppm	**********
Zinc	1.45 ppm	**********
Iron	20.9 ppm	**********
Manganese	5.6 ppm	**********
Copper	0.68 ppm	**********
Magnesium	568 ppm	**********
Calcium	5135 ppm	**********
Sodium	43 ppm	**********
Org.Matter	5.3 %	**********
Carbonate(CCE)	3.5 %	**********
Sol. Salts	0-6" 0.5 mmho/cm 6-24" 0.62 mmho/cm	**********

1st Crop Choice		
Alfalfa		
YIELD GOAL		
5 Tons		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	0	
P_2O_5	53	Broadcast
K_2O	50	Broadcast
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	1	Broadcast (Trial)
Mg	0	
Lime		

2nd Crop Choice		
Soybeans		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	***	
P_2O_5	40	Broadcast
K_2O	0	
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Grain		
YIELD GOAL		
160 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	115	
P_2O_5	71	Broadcast
K_2O	10	Band (2x2) *
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.8 6-24" 8.1		31.2 meq	(65-75) 82.4	(15-20) 15.2	(1-7) 1.9	(0-5) 0.6	(0-5) 0.0

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 50 K2O = 250 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.

Crop 2: Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Broadcast guideline will build P & K test levels to the high range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

Crop 3: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 50 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.

Field 20

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(28) Chris Middle | **NE 34-6-11** | **Acres:** 65 (59.8 GPS)

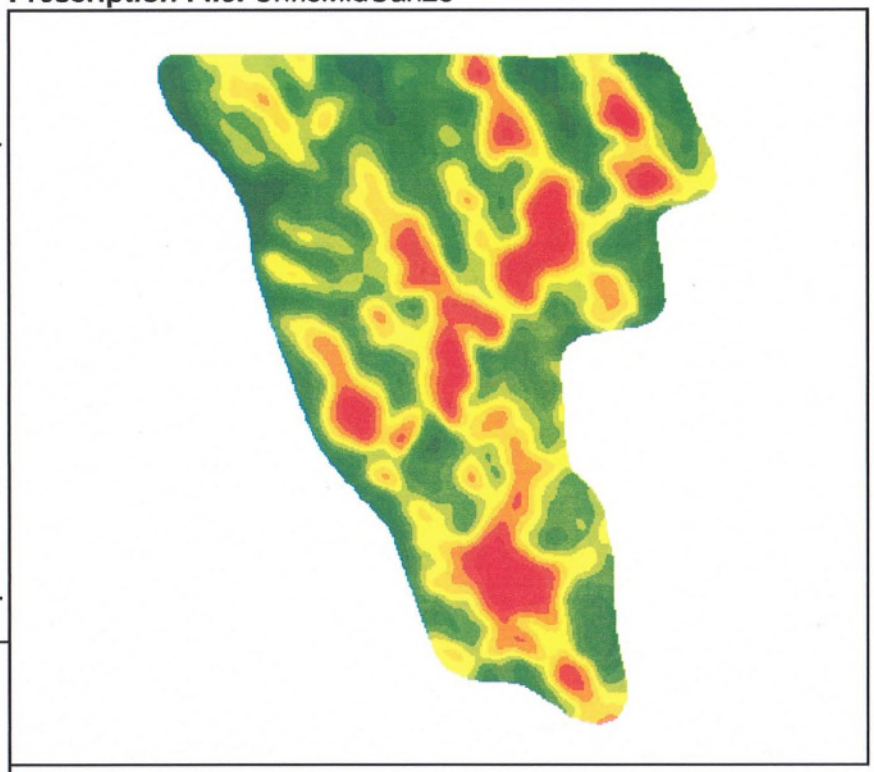
Crop: Canola-Liberty(L340PC (Lumiderm))

Last Crop: Wheat-Red Spring(AAC Hodge VB (Ped.))

Yield Goal (bu/ac) 50.2

Machine Controller: X20

Prescription File: ChrisMidCan25



Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Urea Layer 4	Layer 5
1	2.7	35	69	5.2	80	30	
2	3.3	40	69	5	80	30	
3	4.8	45	62	4.7	80	30	
4	6.1	50	62	4.7	80	30	
5	8.6	60	62	4.7	80	30	
6	8.6	60	62	4.7	80	30	
7	9.8	50	62	5	80	30	
8	8.7	50	62	5.2	80	30	
9	5.6	45	62	5.5	80	150	
10	2.4	35	62	5.7	80	150	
Average:		50.2	62.7	5.0	80.0	45.8	

Notes: calling for high P (45-53lb/ac) cant put that much with seed....

Field Area	% Field	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	10		44	3.6	8.1	4 (Olsen)	152	10		0.6	0.6	1.1		0.38	Nov 19, 2024
zone 3,4	18		47	3.8	8.0	5 (Olsen)	158	38		0.6	0.6	1.0		0.40	Nov 19, 2024
zone 5,6	28		58	4.7	7.9	6 (Olsen)	170	24		0.9	0.6	1.1		0.46	Nov 19, 2024
zone 7,8	31		69	10.1	7.8	7 (Olsen)	246	16		1.1	0.6	1.3		0.47	Nov 19, 2024
zone 9,10	13		43	6.1	7.8	11 (Olsen)	224	20		1.2	0.8	1.3		0.55	Nov 19, 2024

Monday, March 3, 2025

Stephanie Stinson
cell:

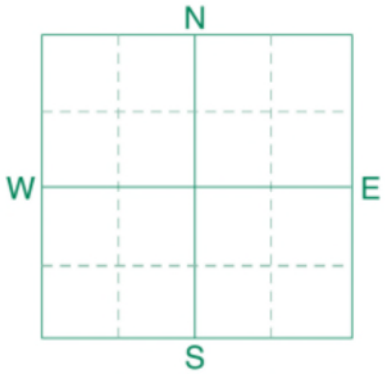
Field 21

Field2Field Agronomy Inc.

Analysis by AGVISE Laboratories
www.agvise.com
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

Field ID: **E-NW 34-6-11**
Field Name: **NE Rays Yard**
Sample ID: **E-NW 34-6-11**
County:
Section: **34**
Township: **6**
Quarter: **ENW**
Range: **11**
Acres: **56**
Previous Crop: **Alfalfa**



SUBMITTED FOR:

Mangin Bros Dairy
Bruxells, MB
Canada

SUBMITTED BY:

FIELD 2 FIELD AGRONOMY **FI6625**
BOX 357
MIAMI, MB R0G-1H0
Canada

Ref #: **5952772**
Box #: **11244**
Lab #: **NW200118**

Date Sampled:
Date Received: **10/23/2025**
Date Reported: **10/25/2025**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	**0-6"** **23 lb/acre** **6-24"** **15 lb/acre** **0-24"** **38 lb/acre**	******	******	******	
Phosphorus	**Olsen** (0-6") **34 ppm**	******	******	******	******
Potassium	**281 ppm**	******	******	******	******
Chloride	**0-24"** **52 lb/acre**	******	******	******	***
Sulfur	**0-6"** **34 lb/acre** **6-24"** **360 +lb/acre**	****** ******	****** ******	****** ******	* ******
Boron	**1.3 ppm**	******	******	******	*
Zinc	**2.68 ppm**	******	******	******	******
Iron	**13.5 ppm**	******	******	******	******
Manganese	**4.7 ppm**	******	******	******	*****
Copper	**0.94 ppm**	******	******	******	
Magnesium	**500 ppm**	******	******	******	******
Calcium	**4626 ppm**	******	******	******	******
Sodium	**42 ppm**	******			
Org. Matter	**5.2 %**	******	******	******	***
Carbonate (CCE)	**5.9 %**	******	******	******	*
Sol. Salts	**0-6"** **0.41 mmho/cm** **6-24"** **0.58 mmho/cm**	****** ******	**** ******	 **	

1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
Alfalfa								
YIELD GOAL			YIELD GOAL			YIELD GOAL		
3 Tons			0			0		
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Broadcast/Maint.								
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION
N	**0**		N			N		
P_2O_5	**30**	**Broadcast**	P_2O_5			P_2O_5		
K_2O	**0**		K_2O			K_2O		
Cl		**Not Available**	Cl			Cl		
S	**0**		S			S		
B	**0**		B			B		
Zn	**0**		Zn			Zn		
Fe	**0**		Fe			Fe		
Mn	**0**		Mn			Mn		
Cu	**0**		Cu			Cu		
Mg	**0**		Mg			Mg		
Lime	**0**		Lime			Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" **8.0** 6-24" **8.4**		**28.2 meq**	(65-75) **82.0**	(15-20) **14.8**	(1-7) **2.6**	(0-5) **0.6**	(0-5) **0.0**

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P_2O_5 = 30 K_2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

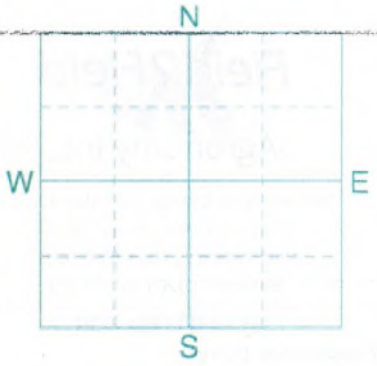
Field 22

SOIL TEST REPORT

Field2Field Agronomy Inc.

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

FIELD ID **W of NW 34-6-11W**
SAMPLE ID **00000**
FIELD NAME **NW Rays Yard**
COUNTY **W**
TWP **6** RANGE **11**
SECTION **34** QTR **NW** ACRES **50**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy

Bruxells, MB

SUBMITTED BY: **FI6625**
FIELD 2 FIELD AGRONOMY
BOX 357
MIAMI, MB **R0G 1H0**

REF # **5365095** BOX # **4779**
LAB # **NW190320**

Date Sampled | Date Received **10/14/2024** | Date Reported **10/19/2024**

Nutrient In The Soil			Interpretation (VLow Low Med High)
	0-6"	54 lb/acre	
	6-24"	42 lb/acre	
Nitrate	0-24''	96 lb/acre	
Phosphorus	Olsen (0-6")	14 ppm	
Potassium		240 ppm	
Chloride	0-24''	8 lb/acre	
Sulfur	0-6"	12 lb/acre	
	6-24"	24 lb/acre	
Boron		1.1 ppm	
Zinc		2.13 ppm	
Iron		11.7 ppm	
Manganese		4.1 ppm	
Copper		1.01 ppm	
Magnesium		387 ppm	
Calcium		5029 ppm	
Sodium		18 ppm	
Org.Matter		4.5 %	
Carbonate(CCE)		5.0 %	
Sol. Salts	0-6"	0.5 mmho/cm	
	6-24"	0.39 mmho/cm	

1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
Wheat-Spring			Corn-Silage			Soybeans		
YIELD GOAL			YIELD GOAL			YIELD GOAL		
70 BU			30 Tons			45 BU		
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Band/Maint.			Band/Maint.			Band/Maint.		
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION
N	68		N	166		N	***	
P_2O_5	44	Band *	P_2O_5	108	Band *	P_2O_5	34	Band *
K_2O	26	Band *	K_2O	249	Band *	K_2O	53	Band *
Cl	32	Broadcast	Cl		Not Available	Cl	0	
S	7	Band (Trial)	S	7	Band (Trial)	S	7	Band (Trial)
B	0		B	0		B	0	
Zn	0		Zn	0		Zn	0	
Fe	0		Fe	0		Fe	0	
Mn	0		Mn	0		Mn	0	
Cu	0		Cu	0		Cu	0	
Mg	0		Mg	0		Mg	0	
Lime			Lime			Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" **7.9** 6-24" **8.2**		**29.1 meq**	(65-75) **86.5**	(15-20) **11.1**	(1-7) **2.1**	(0-5) **0.3**	(0-5) **0.0**

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: 70 lb potassium chloride (0-0-60-50Cl) = 32 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 44 K2O = 26 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 50 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 108 K2O = 249 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

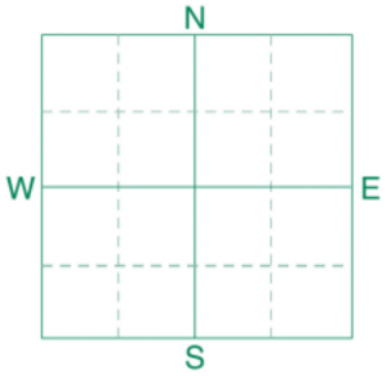
Field 23

Field2Field Agronomy Inc.

Analysis by AGVISE Laboratories
www.agvise.com
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

Field ID: **NE 33-6-11**
Field Name: **North Shawns**
Sample ID: **NE 33-6-11**
County: **W** Section: **33**
Township: **6** Quarter: **NE**
Range: **11** Acres: **92**
Previous Crop:



SUBMITTED FOR:

Mangin Bros Dairy
Bruxells, MB
Canada

SUBMITTED BY:

FIELD 2 FIELD AGRONOMY **FI6625**
BOX 357
MIAMI, MB R0G-1H0
Canada

Ref #: **5954412**
Box #: **11588**
Lab #: **NW202509**

Date Sampled:
Date Received: **10/24/2025**
Date Reported: **10/27/2025**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate **0-12"**	**46 lb/acre**	******	******	******	******
Phosphorus **Olsen** (0-6")	**4 ppm**	******			
Potassium	**156 ppm**	******	******	******	*
Chloride **0-12"**	**8 lb/acre**	***			
Sulfur **0-12"**	**20 lb/acre**	******	******	**	
Boron	**0.6 ppm**	******	**		
Zinc	**0.60 ppm**	******	******		
Iron	**11.7 ppm**	******	******	******	******
Manganese	**3.0 ppm**	******	******	******	**
Copper	**0.89 ppm**	******	******	******	
Magnesium	**397 ppm**	******	******	******	******
Calcium	**4736 ppm**	******	******	******	******
Sodium	**17 ppm**	**			
Org. Matter	**2.6 %**	******	****		
Carbonate (CCE)	**8.1 %**	******	******	******	****
Sol. Salts **0-12"**	**0.33 mmho/cm**	******	**		

1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
Wheat-Spring								
YIELD GOAL			YIELD GOAL			YIELD GOAL		
75 BU			0			0		
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
Band/Maint.								
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION
N	**134**		N			N		
P_2O_5	**54**	**Band ***	P_2O_5			P_2O_5		
K_2O	**28**	**Band ***	K_2O			K_2O		
Cl	**32**	**Broadcast**	Cl			Cl		
S	**7**	**Band (Trial)**	S			S		
B	**0**		B			B		
Zn	**1**	**Band**	Zn			Zn		
Fe	**0**		Fe			Fe		
Mn	**0**		Mn			Mn		
Cu	**0**		Cu			Cu		
Mg	**0**		Mg			Mg		
Lime	**0**		Lime			Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-12" **8.0**		**27.5 meq**	(65-75) **86.2**	(15-20) **12.0**	(1-7) **1.5**	(0-5) **0.3**	(0-5) **0.0**

General Comments: Soil texture is not estimated on high pH soils.

Crop 1: 70 lb potassium chloride (0-0-60-50Cl) = 32 lb chloride. Soil nitrate for 0-24 inch depth is estimated 69 lb/acre nitrate-N. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P_2O_5 = 47 K_2O = 28 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Field 24

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(14) Leons **W 20-6-11** **Acres:** 140 (135.3 GPS)

Crop: Oats(CDC Anson)

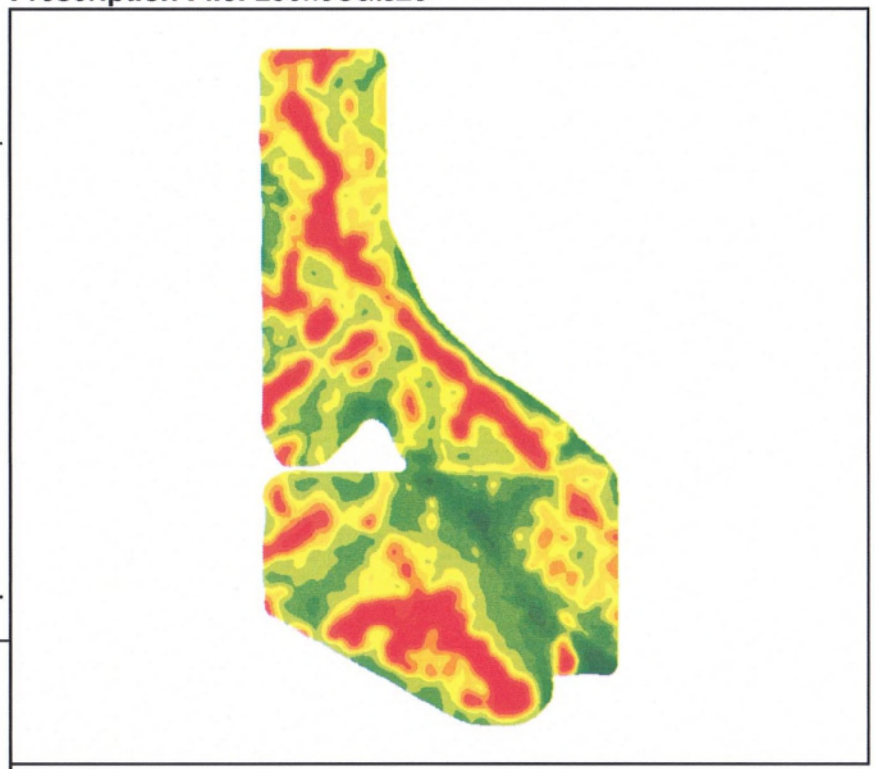
Last Crop: Soybeans-RR Xtend

Yield Goal (bu/ac) 128.4

Machine Controller: X20

Prescription File: LeonsOats25

Zone	Acres	YieldGoal (bu/ac)	Oats Layer 1	MAPS Layer 2	Urea Layer 3	Potash4 Layer 4	Layer 5
1	11.5	60		108	40	230	
2	11.4	90		104	40	230	
3	13.1	120		100	40	250	
4	18.2	120		90	40	250	
5	22.6	150		90	40	125	
6	28.1	150		90	40	125	
7	19.5	150		95	40	210	
8	7.7	150		100	40	210	
9	3.2	120		104	40	125	
10	1.3	0		108	40	125	
Average:		128.4		95.4	40.0	188.2	



Notes:

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	17	14	45	15	3.2	8.0	9 (Olsen)	244	10	15	1.4	2.8	1.0		0.34	Nov 19, 2024
zone 3,4	23	12	46	7	3.8	7.9	5 (Olsen)	222	12	10	0.6	0.9	0.9		0.36	Nov 19, 2024
zone 5,6	37	35	53	19	3.9	7.9	6 (Olsen)	221	12	7	0.9	1.3	1.3		0.34	Nov 19, 2024
zone 7,8	20	31	44	15	7.3	8.1	23 (Olsen)	208	4	6	0.8	1.1	2.0		0.36	Nov 19, 2024
zone 9,10	3	66	177	20	5.1	8.0	23 (Olsen)	280	120	83	1.2	1.2	5.9		2.09	Nov 19, 2024

Stephanie Stinson
cell:

Field 25

Field2Field Agronomy Inc.

Variable Rate MAPS Report

Mangin Bros Dairy

(13) Lauries | **SW 20-6-11** | **Acres:** 41 (40.9 GPS)

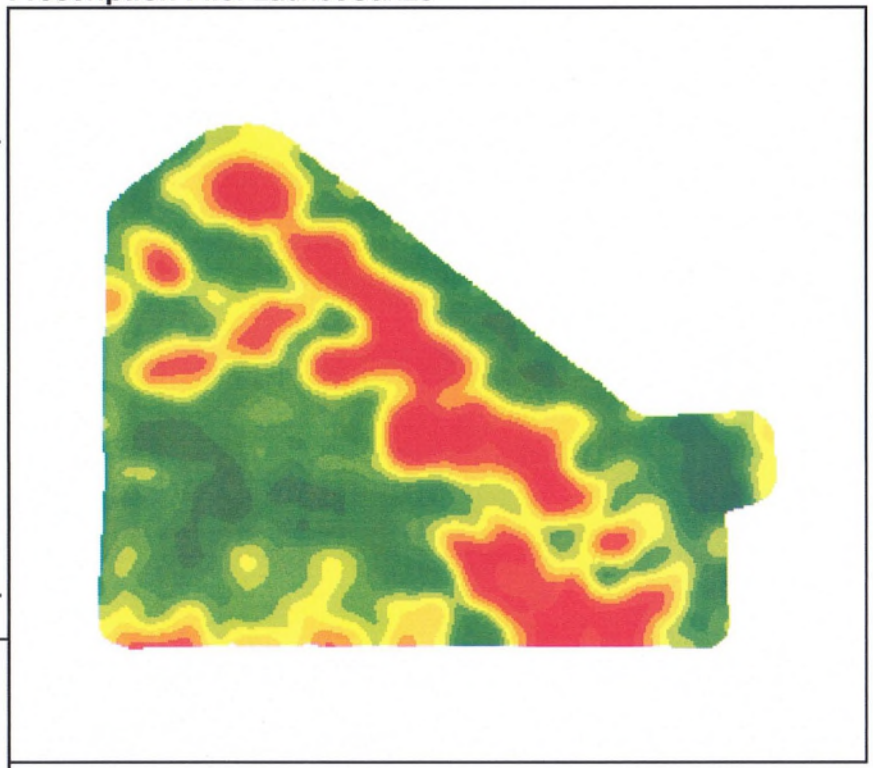
Crop: Canola-Liberty(L340PC (Lumiderm))

Last Crop: Oats(AAC Douglas)

Yield Goal (bu/ac) 49.4

Machine Controller: X20

Prescription File: LauriesCan25



Zone	Acres	YieldGoal (bu/ac)	AMS1 Layer 1	Canola2 Layer 2	MAP3 Layer 3	Urea4 Layer 4	Layer 5
1	3.7	35	70	5.2	47	265	
2	3.2	40	70	5	47	265	
3	2.8	45	70	4.7	47	260	
4	3.3	50	70	4.7	47	260	
5	4	60	79	4.7	47	250	
6	4.6	60	79	4.7	47	250	
7	5.6	60	70	5	47	250	
8	6	50	70	5.2	47	250	
9	5.8	45	70	5.5	47	275	
10	2.5	35	70	5.5	47	275	
Average:		49.4	71.9	5.0	47.0	259.0	

Notes: Nitrogen low across zones phos high in zone 1, 2 but lower in 3-10

Field Area	% Field	N(22)	N(23)	N(24)	OM %	pH	P (0-6")	K	S	Cl	Zn	Cu	B	Texture	Salinity	CMPT Date
zone 1,2	17	8	44	15	3.8	8.0	50 (Olsen)	261	10	17	1.1	0.9	1.0		0.30	Nov 19, 2024
zone 3,4	15	8	52	20	4.6	7.8	8 (Olsen)	275	12	17	1.5	1.1	1.1		0.34	Nov 19, 2024
zone 5,6	21	8	47	18	2.1	7.7	32 (Olsen)	309	12	10	1.2	0.9	0.9		0.39	Nov 19, 2024
zone 7,8	28	10	49	19	5.8	7.7	22 (Olsen)	251	12	13	1.3	1.0	1.2		0.41	Nov 19, 2024
zone 9,10	20	11	52	14	6.4	7.8	24 (Olsen)	296	10	16	1.4	1.3	1.9		0.46	Nov 19, 2024

Stephanie Stinson
cell:

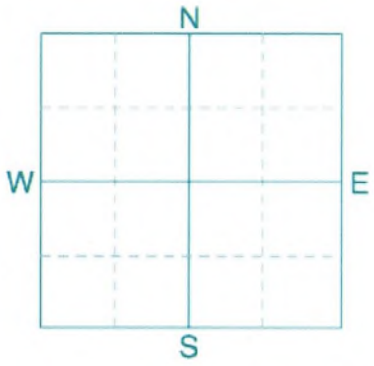
Field 26

Field 2 Field Agronomy Inc.

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

SOIL TEST REPORT

FIELD ID **SE 20-6-11W**
SAMPLE ID
FIELD NAME **Gerrys**
COUNTY **W**
TWP **6** RANGE **11**
SECTION **20** QTR **SE** ACRES **137**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Mangin Bros Dairy

Bruxells, MB

SUBMITTED BY: **FI6625**
FIELD 2 FIELD AGRONOMY
BOX 357
MIAMI, MB **R0G 1H0**

REF # **5365052** BOX # **10825**
LAB # **NW214511**

Date Sampled
Date Received **10/19/2024**
Date Reported **10/28/2024**

Nutrient In The Soil			Interpretation
			VLow Low Med High
Nitrate	0-6"	8 lb/acre	******
	6-24"	6 lb/acre	
	0-24''	14 lb/acre	
Phosphorus	Olsen (0-6")	13 ppm	**********
Potassium		257 ppm	**********
Chloride	0-24''	24 lb/acre	*********
Sulfur	0-6"	14 lb/acre	**********
	6-24"	42 lb/acre	**********
Boron		1.1 ppm	**********
Zinc		1.15 ppm	**********
Iron		22.2 ppm	**********
Manganese		7.1 ppm	**********
Copper		0.88 ppm	**********
Magnesium		508 ppm	**********
Calcium		4785 ppm	**********
Sodium		24 ppm	****
Org.Matter		4.1 %	**********
Carbonate(CCE)		2.0 %	**********
Sol. Salts	0-6"	0.43 mmho/cm	**********
	6-24"	0.28 mmho/cm	*******

1st Crop Choice		
Alfalfa		
YIELD GOAL		
5 Tons		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	0	
P_2O_5	58	Broadcast
K_2O	0	
Cl		Not Available
S	15	Broadcast
B	1	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Soybeans		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	***	
P_2O_5	43	Broadcast
K_2O	0	
Cl	0	
S	15	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Grain		
YIELD GOAL		
160 BU		
SUGGESTED GUIDELINES		
Broadcast		
LB/ACRE		APPLICATION
N	128	
P_2O_5	77	Broadcast
K_2O	10	Band (2x2) *
Cl		Not Available
S	15	Broadcast
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 7.4 6-24" 8.1		28.9 meq	(65-75) 82.7	(15-20) 14.6	(1-7) 2.3	(0-5) 0.4	(0-5) 0.0

General Comments: Medium-textured (CEC: 11-30 meq)
Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 50 K2O = 250 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.

Crop 2: Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is low, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Broadcast guideline will build P & K test levels to the high range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

Crop 3: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 50 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Broadcast guideline will build P & K test levels to the high range over several years.