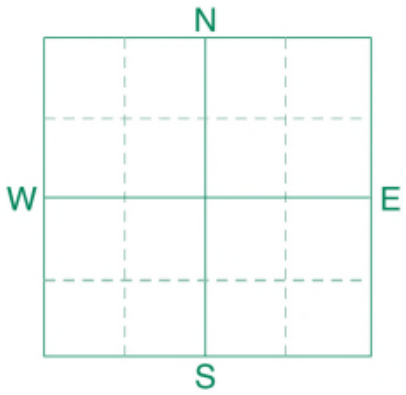
AGVISE LABORATORIES

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

SOIL TEST REPORT

FIELD ID Field # 1 NW 19-9-7e
SAMPLE ID
FIELD NAME **Rosewood**
COUNTY
TWP RANGE
SECTION QTR ACRES **145**
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Loewen Hill Farms
Box 1 RR1
Steinbach, MB R5G 1L9

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB R0A 0X0

REF # **3871861** BOX # **2262**
LAB # **NW168712**

Date Sampled | Date Received **10/16/2022** | Date Reported **10/20/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" / 6-24"	lb/acre / lb/acre				
0-24'' Nitrate	lb/acre	******	******	******	******
Olsen Phosphorus	27 ppm	******	******	******	******
Potassium	451 ppm	******	******	******	******
0-24'' Chloride	56 lb/acre	******	******	******	*****
0-6" / 6-24" Sulfur	76 lb/acre / 360 +lb/acre	****** / ******	****** / ******	****** / ******	****** / ******
Boron	2.7 ppm	******	******	******	******
Zinc	2.61 ppm	******	******	******	******
Iron	38.4 ppm	******	******	******	******
Manganese	2.3 ppm	******	******	*******	
Copper	2.39 ppm	******	******	*******	**
Magnesium	3608 ppm	******	******	******	******
Calcium	5068 ppm	******	******	******	******
Sodium	199 ppm	******	******	******	******
Org.Matter	7.5 %	******	******	******	******
Carbonate(CCE)	3.2 %	******	********	**	
0-6" / 6-24" Sol. Salts	1.12 mmho/cm / 2.49 mmho/cm	****** / ******	****** / ******	******* / ******	** / ******

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band		
LB/ACRE		APPLICATION
N	10	
P_2O_5	15	Band (Starter)*
K_2O	10	Band (Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Canola-bu		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	9	
P_2O_5	41	Band *
K_2O	0	
Cl		Not Available
S	10	Band
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
40 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	30	Broadcast
K_2O	0	
Cl	0	
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" **7.6** / 6-24" **8.1**		**57.4 meq**	(65-75) **44.1**	(15-20) **52.4**	(1-7) **2.0**	(0-5) **1.5**	(0-5) **0.0**

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

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is very high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

AGVISE LABORATORIES

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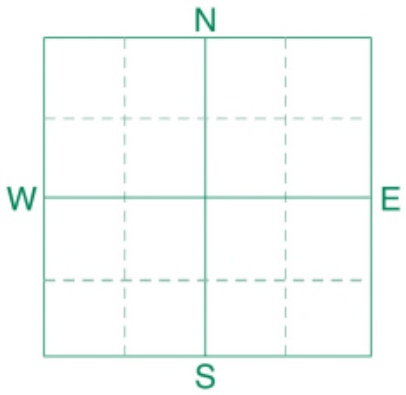
SOIL TEST REPORT

FIELD ID Field # 2 SW 25-7-6e
SAMPLE ID
FIELD NAME **Jake**
COUNTY
TWP RANGE
SECTION QTR ACRES **188.6**
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Loewen Hill Farms
Box 1 RR1
Steinbach, MB R5G 1L9

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB R0A 0X0

REF # **3871848** BOX # **2130**
LAB # **NW168710**

Date Sampled | Date Received **10/16/2022** | Date Reported **10/20/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" Nitrate	11 lb/acre 21 lb/acre	******	******		
0-24'' Nitrate	32 lb/acre				
Olsen Phosphorus	51 ppm	******	******	******	******
Potassium	467 ppm	******	******	******	******
0-24'' Chloride	496 lb/acre	******	******	******	******
0-6" Sulfur	120 +lb/acre	******	******	******	******
6-24" Sulfur	360 +lb/acre	******	******	******	******
Boron	1.6 ppm	******	******	******	******
Zinc	5.46 ppm	******	******	******	******
Iron	26.4 ppm	******	******	******	******
Manganese	1.8 ppm	******	******	******	
Copper	1.69 ppm	******	******	*******	
Magnesium	2071 ppm	******	******	******	******
Calcium	4577 ppm	******	******	******	******
Sodium	151 ppm	******	******	******	******
Org.Matter	5.1 %	******	******	********	**
Carbonate(CCE)	1.3 %	*******	*		
0-6" Sol. Salts	0.8 mmho/cm	******	******	******	
6-24" Sol. Salts	1.63 mmho/cm	******	******	******	******

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band		
LB/ACRE		APPLICATION
N	130	
P_2O_5	15	Band (Starter)*
K_2O	10	Band (Starter)*
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Canola-bu		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	126	
P_2O_5	10	Band (Starter)*
K_2O	0	
Cl		Not Available
S	10	Band
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
40 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	0	
K_2O	0	
Cl	0	
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" 8.3		42.0 meq	(65-75) 54.5	(15-20) 41.1	(1-7) 2.9	(0-5) 1.6	(0-5) 0.0

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

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

AGRA-GOLD

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

SOIL TEST REPORT

FIELD ID Field # 3
SAMPLE ID
FIELD NAME **Roy Loewen**
COUNTY
TWP **NW 24-7-6e (W)** RANGE
SECTION QTR ACRES **80**
PREV. CROP **Wheat-Spring**

N
W E
S

SUBMITTED FOR:
Eagle Rock Farms

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **2957735** BOX # **575**
LAB # **NW56433**

Date Sampled **08/21/2020** Date Received **08/22/2020** Date Reported **8/24/2020**

0-6"	**21 lb/acre**				
6-24"	**51 lb/acre**	******	******	******	******
0-24''	**72 lb/acre**				
Nitrate					
Olsen	**33 ppm**	******	******	******	******
Phosphorus					
Potassium	**248 ppm**	******	******	******	******
Chloride					
0-6"	**120 +lb/acre**	******	******	******	******
6-24"	**360 +lb/acre**	******	******	******	******
Sulfur					
Boron					
Zinc	**3.83 ppm**	******	******	******	******
Iron					
Manganese					
Copper					
Magnesium	**1503 ppm**	******	******	******	******
Calcium	**5463 ppm**	******	******	******	******
Sodium	**133 ppm**	******	******	*******	**
Org.Matter	**5.7 %**	******	******	******	*****
Carbonate(CCE)					
0-6"	**1.16 mmho/cm**	******	******	*******	**
6-24"	**1.54 mmho/cm**	******	******	*******	****
Sol. Salts					

Canola-bu											
YIELD GOAL			YIELD GOAL			YIELD GOAL					
44 BU											
SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
Band											
LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION			
N	**82**		N			N					
P_2O_5	**10**	**Band (Starter)***	P_2O_5			P_2O_5					
K_2O	**0**		K_2O			K_2O					
Cl			Cl			Cl					
S	**10**	**Band**	S			S					
B			B			B					
Zn	**0**		Zn			Zn					
Fe			Fe			Fe					
Mn			Mn			Mn					
Cu			Cu			Cu					
Mg	**0**		Mg			Mg					
Lime			Lime			Lime					

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" **8.0**		**41.1 meq**	(65-75) **66.5**	(15-20) **30.5**	(1-7) **1.5**	(0-5) **1.4**	(0-5) **0.0**
6-24" **8.4**							

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

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

AGRA-GOLD

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

SOIL TEST REPORT

FIELD ID Field # 4 SE 11-7-6e
SAMPLE ID
FIELD NAME **Roy Loewen**
COUNTY
TWP **SE 11-7-6e** RANGE
SECTION QTR ACRES **175**
PREV. CROP **Hemp Seed**

N

W E

S

SUBMITTED FOR:
Eagle Rock Farms

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **3044537** BOX # **11025**
LAB # **NW110275**

Date Sampled **09/25/2020** Date Received **09/28/2020** Date Reported **9/28/2020**

Nutrient	Depth	Result	Level
Nitrate	0-6"	12 lb/acre	
	6-24"	6 lb/acre	*******
	0-24"	18 lb/acre	
Phosphorus	Olsen	30 ppm	************************
Potassium		290 ppm	************************
Chloride			
Sulfur	0-6"	36 lb/acre	*****************
	6-24"	216 lb/acre	************************
Boron			
Zinc		2.49 ppm	************************
Iron			
Manganese			
Copper			
Magnesium		1238 ppm	************************
Calcium		4080 ppm	************************
Sodium		43 ppm	******
Org.Matter		5.8 %	***********************
Carbonate(CCE)			
Sol. Salts	0-6"	0.42 mmho/cm	**********
	6-24"	0.63 mmho/cm	***************

	Canola-bu								
	YIELD GOAL			YIELD GOAL			YIELD GOAL		
	44 BU								
	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
	Band								
	LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
N	136		N			N			
P_2O_5	10	**Band (Starter)***	P_2O_5			P_2O_5			
K_2O	0		K_2O			K_2O			
Cl			Cl			Cl			
S	10	**Band**	S			S			
B			B			B			
Zn	0		Zn			Zn			
Fe			Fe			Fe			
Mn			Mn			Mn			
Cu			Cu			Cu			
Mg	0		Mg			Mg			
Lime			Lime			Lime			

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" **7.8** 6-24" **8.3**		**31.6 meq**	(65-75) **64.5**	(15-20) **32.6**	(1-7) **2.3**	(0-5) **0.6**	(0-5) **0.0**

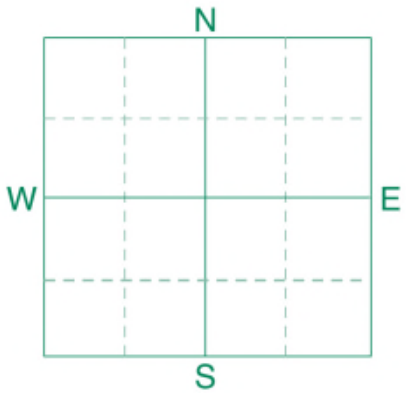
General Comments: Soil texture is not estimated on high pH soils.

Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 20 AGVISE Band guideline will build P & K test levels to the medium range over several years.

SOIL TEST REPORT

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

FIELD ID Field # 5 NW 1-10-4e
SAMPLE ID
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **150**
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Loewen Hill Farms
Box 1 RR1
Steinbach, MB R5G 1L9

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB R0A 0X0

REF # **3871860** BOX # **10637**
LAB # **NW183173**

Date Sampled | Date Received **10/19/2022** | Date Reported **10/24/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	0-6" **20 lb/acre** 6-24" **18 lb/acre** 0-24'' **38 lb/acre**				
Phosphorus	**Olsen** **8 ppm**				
Potassium	**533 ppm**				
Chloride	0-24'' **16 lb/acre**				
Sulfur	0-6" **46 lb/acre** 6-24" **96 lb/acre**				
Boron	**1.5 ppm**				
Zinc	**0.82 ppm**				
Iron	**24.6 ppm**				
Manganese	**2.2 ppm**				
Copper	**1.73 ppm**				
Magnesium	**2104 ppm**				
Calcium	**5146 ppm**				
Sodium	**32 ppm**				
Org.Matter	**7.1 %**				
Carbonate(CCE)	**1.5 %**				
Sol. Salts	0-6" **0.44 mmho/cm** 6-24" **0.6 mmho/cm**				

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band		
LB/ACRE		APPLICATION
N	**124**	
P_2O_5	**35**	**Band ***
K_2O	**10**	**Band (Starter)***
Cl	**24**	**Broadcast**
S	**0**	
B	**0**	
Zn	**0**	
Fe	**0**	
Mn	**0**	
Cu	**0**	
Mg	**0**	
Lime		

2nd Crop Choice		
Canola-bu		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	**120**	
P_2O_5	**41**	**Band ***
K_2O	**0**	
Cl		**Not Available**
S	**10**	**Band**
B	**0**	
Zn	**1**	**Band**
Fe	**0**	
Mn	**0**	
Cu	**0**	
Mg	**0**	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
40 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	**54**	**Broadcast**
K_2O	**0**	
Cl	**0**	
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" **8.0** 6-24" **8.4**		**44.8 meq**	(65-75) **57.5**	(15-20) **39.2**	(1-7) **3.1**	(0-5) **0.3**	(0-5) **0.0**

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

Crop 1: 52 lb potassium chloride (0-0-60-50Cl) = 24 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

AGVISE LABORATORIES

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(http://www.agvise.com)
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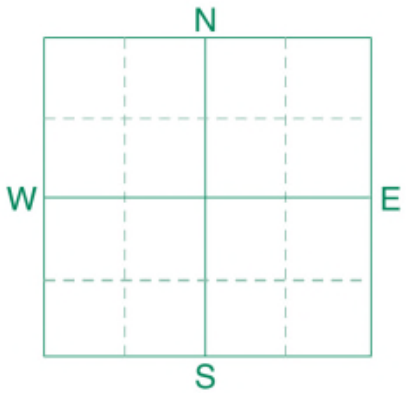
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID Field # 6. SE 29-10-4e N
SAMPLE ID
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **80**
PREV. CROP **Canola-bu**



SUBMITTED FOR:
Loewen Hill Farms
Box 1 RR1
Steinbach, MB R5G 1L9

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB R0A 0X0

REF # **3962426** BOX # **1640**
LAB # **NW249107**

Date Sampled | Date Received **11/14/2022** | Date Reported **11/16/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
Nitrate	0-6" **23 lb/acre** 6-24" **24 lb/acre** 0-24'' **47 lb/acre**				
Phosphorus	**Olsen** **4 ppm**	******			
Potassium	**407 ppm**	******	******	******	******
Chloride	0-24'' **32 lb/acre**	******	*******		
Sulfur	0-6" **14 lb/acre** 6-24" **66 lb/acre**	******	******		
		******	******	******	******
Boron	**1.5 ppm**	******	******	******	****
Zinc	**0.60 ppm**	******	******		
Iron	**22.0 ppm**	******	******	******	******
Manganese	**1.7 ppm**	******	******	****	
Copper	**1.99 ppm**	******	******	********	**
Magnesium	**1992 ppm**	******	******	******	******
Calcium	**4596 ppm**	******	******	******	******
Sodium	**35 ppm**	*****			
Org.Matter	**5.1 %**	******	******	********	**
Carbonate(CCE)	**4.0 %**	******	******	****	
Sol. Salts	0-6" **0.8 mmho/cm** 6-24" **0.74 mmho/cm**	******	******	******	
		******	******	******	

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band		
LB/ACRE		APPLICATION
N	**115**	
P_2O_5	**43**	**Band ***
K_2O	**10**	**Band (Starter)***
Cl	**8**	
S	**0**	
B	**0**	
Zn	**0**	
Fe	**0**	
Mn	**0**	
Cu	**0**	
Mg	**0**	
Lime		

2nd Crop Choice		
Canola-bu		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	**111**	
P_2O_5	**47**	**Band ***
K_2O	**0**	
Cl		**Not Available**
S	**17**	**Band**
B	**0**	
Zn	**2**	**Band**
Fe	**0**	
Mn	**0**	
Cu	**0**	
Mg	**0**	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
40 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	**67**	**Broadcast**
K_2O	**0**	
Cl	**0**	
S	**15**	**Broadcast**
B	**0**	
Zn	**1**	**Broadcast**
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" **8.0** 6-24" **8.4**		**40.8 meq**	(65-75) **56.4**	(15-20) **40.7**	(1-7) **2.6**	(0-5) **0.4**	(0-5) **0.0**

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

Crop 1: 17 lb potassium chloride (0-0-60-50Cl) = 8 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

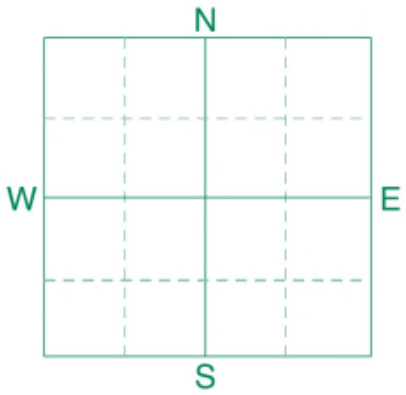
Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

AGVISE LABORATORIES

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

SOIL TEST REPORT

FIELD ID Field # 7 Sec. 28-10-4e N
SAMPLE ID (parts of NW, SW, SE, NE)
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **240**
PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Loewen Hill Farms
Box 1 RR1
Steinbach, MB R5G 1L9

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB R0A 0X0

REF # **3962425** BOX # **1695**
LAB # **NW249106**

Date Sampled | Date Received **11/14/2022** | Date Reported **11/16/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 13 lb/acre 6-24" 18 lb/acre		******	******		
0-24'' 31 lb/acre	Nitrate				
Olsen 8 ppm	Phosphorus	******	******		
422 ppm	Potassium	******	******	******	******
0-24'' 24 lb/acre	Chloride	********	***		
0-6" 22 lb/acre 6-24" 72 lb/acre	Sulfur	******	********	***	
		******	******	******	******
1.5 ppm	Boron	******	******	******	****
0.95 ppm	Zinc	******	******	*****	
23.5 ppm	Iron	******	******	******	******
1.6 ppm	Manganese	******	********	***	
1.88 ppm	Copper	******	******	********	**
2461 ppm	Magnesium	******	******	******	******
5411 ppm	Calcium	******	******	******	******
60 ppm	Sodium	********	***		
5.4 %	Org.Matter	******	******	********	***
5.6 %	Carbonate(CCE)	******	******	*******	
0-6" 0.75 mmho/cm 6-24" 0.67 mmho/cm	Sol. Salts	******	******	******	
		******	******	*****	

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band		
LB/ACRE		APPLICATION
N	131	
P_2O_5	35	Band *
K_2O	10	Band (Starter)*
Cl	16	Broadcast
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Canola-bu		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	127	
P_2O_5	41	Band *
K_2O	0	
Cl		Not Available
S	15	Band
B	0	
Zn	1	Band
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
40 BU		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	54	Broadcast
K_2O	0	
Cl	0	
S	10	Broadcast (Trial)
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" 8.1 6-24" 8.5		48.9 meq	(65-75) 55.3	(15-20) 41.9	(1-7) 2.2	(0-5) 0.5	(0-5) 0.0

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

Crop 1: 35 lb potassium chloride (0-0-60-50Cl) = 16 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is very high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.