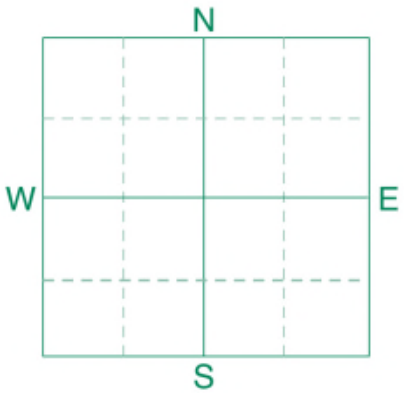
SOIL TEST REPORT

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

FIELD ID **Home 3**
SAMPLE ID Field 1. NW 11-8-6w S
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **11** QTR **NW** ACRES 55
PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3562155** BOX # **2222**
LAB # **NW253369**

Date Sampled | Date Received **11/26/2021** | Date Reported **11/30/2021**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 35 lb/acre 6-24" 39 lb/acre					
0-24'' 74 lb/acre	Nitrate	******	******	******	******
Olsen 50 ppm	Phosphorus	******	******	******	******
146 ppm	Potassium	******	******	******	
0-24'' 20 lb/acre	Chloride	********	**		
0-6" 10 lb/acre 6-24" 24 lb/acre	Sulfur	********	***		
		******	******	****	
0.5 ppm	Boron	*******	*		
5.67 ppm	Zinc	******	******	******	******
51.7 ppm	Iron	******	******	******	******
4.1 ppm	Manganese	******	******	******	****
1.61 ppm	Copper	******	******	*******	*
237 ppm	Magnesium	******	******	*****	
1578 ppm	Calcium	******	******	*******	*
19 ppm	Sodium	***			
2.8 %	Org.Matter	******	*****		
0.1 %	Carbonate(CCE)	*			
0-6" 0.19 mmho/cm 6-24" 0.13 mmho/cm	Sol. Salts	**** ***			

1st Crop Choice		
Alfalfa		
YIELD GOAL		
4 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	15	Band (Starter)*
K_2O	200	Band *
Cl		Not Available
S	9	Band (Trial)
B	2	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Oats		
YIELD GOAL		
120 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	46	
P_2O_5	15	Band (Starter)*
K_2O	32	Band *
Cl	20	Broadcast
S	9	Band (Trial)
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	134	
P_2O_5	15	Band (2x2) *
K_2O	166	Band *
Cl		Not Available
S	9	Band (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" 7.0 6-24" 7.5		10.5 meq	(65-75) 75.2	(15-20) 18.8	(1-7) 3.6	(0-5) 0.8	(0-5) 1.6

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. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 200 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

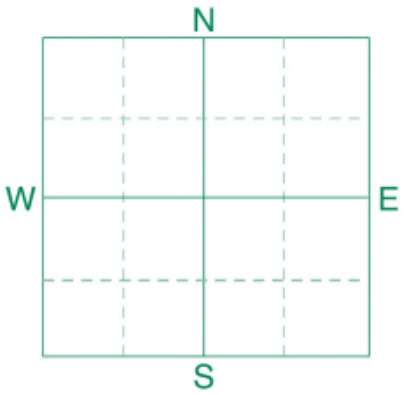
Crop 2: 44 lb potassium chloride (0-0-60-50Cl) = 20 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 72 K2O = 166 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

SOIL TEST REPORT

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

FIELD ID **Other 4**
SAMPLE ID Field 2. SE 11-8-6w W
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **11** QTR **SE** ACRES 68
PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3562156** BOX # **2239**
LAB # **NW253370**

Date Sampled | Date Received **11/26/2021** | Date Reported **11/30/2021**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" 0-24'' Nitrate		******	******	******	******
Olsen Phosphorus	28 ppm	******	******	******	******
Potassium	162 ppm	******	******	*******	*
0-24'' Chloride	128 lb/acre	******	******	******	******
0-6" Sulfur	32 lb/acre	******	******	******	
6-24" Sulfur	204 lb/acre	******	******	******	******
Boron	1.6 ppm	******	******	******	******
Zinc	3.31 ppm	******	******	******	******
Iron	35.6 ppm	******	******	******	******
Manganese	5.6 ppm	******	******	******	******
Copper	2.15 ppm	******	******	*******	**
Magnesium	846 ppm	******	******	******	******
Calcium	3818 ppm	******	******	******	******
Sodium	95 ppm	******	*******	**	
Org.Matter	4.4 %	******	******	******	
Carbonate(CCE)	5.1 %	******	******	******	
0-6" Sol. Salts	0.39 mmho/cm	********	***		
6-24" Sol. Salts	0.33 mmho/cm	********	**		

1st Crop Choice		
Alfalfa		
YIELD GOAL		
4 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	40	Band *
K_2O	200	Band *
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Oats		
YIELD GOAL		
120 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	12	
P_2O_5	30	Band *
K_2O	24	Band *
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	92	
P_2O_5	72	Band *
K_2O	166	Band *
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" 8.1 6-24" 8.4		27.0 meq	(65-75) 70.8	(15-20) 26.1	(1-7) 1.5	(0-5) 1.5	(0-5) 0.0

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

Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 200 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

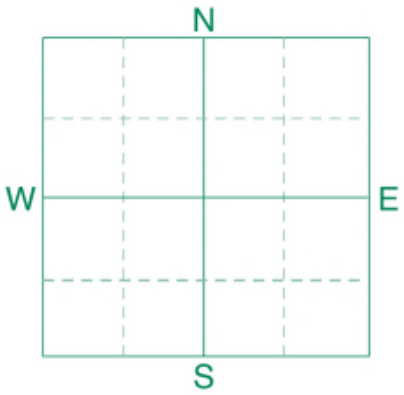
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 72 K2O = 166 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Other 5**
SAMPLE ID Field 3. SE 11-8-6w E (a)
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **11** QTR **SE** ACRES 84
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3722125** BOX # **1016**
LAB # **NW66466**

Date Sampled | Date Received **09/02/2022** | Date Reported **09/06/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 11 lb/acre 6-24" 9 lb/acre 0-24'' 20 lb/acre Nitrate		********			
Olsen Phosphorus	16 ppm	**********	**********	**********	**********
Potassium	97 ppm	**********	**********		
0-24'' Chloride	76 lb/acre	**********	**********	**********	**********
0-6" 38 lb/acre 6-24" 120 lb/acre Sulfur		**********	**********	**********	**********
Boron	1.5 ppm	**********	**********	**********	**********
Zinc	2.95 ppm	**********	**********	**********	**********
Iron	23.0 ppm	**********	**********	**********	**********
Manganese	3.0 ppm	**********	**********	**********	**********
Copper	1.81 ppm	**********	**********	**********	**********
Magnesium	773 ppm	**********	**********	**********	**********
Calcium	3889 ppm	**********	**********	**********	**********
Sodium	45 ppm	**********	**********		
Org.Matter	4.9 %	**********	**********	**********	**********
Carbonate(CCE)	2.9 %	**********	**********	**********	
0-6" 0.24 mmho/cm 6-24" 0.24 mmho/cm Sol. Salts		**********	**********		

1st Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	30	Broadcast
K_2O	150	Broadcast
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	138	
P_2O_5	72	Band *
K_2O	166	Band *
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
YIELD GOAL		
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" 8.2 6-24" 8.6		26.3 meq	(65-75) 73.8	(15-20) 24.5	(1-7) 0.9	(0-5) 0.7	(0-5) 0.0

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

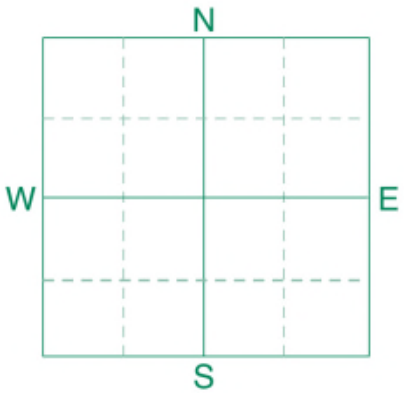
Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high 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 = 72 K2O = 166 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Other 6**
SAMPLE ID Field 3. SE 11-8-6w (b)
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **11** QTR **SE** ACRES 84
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3722126** BOX # **1016**
LAB # **NW66465**

Date Sampled | Date Received **09/02/2022** | Date Reported **09/06/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 24 lb/acre 6-24" 9 lb/acre		**********	**********	**	
0-24'' 33 lb/acre	Nitrate				
Olsen 11 ppm	Phosphorus	**********	**********	**********	
96 ppm	Potassium	**********	**********		
0-24'' 20 lb/acre	Chloride	**********	**		
0-6" 32 lb/acre 6-24" 36 lb/acre	Sulfur	**********	**********	**********	
		**********	**********	**********	**
1.2 ppm	Boron	**********	**********	**********	
3.58 ppm	Zinc	**********	**********	**********	**********
23.1 ppm	Iron	**********	**********	**********	**********
2.8 ppm	Manganese	**********	**********	**********	**
1.92 ppm	Copper	**********	**********	**********	**
572 ppm	Magnesium	**********	**********	**********	**********
3969 ppm	Calcium	**********	**********	**********	**********
22 ppm	Sodium	***			
5.1 %	Org.Matter	**********	**********	**********	**
1.3 %	Carbonate(CCE)	*******	*		
0-6" 0.24 mmho/cm 6-24" 0.17 mmho/cm	Sol. Salts	******			
		****			

1st Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	40	Broadcast
K_2O	150	Broadcast
Cl		Not Available
S	0	
B	1	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	125	
P_2O_5	72	Band *
K_2O	166	Band *
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
YIELD GOAL		
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" 8.1 6-24" 8.7		25.0 meq	(65-75) 79.5	(15-20) 19.1	(1-7) 1.0	(0-5) 0.4	(0-5) 0.0

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

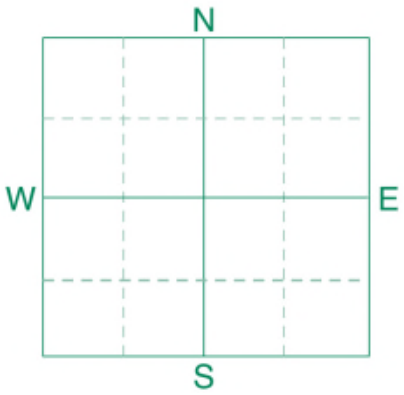
Crop 1: Limited data on crop response to chloride. Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high 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 = 72 K2O = 166 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Far 80**
SAMPLE ID Field 4. SE 36-7-6w S
FIELD NAME
COUNTY
TWP **7-6 W1** RANGE
SECTION **36** QTR **SE** ACRES 79
PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3562154** BOX # **2294**
LAB # **NW253368**

Date Sampled | Date Received **11/26/2021** | Date Reported **11/30/2021**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 9 lb/acre 6-24" 30 lb/acre		******	******	***	
0-24'' 39 lb/acre	Nitrate				
Olsen	33 ppm	******	******	******	******
Phosphorus					
Potassium	105 ppm	******	******		
0-24''	8 lb/acre	***			
Chloride					
0-6" 54 lb/acre 6-24" 42 lb/acre	Sulfur	******	******	******	******
		******	******	******	*****
Boron	0.7 ppm	******	*****		
Zinc	3.00 ppm	******	******	******	******
Iron	34.4 ppm	******	******	******	******
Manganese	3.3 ppm	******	******	******	***
Copper	1.08 ppm	******	******	******	
Magnesium	397 ppm	******	******	******	******
Calcium	2538 ppm	******	******	******	******
Sodium	62 ppm	*******	***		
Org.Matter	2.7 %	******	*****		
Carbonate(CCE)	1.4 %	*******	*		
0-6" 0.19 mmho/cm 6-24" 0.12 mmho/cm	Sol. Salts	****			
		***			

1st Crop Choice		
Grass/Alfalfa		
YIELD GOAL		
4 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	21	
P_2O_5	40	Broadcast
K_2O	192	Broadcast
Cl		Not Available
S	0	
B	1	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
YIELD GOAL		
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		
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" 7.8 6-24" 8.4		16.5 meq	(65-75) 76.7	(15-20) 20.0	(1-7) 1.6	(0-5) 1.6	(0-5) 0.0

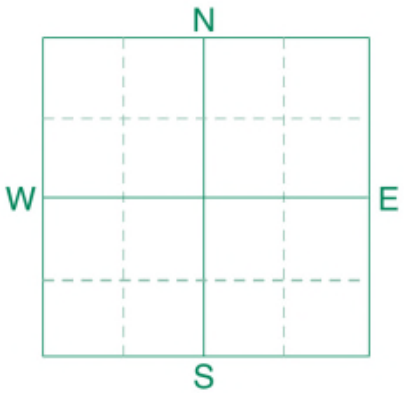
General Comments: Soil texture is not estimated on high pH soils.

Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 192 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Jayway 1**
SAMPLE ID Field 5. NE 26-8-6w (A)
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **26** QTR **NE** ACRES 141
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3722122** BOX # **1016**
LAB # **NW66462**

Date Sampled | Date Received **09/02/2022** | Date Reported **09/06/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 14 lb/acre 6-24" 6 lb/acre 0-24'' 20 lb/acre Nitrate		********	**		
Olsen Phosphorus	10 ppm	******	********	****	
Potassium	53 ppm	******			
0-24'' Chloride	4 lb/acre	*			
0-6" 28 lb/acre 6-24" 42 lb/acre Sulfur		****** ******	****** ********	****** ********	 ******
Boron	0.7 ppm	******	****		
Zinc	1.66 ppm	******	********	********	****
Iron	34.6 ppm	******	********	********	*******
Manganese	1.7 ppm	******	********	****	
Copper	0.58 ppm	******	*******	*	
Magnesium	344 ppm	******	********	********	****
Calcium	3148 ppm	******	********	********	*******
Sodium	17 ppm	**			
Org.Matter	3.1 %	******	******		
Carbonate(CCE)	1.2 %	******			
0-6" 0.15 mmho/cm 6-24" 0.11 mmho/cm Sol. Salts		*** **			

1st Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	43	Broadcast
K_2O	150	Broadcast
Cl		Not Available
S	10	Broadcast (Trial)
B	2	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	1	Broadcast (Trial)
Mg	0	
Lime		

2nd Crop Choice		
YIELD GOAL		
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		
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" 8.1 6-24" 8.5		18.8 meq	(65-75) 83.7	(15-20) 15.2	(1-7) 0.7	(0-5) 0.4	(0-5) 0.0

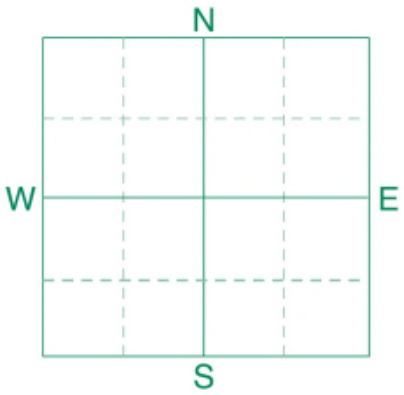
General Comments: Soil texture is not estimated on high pH soils.

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 = 30 K2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Jayway 2**
SAMPLE ID Field 5. NE 26-8-6w (B)
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **26** QTR **NE** ACRES 141
PREV. CROP **Alfalfa**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3722123** BOX # **1016**
LAB # **NW66463**

Date Sampled | Date Received **09/02/2022** | Date Reported **09/06/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 13 lb/acre 6-24" 9 lb/acre		*********	***		
0-24'' 22 lb/acre	Nitrate				
Olsen	13 ppm	Phosphorus			
	60 ppm	Potassium			
0-24''	60 lb/acre	Chloride			
0-6" 32 lb/acre 6-24" 90 lb/acre		Sulfur			
	0.6 ppm	Boron			
	1.61 ppm	Zinc			
	55.1 ppm	Iron			
	3.2 ppm	Manganese			
	0.56 ppm	Copper			
	394 ppm	Magnesium			
	3509 ppm	Calcium			
	15 ppm	Sodium			
	2.7 %	Org.Matter			
	2.1 %	Carbonate(CCE)			
0-6" 0.14 mmho/cm 6-24" 0.15 mmho/cm		Sol. Salts			

1st Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	35	Broadcast
K_2O	150	Broadcast
Cl		Not Available
S	0	
B	2	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	1	Broadcast (Trial)
Mg	0	
Lime		

2nd Crop Choice		
YIELD GOAL		
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		
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" 8.1 6-24" 8.2		21.0 meq	(65-75) 83.4	(15-20) 15.6	(1-7) 0.7	(0-5) 0.3	(0-5) 0.0

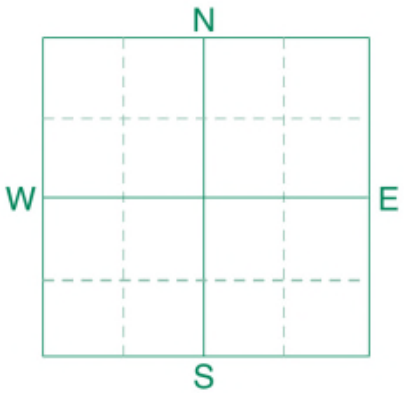
General Comments: Soil texture is not estimated on high pH soils.

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 = 30 K2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

SOIL TEST REPORT

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

FIELD ID **Mira Jayway 2**
SAMPLE ID Field 6. SE 35-8-6w
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **35** QTR **SE** ACRES 106
PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3562174** BOX # **2294**
LAB # **NW253371**

Date Sampled | Date Received **11/26/2021** | Date Reported **11/30/2021**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" 0-24'' Nitrate		******	******	******	******
Olsen Phosphorus	30 ppm	******	******	******	******
Potassium	164 ppm	******	******	********	**
0-24'' Chloride	96 lb/acre	******	******	******	******
0-6" Sulfur	74 lb/acre	******	******	******	******
6-24" Sulfur	126 lb/acre	******	******	******	******
Boron	1.0 ppm	******	********	***	
Zinc	1.75 ppm	******	******	********	****
Iron	27.9 ppm	******	******	******	******
Manganese	4.8 ppm	******	******	******	******
Copper	1.09 ppm	******	******	******	
Magnesium	635 ppm	******	******	******	******
Calcium	4085 ppm	******	******	******	******
Sodium	76 ppm	******	******		
Org.Matter	3.7 %	******	********	***	
Carbonate(CCE)	4.9 %	******	******	******	
0-6" Sol. Salts	0.36 mmho/cm	********	**		
6-24" Sol. Salts	0.22 mmho/cm	*****			

1st Crop Choice		
Alfalfa		
YIELD GOAL		
4 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	40	Band *
K_2O	200	Band *
Cl		Not Available
S	0	
B	1	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

2nd Crop Choice		
Oats		
YIELD GOAL		
120 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	11	
P_2O_5	30	Band *
K_2O	23	Band *
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	0	
Mg	0	
Lime		

3rd Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	97	
P_2O_5	72	Band *
K_2O	166	Band *
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" 8.1 6-24" 8.3		26.5 meq	(65-75) 77.2	(15-20) 20.0	(1-7) 1.6	(0-5) 1.2	(0-5) 0.0

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

Crop 1: 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 = 40 K2O = 200 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

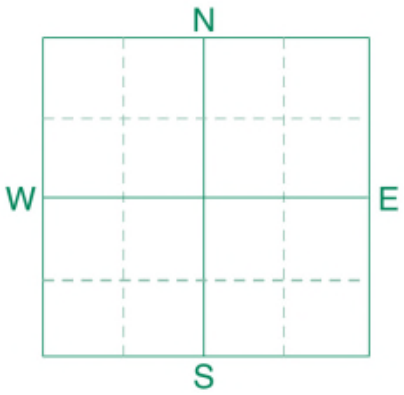
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 72 K2O = 166 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

SOIL TEST REPORT

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

FIELD ID **N Of Rene**
SAMPLE ID Field 7. NW 36-8-6w
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **36** QTR **NW** ACRES 112
PREV. CROP **Oat Silage**



SUBMITTED FOR:
Vankammen Farms

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3722124** BOX # **1016**
LAB # **NW66464**

Date Sampled | Date Received **09/02/2022** | Date Reported **09/06/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" Nitrate	11 lb/acre 3 lb/acre	******			
0-24'' Nitrate	14 lb/acre				
Olsen Phosphorus	21 ppm	******	******	******	******
Potassium	115 ppm	******	********	**	
0-24'' Chloride	120 lb/acre	******	******	******	******
0-6" Sulfur	50 lb/acre	******	******	******	******
6-24" Sulfur	48 lb/acre	******	******	******	******
Boron	0.6 ppm	********	***		
Zinc	1.51 ppm	******	******	********	***
Iron	27.5 ppm	******	******	******	******
Manganese	2.7 ppm	******	******	*******	*
Copper	0.28 ppm	******			
Magnesium	349 ppm	******	******	******	****
Calcium	3656 ppm	******	******	******	******
Sodium	31 ppm	*****			
Org.Matter	3.4 %	******	*******	*	
Carbonate(CCE)	2.4 %	******	******		
0-6" Sol. Salts	0.31 mmho/cm	*******			
6-24" Sol. Salts	0.13 mmho/cm	***			

1st Crop Choice		
Corn-Silage		
YIELD GOAL		
20 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	194	
P_2O_5	72	Broadcast
K_2O	166	Broadcast
Cl		Not Available
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	2	Broadcast
Mg	0	
Lime		

2nd Crop Choice		
Alfalfa		
YIELD GOAL		
3 Tons		
SUGGESTED GUIDELINES		
Broadcast/Maint.		
LB/ACRE		APPLICATION
N	0	
P_2O_5	30	Broadcast
K_2O	150	Broadcast
Cl		Not Available
S	0	
B	2	Broadcast
Zn	0	
Fe	0	
Mn	0	
Cu	3	Broadcast
Mg	0	
Lime		

3rd Crop Choice		
YIELD GOAL		
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" 8.0 6-24" 8.4		21.6 meq	(65-75) 84.6	(15-20) 13.5	(1-7) 1.4	(0-5) 0.6	(0-5) 0.0

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

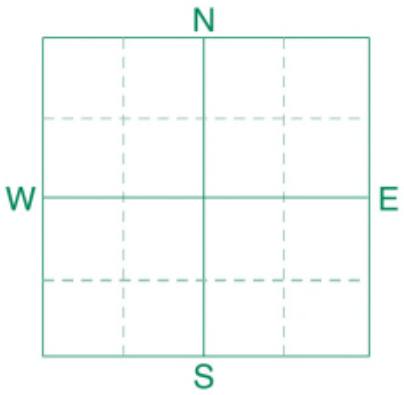
Crop 1: Limited data on crop response to chloride. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 72 K2O = 166 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

Crop 2: Limited data on crop response to chloride. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 150 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then maintain them.

SOIL TEST REPORT

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

FIELD ID **FRASIER'S**
SAMPLE ID Field 8. E 34-7-6w
FIELD NAME
COUNTY
TWP **7-6 W1** RANGE
SECTION **34** QTR **SE** ACRES 297
PREV. CROP **Canola-bu**



SUBMITTED FOR:
ARMSTRONG FEEDERS

SUBMITTED BY: **TE0509**
R-WAY AG.
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **20382865** BOX # **11099**
LAB # **NW184783**

Date Sampled **10/20/2021** Date Received **10/21/2021** Date Reported **10/23/2021**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 7 lb/acre 6-24" 18 lb/acre		********	****		
0-24'' 25 lb/acre	Nitrate				
Olsen 11 ppm	Phosphorus	******	******	******	
63 ppm	Potassium	*******	*		
0-24'' 52 lb/acre	Chloride	******	******	********	***
0-6" 24 lb/acre 6-24" 48 lb/acre	Sulfur	******	******	****	
		******	******	******	******
0.8 ppm	Boron	******	******		
0.56 ppm	Zinc	******	*****		
29.5 ppm	Iron	******	******	******	******
2.8 ppm	Manganese	******	******	*******	**
0.21 ppm	Copper	****			
512 ppm	Magnesium	******	******	******	******
2731 ppm	Calcium	******	******	******	******
27 ppm	Sodium	****			
2.3 %	Org.Matter	*******	***		
2.4 %	Carbonate(CCE)	******	******		
0-6" 0.16 mmho/cm 6-24" 0.12 mmho/cm	Sol. Salts	**** ***			

1st Crop Choice		
Wheat-Spring		
YIELD GOAL		
75 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	178	
P_2O_5	47	Band *
K_2O	72	Band *
Cl	0	
S	7	Band (Trial)
B	0	
Zn	1	Band
Fe	0	
Mn	0	
Cu	3	Band
Mg	0	
Lime		

2nd Crop Choice		
Corn-Grain		
YIELD GOAL		
135 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	137	
P_2O_5	50	Band *
K_2O	65	Band *
Cl		Not Available
S	7	Band (Trial)
B	0	
Zn	2	Band
Fe	0	
Mn	0	
Cu	1	Band
Mg	0	
Lime		

3rd Crop Choice		
Soybeans		
YIELD GOAL		
45 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	***	
P_2O_5	34	Band *
K_2O	53	Band *
Cl	0	
S	7	Band (Trial)
B	0	
Zn	2	Band
Fe	0	
Mn	0	
Cu	1	Band
Mg	0	
Lime		

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			% Ca	% Mg	% K	% Na	% H
0-6" 8.3 6-24" 8.4		18.2 meq	(65-75) 75.0	(15-20) 23.4	(1-7) 0.9	(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 = 47 K2O = 28 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

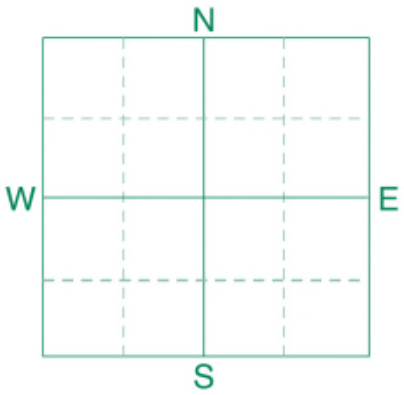
Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 50 K2O = 31 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* 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 Band/Maintenance guideline will build P & K test levels to the medium 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 **Home**
SAMPLE ID Field 9. SE 27-8-6w
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **27** QTR **SE** ACRES 100
PREV. CROP **Corn-Grain**



SUBMITTED FOR:
JP Lefloch

Haywood, MB

SUBMITTED BY: **TE0509**
R-WAY AG
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3948720** BOX # **1631**
LAB # **NW247732**

Date Sampled | Date Received **11/12/2022** | Date Reported **11/16/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" Nitrate	12 lb/acre 24 lb/acre	******	******	**	
0-24'' Nitrate	36 lb/acre				
Olsen Phosphorus	4 ppm	******			
Potassium	58 ppm	*******	*		
0-24'' Chloride	236 lb/acre	******	******	******	******
0-6" Sulfur	120 +lb/acre	******	******	******	******
6-24" Sulfur	228 lb/acre	******	******	******	******
Boron	1.0 ppm	******	******	***	
Zinc	0.58 ppm	******	******		
Iron	16.7 ppm	******	******	******	******
Manganese	2.1 ppm	******	******	******	
Copper	0.22 ppm	****			
Magnesium	630 ppm	******	******	******	******
Calcium	4475 ppm	******	******	******	******
Sodium	49 ppm	*******	*		
Org.Matter	2.5 %	******	****		
Carbonate(CCE)	4.3 %	******	******	****	
0-6" Sol. Salts	0.56 mmho/cm	******	*******	*	
6-24" Sol. Salts	0.34 mmho/cm	*******	**		

1st Crop Choice		
Canola-bu		
YIELD GOAL		
50 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	139	
P_2O_5	53	Band *
K_2O	59	Band *
Cl		Not Available
S	12	Band
B	0	
Zn	2	Band
Fe	0	
Mn	0	
Cu	1	Band
Mg	0	
Lime		

2nd Crop Choice		
Oats		
YIELD GOAL		
120 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	84	
P_2O_5	38	Band *
K_2O	74	Band *
Cl	0	
S	0	
B	0	
Zn	0	
Fe	0	
Mn	0	
Cu	2	Band
Mg	0	
Lime		

3rd Crop Choice		
Peas-Field		
YIELD GOAL		
60 BU		
SUGGESTED GUIDELINES		
Band/Maint.		
LB/ACRE		APPLICATION
N	18	
P_2O_5	48	Band *
K_2O	81	Band *
Cl		Not Available
S	0	
B	0	
Zn	1	Band
Fe	0	
Mn	0	
Cu	1	Band
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" 8.3		28.0 meq	(65-75) 79.9	(15-20) 18.8	(1-7) 0.5	(0-5) 0.8	(0-5) 0.0

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

Crop 1: 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 = 45 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

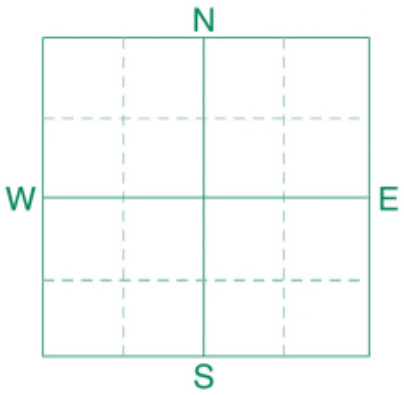
Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 3: 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 = 42 K2O = 43 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

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

SOIL TEST REPORT

FIELD ID **Marcel's**
SAMPLE ID Field 10. SW 27-8-6w
FIELD NAME
COUNTY
TWP **8-6 W1** RANGE
SECTION **27** QTR **SW** ACRES 136
PREV. CROP **Canola-bu**



SUBMITTED FOR:
JP Lefloch

Haywood, MB

SUBMITTED BY: **TE0509**
R-WAY AG
PO BOX 388
ST CLAUDE, MB **R0G 1Z0**

REF # **3836553** BOX # **1406**
LAB # **NW157821**

Date Sampled | Date Received **10/13/2022** | Date Reported **10/17/2022**

Nutrient In The Soil		Interpretation			
		VLow	Low	Med	High
0-6" 6-24" Nitrate	26 lb/acre 9 lb/acre	**********			
0-24'' Nitrate	35 lb/acre				
Olsen Phosphorus	7 ppm	**********			
Potassium	84 ppm	**********			
0-24'' Chloride	72 lb/acre	**********	**********	**********	**********
0-6" Sulfur	30 lb/acre	**********	**********	**********	
6-24" Sulfur	84 lb/acre	**********	**********	**********	**********
Boron	0.9 ppm	**********	**********	*	
Zinc	0.41 ppm	**********	**		
Iron	16.9 ppm	**********	**********	**********	**********
Manganese	1.7 ppm	**********	**********	****	
Copper	0.19 ppm	****			
Magnesium	584 ppm	**********	**********	**********	**********
Calcium	4066 ppm	**********	**********	**********	**********
Sodium	36 ppm	*****			
Org.Matter	2.6 %	**********	****		
Carbonate(CCE)	2.7 %	**********	**********		
0-6" Sol. Salts	0.24 mmho/cm	******			
6-24" Sol. Salts	0.18 mmho/cm	****			

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_2O_5		P_2O_5		P_2O_5	
K_2O		K_2O		K_2O	
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" **8.2** 6-24" **8.5**		**25.6 meq**	(65-75) **79.5**	(15-20) **19.0**	(1-7) **0.8**	(0-5) **0.6**	(0-5) **0.0**

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