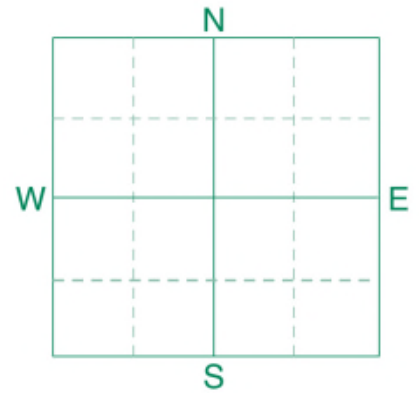




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **Keystone North**
 SAMPLE ID **Alfalfa By Keystone**
 FIELD NAME **Keystone7NH**
 COUNTY
 TWP **13** RANGE **1w**
 SECTION **7** QTR **NH** ACRES **215**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3518236** BOX # **3708**
 LAB # **NW202076**

Date Sampled

Date Received **10/27/2021**

Date Reported **10/29/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL	
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate	0-6" 6-24"	10 lb/acre 6 lb/acre	*****					
	0-24"	16 lb/acre						
Olsen		22 ppm	*****					
Phosphorus								
Potassium		388 ppm	*****					
Chloride	0-24"	208 lb/acre	*****					
	0-6" 6-24"	66 lb/acre 258 lb/acre	*****					
Sulfur								
Boron		1.4 ppm	*****					
Zinc		1.97 ppm	*****					
Iron		18.2 ppm	*****					
Manganese		1.2 ppm	*****					
Copper		1.8 ppm	*****					
Magnesium		1752 ppm	*****					
Calcium		5260 ppm	*****					
Sodium		114 ppm	*****					
Org.Matter		5.5 %	*****					
Carbonate(CCE)		7.3 %	*****					
Sol. Salts	0-6"	0.76 mmho/cm	*****					
	6-24"	0.6 mmho/cm	*****					
Soil pH	0-6" 8.0 6-24" 8.3							
Buffer pH								
Cation Exchange Capacity		42.4 meq						
% Base Saturation (Typical Range)								
			% Ca	% Mg	% K	% Na	% H	
			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
			62.0	34.4	2.3	1.2	0.0	

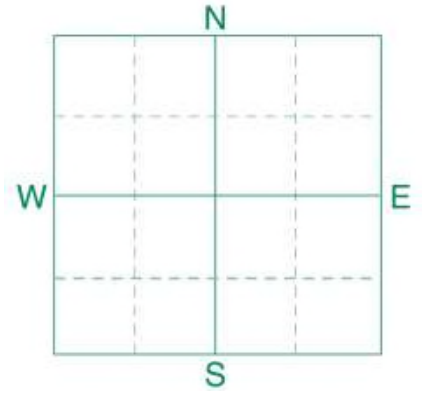
General Comments: Soil texture is not estimated on high pH soils.



SOIL TEST REPORT

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

FIELD ID **Keystone South**
 SAMPLE ID **Keystone South**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **590**
 PREV. CROP **Alfalfa**



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: TE0817
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **3664811** BOX # **5692**
 LAB # **NW40078**

Date Sampled _____ Date Received **06/30/2022** Date Reported **07/01/2022**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL				
Nitrate	0-6" 6-24"	25 lb/acre 48 lb/acre	*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
	0-24"	73 lb/acre	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	29 ppm	*****				N		N		N			
Potassium		520 ppm	*****				P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Chloride	0-24"	20 lb/acre	*****				K ₂ O		K ₂ O		K ₂ O			
Sulfur	0-6" 6-24"	10 lb/acre 36 lb/acre	*****				Cl		Cl		Cl			
Boron		2.1 ppm	*****				S		S		S			
Zinc		5.78 ppm	*****				B		B		B			
Iron		19.5 ppm	*****				Zn		Zn		Zn			
Manganese		1.9 ppm	*****				Fe		Fe		Fe			
Copper		2.41 ppm	*****				Mn		Mn		Mn			
Magnesium		1200 ppm	*****				Cu		Cu		Cu			
Calcium		6324 ppm	*****				Mg		Mg		Mg			
Sodium		18 ppm	***				Lime		Lime		Lime			
Org.Matter		8.6 %	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Carbonate(CCE)		1.9 %	*****							% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.49 mmho/cm 0.51 mmho/cm	*****				0-6" 7.8 6-24" 8.0		43.0 meq	(65-75) 73.5	(15-20) 23.2	(1-7) 3.1	(0-5) 0.2	(0-5) 0.0

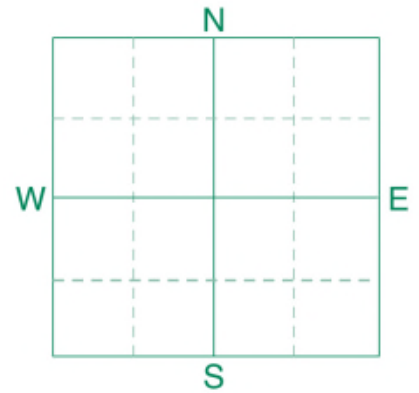
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **Manchester East**
 SAMPLE ID **Manchester East**
 FIELD NAME **Manchester East**
 COUNTY
 TWP **13** RANGE **1W**
 SECTION **8** QTR **NE** ACRES **160**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2942549** BOX # **1025**
 LAB # **NW148505**

Date Sampled

Date Received **10/08/2020**

Date Reported **10/12/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice									
		VLow Low Med High														
Nitrate	0-6" 6-24"		Canola-bu		Wheat-Spring		Corn-Silage									
			YIELD GOAL		YIELD GOAL		YIELD GOAL									
	0-24"		60 BU		75 BU		19 Tons									
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES									
			Band		Band		Band									
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION								
Olsen	18 ppm		N	0	N	10	N	10								
Phosphorus			P ₂ O ₅	21 Band *	P ₂ O ₅	19 Band *	P ₂ O ₅	37 Band *								
Potassium	223 ppm		K ₂ O	0	K ₂ O	10 Band (Starter)*	K ₂ O	16 Band *								
Chloride	0-24" 224 lb/acre		Cl	Not Available	Cl	0	Cl	Not Available								
Sulfur	0-6" 6-24" 26 lb/acre 72 lb/acre		S	15 Band	S	0	S	0								
Boron	1.4 ppm		B	0	B	0	B	0								
Zinc	1.76 ppm		Zn	0	Zn	0	Zn	0								
Iron	23.4 ppm		Fe	0	Fe	0	Fe	0								
Manganese	3.5 ppm		Mn	0	Mn	0	Mn	0								
Copper	1.93 ppm		Cu	0	Cu	0	Cu	0								
Magnesium	1465 ppm		Mg	0	Mg	0	Mg	0								
Calcium	5363 ppm		Lime		Lime		Lime									
Sodium	87 ppm															
Org.Matter	6.3 %															
Carbonate(CCE)	4.1 %															
Sol. Salts	0-6" 6-24" 0.89 mmho/cm 0.87 mmho/cm		Soil pH	7.6 8.3	Buffer pH		Cation Exchange Capacity	40.0 meq	% Base Saturation (Typical Range)							
							% Ca	(65-75) 67.1	% Mg	(15-20) 30.5	% K	(1-7) 1.4	% Na	(0-5) 0.9	% H	(0-5) 0.0

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

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: P205 = 54 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: *CAUTION: Seed-placed fertilizer can cause injury. * May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.

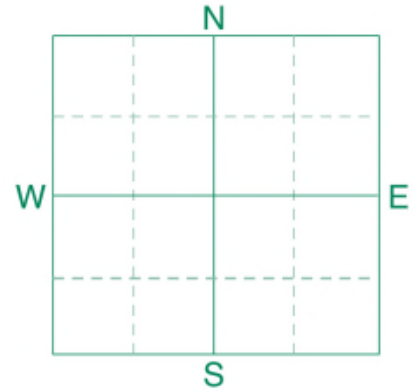
Crop 3: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury. * May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 68 K2O = 158 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Murphy's Half**
 SAMPLE ID **Shymkos**
 FIELD NAME **Murphy's Half**
 COUNTY
 TWP **13** RANGE **1W**
 SECTION **9** QTR **WH** ACRES **305**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3305805** BOX # **5677**
 LAB # **NW49061**

Date Sampled

Date Received **08/12/2021**

Date Reported **08/13/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION	
Nitrate	0-6" 6-24"					N		N		N			
	0-24"					P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Phosphorus	Olsen 33 ppm					K ₂ O		K ₂ O		K ₂ O			
Potassium	401 ppm					Cl		Cl		Cl			
Chloride	0-24" 132 lb/acre					S		S		S			
	0-6" 6-24" 14 lb/acre 72 lb/acre					B		B		B			
Sulfur						Zn		Zn		Zn			
Boron	2.0 ppm					Fe		Fe		Fe			
Zinc	1.85 ppm					Mn		Mn		Mn			
Iron	22.8 ppm					Cu		Cu		Cu			
Manganese	2.7 ppm					Mg		Mg		Mg			
Copper	2.49 ppm					Lime		Lime		Lime			
Magnesium	2399 ppm					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Calcium	4405 ppm					0-6" 7.8	Buffer pH	43.4 meq	% Ca	% Mg	% K	% Na	% H
Sodium	83 ppm					6-24" 8.5			(65-75) 50.7	(15-20) 46.1	(1-7) 2.4	(0-5) 0.8	(0-5) 0.0
Org.Matter	6.9 %					Sol. Salts							
Carbonate(CCE)	4.9 %					0-6" 0.78 mmho/cm							
						6-24" 0.68 mmho/cm							

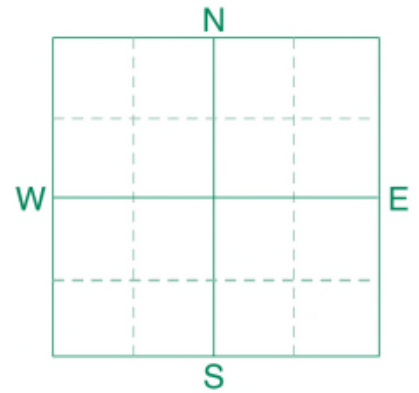
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **3 Fields**
 SAMPLE ID **North Keystone 3 fields**
 FIELD NAME **3 Fields**
 COUNTY
 TWP **13** RANGE **1W**
 SECTION **18** QTR **SH SH** ACRES **200**
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3153258** BOX # **278**
 LAB # **NW206032**

Date Sampled

Date Received **11/04/2020**

Date Reported **11/05/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow Low Med High	Canola-bu		YIELD GOAL		YIELD GOAL				
Nitrate	0-6" 6-24"	32 lb/acre 39 lb/acre	60 BU		YIELD GOAL		YIELD GOAL				
	0-24"	71 lb/acre	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
			Band		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 28 ppm	*****	N	139	N		N				
Potassium	280 ppm	*****	P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	P ₂ O ₅				
Chloride	0-24" 268 lb/acre	*****	K ₂ O	0		K ₂ O	K ₂ O				
Sulfur	0-6" 120 +lb/acre 6-24" 360 +lb/acre	*****	Cl		Not Available	Cl	Cl				
Boron	1.8 ppm	*****	S	10	Band	S	S				
Zinc	1.76 ppm	*****	B	0		B	B				
Iron	15.6 ppm	*****	Zn	0		Zn	Zn				
Manganese	1.3 ppm	*****	Fe	0		Fe	Fe				
Copper	1.89 ppm	*****	Mn	0		Mn	Mn				
Magnesium	2202 ppm	*****	Cu	0		Cu	Cu				
Calcium	5388 ppm	*****	Mg	0		Mg	Mg				
Sodium	133 ppm	*****	Lime			Lime	Lime				
Org.Matter	5.9 %	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)	7.6 %	*****	Buffer pH		Capacity		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 0.8 mmho/cm 6-24" 1.36 mmho/cm	*****	0-6" 8.2		46.6 meq		(65-75) 57.8	(15-20) 39.4	(1-7) 1.5	(0-5) 1.2	(0-5) 0.0
			6-24" 8.5								

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

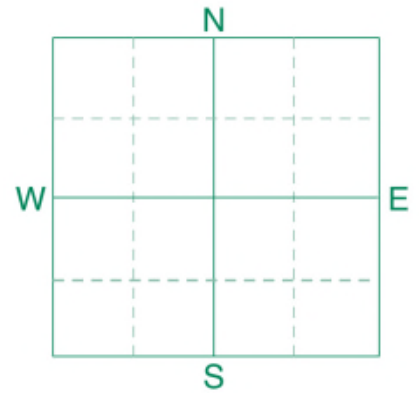
Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 54 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Gary Peltz**
 SAMPLE ID **Peltz**
 FIELD NAME **Gary Peltz**
 COUNTY
 TWP **13** RANGE **1W**
 SECTION **19** QTR **W 1/2** ACRES **225**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2938624** BOX # **5901**
 LAB # **NW49570**

Date Sampled

Date Received **08/05/2020**

Date Reported **08/06/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
		VLow	Low	Med	High										
Nitrate	0-6" 6-24"	*****				Canola-bu		Corn-Grain		Wheat-Spring					
		*****				YIELD GOAL		YIELD GOAL		YIELD GOAL					
	0-24"	*****				60 BU		175 BU		75 BU					
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
		*****				Band		Band		Band					
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION				
Olsen	10 ppm	*****				N	156	N	156	N	149				
Phosphorus		*****				P ₂ O ₅	45	Band *	P ₂ O ₅	53	Band *				
Potassium	301 ppm	*****				K ₂ O	0	Band (2x2) *	K ₂ O	10	Band (Starter) *				
Chloride	0-24" 6-24"	*****				Cl		Not Available	Cl		Not Available				
		*****				S	10	Band	S	0					
Sulfur	120 +lb/acre 360 +lb/acre	*****				B	0		B	0					
Boron	2.8 ppm	*****				Zn	1	Band	Zn	2	Band				
Zinc	0.92 ppm	*****				Fe	0		Fe	0					
Iron	15.6 ppm	*****				Mn	2	Band	Mn	2	Band				
Manganese	0.9 ppm	*****				Cu	0		Cu	0					
Copper	1.91 ppm	*****				Mg	0		Mg	0					
Magnesium	2621 ppm	*****				Lime			Lime						
Calcium	5320 ppm	*****				Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Sodium	459 ppm	*****				0-6"	8.3				% Ca	% Mg	% K	% Na	% H
Org.Matter	5.5 %	*****				6-24"	8.4			51.2 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Carbonate(CCE)	5.1 %	*****									51.9	42.7	1.5	3.9	0.0
Sol. Salts	0-6" 6-24"	*****													

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 = 54 K2O = 27 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 = 65 K2O = 40 AGVISE Band guideline will build P & K test levels to the medium range over several years.

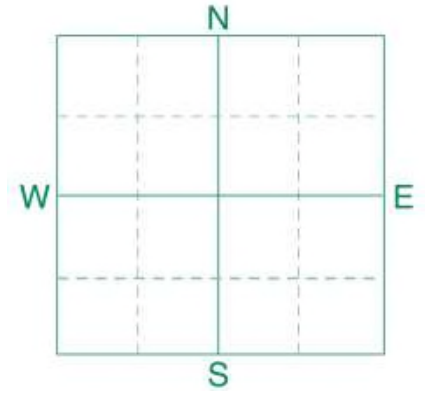
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Taplin West**
 SAMPLE ID
 FIELD NAME **Schellekins**
 COUNTY
 TWP **13** RANGE **1E**
 SECTION **36** QTR ACRES **220**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: TE0817
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3664813** BOX # **5602**
 LAB # **NW40080**

Date Sampled _____ Date Received **06/30/2022** Date Reported **07/01/2022**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL				
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION		
Nitrate	0-6" 6-24"					N		N		N				
	0-24"					P ₂ O ₅		P ₂ O ₅		P ₂ O ₅				
Phosphorus	Olsen 20 ppm					K ₂ O		K ₂ O		K ₂ O				
Potassium	462 ppm					Cl		Cl		Cl				
Chloride	0-24" 16 lb/acre					S		S		S				
Sulfur	0-6" 8 lb/acre					B		B		B				
	6-24" 24 lb/acre					Zn		Zn		Zn				
Boron	1.6 ppm					Fe		Fe		Fe				
Zinc	1.90 ppm					Mn		Mn		Mn				
Iron	20.9 ppm					Cu		Cu		Cu				
Manganese	2.2 ppm					Mg		Mg		Mg				
Copper	1.2 ppm					Lime		Lime		Lime				
Magnesium	1190 ppm					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Calcium	6484 ppm					0-6" 7.9	Buffer pH	43.6 meq	% Ca	% Mg	% K	% Na	% H	
Sodium	12 ppm					6-24" 7.9			(65-75) 74.4	(15-20) 22.8	(1-7) 2.7	(0-5) 0.1	(0-5) 0.0	
Org.Matter	7.4 %					Sol. Salts								
Carbonate(CCE)	1.9 %					0-6" 0.44 mmho/cm								
						6-24" 0.57 mmho/cm								

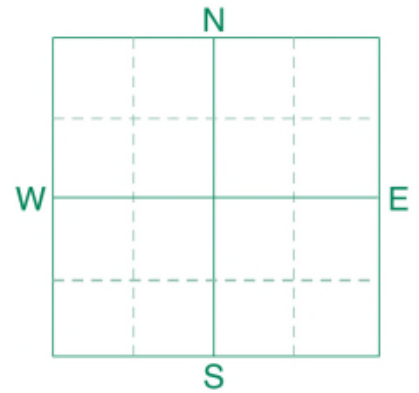
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **Taplins East**
 SAMPLE ID **Taplins**
 FIELD NAME **Taplins**
 COUNTY
 TWP **13** RANGE **1e**
 SECTION **31** QTR **SW/NW** ACRES **220**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3518215** BOX # **3771**
 LAB # **NW202074**

Date Sampled

Date Received **10/27/2021**

Date Reported **10/29/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice					
		VLow	Low	Med	High	Corn-Grain											
Nitrate	0-6"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL					
	6-24"	*****				150 BU											
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
		*****				Band											
		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION				
Phosphorus	Olsen 10 ppm	*****				N	140		N			N					
Potassium	230 ppm	*****				P ₂ O ₅	45	Band *	P ₂ O ₅			P ₂ O ₅					
Chloride	0-24" 16 lb/acre	*****				K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O					
Sulfur	0-6" 16 lb/acre 6-24" 30 lb/acre	*****				Cl		Not Available	Cl			Cl					
Boron	1.2 ppm	*****				S	5	Band (Trial)	S			S					
Zinc	0.37 ppm	*****				B	0		B			B					
Iron	14.3 ppm	*****				Zn	2	Band	Zn			Zn					
Manganese	2.1 ppm	*****				Fe	0		Fe			Fe					
Copper	0.82 ppm	*****				Mn	0		Mn			Mn					
Magnesium	772 ppm	*****				Cu	0		Cu			Cu					
Calcium	5371 ppm	*****				Mg	0		Mg			Mg					
Sodium	13 ppm	**				Lime			Lime			Lime					
Org.Matter	5.3 %	*****				Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)	4.7 %	*****				0-6" 8.0			6-24" 8.2			33.9 meq			% Ca % Mg % K % Na % H		
Sol. Salts	0-6" 0.33 mmho/cm 6-24" 0.27 mmho/cm	*****										(65-75) 79.1 (15-20) 19.0 (1-7) 1.7 (0-5) 0.2 (0-5) 0.0					

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

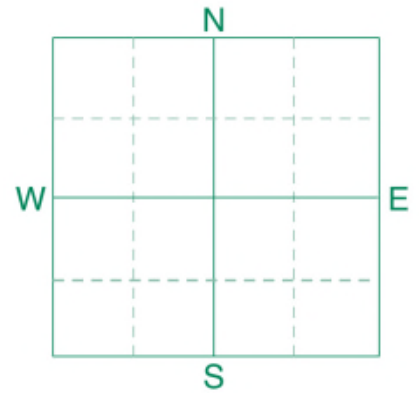
Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 56 K2O = 35 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **65 acre by bridge**
 SAMPLE ID **65 Acre By Bridge**
 FIELD NAME **65 acre by bridge**
 COUNTY
 TWP **13** RANGE **1W**
 SECTION **1** QTR **NE** ACRES **65**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3419600** BOX # **40**
 LAB # **NW140030**

Date Sampled

Date Received **10/04/2021**

Date Reported **10/07/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"		N		N		N			
	0-24"		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Phosphorus	Olsen 31 ppm		K ₂ O		K ₂ O		K ₂ O			
Potassium	361 ppm		Cl		Cl		Cl			
Chloride	0-24" 436 lb/acre		S		S		S			
	0-6" 6-24" 50 lb/acre 360 +lb/acre		B		B		B			
Sulfur			Zn		Zn		Zn			
Boron	1.2 ppm		Fe		Fe		Fe			
Zinc	1.25 ppm		Mn		Mn		Mn			
Iron	21.5 ppm		Cu		Cu		Cu			
Manganese	1.4 ppm		Mg		Mg		Mg			
Copper	3.01 ppm		Lime		Lime		Lime			
Magnesium	2437 ppm									
Calcium	4898 ppm									
Sodium	155 ppm									
Org.Matter	4.9 %									
Carbonate(CCE)	9.3 %									
Sol. Salts	0-6" 0.95 mmho/cm									
	6-24" 1.33 mmho/cm									
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 8.0		46.4 meq	% Ca	% Mg	% K	% Na	% H
			6-24" 8.3			(65-75) 52.8	(15-20) 43.8	(1-7) 2.0	(0-5) 1.5	(0-5) 0.0

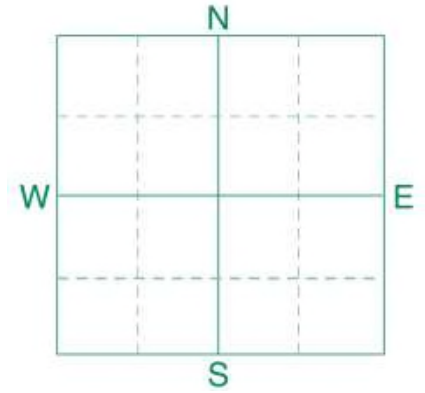
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **Behind Jon's**
 SAMPLE ID
 FIELD NAME **Behind Jon's**
 COUNTY
 TWP **13** RANGE **2W**
 SECTION **1** QTR **North Half** ACRES **225**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: TE0817
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB R0C 220

REF # **3664815** BOX # **5692**
 LAB # **NW40082**

Date Sampled

Date Received **06/30/2022**

Date Reported **07/01/2022**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24" 0-24"	*****	N		N		N			
Phosphorus	Olsen 54 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium	869 ppm	*****	K ₂ O		K ₂ O		K ₂ O			
Chloride	0-24" 92 lb/acre	*****	Cl		Cl		Cl			
Sulfur	0-6" 6-24" 20 lb/acre	*****	S		S		S			
Boron	1.8 ppm	*****	B		B		B			
Zinc	6.81 ppm	*****	Zn		Zn		Zn			
Iron	34.7 ppm	*****	Fe		Fe		Fe			
Manganese	2.2 ppm	*****	Mn		Mn		Mn			
Copper	4.54 ppm	*****	Cu		Cu		Cu			
Magnesium	1757 ppm	*****	Mg		Mg		Mg			
Calcium	5197 ppm	*****	Lime		Lime		Lime			
Sodium	65 ppm	*****								
Org.Matter	9.8 %	*****								
Carbonate(CCE)	0.6 %	****								
Sol. Salts	0-6" 0.65 mmho/cm 6-24" 0.64 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.5 6-24" 7.9		43.1 meq	% Ca	% Mg	% K	% Na	% H
						(65-75) 60.2	(15-20) 33.9	(1-7) 5.2	(0-5) 0.7	(0-5) 0.0

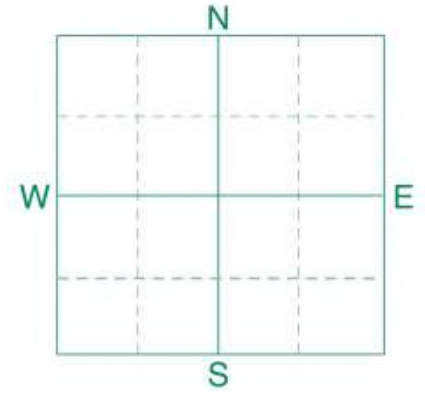
General Comments: Fine-textured (CEC: 31+ meq)



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

SOIL TEST REPORT

FIELD ID **Behind Kim's**
 SAMPLE ID **Behind Kims**
 FIELD NAME **Behind Kim's**
 COUNTY
 TWP **13** RANGE **2w**
 SECTION **1** QTR **SW** ACRES **150**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3664812** BOX # **5692**
 LAB # **NW40079**

Date Sampled

Date Received **06/30/2022**

Date Reported **07/01/2022**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24" 0-24"	*****	N		N		N			
Phosphorus	Olsen 51 ppm	*****	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium	812 ppm	*****	K ₂ O		K ₂ O		K ₂ O			
Chloride	0-24" 104 lb/acre	*****	Cl		Cl		Cl			
Sulfur	0-6" 12 lb/acre 6-24" 78 lb/acre	*****	S		S		S			
Boron	1.7 ppm	*****	B		B		B			
Zinc	3.57 ppm	*****	Zn		Zn		Zn			
Iron	36.3 ppm	*****	Fe		Fe		Fe			
Manganese	2.0 ppm	*****	Mn		Mn		Mn			
Copper	3.56 ppm	*****	Cu		Cu		Cu			
Magnesium	1690 ppm	*****	Mg		Mg		Mg			
Calcium	5232 ppm	*****	Lime		Lime		Lime			
Sodium	67 ppm	*****								
Org.Matter	9.3 %	*****								
Carbonate(CCE)	1.1 %	*****								
Sol. Salts	0-6" 0.63 mmho/cm 6-24" 0.68 mmho/cm	*****								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 7.5		42.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 7.9			61.4	33.0	4.9	0.7	0.0

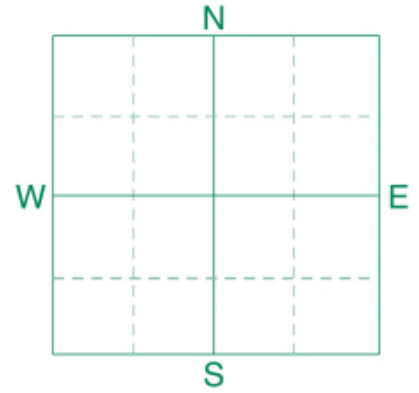
General Comments: Fine-textured (CEC: 31+ meq)



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

SOIL TEST REPORT

FIELD ID **60 & 90** Manchester West
 SAMPLE ID **60 & 90**
 FIELD NAME **60 & 90**
 COUNTY
 TWP **13** RANGE **2W**
 SECTION **12** QTR **NW** ACRES **150**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2976181** BOX # **1660**
 LAB # **NW68223**

Date Sampled

Date Received **09/03/2020**

Date Reported **09/04/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow Low Med High									
Nitrate	0-6" 6-24"	48 lb/acre 54 lb/acre				Canola-bu					
						YIELD GOAL		YIELD GOAL			
	0-24"	102 lb/acre				60 BU					
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
					Band						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
			N		N	108	N				
Phosphorus	Olsen	12 ppm			P ₂ O ₅	39	P ₂ O ₅	Band *			
Potassium		310 ppm			K ₂ O	0	K ₂ O				
Chloride	0-24"	120 lb/acre			Cl		Cl	Not Available			
	0-6" 6-24"	36 lb/acre 264 lb/acre			S	10	S	Band			
Sulfur					B	0	B				
Boron		1.3 ppm			Zn	1	Zn	Band			
Zinc		0.90 ppm			Fe	0	Fe				
Iron		18.6 ppm			Mn	0	Mn				
Manganese		1.1 ppm			Cu	0	Cu				
Copper		3.07 ppm			Mg	0	Mg				
Magnesium		1962 ppm			Lime		Lime				
Calcium		4942 ppm									
Sodium		143 ppm									
Org.Matter		4.8 %									
Carbonate(CCE)		7.9 %									
Sol. Salts	0-6"	0.48 mmho/cm			Soil pH	Buffer pH	% Base Saturation (Typical Range)				
	6-24"	0.61 mmho/cm			0-6" 8.4		% Ca	% Mg	% K	% Na	% H
					6-24" 8.7		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						42.5 meq	58.2	38.5	1.9	1.5	0.0

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

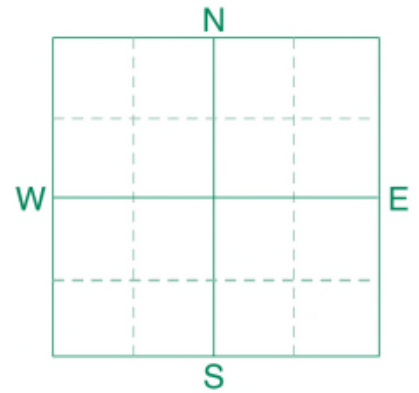
Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 54 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **MacGillivray's Half**
 SAMPLE ID **MacGillivrays 1/2**
 FIELD NAME **MacGillivray's Half**
 COUNTY
 TWP **13** RANGE **2W**
 SECTION **13** QTR **East Half** ACRES **320**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3532605** BOX # **5290**
 LAB # **NW221158**

Date Sampled

Date Received **11/04/2021**

Date Reported **11/05/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL						
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
		*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Nitrate	0-6" 6-24"		N		N		N						
	0-24"		P ₂ O ₅		P ₂ O ₅		P ₂ O ₅						
Phosphorus	Olsen 20 ppm		K ₂ O		K ₂ O		K ₂ O						
Potassium	276 ppm		Cl		Cl		Cl						
Chloride	0-24" 1120 lb/acre		S		S		S						
	0-6" 6-24" 120 +lb/acre 360 +lb/acre		B		B		B						
Sulfur			Zn		Zn		Zn						
Boron	1.9 ppm		Fe		Fe		Fe						
Zinc	1.06 ppm		Mn		Mn		Mn						
Iron	15.0 ppm		Cu		Cu		Cu						
Manganese	1.6 ppm		Mg		Mg		Mg						
Copper	2.26 ppm		Lime		Lime		Lime						
Magnesium	1720 ppm		Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Calcium	4683 ppm		0-6" 8.1		6-24" 8.5		39.5 meq		% Ca	% Mg	% K	% Na	% H
Sodium	238 ppm								(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Org.Matter	4.7 %								59.3	36.3	1.8	2.6	0.0
Carbonate(CCE)	9.7 %												
Sol. Salts	0-6" 1.26 mmho/cm												
	6-24" 1.28 mmho/cm												

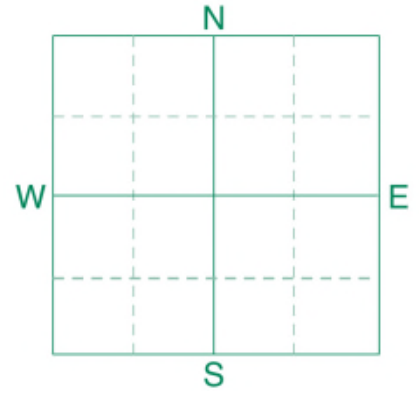
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **Sines highway 227**
 SAMPLE ID **Sines**
 FIELD NAME **Sines highway 227**
 COUNTY
 TWP **13** RANGE **2w**
 SECTION **24** QTR **NE** ACRES **75**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2956376** BOX # **505**
 LAB # **NW56216**

Date Sampled

Date Received **08/22/2020**

Date Reported **08/24/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu		Corn-Silage		Wheat-Spring			
Nitrate	0-6" 6-24"	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				60 BU		19 Tons		75 BU			
	0-24"	*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****				Band		Band		Band			
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen	7 ppm	*****				N	144	N	132	N	137		
Phosphorus		*****				P ₂ O ₅	54	P ₂ O ₅	62	P ₂ O ₅	46		
Potassium	307 ppm	*****					Band *		Band *		Band *		
Chloride	0-24"	*****				K ₂ O	0	K ₂ O	10	K ₂ O	10		
		*****					Band (2x2) *		Band (2x2) *		Band (Starter) *		
Sulfur	0-6" 6-24"	*****				Cl	Not Available	Cl	Not Available	Cl	0		
		*****					Not Available		Not Available		0		
Boron	2.5 ppm	*****				S	10	S	0	S	0		
		*****					Band		0		0		
Zinc	0.38 ppm	*****				B	0	B	0	B	0		
Iron	16.3 ppm	*****							0		0		
Manganese	1.5 ppm	*****				Zn	2	Zn	2	Zn	1		
		*****					Band		Band		Band		
Copper	1.64 ppm	*****				Fe	0	Fe	0	Fe	0		
Magnesium	2216 ppm	*****				Mn	0	Mn	0	Mn	0		
Calcium	5428 ppm	*****				Cu	0	Cu	0	Cu	0		
Sodium	97 ppm	*****				Mg	0	Mg	0	Mg	0		
Org.Matter	5.7 %	*****				Lime		Lime		Lime			
Carbonate(CCE)	6.1 %	*****											
Sol. Salts	0-6" 6-24"	*****				Soil pH	8.2	Cation Exchange Capacity	% Base Saturation (Typical Range)				
		*****					8.6		% Ca	% Mg	% K	% Na	% H
		*****						46.8 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
		*****							58.0	39.4	1.7	0.9	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 = 54 K2O = 27 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 = 68 K2O = 158 AGVISE Band guideline will build P & K test levels to the medium range over several years.

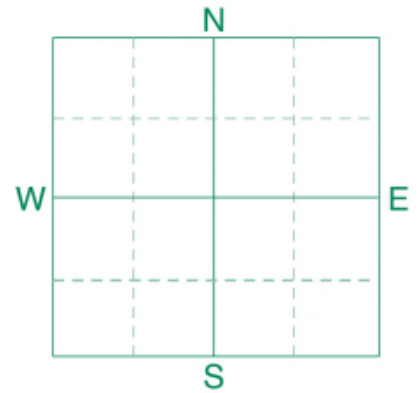
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID
 SAMPLE ID **Sultz 1/4**
 FIELD NAME **MacGillivray's Quarter**
 COUNTY
 TWP **13** RANGE **2W**
 SECTION **24** QTR **SW** ACRES **160**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3532849** BOX # **5493**
 LAB # **NW221939**

Date Sampled

Date Received **11/04/2021**

Date Reported **11/05/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	Oats							
Nitrate	0-6" 6-24"		YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"	*****	150 BU							
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band							
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen Phosphorus	18 ppm	*****	N	10	N		N			
Potassium	266 ppm	*****	P ₂ O ₅	15 Band (Starter)*	P ₂ O ₅		P ₂ O ₅			
Chloride	0-24" 996 lb/acre	*****	K ₂ O	10 Band (Starter)*	K ₂ O		K ₂ O			
Sulfur	0-6" 6-24" 120 +lb/acre 360 +lb/acre	*****	Cl	0	Cl		Cl			
Boron	0.9 ppm	*****	S	0	S		S			
Zinc	0.36 ppm	*****	B	0	B		B			
Iron	16.7 ppm	*****	Zn	1 Band	Zn		Zn			
Manganese	5.1 ppm	*****	Fe	0	Fe		Fe			
Copper	0.75 ppm	*****	Mn	0	Mn		Mn			
Magnesium	1766 ppm	*****	Cu	1 Band (Trial)	Cu		Cu			
Calcium	4801 ppm	*****	Mg	0	Mg		Mg			
Sodium	145 ppm	*****	Lime		Lime		Lime			
Org.Matter	5.7 %	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Carbonate(CCE)	8.5 %	*****	Buffer pH			% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24" 1.51 mmho/cm 2.0 mmho/cm	*****	0-6" 8.1		40.0 meq	(65-75) 60.0	(15-20) 36.8	(1-7) 1.7	(0-5) 1.6	(0-5) 0.0

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

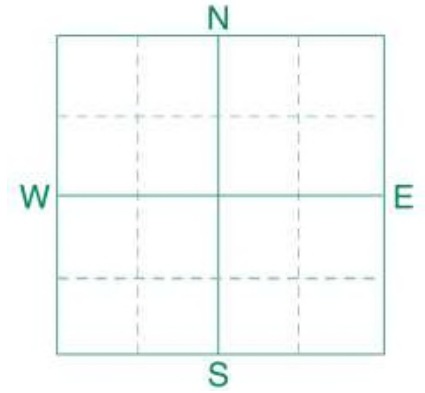
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 38 K2O = 29 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Meridian**
 SAMPLE ID
 FIELD NAME **Meridian**
 COUNTY
 TWP **12** RANGE **1E**
 SECTION **18** QTR **NW** ACRES **160**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: TE0817
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3664814** BOX # **5602**
 LAB # **NW40081**

Date Sampled _____ Date Received **06/30/2022** Date Reported **07/01/2022**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"					N		N		N			
	0-24"					P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Phosphorus	Olsen 23 ppm					K ₂ O		K ₂ O		K ₂ O			
Potassium	469 ppm					Cl		Cl		Cl			
Chloride	0-24" 16 lb/acre					S		S		S			
	0-6" 6-24" 8 lb/acre 24 lb/acre					B		B		B			
Sulfur						Zn		Zn		Zn			
Boron	1.7 ppm					Fe		Fe		Fe			
Zinc	0.94 ppm					Mn		Mn		Mn			
Iron	23.6 ppm					Cu		Cu		Cu			
Manganese	2.6 ppm					Mg		Mg		Mg			
Copper	1.26 ppm					Lime		Lime		Lime			
Magnesium	1259 ppm					Soil pH Buffer pH Cation Exchange Capacity		% Base Saturation (Typical Range)					
Calcium	6172 ppm							% Ca	% Mg	% K	% Na	% H	
Sodium	15 ppm					0-6" 7.8		42.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Org.Matter	7.5 %					6-24" 7.9			72.4	24.6	2.8	0.2	0.0
Carbonate(CCE)	1.8 %												
Sol. Salts	0-6" 0.47 mmho/cm												
	6-24" 0.59 mmho/cm												

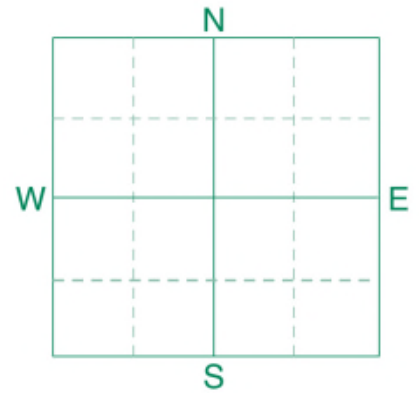
General Comments: Soil texture is not estimated on high pH soils.



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

SOIL TEST REPORT

FIELD ID **Childerhose 80**
 SAMPLE ID **Childerhose 80**
 FIELD NAME
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **80**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **3333553** BOX # **20139**
 LAB # **NW63735**

Date Sampled

Date Received **08/31/2021**

Date Reported **09/03/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"	32 lb/acre 21 lb/acre								
	0-24"	53 lb/acre								
Phosphorus	Olsen	8 ppm								
Potassium		250 ppm								
Chloride	0-24"	88 lb/acre								
	0-6" 6-24"	24 lb/acre 114 lb/acre								
Sulfur										
Boron		0.6 ppm								
Zinc		0.77 ppm								
Iron		24.5 ppm								
Manganese		2.2 ppm								
Copper		0.84 ppm								
Magnesium		765 ppm								
Calcium		3184 ppm								
Sodium		23 ppm								
Org.Matter		3.7 %								
Carbonate(CCE)		1.0 %								
Sol. Salts	0-6"	0.41 mmho/cm								
	6-24"	0.39 mmho/cm								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.5		23.0 meq	% Ca	% Mg	% K	% Na	% H
			6-24" 8.1			(65-75) 69.1	(15-20) 27.7	(1-7) 2.8	(0-5) 0.4	(0-5) 0.0

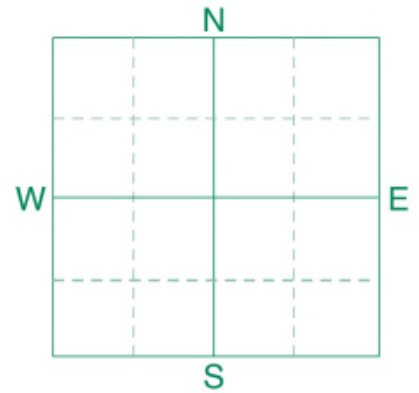
General Comments: Medium-textured (CEC: 11-30 meq)
 Haney Soil Test Report will be mailed.



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

SOIL TEST REPORT

FIELD ID **Childerhose 1/4**
 SAMPLE ID **Childerhose 1/4**
 FIELD NAME
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **15** QTR **NW** ACRES **160**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3121589** BOX # **3548**
 LAB # **NW175495**

Date Sampled

Date Received **10/17/2020**

Date Reported **10/22/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Oats		Wheat-Spring		Soybeans			
Nitrate	0-6" 6-24"	30 lb/acre 57 lb/acre	*****			YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"					87 lb/acre	140 BU	75 BU	45 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band		Band		Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	7 ppm	*****			N	53	N	116	N	***		
Potassium		126 ppm	*****			P ₂ O ₅	38 Band *	P ₂ O ₅	46 Band *	P ₂ O ₅	38 Band *		
Chloride	0-24"	28 lb/acre	*****			K ₂ O	48 Band *	K ₂ O	39 Band *	K ₂ O	30 Band *		
Sulfur	0-6" 6-24"	48 lb/acre 102 lb/acre	*****			Cl	12 Broadcast	Cl	12 Broadcast	Cl	0		
Boron		1.5 ppm	*****			S	0	S	0	S	0		
Zinc		0.35 ppm	*****			B	0	B	0	B	0		
Iron		14.7 ppm	*****			Zn	1 Band	Zn	1 Band	Zn	2 Band		
Manganese		2.1 ppm	*****			Fe	0	Fe	0	Fe	0		
Copper		0.51 ppm	*****			Mn	0	Mn	0	Mn	0		
Magnesium		905 ppm	*****			Cu	1 Band (Trial)	Cu	1 Band (Trial)	Cu	0		
Calcium		5271 ppm	*****			Mg	0	Mg	0	Mg	0		
Sodium		33 ppm	****			Lime		Lime		Lime			
Org.Matter		3.5 %	*****										
Carbonate(CCE)		8.3 %	*****										
Sol. Salts	0-6" 6-24"	0.41 mmho/cm 0.29 mmho/cm	*****										
						Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
									% Ca	% Mg	% K	% Na	% H
						0-6" 8.1 6-24" 8.4		34.4 meq	(65-75) 76.7	(15-20) 21.9	(1-7) 0.9	(0-5) 0.4	(0-5) 0.0

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

Crop 1: 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 35 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. *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 guideline will build P & K test levels to the medium range over several years.

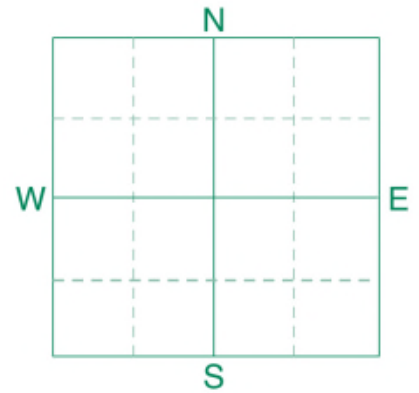
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is high, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Childerhose 70**
 SAMPLE ID **Childerhose 70**
 FIELD NAME **Childerhose**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **16** QTR **ne** ACRES **70**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2938624** BOX # **5901**
 LAB # **NW49570**

Date Sampled

Date Received **08/05/2020**

Date Reported **08/06/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice											
		VLow	Low	Med	High																
Nitrate	0-6" 6-24"	*****				Canola-bu		Corn-Grain		Wheat-Spring											
		*****				YIELD GOAL		YIELD GOAL		YIELD GOAL											
	0-24"	*****				60 BU		175 BU		75 BU											
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES											
		*****				Band		Band		Band											
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION										
Olsen	10 ppm	*****				N	156	N	156	N	149										
Phosphorus		*****				P ₂ O ₅	45	P ₂ O ₅	53	P ₂ O ₅	39										
Potassium	301 ppm	*****					Band *		Band *		Band *										
Chloride	0-24"	*****				K ₂ O	0	K ₂ O	10	K ₂ O	10										
		*****					Band (2x2) *		Band (2x2) *		Band (Starter) *										
Sulfur	0-6" 6-24"	*****				Cl	Not Available	Cl	Not Available	Cl	0										
		*****					Not Available		Not Available		0										
Boron	2.8 ppm	*****				S	10	S	0	S	0										
Zinc	0.92 ppm	*****				B	0	B	0	B	0										
Iron	15.6 ppm	*****				Zn	1	Zn	2	Zn	0										
Manganese	0.9 ppm	*****				Fe	0	Fe	0	Fe	0										
Copper	1.91 ppm	*****				Mn	2	Mn	2	Mn	2										
Magnesium	2621 ppm	*****				Cu	0	Cu	0	Cu	0										
Calcium	5320 ppm	*****				Mg	0	Mg	0	Mg	0										
Sodium	459 ppm	*****				Lime		Lime		Lime											
Org.Matter	5.5 %	*****				Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)									
Carbonate(CCE)	5.1 %	*****				0-6" 8.3		6-24" 8.4		51.2 meq		% Ca		% Mg		% K		% Na		% H	
Sol. Salts	0-6" 6-24"	*****										(65-75)		(15-20)		(1-7)		(0-5)		(0-5)	
		*****										51.9		42.7		1.5		3.9		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 = 54 K2O = 27 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 = 65 K2O = 40 AGVISE Band guideline will build P & K test levels to the medium range over several years.

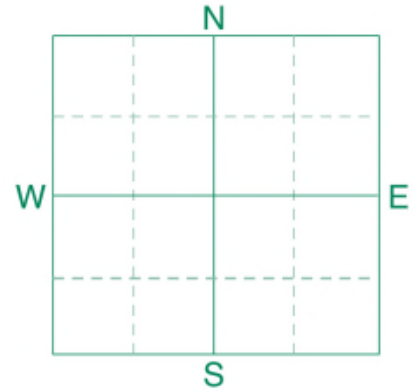
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Childerhose Yard**
 SAMPLE ID **Childerhose yard**
 FIELD NAME **Childerhose yard**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **22** QTR **SE** ACRES **220**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: TE0817
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2908413** BOX # **5282**
 LAB # **NW34919**

Date Sampled _____ Date Received **05/19/2020** Date Reported **05/20/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	***				Soybeans		Soybeans		Soybeans				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"					40 BU		45 BU		50 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
Phosphorus	Olsen	*****				Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	225 ppm	*****				N	***	N	***	N	***			
Chloride	0-24"	*****				P ₂ O ₅	40	Band *	P ₂ O ₅	45	Band *			
						K ₂ O	0		K ₂ O	0				
Sulfur	0-6" 6-24"	*****				Cl	0		Cl	0				
						S	0		S	0				
Boron	0.9 ppm	*****				B	0		B	0				
Zinc	0.76 ppm	*****				Zn	0		Zn	1	Band			
Iron	30.6 ppm	*****				Fe	0		Fe	0				
Manganese	1.5 ppm	*****				Mn	0		Mn	0				
Copper	2.75 ppm	*****				Cu	0		Cu	0				
Magnesium	1687 ppm	*****				Mg	0		Mg	0				
Calcium	11537 ppm	*****				Lime			Lime					
Sodium	240 ppm	*****												
Org.Matter	2.8 %	*****												
Carbonate(CCE)	5.4 %	*****												
Sol. Salts	0-6" 6-24"	*****				Soil pH	7.9		Cation Exchange Capacity	% Base Saturation (Typical Range)				
						Buffer pH	7.8			% Ca	% Mg	% K	% Na	% H
									73.4 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
										78.6	19.2	0.8	1.4	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. High salinity may decrease crop yield. Soybean iron deficiency (IDC) risk is extreme, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Band guideline will build P & K test levels to the medium 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 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. High salinity may decrease crop yield. Soybean iron deficiency (IDC) risk is extreme, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

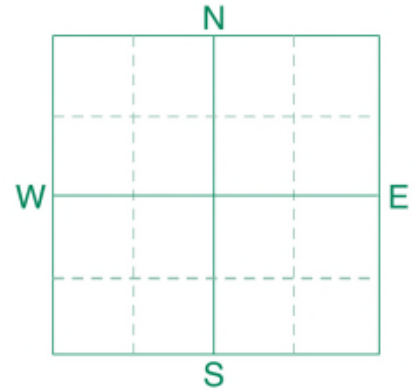
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. High salinity may decrease crop yield. Soybean iron deficiency (IDC) risk is extreme, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 38 K2O = 59 AGVISE Band guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



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

SOIL TEST REPORT

FIELD ID **Carlson Section**
 SAMPLE ID **Carlson Section**
 FIELD NAME **Carlson Section**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **30** QTR ACRES **620**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3305841** BOX # **5677**
 LAB # **NW49064**

Date Sampled

Date Received **08/12/2021**

Date Reported **08/13/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice													
		VLow Low Med High	Corn-Silage		YIELD GOAL		YIELD GOAL													
Nitrate	0-6" 6-24"	37 lb/acre 24 lb/acre	YIELD GOAL		YIELD GOAL		YIELD GOAL													
	0-24"	61 lb/acre	25 Tons		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES													
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES													
			Band		LB/ACRE APPLICATION		LB/ACRE APPLICATION													
Olsen Phosphorus	38 ppm		N	199		N		N												
Potassium	668 ppm		P ₂ O ₅	15	Band (2x2) *	P ₂ O ₅		P ₂ O ₅												
Chloride	0-24" 3028 lb/acre		K ₂ O	10	Band (2x2) *	K ₂ O		K ₂ O												
Sulfur	0-6" 6-24" 120 +lb/acre 360 +lb/acre		Cl		Not Available	Cl		Cl												
Boron	2.5 ppm		S	0		S		S												
Zinc	1.35 ppm		B	0		B		B												
Iron	20.1 ppm		Zn	1	Band	Zn		Zn												
Manganese	2.0 ppm		Fe	0		Fe		Fe												
Copper	2.6 ppm		Mn	0		Mn		Mn												
Magnesium	2545 ppm		Cu	0		Cu		Cu												
Calcium	5267 ppm		Mg	0		Mg		Mg												
Sodium	550 ppm		Lime			Lime		Lime												
Org.Matter	6.2 %		Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)											
Carbonate(CCE)	4.8 %		0-6" 7.9		6-24" 8.4		51.6 meq		% Ca		% Mg		% K		% Na		% H			
Sol. Salts	0-6" 6-24" 2.07 mmho/cm 2.82 mmho/cm		(65-75)		51.0		(15-20)		41.1		(1-7)		3.3		(0-5)		4.6		0.0	

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

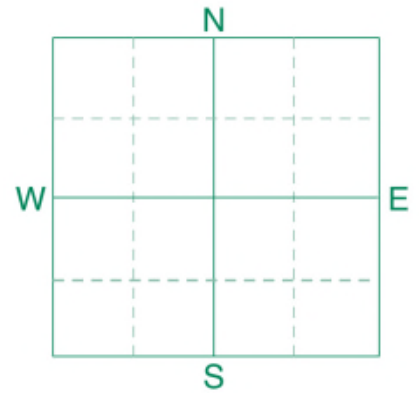
Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. High salinity may decrease crop yield. Crop nutrient removal: P2O5 = 90 K2O = 208 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Carlson 125**
 SAMPLE ID **Carlson 125**
 FIELD NAME **Carlson 125**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **31** QTRS **S 1/2** ACRES **125**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3305777** BOX # **5677**
 LAB # **NW49060**

Date Sampled

Date Received **08/12/2021**

Date Reported **08/13/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"					N		N		N			
	0-24"					P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Phosphorus	Olsen 37 ppm					K ₂ O		K ₂ O		K ₂ O			
Potassium	536 ppm					Cl		Cl		Cl			
Chloride	0-24" 6784 lb/acre					S		S		S			
	0-6" 6-24" 120 +lb/acre 360 +lb/acre					B		B		B			
Sulfur						Zn		Zn		Zn			
Boron	3.2 ppm					Fe		Fe		Fe			
Zinc	1.81 ppm					Mn		Mn		Mn			
Iron	20.2 ppm					Cu		Cu		Cu			
Manganese	1.6 ppm					Mg		Mg		Mg			
Copper	4.83 ppm					Lime		Lime		Lime			
Magnesium	2644 ppm					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Calcium	4579 ppm					0-6" 7.9	Buffer pH	49.2 meq	% Ca	% Mg	% K	% Na	% H
Sodium	677 ppm					6-24" 8.1			(65-75) 46.5	(15-20) 44.7	(1-7) 2.8	(0-5) 6.0	(0-5) 0.0
Org.Matter	7.8 %					Sol. Salts							
Carbonate(CCE)	1.1 %												
Sol. Salts	0-6" 2.66 mmho/cm												
	6-24" 5.28 mmho/cm												

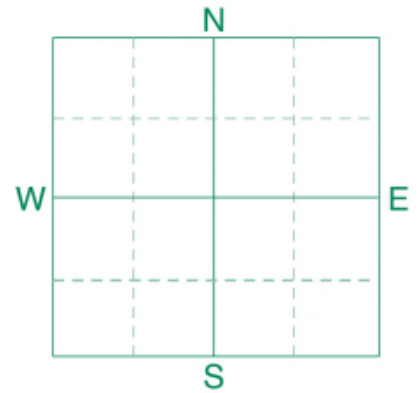
General Comments: Soil texture is not estimated on high pH soils.
 Moderate sodium may cause soil dispersion, poor water movement, and reduced crop yield.



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

SOIL TEST REPORT

FIELD ID **Hagborg West**
 SAMPLE ID **Hagborg West**
 FIELD NAME **Hagborg West**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **31** QTR **East Half** ACRES **300**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3419599** BOX # **62**
 LAB # **NW140029**

Date Sampled

Date Received **10/04/2021**

Date Reported **10/07/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow Low Med High	Wheat-Spring		YIELD GOAL		YIELD GOAL				
Nitrate	0-6" 6-24"	*****	75 BU		YIELD GOAL		YIELD GOAL				
	0-24"	*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
		*****	Band		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
		*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen Phosphorus	28 ppm	*****	N	10	N		N				
Potassium	500 ppm	*****	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	P ₂ O ₅				
Chloride	0-24" 3212 lb/acre	*****	K ₂ O	10	Band (Starter)*	K ₂ O	K ₂ O				
Sulfur	0-6" 6-24" 120 +lb/acre 360 +lb/acre	*****	Cl	0		Cl	Cl				
Boron	1.8 ppm	*****	S	0		S	S				
Zinc	1.63 ppm	*****	B	0		B	B				
Iron	16.2 ppm	*****	Zn	0		Zn	Zn				
Manganese	1.5 ppm	*****	Fe	0		Fe	Fe				
Copper	4.05 ppm	*****	Mn	0		Mn	Mn				
Magnesium	2309 ppm	*****	Cu	0		Cu	Cu				
Calcium	5303 ppm	*****	Mg	0		Mg	Mg				
Sodium	374 ppm	*****	Lime			Lime	Lime				
Org.Matter	6.6 %	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)	1.6 %	*****	Buffer pH		Capacity		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24" 1.88 mmho/cm 1.76 mmho/cm	*****	0-6"	7.9	48.7 meq		(65-75) 54.5	(15-20) 39.5	(1-7) 2.6	(0-5) 3.3	(0-5) 0.0

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

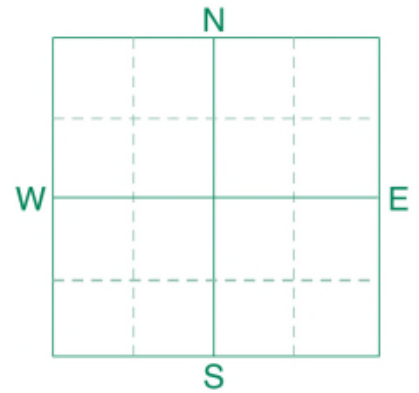
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. High salinity may decrease crop yield. Crop nutrient removal: P205 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Hagborg East**
 SAMPLE ID **Hagborg East**
 FIELD NAME **Hagborg East**
 COUNTY
 TWP **12** RANGE **1W**
 SECTION **32** QTR **West Half** ACRES **260**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2942552** BOX # **1681**
 LAB # **NW67762**

Date Sampled

Date Received **09/03/2020**

Date Reported **09/04/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice												
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Corn-Silage												
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL												
		*****				60 BU			75 BU			25 Tons												
	0-24"	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES												
		*****				Band			Band			Band												
		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION											
Olsen	27 ppm	*****				N	162		N	155		N	212											
Phosphorus		*****				P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	22	Band *										
Potassium	523 ppm	*****				K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	10	Band (2x2) *										
Chloride	0-24" 6-24"	*****				Cl		Not Available	Cl	0		Cl		Not Available										
Sulfur	110 lb/acre 360 +lb/acre	*****				S	10	Band	S	0		S	0											
Boron	1.8 ppm	*****				B	0		B	0		B	0											
Zinc	1.88 ppm	*****				Zn	0		Zn	0		Zn	1	Band										
Iron	18.8 ppm	*****				Fe	0		Fe	0		Fe	0											
Manganese	1.1 ppm	*****				Mn	0		Mn	0		Mn	0											
Copper	6.05 ppm	*****				Cu	0		Cu	0		Cu	0											
Magnesium	2708 ppm	*****				Mg	0		Mg	0		Mg	0											
Calcium	4705 ppm	*****				Lime			Lime			Lime												
Sodium	314 ppm	*****				Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)									
Org.Matter	7.2 %	*****				0-6" 8.2			6-24" 8.5			48.8 meq			% Ca		% Mg		% K		% Na		% H	
Carbonate(CCE)	3.3 %	*****										(65-75) 48.2		(15-20) 46.2		(1-7) 2.7		(0-5) 2.8		(0-5) 0.0				
Sol. Salts	0-6" 6-24"	*****																						
	0.89 mmho/cm 1.55 mmho/cm	*****																						

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: P205 = 54 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 2: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.

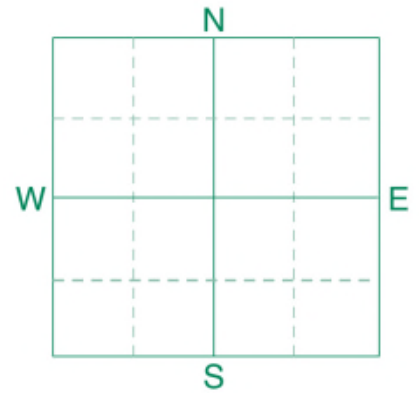
Crop 3: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 90 K2O = 208 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Graingers**
 SAMPLE ID **Griangers**
 FIELD NAME
 COUNTY
 TWP **12** RANGE **1w**
 SECTION **34** QTR **E 1/2** ACRES **320**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **3419618** BOX # **42**
 LAB # **NW140033**

Date Sampled

Date Received **10/04/2021**

Date Reported **10/07/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"					N		N		N			
	0-24"					P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Phosphorus	Olsen 24 ppm					K ₂ O		K ₂ O		K ₂ O			
Potassium	488 ppm					Cl		Cl		Cl			
Chloride	0-24" 44 lb/acre					S		S		S			
	0-6" 6-24" 18 lb/acre 30 lb/acre					B		B		B			
Sulfur						Zn		Zn		Zn			
Boron	1.3 ppm					Fe		Fe		Fe			
Zinc	0.77 ppm					Mn		Mn		Mn			
Iron	30.5 ppm					Cu		Cu		Cu			
Manganese	3.1 ppm					Mg		Mg		Mg			
Copper	2.8 ppm					Lime		Lime		Lime			
Magnesium	1624 ppm					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Calcium	6171 ppm					0-6" 7.4	Buffer pH	45.8 meq	% Ca	% Mg	% K	% Na	% H
Sodium	36 ppm					6-24" 8.0			(65-75) 67.4	(15-20) 29.6	(1-7) 2.7	(0-5) 0.3	(0-5) 0.0
Org.Matter	7.0 %					Sol. Salts							
Carbonate(CCE)	2.8 %												
Sol. Salts	0-6" 0.7 mmho/cm												
	6-24" 0.63 mmho/cm												

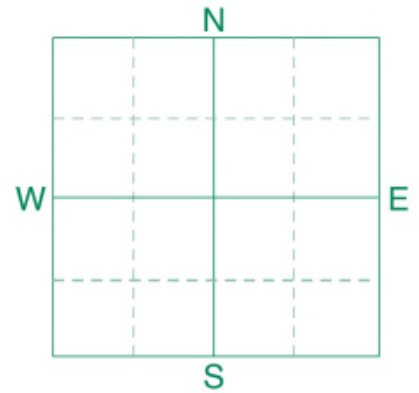
General Comments: Fine-textured (CEC: 31+ meq)
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.



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

SOIL TEST REPORT

FIELD ID **1**
 SAMPLE ID **1**
 FIELD NAME **River Lot 30-33**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **149**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **3333551** BOX # **1008**
 LAB # **NW63733**

Date Sampled

Date Received **08/31/2021**

Date Reported **09/01/2021**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Corn-Silage			YIELD GOAL		
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
						60 BU			22 Tons					
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band					
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Olsen	7 ppm	*****				N	185		N	204		N		
Phosphorus						P ₂ O ₅	54	Band *	P ₂ O ₅	72	Band *	P ₂ O ₅		
Potassium	244 ppm	*****				K ₂ O	0		K ₂ O	10	Band (2x2) *	K ₂ O		
Chloride	0-24" 6-24"	*****				Cl		Not Available	Cl		Not Available	Cl		
Sulfur	56 lb/acre 132 lb/acre	*****				S	10	Band	S	0		S		
Boron	0.8 ppm	*****				B	1	Broadcast	B	0		B		
Zinc	0.76 ppm	*****				Zn	1	Band	Zn	2	Band	Zn		
Iron	23.7 ppm	*****				Fe	0		Fe	0		Fe		
Manganese	2.2 ppm	*****				Mn	0		Mn	0		Mn		
Copper	0.95 ppm	*****				Cu	0		Cu	0		Cu		
Magnesium	778 ppm	*****				Mg	0		Mg	0		Mg		
Calcium	3266 ppm	*****				Lime			Lime			Lime		
Sodium	26 ppm	****												
Org.Matter	3.7 %	*****												
Carbonate(CCE)	1.1 %	*****												
Sol. Salts	0-6" 6-24"	*****				Soil pH	Buffer pH		Cation Exchange Capacity	% Base Saturation (Typical Range)				
						0-6" 7.7			23.6 meq	% Ca	% Mg	% K	% Na	% H
	0.54 mmho/cm 0.45 mmho/cm					6-24" 8.2				(65-75) 69.3	(15-20) 27.5	(1-7) 2.7	(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. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 54 K2O = 27 AGVISE Band guideline will build P & K test levels to the medium range over several years.

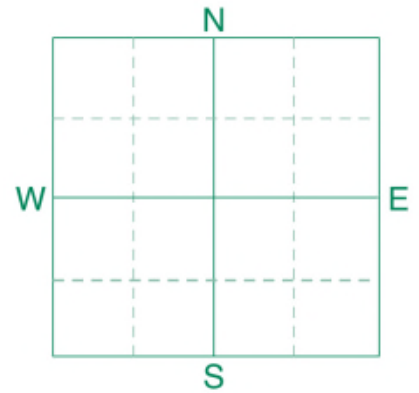
Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 79 K2O = 183 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **2**
 SAMPLE ID **2**
 FIELD NAME **River Lot 22-23**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **261**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **3333552** BOX # **20139**
 LAB # **NW63734**

Date Sampled

Date Received **08/31/2021**

Date Reported **09/03/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"	14 lb/acre 12 lb/acre								
	0-24"	26 lb/acre								
Phosphorus	Olsen	10 ppm								
Potassium		291 ppm								
Chloride	0-24"	72 lb/acre								
	0-6" 6-24"	20 lb/acre 174 lb/acre								
Sulfur										
Boron		0.7 ppm								
Zinc		0.84 ppm								
Iron		23.9 ppm								
Manganese		2.5 ppm								
Copper		0.94 ppm								
Magnesium		822 ppm								
Calcium		3299 ppm								
Sodium		23 ppm								
Org.Matter		3.9 %								
Carbonate(CCE)		0.5 %								
Sol. Salts	0-6"	0.33 mmho/cm								
	6-24"	0.35 mmho/cm								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
			0-6" 7.6		24.2 meq	% Ca	% Mg	% K	% Na	% H
			6-24" 8.2			(65-75) 68.2	(15-20) 28.3	(1-7) 3.1	(0-5) 0.4	(0-5) 0.0

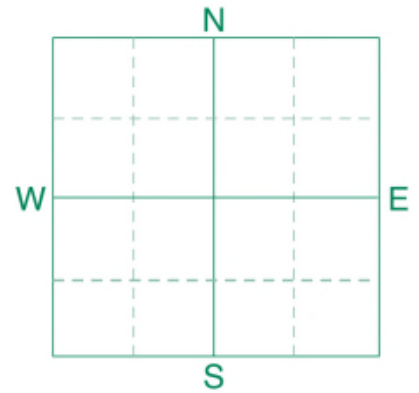
General Comments: Medium-textured (CEC: 11-30 meq)
 Haney Soil Test Report will be mailed.



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

SOIL TEST REPORT

FIELD ID **3**
 SAMPLE ID **3**
 FIELD NAME **NE 12-12-5w**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **135**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **3333553** BOX # **20139**
 LAB # **NW63735**

Date Sampled

Date Received **08/31/2021**

Date Reported **09/03/2021**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow Low Med High	YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 6-24"	32 lb/acre 21 lb/acre								
	0-24"	53 lb/acre								
Phosphorus	Olsen	8 ppm								
Potassium		250 ppm								
Chloride	0-24"	88 lb/acre								
	0-6" 6-24"	24 lb/acre 114 lb/acre								
Sulfur										
Boron		0.6 ppm								
Zinc		0.77 ppm								
Iron		24.5 ppm								
Manganese		2.2 ppm								
Copper		0.84 ppm								
Magnesium		765 ppm								
Calcium		3184 ppm								
Sodium		23 ppm								
Org.Matter		3.7 %								
Carbonate(CCE)		1.0 %								
Sol. Salts	0-6"	0.41 mmho/cm								
	6-24"	0.39 mmho/cm								
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 7.5		23.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 8.1			69.1	27.7	2.8	0.4	0.0

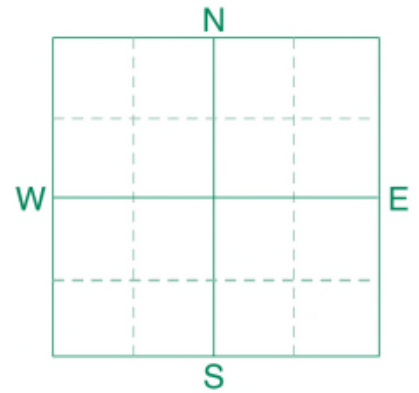
General Comments: Medium-textured (CEC: 11-30 meq)
 Haney Soil Test Report will be mailed.



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

SOIL TEST REPORT

FIELD ID **4**
 SAMPLE ID **4**
 FIELD NAME **4**
 COUNTY
 TWP **11** RANGE **4w**
 SECTION **31** QTR **NE E1/2 ACRES 80**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB ROC 220

REF # **2908165** BOX # **5252**
 LAB # **NW34913**

Date Sampled

Date Received **05/19/2020**

Date Reported **05/20/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Soybeans			Canola-bu			Wheat-Spring				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
						45 BU			50 BU			75 BU				
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
						Band			Band			Band				
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
Olsen	17 ppm	*****				N	***		N	157		N	185			
Phosphorus						P ₂ O ₅	20 Band *		P ₂ O ₅	20 Band *		P ₂ O ₅	22 Band *			
Potassium	367 ppm	*****				K ₂ O	0		K ₂ O	0		K ₂ O	10 Band (Starter)*			
Chloride	0-24" 132 lb/acre	*****				Cl	0		Cl	Not Available		Cl	0			
Sulfur	0-6" 6-24" 92 lb/acre 360 +lb/acre	*****				S	0		S	10 Band		S	0			
Boron	1.3 ppm	*****				B	0		B	0		B	0			
Zinc	2.38 ppm	*****				Zn	0		Zn	0		Zn	0			
Iron	50.6 ppm	*****				Fe	0		Fe	0		Fe	0			
Manganese	3.4 ppm	*****				Mn	0		Mn	0		Mn	0			
Copper	1.67 ppm	*****				Cu	0		Cu	0		Cu	0			
Magnesium	1479 ppm	*****				Mg	0		Mg	0		Mg	0			
Calcium	4951 ppm	*****				Lime			Lime			Lime				
Sodium	67 ppm	*****														
Org.Matter	5.1 %	*****														
Carbonate(CCE)	1.7 %	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
						0-6" 7.6			38.3 meq			% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24" 0.74 mmho/cm 1.0 mmho/cm	*****				6-24" 8.2						(65-75) 64.6	(15-20) 32.2	(1-7) 2.5	(0-5) 0.8	(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. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band guideline will build P & K test levels to the medium 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 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 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

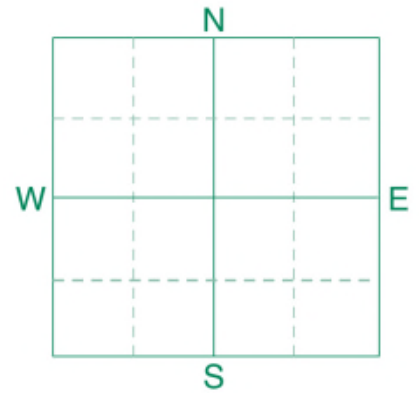
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 47 K2O = 28 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Oakville 5**
 SAMPLE ID **Oakville 5**
 FIELD NAME **Oakville 5**
 COUNTY
 TWP **12** RANGE **4w**
 SECTION **8** QTR **sw** ACRES **160**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2908164** BOX # **5250**
 LAB # **NW34912**

Date Sampled

Date Received **05/19/2020**

Date Reported **05/20/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	****				Soybeans		Soybeans		Soybeans				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"					40 BU		45 BU		50 BU				
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
Phosphorus	Olsen	*****				Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium		*****				N	***	N	***	N	***			
Chloride	0-24"	*****				P ₂ O ₅	26 Band *	P ₂ O ₅	29 Band *	P ₂ O ₅	32 Band *			
						K ₂ O	0	K ₂ O	0	K ₂ O	0			
Sulfur	0-6" 6-24"	*****				Cl	0	Cl	0	Cl	0			
						S	0	S	0	S	0			
Boron		*****				B	0	B	0	B	0			
Zinc		*****				Zn	0	Zn	0	Zn	0			
Iron		*****				Fe	0	Fe	0	Fe	0			
Manganese		*****				Mn	0	Mn	0	Mn	0			
Copper		*****				Cu	0	Cu	0	Cu	0			
Magnesium		*****				Mg	0	Mg	0	Mg	0			
Calcium		*****				Lime		Lime		Lime				
Sodium		*****												
Org.Matter		*****												
Carbonate(CCE)		*****												
Sol. Salts	0-6" 6-24"	*****				Soil pH	7.9	Cation Exchange Capacity	43.1 meq	% Base Saturation (Typical Range)				
						6-24"	8.0			% Ca	% Mg	% K	% Na	% H
										(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
										71.9	25.4	1.7	1.0	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. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Band guideline will build P & K test levels to the medium 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 2: *CAUTION: Seed-placed fertilizer can cause injury.* 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 guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

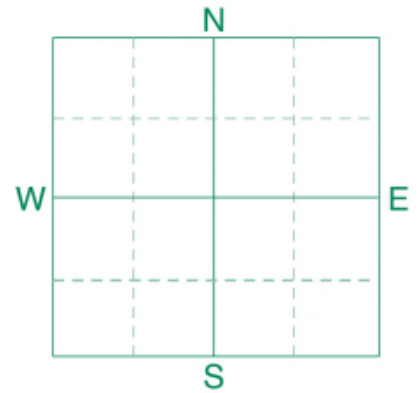
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 38 K2O = 59 AGVISE Band guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



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

SOIL TEST REPORT

FIELD ID **Oakville 6**
 SAMPLE ID **Oakville 6F**
 IELD NAME **Oakville 6C**
 OUNTY
 TWP **12** RANGE **4w**
 SECTION **5** QTR ACRES **578**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2908164** BOX # **5250**
 LAB # **NW34912**

Date Sampled

Date Received **05/19/2020**

Date Reported **05/20/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 6-24"	****				Soybeans		Soybeans		Soybeans			
						YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"					40 BU		45 BU		50 BU			
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
Phosphorus	Olsen	*****				Band		Band		Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		*****				N	***	N	***	N	***		
Chloride	0-24"	*****				P ₂ O ₅	26 Band *	P ₂ O ₅	29 Band *	P ₂ O ₅	32 Band *		
						K ₂ O	0	K ₂ O	0	K ₂ O	0		
Sulfur	0-6" 6-24"	*****				Cl	0	Cl	0	Cl	0		
						S	0	S	0	S	0		
Boron		*****				B	0	B	0	B	0		
Zinc		*****				Zn	0	Zn	0	Zn	0		
Iron		*****				Fe	0	Fe	0	Fe	0		
Manganese		*****				Mn	0	Mn	0	Mn	0		
Copper		*****				Cu	0	Cu	0	Cu	0		
Magnesium		*****				Mg	0	Mg	0	Mg	0		
Calcium		*****				Lime		Lime		Lime			
Sodium		*****											
Org.Matter		*****											
Carbonate(CCE)		*****											
Sol. Salts	0-6" 6-24"	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						0-6" 7.9		43.1 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 8.0			(65-75) 71.9	(15-20) 25.4	(1-7) 1.7	(0-5) 1.0	(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. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Band guideline will build P & K test levels to the medium 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 2: *CAUTION: Seed-placed fertilizer can cause injury.* 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 guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.

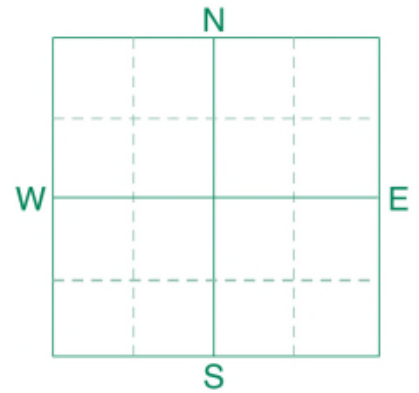
Crop 3: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 38 K2O = 59 AGVISE Band guideline will build P & K test levels to the medium range over several years. Soybean may respond to nitrogen if soybean history is limited and less than 60 lb/acre nitrate-N is present.



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

SOIL TEST REPORT

FIELD ID **Oakville 7**
 SAMPLE ID **Oakville 7**
 FIELD NAME **Oakville 7**
 COUNTY
 TWP **11** RANGE **4w**
 SECTION **33** QTR ACRES **536**
 PREV. CROP



SUBMITTED FOR:
Boonstra Farms Ltd

Marquette,

SUBMITTED BY: **TE0817**
TERRACO-STONEWALL
HIGHWAY 67 WEST
BOX 779
STONEWALL, MB **ROC 220**

REF # **2908165** BOX # **5252**
 LAB # **NW34913**

Date Sampled

Date Received **05/19/2020**

Date Reported **05/20/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Soybeans			Canola-bu			Wheat-Spring				
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
						45 BU			50 BU			75 BU				
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
						Band			Band			Band				
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
Olsen	17 ppm	*****				N	***		N	157		N	185			
Phosphorus						P ₂ O ₅	20 Band *		P ₂ O ₅	20 Band *		P ₂ O ₅	22 Band *			
Potassium	367 ppm	*****				K ₂ O	0		K ₂ O	0		K ₂ O	10 Band (Starter)*			
Chloride	0-24" 132 lb/acre	*****				Cl	0		Cl	Not Available		Cl	0			
Sulfur	0-6" 6-24" 92 lb/acre 360 +lb/acre	*****				S	0		S	10 Band		S	0			
Boron	1.3 ppm	*****				B	0		B	0		B	0			
Zinc	2.38 ppm	*****				Zn	0		Zn	0		Zn	0			
Iron	50.6 ppm	*****				Fe	0		Fe	0		Fe	0			
Manganese	3.4 ppm	*****				Mn	0		Mn	0		Mn	0			
Copper	1.67 ppm	*****				Cu	0		Cu	0		Cu	0			
Magnesium	1479 ppm	*****				Mg	0		Mg	0		Mg	0			
Calcium	4951 ppm	*****				Lime			Lime			Lime				
Sodium	67 ppm	*****														
Org.Matter	5.1 %	*****														
Carbonate(CCE)	1.7 %	*****				Soil pH	Buffer pH		Cation Exchange Capacity			% Base Saturation (Typical Range)				
						0-6" 7.6			38.3 meq			% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24" 0.74 mmho/cm 1.0 mmho/cm	*****				6-24" 8.2						(65-75) 64.6	(15-20) 32.2	(1-7) 2.5	(0-5) 0.8	(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. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 34 K2O = 53 AGVISE Band guideline will build P & K test levels to the medium 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 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 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

Crop 3: *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 guideline will build P & K test levels to the medium range over several years.