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 Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109	SOIL TEST REPORT	FIELD ID 01 Field # 1 SAMPLE ID FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 20 QTR NE ACRES 72 PREV. CROP Wheat-Spring	W E S		
	SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1			SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988883 BOX # 0 LAB # NW98163
Date Sampled		Date Received 10/04/2017		Date Reported 10/11/2017	


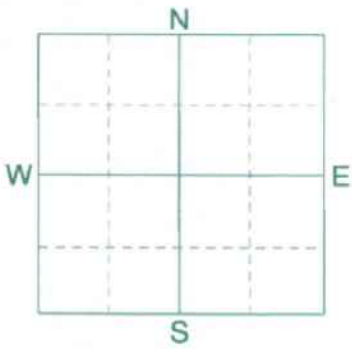
Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		V/Low	Low	Med	High	Canola-bu		Wheat-Spring		Soybeans				
Nitrate	0-6"	51 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"		69 lb/ac					40 BU		60 BU		40 BU		
	0-24"	120 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
							Band		Band/Maint.		Broadcast/Maint.			
							LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen	42 ppm					N	20	N	42	N	***			
Phosphorus						P ₂ O ₅	10	P ₂ O ₅	15	P ₂ O ₅	0			
Potassium	482 ppm						Band (Starter)*		Band (Starter)*		Band (Starter)*			
Chloride	0-24"	884 lb/ac					K ₂ O	0	K ₂ O	10	K ₂ O	0		
								Band (Starter)*			Band (Starter)*			
Sulfur	0-6"	48 lb/ac					Cl	Not Available	Cl	0	Cl	0		
	6-24"	360 +lb/ac												
Boron	1.6 ppm					S	10	S	0	S	0			
Zinc	2.70 ppm					B	0	B	0	B	0			
Iron	35.0 ppm					Zn	0	Zn	0	Zn	0			
Manganese	1.7 ppm					Fe	0	Fe	0	Fe	0			
Copper	2.01 ppm					Mn	0	Mn	0	Mn	0			
Magnesium	1945 ppm					Cu	0	Cu	0	Cu	0			
Calcium	6313 ppm					Mg	0	Mg	0	Mg	0			
Sodium	160 ppm					Lime		Lime		Lime				
Org. Matter	7.1 %													
Carbonate(CCE)	2.3 %													
Sol. Salts	0-6"	0.87 mmho/cm					Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)			
	6-24"	1.24 mmho/cm								% Ca	% Mg	% K	% Na	% H
							0-6"	7.6	49.7 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
							6-24"	8.1		63.5	32.6	2.5	1.4	

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high 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 02 Field # 2 SAMPLE ID FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 20 QTR NW ACRES 76 PREV. CROP Wheat-Spring	
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988894 BOX # 0 LAB # NW98156
Date Sampled	Date Received 10/04/2017	Date Reported 10/11/2017

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6"	17 lb/ac				Canola-bu		Wheat-Spring		Soybeans			
	6-24"	33 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL			
						40 BU		60 BU		40 BU			
	0-24"	50 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band		Band		Broadcast/Maint.			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen Phosphorus	25 ppm				N	90		N	112		N	***	
Potassium	414 ppm				P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	35	Broadcast
Chloride	0-24"	2032 lb/ac			K ₂ O	0		K ₂ O	10	Band (Starter)*	K ₂ O	0	
Sulfur	0-6"	104 lb/ac			Cl		Not Available	Cl	0		Cl	0	
	6-24"	360 +lb/ac			S	10	Band	S	0		S	0	
Boron	2.3 ppm				B	0		B	0		B	0	
Zinc	1.64 ppm				Zn	0		Zn	0		Zn	0	
Iron	31.7 ppm				Fe	0		Fe	0		Fe	0	
Manganese	1.4 ppm				Mn	0		Mn	0		Mn	0	
Copper	2.11 ppm				Cu	0		Cu	0		Cu	0	
Magnesium	2406 ppm				Mg	0		Mg	0		Mg	0	
Calcium	6906 ppm				Lime			Lime			Lime		
Sodium	298 ppm												
Org. Matter	7.3 %												
Carbonate(CCE)	3.2 %												
Soil Salts	0-6"	1.36 mmho/cm			Soil pH		Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	2.73 mmho/cm			0-6"	7.7		56.9 meq	% Ca	% Mg	% K	% Na	% H
					6-24"	8.0			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
									60.6	35.2	1.9	2.3	

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

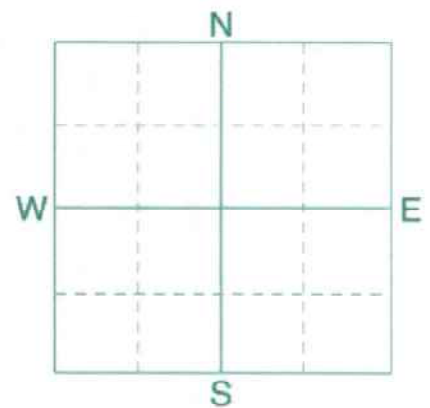
Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



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

SOIL TEST REPORT

FIELD ID **03** Field # 3
 SAMPLE ID
 FIELD NAME
 COUNTY **6E**
 TWP **7** RANGE
 SECTION **30** QTR **SE** ACRES **80**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Orville Doerksen Farms
Box 47A RR1
Ste. Anne, MB R5H 1R1

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB ROA OXO

REF # **2100157** BOX # **0**
 LAB # **NW182856**

Date Sampled


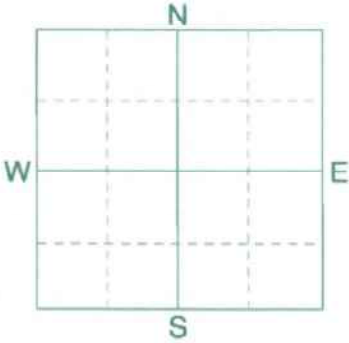
Date Received **11/02/2017**

Date Reported **11/7/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice						
		VLow	Low	Med	High											
Nitrate	0-6"	31 lb/ac					Soybeans									
	6-24"	42 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL					
Olsen Phosphorus	0-24"	73 lb/ac				40 BU										
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
Potassium		42 ppm				Band										
		647 ppm				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Chloride	0-24"	1080 lb/ac				N	***	N		N						
	0-6"	120 +lb/ac				P ₂ O ₅	10	P ₂ O ₅		P ₂ O ₅						
Sulfur	6-24"	360 +lb/ac				Band (Starter)*										
		2.9 ppm				K ₂ O	0	K ₂ O		K ₂ O						
Boron		3.24 ppm				Cl	0	Cl		Cl						
Zinc		32.2 ppm				S	0	S		S						
Iron		1.6 ppm				B	0	B		B						
Manganese		2.16 ppm				Zn	0	Zn		Zn						
Copper		2632 ppm				Fe	0	Fe		Fe						
Magnesium		6850 ppm				Mn	0	Mn		Mn						
Calcium		208 ppm				Cu	0	Cu		Cu						
Sodium		9.0 %				Mg	0	Mg		Mg						
Org. Matter		1.8 %				Lime		Lime		Lime						
Carbonate(CCE)						Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Sol. Salts	0-6"	1.49 mmho/cm				0-6"	7.4			58.7 meq		% Ca	% Mg	% K	% Na	% H
	6-24"	3.51 mmho/cm				6-24"	7.8			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)		

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

 Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109	SOIL TEST REPORT	
	FIELD ID 04 Field # 4 SAMPLE ID FIELD NAME 04 COUNTY 6E TWP 7 RANGE SECTION 9 QTR NW/NE ACRES 226 PREV. CROP Canola-bu	
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988889 BOX # 0 LAB # NW100622
Date Sampled	Date Received 10/05/2017	Date Reported 10/11/2017

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice							
		VLow	Low	Med	High	Wheat-Spring			Canola-bu			Soybeans							
Nitrate	0-6"	22 lb/ac					YIELD GOAL			YIELD GOAL			YIELD GOAL						
	6-24"	42 lb/ac					60 BU			40 BU			40 BU						
	0-24"	64 lb/ac					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES						
							Band			Band			Broadcast/Maint.						
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION						
Olsen Phosphorus	24 ppm					N	98		N	76		N	***						
Potassium	272 ppm					P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	35	Broadcast					
Chloride	1084 lb/ac					K ₂ O	10	Band (Starter)*	K ₂ O	0		K ₂ O	0						
	118 lb/ac					Cl	0		Cl		Not Available	Cl	0						
	360 +lb/ac					S	0		S	10	Band	S	0						
Sulfur	1.4 ppm					B	0		B	0		B	0						
Boron	1.76 ppm					Zn	0		Zn	0		Zn	0						
Zinc	16.7 ppm					Fe	0		Fe	0		Fe	0						
Iron	1.3 ppm					Mn	0		Mn	0		Mn	0						
Manganese	1.51 ppm					Cu	0		Cu	0		Cu	0						
Copper	1980 ppm					Mg	0		Mg	0		Mg	0						
Magnesium	5123 ppm					Lime			Lime			Lime							
Calcium	228 ppm					Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)				
Sodium	5.2 %					0-6" 8.1			0-6" 8.1			43.8 meq			% Ca	% Mg	% K	% Na	% H
Org. Matter	4.1 %					6-24" 8.3			6-24" 8.3						(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Carbonate(CCE)	0.96 mmho/cm														58.5	37.7	1.6	2.3	
Sol. Salts	2.01 mmho/cm																		

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

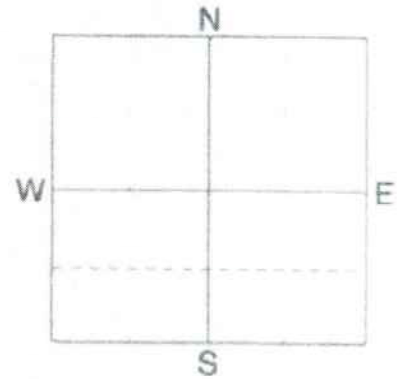
Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.



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 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **05** Field # 5
 SAMPLE ID
 FIELD NAME
 COUNTY **4E**
 TWP **7** RANGE
 SECTION **26** QTR **SW** ACRES **150**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Orville Doerksen Farms
Box 47A RR1
Ste. Anne, MB R5H 1R1

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB ROA OXO

REF # **2007624** BOX # **0**
 LAB # **NW218930**

Date Sampled


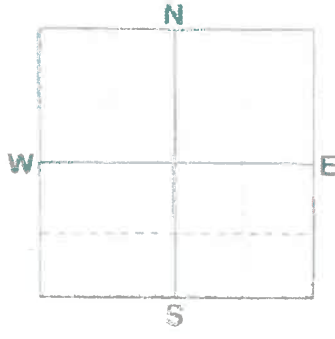
Date Received **12/14/2017**

Date Reported **12/14/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Very Low	Low	Med	High	Candida-bu							
Nitrate	0-6"	40 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"					21 lb/ac	40 BU						
	0-24"					61 lb/ac	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	20 ppm				N	64			N			
Potassium		386 ppm				P ₂ O ₅	10	Band (Starter)*		P ₂ O ₅			
Chloride	0-24"	124 lb/ac				K ₂ O	0			K ₂ O			
	0-6"	32 lb/ac				Cl		Not Available		Cl			
	6-24"	78 lb/ac				S	10	Band		S			
Sulfur		2.1 ppm				B	0			B			
Boron		4.48 ppm				Zn	0			Zn			
Zinc		14.1 ppm				Fe	0			Fe			
Iron		2.2 ppm				Mn	0			Mn			
Manganese		1.48 ppm				Cu	0			Cu			
Copper		1243 ppm				Mg	0			Mg			
Magnesium		5908 ppm				Lime				Lime			
Calcium		58 ppm											
Sodium		5.6 %				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Org Matter		7.6 %							% Ca	% Mg	% K	% Na	% H
Carbonate (CCG)		0.56 mmho/cm				0-6"	8.1	41.1 meq	65-75	15-20	1-7	0-5	0-5
Soil Salts		0.56 mmho/cm				6-24"	8.5		71.8	25.2	2.4	0.6	

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

 Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109	SOIL TEST REPORT	
	FIELD ID 06 SAMPLE ID Field # 6 FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 20 QTRSW ACRES 130 PREV. CROP Wheat-Spring	
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988892 BOX # 0 LAB # NW100620
Date Sampled	Date Received 10/05/2017	Date Reported 10/11/2017


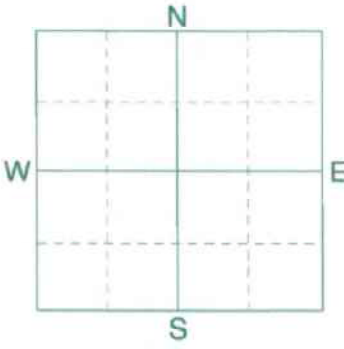
Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLOW	Low	Med	High	Canola-bu		Wheat-Spring		Soybeans			
Nitrate	0-6"	17 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"	27 lb/ac				40 BU		60 BU		40 BU			
	0-24"	44 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band		Band		Broadcast/Maint.			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
						N	96	N	118	N	***		
Phosphorus	Olsen	39 ppm				P ₂ O ₅	10	P ₂ O ₅	15	P ₂ O ₅	35		
Potassium		456 ppm					Band (Starter)*		Band (Starter)*		Broadcast		
	0-24"	724 lb/ac				K ₂ O	0	K ₂ O	10	K ₂ O	0		
Chloride						Cl	Not Available	Cl	0	Cl	0		
	0-6"	26 lb/ac				S	15	S	0	S	10		
	6-24"	360 +lb/ac					Band				Broadcast (Trial)		
Sulfur						B	0	B	0	B	0		
Boron		1.2 ppm				Zn	0	Zn	0	Zn	0		
Zinc		2.64 ppm				Fe	0	Fe	0	Fe	0		
Iron		47.2 ppm				Mn	0	Mn	0	Mn	0		
Manganese		1.7 ppm				Cu	0	Cu	0	Cu	0		
Copper		2.4 ppm				Mg	0	Mg	0	Mg	0		
Magnesium		2226 ppm				Lime		Lime		Lime			
Calcium		5832 ppm				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sodium		170 ppm							% Ca	% Mg	% K	% Na	% H
Org. Matter		6.2 %				0-6"	7.5	49.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Carbonate(OCE)		2.0 %				6-24"	7.8		58.8	37.4	2.4	1.5	
Sol. Salts	0-6"	0.97 mmho/cm											
	6-24"	2.75 mmho/cm											

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P205 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

 <p>Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109</p>	SOIL TEST REPORT	
	FIELD ID 07 Field # 7 SAMPLE ID FIELD NAME COUNTY 5E TWP 7 RANGE SECTION 30 QTR NE ACRES 120 PREV. CROP Wheat-Spring	
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988898 BOX # 0 LAB # NW98158
Date Sampled	Date Received 10/04/2017	Date Reported 10/11/2017


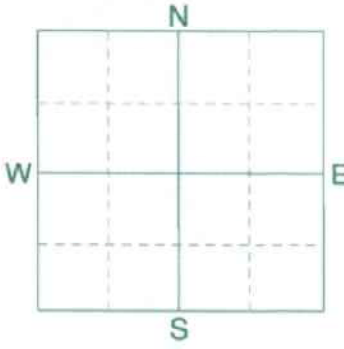
Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow	Low	Med	High							
Nitrate	0-6"	6 lb/ac				Canola-bu		Wheat-Spring		Soybeans		
	6-24"		6 lb/ac			YIELD GOAL		YIELD GOAL		YIELD GOAL		
					40 BU		60 BU		40 BU			
	0-24"	12 lb/ac			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
					Band		Band		Broadcast/Maint.			
					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	8 ppm	*****		N	128	N	150	N	***		
Potassium		453 ppm	*****		P ₂ O ₅	34	P ₂ O ₅	35	P ₂ O ₅	54		
Chloride	0-24"	440 lb/ac	*****		K ₂ O	0	K ₂ O	10	K ₂ O	0		
					Cl	Not Available	Cl	0	Cl	0		
Sulfur	0-6"	50 lb/ac	*****		S	10	S	0	S	0		
Boron		2.5 ppm	*****		B	0	B	0	B	0		
Zinc		0.73 ppm	*****		Zn	3	Zn	3	Zn	4		
Iron		15.8 ppm	*****		Fe	0	Fe	0	Fe	0		
Manganese		1.6 ppm	*****		Mn	0	Mn	0	Mn	0		
Copper		1.53 ppm	*****		Cu	0	Cu	0	Cu	0		
Magnesium		2096 ppm	*****		Mg	0	Mg	0	Mg	0		
Calcium		6553 ppm	*****		Lime		Lime		Lime			
Sodium		133 ppm	*****									
Org. Matter		5.8 %	*****									
Carbonate(CCE)		5.2 %	*****									
Sol. Salts	0-6"	0.57 mmho/cm	*****		Soil pH	Buffer pH	Cation Exchange	% Base Saturation (Typical Range)				
	6-24"	1.05 mmho/cm	*****				Capacity	% Ca	% Mg	% K	% Na	% H
					0-6"	8.3	52.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
					6-24"	8.5		63.0	33.6	2.2	1.1	

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

 <p>Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109</p>	SOIL TEST REPORT	
	FIELD ID 08 Field # 8 SAMPLE ID FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 28 QTR SW ACRES 122 PREV. CROP Wheat-Spring	
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO	REF # 1988900 BOX # 0 LAB # NW98155
Date Sampled	Date Received 10/04/2017	Date Reported 10/11/2017

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		VLow	Low	Med	High						
Nitrate	0-6"	16 lb/ac				Canola-bu		Wheat-Spring		Soybeans	
	6-24"	45 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL	
	0-24"	61 lb/ac				40 BU		60 BU		40 BU	
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
						Band		Band		Broadcast/Maint.	
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
						N	79	N	101	N	***
Phosphorus	Olsen	26 ppm				P ₂ O ₅	10	P ₂ O ₅	15	P ₂ O ₅	35
Potassium		203 ppm					Band (Starter)*		Band (Starter)*		Broadcast
Chloride	0-24"	212 lb/ac				K ₂ O	0	K ₂ O	10	K ₂ O	60
							Band (Starter)*		Band (Starter)*		Broadcast
Sulfur	0-6"	66 lb/ac				Cl	Not Available	Cl	0	Cl	0
	6-24"	360 +lb/ac									
Boron		1.5 ppm				S	10	S	0	S	0
Zinc		1.50 ppm				B	0	B	0	B	0
Iron		18.6 ppm				Zn	0	Zn	0	Zn	0
Manganese		1.3 ppm				Fe	0	Fe	0	Fe	0
Copper		1.15 ppm				Mn	0	Mn	0	Mn	0
Magnesium		1059 ppm				Cu	0	Cu	0	Cu	0
Calcium		5973 ppm				Mg	0	Mg	0	Mg	0
Sodium		51 ppm				Lime		Lime		Lime	
Org. Matter		4.4 %									
Carbonate(OCE)		11.8 %									
Sol. Salts	0-6"	0.59 mmho/cm				Soil pH	8.0	Buffer pH		Cation Exchange Capacity	39.4 meq
	6-24"	1.0 mmho/cm					8.3			% Base Saturation (Typical Range)	
										% Ca	(65-75)
										% Mg	(15-20)
										% K	(1-7)
										% Na	(0-5)
										% H	(0-5)

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

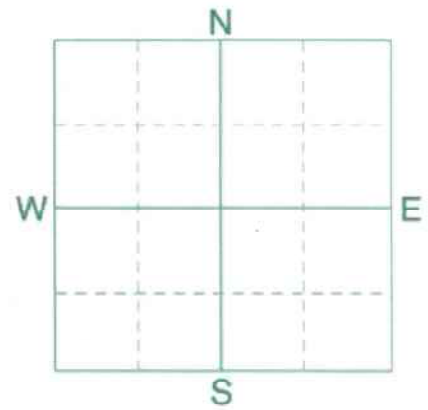
Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high 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 **09** Field # 9
 SAMPLE ID
 FIELD NAME
 COUNTY **6E**
 TWP **7** RANGE
 SECTION **19** QTR **SE** ACRES **75**
 PREV. CROP **Soybeans**



SUBMITTED FOR:

Orville Doerksen Farms
Box 47A RR1

Ste. Anne, MB R5H 1R1

SUBMITTED BY: TE2728

RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB ROA OXO

REF # **2100173** BOX # **0**
 LAB # **NW182858**

Date Sampled

Date Received **11/02/2017**

Date Reported **11/7/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6"	29 lb/ac				Soybeans							
	6-24"	36 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL			
						40 BU							
Olsen Phosphorus	0-24"	65 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		42 ppm				N	***	N		N			
						P ₂ O ₅	10	P ₂ O ₅		P ₂ O ₅			
Chloride	0-24"	1256 lb/ac				Band (Starter)*							
						K ₂ O	0	K ₂ O		K ₂ O			
Sulfur	0-6"	120 +lb/ac				Cl	0	Cl		Cl			
	6-24"	360 +lb/ac				S	0	S		S			
Boron		2.0 ppm				B	0	B		B			
Zinc		2.51 ppm				Zn	0	Zn		Zn			
Iron		33.2 ppm				Fe	0	Fe		Fe			
Manganese		1.2 ppm				Mn	0	Mn		Mn			
Copper		2.75 ppm				Cu	0	Cu		Cu			
Magnesium		2761 ppm				Mg	0	Mg		Mg			
Calcium		9554 ppm				Lime		Lime		Lime			
Sodium		261 ppm											
Org. Matter		7.2 %											
Carbonate(CCE)		2.0 %											
Sol. Salts	0-6"	2.97 mmho/cm				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	1.6 mmho/cm				0-6" 7.2		73.4 meq	% Ca	% Mg	% K	% Na	% H
					6-24" 7.8			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
								65.1	31.3	2.0	1.5		

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

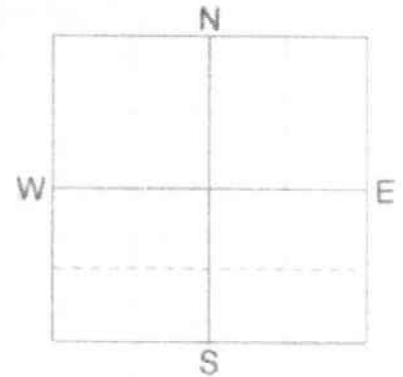
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID **10** Field # 10
 SAMPLE ID
 FIELD NAME
 COUNTY **5E**
 TWP **7** RANGE
 SECTION **12** QTRNW ACRES **53**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Orville Doerksen Farms
Box 47A RR1

Ste. Anne, MB R5H 1R1

SUBMITTED BY: **TE2728**
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB ROA OXO

REF # **2175867** BOX # **0**
 LAB # **NW218927**

Date Sampled

Date Received **12/14/2017**

Date Reported **12/14/2017**


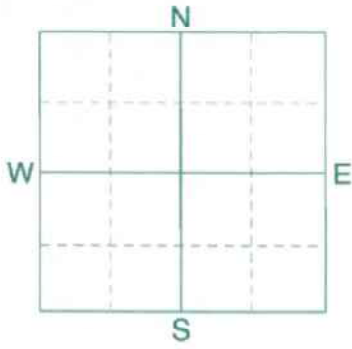
Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Very Low Low Med High	Wheat - Spring		Canola - bu					
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			60 BU		45 BU					
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Band		Band					
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 68 lb/ac 6-24" 66 lb/ac 0-24" 134 lb/ac		N	13	N	9	N			
Phosphorus	Olsen 20 ppm		P ₂ O ₅	15 Band (Starter)*	P ₂ O ₅	11 Band *	P ₂ O ₅			
Potassium	342 ppm		K ₂ O	10 Band (Starter)*	K ₂ O	0	K ₂ O			
Chloride	0-6" 120 +lb/ac 6-24" 360 +lb/ac		Cl	0	Cl	Not Available	Cl			
Sulfur	7.7 ppm		S	0	S	10 Band	S			
Boron	2.31 ppm		B	0	B	0	B			
Zinc	15.6 ppm		Zn	0	Zn	0	Zn			
Iron	2.1 ppm		Fe	0	Fe	0	Fe			
Manganese	1.49 ppm		Mn	0	Mn	0	Mn			
Copper	2465 ppm		Cu	0	Cu	0	Cu			
Magnesium	5614 ppm		Mg	0	Mg	0	Mg			
Calcium	829 ppm		Lime		Lime		Lime			
Sodium	9.0 %									
Org. Matter	12.1 %									
Carbonate(CCE)	0-6" 1.92 mmho/cm 6-24" 2.39 mmho/cm		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts						% Ca	% Mg	% K	% Na	% H
			0-6" 8.1		53.1 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			6-24" 8.5			52.9	38.7	1.7	6.8	

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

Moderate sodium levels may cause soil dispersion, poor water movement and reduced yields.

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 41 K2O = 20 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

 <p>Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109</p>	SOIL TEST REPORT		
	FIELD ID 11 Field # 11 SAMPLE ID FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 9 QTR SW ACRES 75 PREV. CROP Canola-bu		
SUBMITTED FOR: Orville Doerksen Farms Box 47A RR1 Ste. Anne, MB R5H 1R1	SUBMITTED BY: TE2728 RICHARDSON PIONEER-LANDMA 231 MAIN STREET BOX 70 LANDMARK, MB ROA OXO		REF # 1988911 BOX # 0 LAB # NW100623
Date Sampled	Date Received 10/05/2017	Date Reported 10/11/2017	

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring		Canola-bu		Soybeans				
Nitrate	0-6"	24 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"	48 lb/ac					60 BU		40 BU		40 BU			
	0-24"	72 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
							Band		Band		Broadcast/Maint.			
							LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	10 ppm					N	90	N	68	N	***		
Potassium		191 ppm					P ₂ O ₅	31 Band *	P ₂ O ₅	30 Band *	P ₂ O ₅	48 Broadcast		
Chloride	0-24"	1848 lb/ac					K ₂ O	10 Band (Starter)*	K ₂ O	0	K ₂ O	60 Broadcast		
	0-6"	120 +lb/ac					Cl	0	Cl	Not Available	Cl	0		
Sulfur	6-24"	360 +lb/ac					S	0	S	10 Band	S	0		
Boron		2.1 ppm					B	0	B	0	B	0		
Zinc		0.70 ppm					Zn	3 Band (Trial)	Zn	3 Band (Trial)	Zn	4 Broadcast		
Iron		14.1 ppm					Fe	0	Fe	0	Fe	0		
Manganese		1.2 ppm					Mn	0	Mn	0	Mn	0		
Copper		1.3 ppm					Cu	0	Cu	0	Cu	0		
Magnesium		2162 ppm					Mg	0	Mg	0	Mg	0		
Calcium		5928 ppm					Lime		Lime		Lime			
Sodium		416 ppm												
Org. Matter		4.7 %												
Carbonate(CCE)		8.7 %												
Sol. Salts	0-6"	1.42 mmho/cm					Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	2.01 mmho/cm					0-6" 8.3		50.0 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

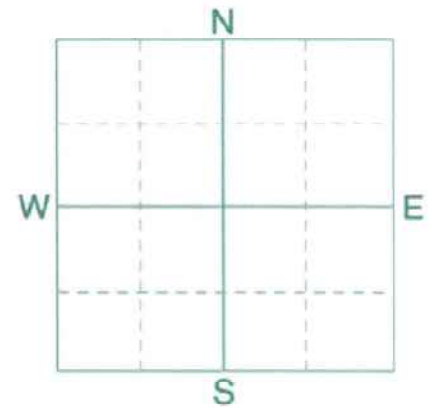
Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is extreme based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.



Soil Analysis by Agvise Laboratories
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 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **12** Field # 12
 SAMPLE ID
 FIELD NAME
 COUNTY **5E**
 TWP **7** RANGE
 SECTION **25** QTR **SW** ACRES **154**
 PREV. CROP **Soybeans**



SUBMITTED FOR:

Orville Doerksen Farms
Box 47A RR1

Ste. Anne, MB R5H 1R1

SUBMITTED BY: TE2728

RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB ROA OXO

REF # **2100177** BOX # **0**
 LAB # **NW182752**

Date Sampled


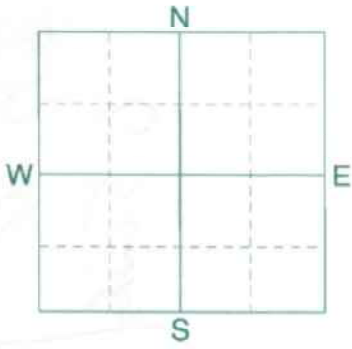
Date Received **11/02/2017**

Date Reported **11/7/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6"	28 lb/ac				Soybeans							
	6-24"	24 lb/ac	.....			YIELD GOAL	YIELD GOAL	YIELD GOAL				
						40 BU							
	0-24"	52 lb/ac				SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES					
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	25 ppm	.....			N	***	N		N		
Potassium		333 ppm	.....			P ₂ O ₅	10	Band (Starter)*	P ₂ O ₅	P ₂ O ₅		
Chloride	0-24"	2560 lb/ac	.....			K ₂ O	0		K ₂ O			
Sulfur	0-6"	120 +lb/ac	.....			Cl	0		Cl			
	6-24"	360 +lb/ac	.....			S	0		S			
Boron		3.0 ppm	.....			B	0		B			
Zinc		2.17 ppm	.....			Zn	0		Zn			
Iron		19.0 ppm	.....			Fe	0		Fe			
Manganese		1.2 ppm	.....			Mn	0		Mn			
Copper		2.0 ppm	.....			Cu	0		Cu			
Magnesium		1985 ppm	.....			Mg	0		Mg			
Calcium		9742 ppm	.....			Lime		Lime		Lime		
Sodium		410 ppm	.....									
Org. Matter		7.0 %	.....									
Carbonate(CCE)		3.9 %	.....									
Sol. Salts	0-6"	3.2 mmho/cm			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	3.96 mmho/cm			0-6" 7.5		67.9 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 7.8			(65-75) 71.8	(15-20) 24.4	(1-7) 1.3	(0-5) 2.6	(0-5)

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. The risk of the development of iron chlorosis on soybeans on this field is very high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

 <p>Soil Analysis by Agvise Laboratories (http://www.agvise.com) Northwood: (701) 587-6010 Benson: (320) 843-4109</p>	<p>SOIL TEST REPORT</p> <p>FIELD ID 13 Field # 13 SAMPLE ID D5XX-SKAX FIELD NAME COUNTY 6E TWP 7 RANGE SECTION 25 QTR NW ACRES 0.90 PREV. CROP</p>	
<p>SUBMITTED FOR: ORVILLE DOERKSEN</p>	<p>SUBMITTED BY: TE2698 RICHARDSON PIONEER-STEINB 34 PIONEER ROAD STEINBACH, MB R5G 1W4</p>	<p>REF # 11518450 BOX # 0 LAB # NW132461</p>
Date Sampled	Date Received 10/17/2017	Date Reported 10/26/2017

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"	23 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
	6-24"	24 lb/ac	*****			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
	0-24"	47 lb/ac				N		N		N			
Phosphorus	Olsen	7 ppm	*****			P ₂ O ₅		P ₂ O ₅		P ₂ O ₅			
Potassium		315 ppm	*****			K ₂ O		K ₂ O		K ₂ O			
Chloride						Cl		Cl		Cl			
Sulfur	0-6"	120 +lb/ac	*****			S		S		S			
	6-24"	360 +lb/ac	*****			B		B		B			
Boron						Zn		Zn		Zn			
Zinc		0.95 ppm	*****			Fe		Fe		Fe			
Iron						Mn		Mn		Mn			
Manganese						Cu		Cu		Cu			
Copper		1.91 ppm	*****			Mg		Mg		Mg			
Magnesium						Lime		Lime		Lime			
Calcium													
Sodium													
Org. Matter		6.5 %	*****										
Carbonate(OCE)													
Sol. Salts	0-6"	2.46 mmho/cm	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	4.44 mmho/cm	*****			0-6" 7.9			% Ca	% Mg	% K	% Na	% H
						6-24" 8.0							

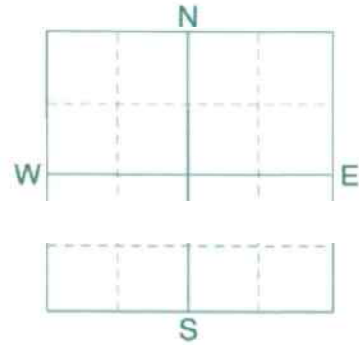


Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010

SOIL TEST REPORT

FIELD ID **14** Field # 14&17
 SAMPLE ID **D8NT-PYGH**
 FIELD NAME
 COUNTY **SWSE 30-7-6e**
 TWP RANGE
 Acres - 90

PREV. CROP



SUBMITTED FOR:
ORVILLE DOERKSEN

SUBMITTED BY: **TE2698**
RICHARDSON PIONEER-STEINB
34 PIONEER ROAD
STEINBACH, MB R5G 1W4

REF # **11518449** BOX # **0**
 LAB # **NW132463**

Date Sampled

Date Received **10/17/2017**

Date Reported **10/26/2017**

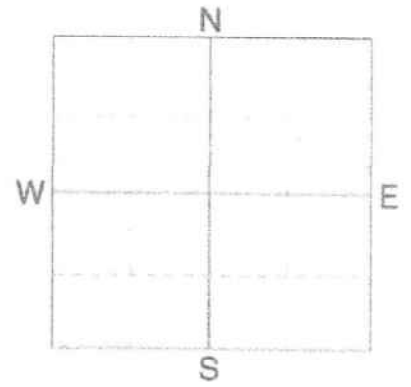
Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
		VLow	Low	Med	High	YIELD GOAL		YIELD GOAL		YIELD GOAL					
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION		LB/ACRE		APPLICATION			
Nitrate	0-6"	12 lb/ac				N		N		N					
	6-24"	18 lb/ac				P ₂ O ₅		P ₂ O ₅		P ₂ O ₅					
Phosphorus	0-6"	120 +lb/ac				K ₂ O		K ₂ O		K ₂ O					
	6-24"	360 +lb/ac				Cl		Cl		Cl					
Potassium		342 ppm				S		S		S					
Chloride						B		B		B					
Sulfur						Zn		Zn		Zn					
Boron						Fe		Fe		Fe					
Zinc		1.02 ppm				Mn		Mn		Mn					
Iron						Cu		Cu		Cu					
Manganese						Mg		Mg		Mg					
Copper		2.44 ppm				Lime		Lime		Lime					
Magnesium						Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Calcium					% Ca							% Mg	% K	% Na	% H
Sodium						0-6"	7.2								
Org. Matter		5.1 %				6-24"	8.0								
Carbonate(CCE)															
Sol. Salts	0-6"	1.91 mmho/cm													
	6-24"	2.4 mmho/cm													



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

SOIL TEST REPORT

FIELD ID ~~BH-14~~ 15
 SAMPLE ID
 FIELD NAME Field # 15
 COUNTY 6E
 TWP 7 RANGE
 SECTION 19 QTR ENE ACRES 73
 PREV. CROP Corn-Silage



SUBMITTED FOR:
Braunsdale Holsteins Ltd
Greg Braun 346-3534
Box 8
Blumnort, ROA OCO

SUBMITTED BY: **T00533**
TONE AG CONSULTING LTD.
31022 RAT RIVER RD
PO BOX 333
ST PIERRE JOLYS, MB ROA 1V0

REF # **2094607** BOX # **0**
 LAB # **NW148824**

Date Sampled **10/18/2017**

Date Received **10/20/2017**

Date Reported **10/25/2017**

Nutrient In The Soil		Interpretation <small>Very Low Med High</small>	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
Depth	Concentration		Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines	Yield Goal	Suggested Guidelines		
Nitrate	0-6"	43 lb/ac	Corn-Silage	Alfalfa						
	6-24"	33 lb/ac	YIELD GOAL	YIELD GOAL						
	0-24"	76 lb/ac	15 Tons	5 Tons						
			SUGGESTED GUIDELINES	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
			Band/Maint.	Band/Maint.						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
	Olsen	55 ppm	N 80		N 0		N			
Phosphorus			P ₂ O ₅ 15	Band (2x2) *	P ₂ O ₅ 15	Band (Starter) *	P ₂ O ₅			
Potassium		584 ppm	K ₂ O 10	Band (2x2) *	K ₂ O 15	Band (Starter) *	K ₂ O			
Chloride			Cl		Cl		Cl			
	0-6"	60 lb/ac	S 0		S 0		S			
Sulfur	6-24"	348 lb/ac	B		B		B			
Boron			Zn 0		Zn 0		Zn			
Zinc		4.19 ppm	Fe		Fe		Fe			
Iron			Mn		Mn		Mn			
Manganese			Cu 0		Cu 0		Cu			
Copper		3.01 ppm	Mg		Mg		Mg			
Magnesium			Lime		Lime		Lime			
Calcium										
Sodium										
Org. Matter		9.2 %								
Carbonate(CCE)										
	0-6"	1.15 mmho/cm	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24"	1.38 mmho/cm	0-6" 7.4			% Ca	% Mg	% K	% Na	% H
Sol. Salts			6-24" 8.0							

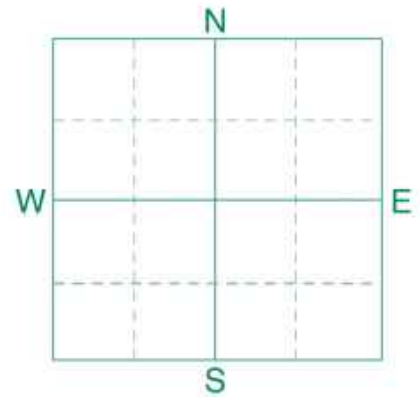
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K2O = 125 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.
 Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 50 K2O = 250 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.



SOIL TEST REPORT

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FIELD ID **YARD**
 SAMPLE ID **Field # 16**
 FIELD NAME
 COUNTY **6**
 TWP **7** RANGE
 SECTION **19** QTR **NWNE** ACRES **90**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
ERNIE GOERTZEN

BOX 51
STE ANNE, MB **R5H 1R1**

SUBMITTED BY: TE3016
PATERSON GRAIN-STEINBACH
385 PTH 12N
STEINBACH, MB **R5G 1V1**

REF # **18753447** BOX # **0**
 LAB # **NW191276**

Date Sampled

Date Received **11/07/2017**

Date Reported **6/19/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 16 lb/ac	*****				Canola-bu		Wheat-Spring		Oats				
	6-24" 15 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL				
						40 BU		50 BU		120 BU				
	0-24" 31 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band		Band				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 52 ppm	*****	*****	*****	*****	N 94	N 89	N 74						
Potassium	708 ppm	*****	*****	*****	*****	P ₂ O ₅ 10 Band (Starter)*	P ₂ O ₅ 15 Band (Starter)*	P ₂ O ₅ 15 Band (Starter)*						
Chloride	0-24" 4716 lb/ac	*****	*****	*****	*****	K ₂ O 0	K ₂ O 10 Band (Starter)*	K ₂ O 10 Band (Starter)*						
Sulfur	0-6" 120 +lb/ac 6-24" 360 +lb/ac	*****	*****	*****	*****	Cl	Cl 0 Not Available	Cl 0						
Boron	2.1 ppm	*****	*****	*****	*****	S 10 Band	S 0	S 0						
Zinc	2.84 ppm	*****	*****	*****	*****	B 0	B 0	B 0						
Iron	42.5 ppm	*****	*****	*****	*****	Zn 0	Zn 0	Zn 0						
Manganese	1.7 ppm	*****	*****	*****	*****	Fe 0	Fe 0	Fe 0						
Copper	2.82 ppm	*****	*****	*****	*****	Mn 0	Mn 0	Mn 0						
Magnesium	2135 ppm	*****	*****	*****	*****	Cu 0	Cu 0	Cu 0						
Calcium	6216 ppm	*****	*****	*****	*****	Mg 0	Mg 0	Mg 0						
Sodium	241 ppm	*****	*****	*****	*****	Lime	Lime	Lime						
Org.Matter	8.9 %	*****	*****	*****	*****									
Carbonate(CCE)	1.4 %	*****	*****	*****	*****									
Sol. Salts	0-6" 1.51 mmho/cm	*****				Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24" 3.12 mmho/cm					0-6" 7.5		51.7 meq	% Ca	% Mg	% K	% Na	% H	
						6-24" 7.8			60.1	34.4	3.5	2.0	0.0	

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

Crop 1: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 36 K2O = 18 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

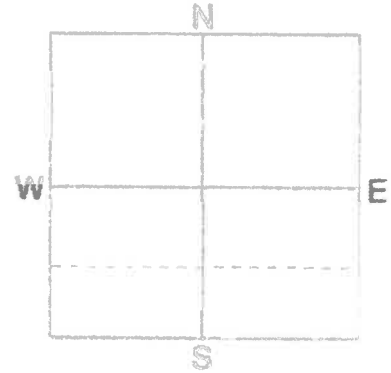
Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 30 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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SOIL TEST REPORT

FIELD ID **11 Section 2**
 SAMPLE ID **1**
 FIELD NAME **Section 2**
 COUNTY **6**
 TWP **9** RANGE
 SECTION **2** QTRNESE ACRES **255**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Reimark Farms
Box 31 RR1
Steinbach, MB **R5G 1L9**

SUBMITTED BY: TE2728
RICHARDSON PIONEER-LANDMA
231 MAIN STREET
BOX 70
LANDMARK, MB **ROA OXO**

REF # **2178009** BOX # **0**
 LAB # **NW219805**

Date Sampled

Date Received **12/14/2017**

Date Reported **12/27/2017**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		Low	Low	Med	High	Wheat-Spring		Canola-bu		Soybeans				
Nitrogen	0-6" 48 lb/ac					YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24" 30 lb/ac					60 BU		45 BU		40 BU				
	0-24" 78 lb/ac					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band/Maint.		Broadcast/Maint.				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen	17 ppm					N	69	N	65	N	***			
P ₂ O ₅	349 ppm					P ₂ O ₅	17 Band *	P ₂ O ₅	41 Band *	P ₂ O ₅	35 Broadcast			
K ₂ O	48 lb/ac					K ₂ O	10 Band (Starter)*	K ₂ O	0	K ₂ O	0			
Chloride	36 lb/ac					Cl	0	Cl	Not Available	Cl	0			
Sulfur	360 +lb/ac					S	0	S	15 Band	S	0			
Boron	1.2 ppm					B	0	B	0	B	0			
Zinc	1.67 ppm					Zn	0	Zn	0	Zn	0			
Iron	62.8 ppm					Fe	0	Fe	0	Fe	0			
Manganese	2.8 ppm					Mn	0	Mn	0	Mn	0			
Copper	2.01 ppm					Cu	0	Cu	0	Cu	0			
Magnesium	2494 ppm					Mg	0	Mg	0	Mg	0			
Calcium	4817 ppm					Lime		Lime		Lime				
Sodium	85 ppm													
Org. Matter	8.5 %													
Carbonate(CCE)	1.1 %													
Sol. Salts	0-6" 0.93 mmho/cm					Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24" 1.29 mmho/cm					0-6" 7.0		46.1 meq	% Ca	% Mg	% K	% Na	% H	
						6-24" 8.0			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
									52.2	45.1	1.9	0.8		

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

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Crop 2: ** Chloride yield data is limited for this crop. * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 45 K2O = 20 AGVISE Band/Maintenance guidelines will build P & K test levels to the medium range over many years and then maintain them.

Crop 3: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.