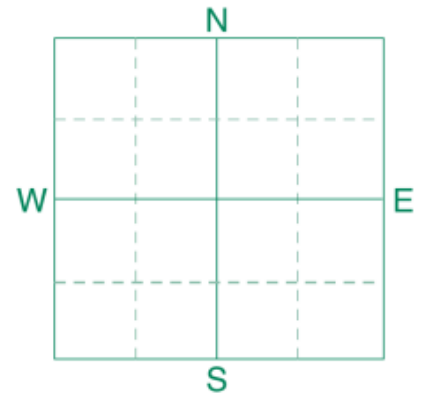




Soil Analysis by Agvise Laboratories  
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 Northwood: (701) 587-6010  
 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **FOSE25141**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **25** QTR **SE** ACRES **141**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175455** BOX # **2149**  
 LAB # **NW227910**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
	19 lb/acre 21 lb/acre					50 BU	60 BU	4 Tons						
	0-24"					40 lb/acre	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES	
						Band			Band			Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Phosphorus	Olsen 7 ppm	*****				N 135		N 122		N 80				
Potassium	382 ppm	*****				P <sub>2</sub> O <sub>5</sub> 45	Band *	P <sub>2</sub> O <sub>5</sub> 37	Band *	P <sub>2</sub> O <sub>5</sub> 31	Band *			
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0				
Sulfur						Cl		Cl		Cl				
Boron						S		S		S				
Zinc						B		B		B				
Iron						Zn		Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium						Cu		Cu		Cu				
Calcium						Mg		Mg		Mg				
Sodium						Lime		Lime		Lime				
Org.Matter														
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
								% Ca	% Mg	% K	% Na	% H		
Sol. Salts	0-6" 6-24"	*****				0-6" 7.4								
	0.46 mmho/cm 1.97 mmho/cm	*****				6-24" 8.0								

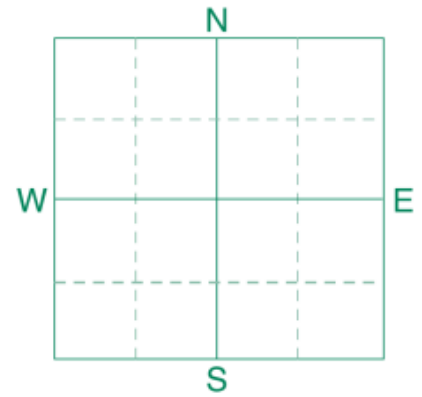
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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## SOIL TEST REPORT

FIELD ID **FONE24133**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **24** QTR **NE** ACRES **133**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175456** BOX # **2149**  
 LAB # **NW227911**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

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		Grass/Pasture									
	21 lb/acre 33 lb/acre					YIELD GOAL		YIELD GOAL		YIELD GOAL									
	0-24"					50 BU		60 BU		4 Tons									
	54 lb/acre					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES									
					Band		Band		Band										
					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION									
Phosphorus	Olsen 20 ppm	*****					N 121	N 108	N 66										
Potassium	382 ppm	*****					P <sub>2</sub> O <sub>5</sub> 13 Band *	P <sub>2</sub> O <sub>5</sub> 15 Band (Starter)*	P <sub>2</sub> O <sub>5</sub> 0										
Chloride							K <sub>2</sub> O 0	K <sub>2</sub> O 10 Band (Starter)*	K <sub>2</sub> O 0										
Sulfur							Cl	Cl	Cl										
Boron							S	S	S										
Zinc							B	B	B										
Iron							Zn	Zn	Zn										
Manganese							Fe	Fe	Fe										
Copper							Mn	Mn	Mn										
Magnesium							Cu	Cu	Cu										
Calcium							Mg	Mg	Mg										
Sodium							Lime	Lime	Lime										
Org.Matter																			
Carbonate(CCE)																			
Sol. Salts	0-6"	*****				Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)									
	6-24"					0.58 mmho/cm 0.5 mmho/cm						% Ca	% Mg	% K	% Na	% H			
						0-6" 7.2													
						6-24" 8.3													

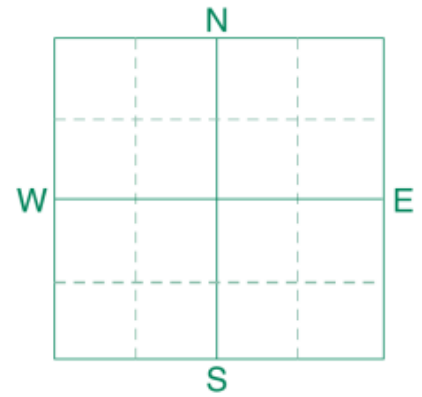
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **FOSE24140**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **24** QTR **SE** ACRES **140**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175457** BOX # **2120**  
 LAB # **NW227912**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice					
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture					
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL					
	19 lb/acre 18 lb/acre					50 BU	60 BU	4 Tons									
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
	37 lb/acre					Band			Band			Band					
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION				
Phosphorus	Olsen 16 ppm	*****				N 138		N 125		N 83							
Potassium	271 ppm	*****				P <sub>2</sub> O <sub>5</sub> 23	Band *	P <sub>2</sub> O <sub>5</sub> 19	Band *	P <sub>2</sub> O <sub>5</sub> 8	Band *						
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0							
Sulfur						Cl		Cl		Cl							
Boron						S		S		S							
Zinc						B		B		B							
Iron						Zn		Zn		Zn							
Manganese						Fe		Fe		Fe							
Copper						Mn		Mn		Mn							
Magnesium						Cu		Cu		Cu							
Calcium						Mg		Mg		Mg							
Sodium						Lime 0		Lime 0		Lime 0							
Org.Matter						Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)												% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-24"	*****				0-6" 6.9											
	0.42 mmho/cm 0.38 mmho/cm	*****				6-24" 8.3											

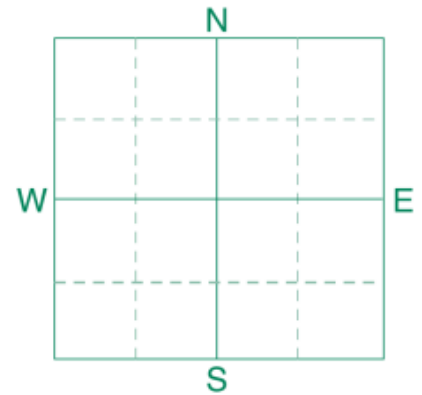
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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## SOIL TEST REPORT

FIELD ID **FONW24117**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **24** QTR **NW** ACRES **117**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175458** BOX # **2149**  
 LAB # **NW227913**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL		
	14 lb/acre 18 lb/acre					50 BU	60 BU	4 Tons						
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
	32 lb/acre					Band			Band			Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Phosphorus	Olsen 8 ppm	*****				N 143		N 130		N 88				
Potassium	354 ppm	*****				P <sub>2</sub> O <sub>5</sub> 43	Band *	P <sub>2</sub> O <sub>5</sub> 35	Band *	P <sub>2</sub> O <sub>5</sub> 28	Band *			
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0				
Sulfur						Cl		Cl		Cl				
Boron						S		S		S				
Zinc						B		B		B				
Iron						Zn		Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium						Cu		Cu		Cu				
Calcium						Mg		Mg		Mg				
Sodium						Lime		Lime		Lime				
Org.Matter						Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)						Buffer pH		% Ca	% Mg	% K	% Na	% H		
	0-6" 6-24"	*****				0-6" 7.1								
Sol. Salts	0.57 mmho/cm 0.82 mmho/cm	*****				6-24" 8.1								

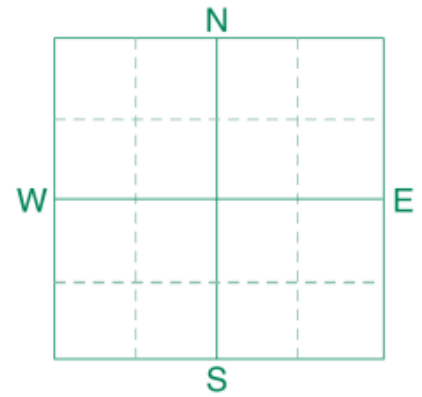
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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## SOIL TEST REPORT

FIELD ID **FOSW24156**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **24** QTR **SW** ACRES **156**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175459** BOX # **2133**  
 LAB # **NW227914**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture			
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL			
	17 lb/acre 18 lb/acre					50 BU	60 BU	4 Tons							
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
	35 lb/acre					Band			Band			Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 11 ppm	*****				N 140		N 127		N 85					
Potassium	329 ppm	*****				P <sub>2</sub> O <sub>5</sub> 35	Band *	P <sub>2</sub> O <sub>5</sub> 29	Band *	P <sub>2</sub> O <sub>5</sub> 21	Band *				
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0					
Sulfur						Cl		Cl		Cl					
Boron						S		S		S					
Zinc						B		B		B					
Iron						Zn		Zn		Zn					
Manganese						Fe		Fe		Fe					
Copper						Mn		Mn		Mn					
Magnesium						Cu		Cu		Cu					
Calcium						Mg		Mg		Mg					
Sodium						Lime		Lime		Lime					
Org.Matter															
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity			% Base Saturation (Typical Range)				
								% Ca	% Mg	% K	% Na	% H			
Sol. Salts	0-6" 6-24"	*****				0-6" 7.2									
	1.32 mmho/cm 2.15 mmho/cm	*****				6-24" 8.3									

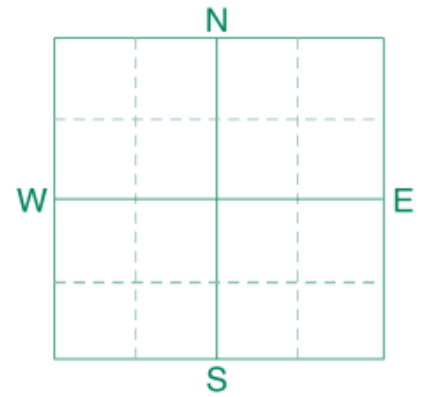
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **FON13263**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **13** QTR **N** ACRES **263**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175460** BOX # **2133**  
 LAB # **NW227915**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice								
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture								
Nitrate	0-6" 6-24"	18 lb/acre	18 lb/acre	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL						
	0-24"	36 lb/acre						50 BU			60 BU			4 Tons						
								SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES						
								Band			Band			Band						
								LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Phosphorus	Olsen	12 ppm	*****				N	139		N	126		N	84						
Potassium		314 ppm	*****				P <sub>2</sub> O <sub>5</sub>	33	Band *	P <sub>2</sub> O <sub>5</sub>	27	Band *	P <sub>2</sub> O <sub>5</sub>	18	Band *					
Chloride							K <sub>2</sub> O	0		K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0						
Sulfur							Cl			Cl			Cl							
Boron							S			S			S							
Zinc							B			B			B							
Iron							Zn			Zn			Zn							
Manganese							Fe			Fe			Fe							
Copper							Mn			Mn			Mn							
Magnesium							Cu			Cu			Cu							
Calcium							Mg			Mg			Mg							
Sodium							Lime			Lime			Lime							
Org.Matter							Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)				
Carbonate(CCE)																% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	1.11 mmho/cm 2.08 mmho/cm	*****				0-6"	7.3												
							6-24"	8.6												

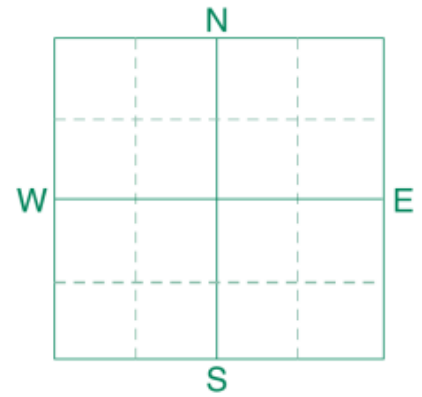
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **FOS13188**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **13** QTRS ACRES **188**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175461** BOX # **2149**  
 LAB # **NW227916**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture			
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL			
	13 lb/acre 21 lb/acre					50 BU	60 BU	4 Tons							
	0-24"					34 lb/acre	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band			Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 10 ppm	*****				N 141		N 128		N 86					
Potassium	324 ppm	*****				P <sub>2</sub> O <sub>5</sub> 38	Band *	P <sub>2</sub> O <sub>5</sub> 31	Band *	P <sub>2</sub> O <sub>5</sub> 23	Band *				
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0					
Sulfur						Cl		Cl		Cl					
Boron						S		S		S					
Zinc						B		B		B					
Iron						Zn		Zn		Zn					
Manganese						Fe		Fe		Fe					
Copper						Mn		Mn		Mn					
Magnesium						Cu		Cu		Cu					
Calcium						Mg		Mg		Mg					
Sodium						Lime		Lime		Lime					
Org.Matter															
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity			% Base Saturation (Typical Range)				
								% Ca	% Mg	% K	% Na	% H			
Sol. Salts	0-6" 6-24"	*****				0-6" 7.0									
	0.97 mmho/cm 1.57 mmho/cm	*****				6-24" 8.5									

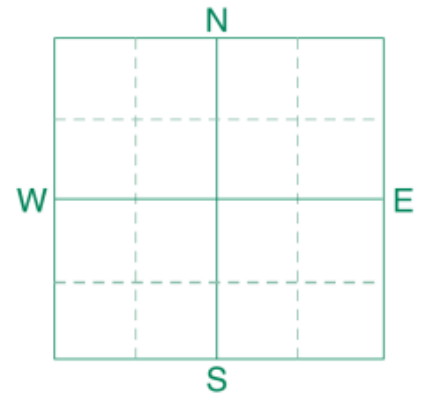
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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

## SOIL TEST REPORT

FIELD ID **FOE13131**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **13** QTR **E** ACRES **131**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175462** BOX # **2133**  
 LAB # **NW227917**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
						YIELD GOAL			YIELD GOAL			YIELD GOAL		
						50 BU			60 BU			4 Tons		
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band			Band			Band		
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Nitrate	0-6" 6-24" <b>22 lb/acre</b> <b>51 lb/acre</b>  0-24" <b>73 lb/acre</b>													
Phosphorus	Olsen <b>7 ppm</b>					N	<b>102</b>		N	<b>89</b>		N	<b>47</b>	
Potassium	<b>258 ppm</b>					P <sub>2</sub> O <sub>5</sub>	<b>45</b>	<b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>37</b>	<b>Band *</b>	P <sub>2</sub> O <sub>5</sub>	<b>31</b>	<b>Band *</b>
Chloride						K <sub>2</sub> O	<b>0</b>		K <sub>2</sub> O	<b>10</b>	<b>Band (Starter)*</b>	K <sub>2</sub> O	<b>0</b>	
Sulfur						Cl			Cl			Cl		
Boron						S			S			S		
Zinc						B			B			B		
Iron						Zn			Zn			Zn		
Manganese						Fe			Fe			Fe		
Copper						Mn			Mn			Mn		
Magnesium						Cu			Cu			Cu		
Calcium						Mg			Mg			Mg		
Sodium						Lime			Lime			Lime		
Org.Matter						Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)						Buffer pH			% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-24" <b>0.6 mmho/cm</b> <b>0.83 mmho/cm</b>					0-6" <b>7.7</b>								
						6-24" <b>8.6</b>								

**Crop 1: \*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 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**

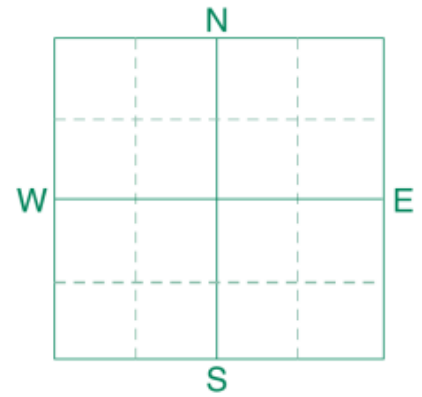




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## SOIL TEST REPORT

FIELD ID **FOSW14155**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **14** QTR **SW** ACRES **155**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175463** BOX # **2133**  
 LAB # **NW227918**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture		
Nitrate	0-6" 6-24"	*****	*****	*****	*****	YIELD GOAL			YIELD GOAL			YIELD GOAL		
	24 lb/acre 21 lb/acre					50 BU	60 BU	4 Tons						
	0-24"					45 lb/acre	SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES	
						Band			Band			Band		
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Phosphorus	Olsen 8 ppm	*****	*****	*****	*****	N 130		N 117		N 75				
Potassium	320 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub> 43	Band *	P <sub>2</sub> O <sub>5</sub> 35	Band *	P <sub>2</sub> O <sub>5</sub> 28	Band *			
Chloride						K <sub>2</sub> O 0		K <sub>2</sub> O 10	Band (Starter)*	K <sub>2</sub> O 0				
Sulfur						Cl		Cl		Cl				
Boron						S		S		S				
Zinc						B		B		B				
Iron						Zn		Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium						Cu		Cu		Cu				
Calcium						Mg		Mg		Mg				
Sodium						Lime		Lime		Lime				
Org.Matter														
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
								% Ca	% Mg	% K	% Na	% H		
Sol. Salts	0-6" 6-24"	0.86 mmho/cm 0.88 mmho/cm	*****	*****	*****	0-6" 7.6								
						6-24" 8.6								

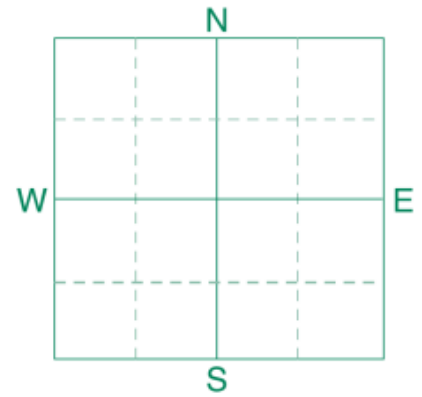
**Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**



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 Benson: (320) 843-4109

## SOIL TEST REPORT

FIELD ID **FONE1198**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY  
 TWP **6** RANGE **21-W**  
 SECTION **11** QTR **NE** ACRES **98**  
 PREV. CROP



SUBMITTED FOR:  
**Fortin**

SUBMITTED BY: **HY4851**  
**HYLIFE LTD.**  
**5 FABAS STREET**  
**BOX 100**  
**LA BROQUERIE, MB** **ROA 0W0**

REF # **3175464** BOX # **2133**  
 LAB # **NW227919**

Date Sampled

Date Received **12/03/2020**

Date Reported **12/7/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice										
		VLow	Low	Med	High	Canola-bu			Wheat-Spring			Grass/Pasture										
Nitrate	0-6" 6-24"	18 lb/acre	18 lb/acre	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL								
	0-24"	36 lb/acre						50 BU			60 BU			4 Tons								
								SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES								
								Band			Band			Band								
								LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION							
	Olsen	8 ppm	*****				N	139		N	126		N	84								
	Phosphorus						P2O5	43	Band *	P2O5	35	Band *	P2O5	28	Band *							
	Potassium	326 ppm	*****				K2O	0		K2O	10	Band (Starter)*	K2O	0								
	Chloride						Cl			Cl			Cl									
	Sulfur						S			S			S									
	Boron						B			B			B									
	Zinc						Zn			Zn			Zn									
	Iron						Fe			Fe			Fe									
	Manganese						Mn			Mn			Mn									
	Copper						Cu			Cu			Cu									
	Magnesium						Mg			Mg			Mg									
	Calcium						Lime			Lime			Lime									
	Sodium						Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)						
	Org.Matter															% Ca	% Mg	% K	% Na	% H		
	Carbonate(CCE)						0-6" 7.4															
	Sol. Salts	0-6" 6-24"	0.5 mmho/cm	1.39 mmho/cm	*****				6-24" 8.1													

**Crop 1: \*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 2: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.**  
**Crop 3: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 48 K2O = 180 AGVISE Band guideline will build P & K test levels to the medium range over several years.**

# SOIL ANALYSIS REPORT

Report Generated: 2020-11-26 19:00 UTC

Grower: Darryl Perkin  
 Farm: PERKIN LAND & CATTLE CO.  
 Season: 2021  
 Subfield Name: SE 14-6-21 W1



Subfield LLD: SE-14-06-21-W1    Sampler: Brendan Mills    Lab: Farmers Edge - Winnipeg    Lot Number: 201103\_221    Received Date: 2020-11-06  
 Area (ac): 122.5    2020-11-26

Sample Description							Macronutrients							
Zone	Lab ID	Lab ID	Date	Area	Depth		Units	NO3-N (lb/ac)			P-Olsen	K	SO4-S (lb/ac)	
	Surf	Sub		(ac)	Surf	Sub		Surf	Sub	Total	(ppm)	(ppm)	Surf	Sub
1			2020-11-15	10.0	0-6	6-24	in	19.0	22.6	41.6	20.7	241.3	1892.8	7851.8
2			2020-11-15	28.2	0-6	6-24	in	18.9	20.4	39.3	15.4	236.1	1161.1	6362.8
3	201103_221	201103_221	2020-10-20	23.9	0-6	6-24	in	22.8	25.2	48.0	8.4	179.0	488.4	3628.0
4			2020-11-15	39.1	0-6	6-24	in	21.3	22.3	43.6	8.9	191.9	32.4	756.0
5			2020-11-15	21.3	0-6	6-24	in	22.2	25.8	48.0	13.9	313.5	13.6	218.5

Zone	Macronutrients			Cation Exchange and Base Saturation								Texture							
	Ca	Mg	Na	CEC	Base Sat.	Ca (%)		Na (%)		K (%)		Mg (%)		Clay (%)		Silt (%)		Sand (%)	
	(ppm)	(ppm)	(ppm)	(meg/100g)	(%)	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub
1	4604.5	745.3	690.0	32.9	100.0	69.9		9.1		2.3		18.6		27.1				43.8	
2	3596.5	709.2	345.1	26.0	100.0	69.0		5.8		2.8		22.4		28.8				38.1	
3	2795.3	671.1	226.7	20.9	100.0	66.7		4.7		2.2		26.4							
4	2852.1	397.1	56.5	18.2	100.0	78.2		1.3		2.5		17.9		24.7				39.6	
5	3744.8	600.8	46.2	24.8	100.0	75.3		0.8		4.0		19.9		25.1				41.0	

Zone	Micronutrients					Soil Quality							
	Cu	Fe	Mn	Zn	B	Cl (lb/ac)		pH (1:2)		Buffer Index	EC (Sat Paste Equiv.) (dS/m)		OM
	ppm	(ppm)	(ppm)	(ppm)	(ppm)	Surf	Sub	Surf	Sub	Surf	Surf	Sub	(%)
1	0.7	19.2	3.5	1.4	0.8	36.0	164.4	7.9	8.3		2.9	3.9	5.3
2	0.6	22.5	4.6	1.5	0.7	14.8	70.7	7.8	8.3		2.2	3.3	5.5
3	0.6	20.6	3.8	1.2	0.6	36.2	91.1	7.7	8.3		1.4	2.5	5.3
4	0.4	33.3	7.9	0.7	0.4	7.8	46.7	7.8	8.5		0.2	0.8	5.4
5	0.6	45.0	6.1	1.9	0.5	7.0	22.2	7.9	8.6		0.4	0.4	5.5

Comments:







# SOIL ANALYSIS REPORT

Report Generated: 2020-11-26 19:03 UTC

Grower: Darryl Perkin  
 Farm: PERKIN LAND & CATTLE CO.  
 Season: 2021  
 Subfield Name: NE 14-6-21 W1



Subfield LLD: NE-14-06-21-W1  
 Area (ac): 163.8

Sampler: Brendan Mills

Lab: Farmers Edge - Winnipeg

Lot Number: 201103\_220

Received Date: 2020-11-06  
 2020-11-26

Sample Description							Macronutrients							
Zone	Lab ID	Lab ID	Date	Area	Depth		Units	NO3-N (lb/ac)			P-Olsen	K	SO4-S (lb/ac)	
	Surf	Sub		(ac)	Surf	Sub		Surf	Sub	Total	(ppm)	(ppm)	Surf	Sub
1			2020-11-15	11.5	0-6	6-24	in	19.7	14.5	34.2	47.4	198.7	4735.5	12275.3
2			2020-11-15	21.9	0-6	6-24	in	19.0	13.9	32.9	15.3	188.6	1566.7	5867.0
3	201103_220	201103_220	2020-10-20	24.5	0-6	6-24	in	23.7	9.1	32.8	3.2	159.9	745.9	5693.0
4			2020-11-15	44.3	0-6	6-24	in	22.1	15.3	37.4	8.1	181.7	116.0	1771.6
5			2020-11-15	45.7	0-6	6-24	in	22.1	15.3	37.4	7.9	202.3	682.1	2211.3
6			2020-11-15	15.9	0-6	6-24	in	22.2	14.8	37.0	8.4	174.6	313.0	6572.8

Macronutrients			Cation Exchange and Base Saturation								Texture								
Zone	Ca	Mg	Na	CEC	Base Sat.	Ca (%)		Na (%)		K (%)		Mg (%)		Clay (%)		Silt (%)		Sand (%)	
	(ppm)	(ppm)	(ppm)	(meg/100g)	(%)	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub	Surf	Sub
1	3777.2	1073.8	2386.2	38.6	100.0	48.8		26.9		1.5		22.9		32.6				37.3	
2	5389.6	656.2	805.4	36.3	100.0	74.0		9.6		1.5		14.8		27.2				38.9	
3	4527.2	879.1	243.6	31.3	100.0	72.2		3.4		1.3		23.1							
4	2609.9	448.1	85.4	17.6	100.0	74.2		2.1		2.7		21.0		29.1				34.2	
5	2775.2	588.3	163.9	20.0	100.0	69.3		3.6		2.9		24.2		30.7				36.0	
6	3065.7	555.7	110.6	20.7	100.0	73.8		2.3		1.9		22.0		27.8				37.3	

Micronutrients						Soil Quality							
Zone	Cu	Fe	Mn	Zn	B	Cl (lb/ac)		pH (1:2)		Buffer Index	EC (Sat Paste Equiv.) (dS/m)		OM
	ppm	(ppm)	(ppm)	(ppm)	(ppm)	Surf	Sub	Surf	Sub	Surf	Surf	Sub	(%)
1	0.7	17.8	2.7	2.3	0.7	102.8	502.1	8.0	8.5		4.7	5.1	4.3
2	0.8	62.9	9.2	2.6	0.7	42.0	239.4	7.7	8.3		1.8	2.1	5.3
3	0.7	50.2	7.2	1.1	0.8	66.4	203.4	7.4	8.1		1.9	3.6	4.3
4	0.7	64.7	14.3	1.6	0.5	8.0	55.8	7.6	8.4		0.4	1.0	5.8
5	0.8	72.0	16.7	1.2	0.6	23.2	211.1	7.2	8.6		1.1	1.2	5.8
6	0.8	82.2	18.3	2.4	0.7	8.0	105.0	7.6	8.3		0.7	2.3	6.2

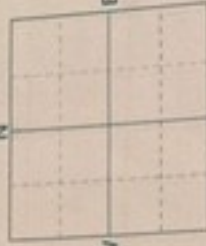
Comments:



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

**SOIL TEST REPORT**

FIELD ID SMITH NW 29-6-20  
 SAMPLE ID SMITH NW 29-6-20  
 FIELD NAME  
 COUNTY NW 29-6-20  
 TWP 6-20 RANGE  
 SECTION 29 QTR NW ACRES 122  
 PREV. CROP Canola-BW



**SUBMITTED FOR:**  
 FORTIN FARMS

**RUK 2C0 RUK 2C0**

**SUBMITTED BY:** WELB17

HERITAGE COOP-BRANDON  
 % ROB GREER  
 PO BOX 37  
 DOUGLAS, MB

**RUK 080**

**REF # 19742785 BOX # 4315**  
**LAB # NW182441**

Date Sampled 10/18/2020

Date Received 10/21/2020

Date Reported 10/26/2020

Nutrient In The Soil	Interpretation		
	V.Low	Low	Med High
Nitrogen	11 lb/acre	9 ppm	*****
Phosphorus	9 lb/acre	223 ppm	*****
Potassium	28 lb/acre	160 lb/acre	*****
Chloride	0-8" 6-24"	120 +lb/acre 360 +lb/acre	*****
Sulfur	0-24"	1.2 ppm	*****
Boron		0.63 ppm	*****
Zinc		55.6 ppm	*****
Iron		11.5 ppm	*****
Manganese		0.73 ppm	*****
Copper		802 ppm	*****
Magnesium		\$289 ppm	*****
Calcium		118 ppm	*****
Sodium		4.4 %	*****
Org. Matter		3.2 %	*****
Carbonate(CEC)	0-8" 6-24"	0.75 mmho/cm 1.85 mmho/cm	*****

Soil Salts

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

Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.

Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 50 K2O = 30  
 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. Soybean iron deficiency (IDC) risk is high, based on soil carbonate and salinity. Crop nutrient removal: P205 = 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.

Crop 3: Limited data on crop responses 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.

1st Crop Choice	2nd Crop Choice		3rd Crop Choice	
	Wheat-Spring	Soybeans	Canola-BW	
YIELD GOAL	80 BU	50 BU	60 BU	
SUGGESTED GUIDELINES				
LE/ACRE	N 186	N ***	N 190	
APPLICATION	P <sub>2</sub> O <sub>5</sub> 44 Band *	P <sub>2</sub> O <sub>5</sub> 38 Band *	P <sub>2</sub> O <sub>5</sub> 48 Band *	
	K <sub>2</sub> O 10 Band (Starter)*	K <sub>2</sub> O 0	K <sub>2</sub> O 0	
	Cl 0	Cl 0	Cl	Not Available
	S 0	S 0	S 10	Band
	B 0	B 0	B 0	
	Zn 0	Zn 1 Band	Zn 1	Band
	Fe 0	Fe 0	Fe 0	
	Mn 0	Mn 0	Mn 0	
	Cu 1 Band (Trial)	Cu 0	Cu 0	
	Mg 0	Mg 0	Mg 0	
	Lime	Lime	Lime	

Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)			
			% Ca	% Mg	% K	% Na
0-6" 7.2		34.3 meq	(65-75)	(15-20)	(1-7)	(0-5)
6-24" 8.2			76.9	19.5	1.7	1.5
						0.4

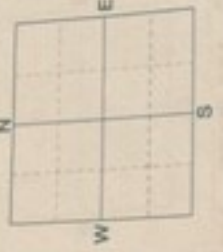




Soil Analysis by Agvise Laboratories  
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 Northwood: (701) 587-6610  
 Benson: (320) 843-4109

**SOIL TEST REPORT**

FIELD ID NOBHS  
 SAMPLE ID NOBHS  
 FIELD NAME  
 COUNTY  
 TWP 32-4-30  
 RANGE 6-20  
 SECTION 32 QTR ALL ACRES 9.29  
 PREV. CROP Soybeans



SUBMITTED FOR:  
 FORTIN FARMS

SUBMITTED BY: WE1817

HERITAGE COOP-BRANDON  
 % ROB GREER  
 PO BOX 37  
 DOUGLAS, NB

REF # 19742787 BOX # 4290  
 LAB # NW182450

SOURCE, NB ROK 200

ROK 080

Date Sampled 10/18/2020

Date Received 10/21/2020

Date Reported 10/18/2020

Nutrient In The Soil	Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
0-4" 9 lb/acre 6-24" 18 lb/acre	Very Low	5.8	6.8	26.3 meq	70.6	5.8	70.6
0-24" 27 lb/acre	Low	6.2	8.2				
0-4" Nitrogen 9 ppm	High						
0-24" Nitrogen 264 ppm	Medium						
0-24" Nitrogen 368 lb/acre	Low						
0-8" Phosphorus 120 +lb/acre 6-24" 360 +lb/acre	Very High						
0-4" Potassium 9 ppm	High						
0-24" Potassium 264 ppm	Medium						
0-24" Potassium 368 lb/acre	Low						
0-4" Sulfur 0.9 ppm	High						
0-24" Sulfur 1.93 ppm	Medium						
0-4" Zinc 58.7 ppm	High						
0-24" Zinc 12.5 ppm	Medium						
0-4" Iron 0.88 ppm	High						
0-24" Iron 675 ppm	Medium						
0-4" Manganese 3702 ppm	High						
0-24" Manganese 120 ppm	Medium						
0-4" Copper 4.8 %	High						
0-24" Copper 1.6 %	Medium						
0-4" Magnesium 0.88 mmho/cm	High						
0-24" Magnesium 2.28 mmho/cm	Medium						
0-4" Calcium 4.8 %	High						
0-24" Calcium 1.6 %	Medium						
0-4" Sodium 0.88 mmho/cm	High						
0-24" Sodium 2.28 mmho/cm	Medium						
0-4" Organic Matter 4.8 %	High						
0-24" Organic Matter 1.6 %	Medium						
0-4" Carbonate(CCE)							
0-24" Carbonate(CCE)							

Soil Salts

General Comments: Medium-textured (CEC: 11-30 meq)  
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.  
 Crop 1: Limited data on crop response to chloride. \*CAUTION: Seed-placed fertilizer can cause injury. \* Previous crop nitrogen credit may be adjusted for local conditions. 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. \* Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 50 K2O = 30 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. \* Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 39 K2O = 39 AGVISE Band guideline will build P & K test levels to the medium range over several years.