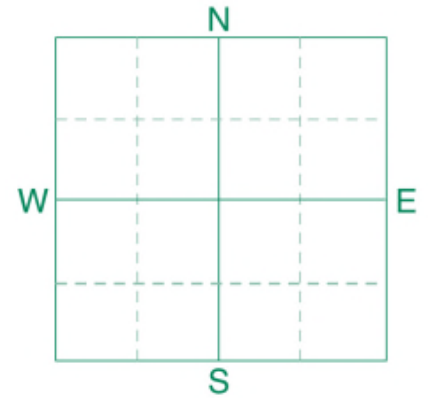




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 Benson: (320) 843-4109

### SOIL TEST REPORT

FIELD ID **8847**  
 SAMPLE ID  
 FIELD NAME **Bronson Dairy**  
 COUNTY  
 TWP **SWSE 14-8-5e** RANGE  
 SECTION QTR ACRES **222**  
 PREV. CROP **Oat Silage**



SUBMITTED FOR:  
**Ernest Hiebert**

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

REF # **2941415** BOX # **5965**  
 LAB # **NW49880**

Date Sampled **08/05/2020**

Date Received **08/06/2020**

Date Reported **11/9/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice							
		VLow	Low	Med	High												
Nitrate	0-6" 6-24"	19 lb/acre 9 lb/acre	*****	*****													
	0-24"	28 lb/acre															
Olsen Phosphorus	23 ppm	*****	*****	*****	*****	N	180	N		N							
Potassium	496 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	27	Band *	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>							
Chloride						K <sub>2</sub> O	10	Band (2x2) *	K <sub>2</sub> O	K <sub>2</sub> O							
Sulfur	0-6" 6-24"	26 lb/acre 78 lb/acre	*****	*****	*****	Cl			Cl	Cl							
Boron						S	0		S	S							
Zinc	2.19 ppm		*****	*****	*****	B			B	B							
Iron						Zn	0		Zn	Zn							
Manganese						Fe			Fe	Fe							
Copper						Mn			Mn	Mn							
Magnesium	1863 ppm		*****	*****	*****	Cu			Cu	Cu							
Calcium	6298 ppm		*****	*****	*****	Mg	0		Mg	Mg							
Sodium	70 ppm		*****	*****	*****	Lime			Lime	Lime							
Org.Matter	6.0 %		*****	*****	*****												
Carbonate(CCE)																	
Sol. Salts	0-6" 6-24"	0.5 mmho/cm 0.57 mmho/cm	*****	*****	*****	Soil pH	8.0 8.5	Buffer pH		Cation Exchange Capacity	48.6 meq	% Base Saturation (Typical Range)	% Ca	% Mg	% K	% Na	% H
												(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
												64.8	32.0	2.6	0.6	0.0	

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

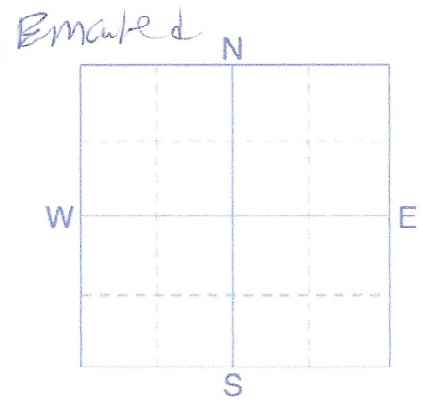
Crop 1: \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 72 K2O = 166  
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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### SOIL TEST REPORT

FIELD ID **15**  
 SAMPLE ID  
 FIELD NAME **15**  
 COUNTY  
 TWP **8** RANGE **5E**  
 SECTION **11** QTR **NE** ACRES **130**  
 PREV. CROP



**SUBMITTED FOR:**  
**Lester Penner**  
**Box 40 RR1**  
**Ste. Anne, MB R5H 1R1**

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

REF # **3143029** BOX # **681**  
 LAB # **NW211523**

Date Sampled

Date Received **11/09/2020**

Date Reported **11/12/2020**

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" 6-24"	16 lb/acre 33 lb/acre	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL	
	0-24"	49 lb/acre	*****	*****	*****	60 BU		45 BU		40 BU	
			*****	*****	*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
						Band		Band/Maint.		Broadcast/Maint.	
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Phosphorus	Olsen	19 ppm	*****	*****	*****	N	113	N	109	N	***
Potassium		478 ppm	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	41	Band *
Chloride	0-24"	36 lb/acre	*****	*****	*****	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0	
Sulfur	0-6" 6-24"	10 lb/acre 60 lb/acre	*****	*****	*****	Cl	4		Cl		Not Available
Boron		1.2 ppm	*****	*****	*****	S	7	Band (Trial)	S	17	Band
Zinc		3.89 ppm	*****	*****	*****	B	0		B	0	
Iron		41.4 ppm	*****	*****	*****	Zn	0		Zn	0	
Manganese		2.1 ppm	*****	*****	*****	Fe	0		Fe	0	
Copper		2.66 ppm	*****	*****	*****	Mn	0		Mn	0	
Magnesium		2013 ppm	*****	*****	*****	Cu	0		Cu	0	
Calcium		6719 ppm	*****	*****	*****	Mg	0		Mg	0	
Sodium		60 ppm	*****	***		Lime			Lime		
Org. Matter		5.7 %	*****	*****	*****	Soil pH		Buffer pH		Cation Exchange Capacity	
Carbonate(CCE)		2.5 %	*****	*****	*****	0-6" 7.6		6-24" 7.9		51.9 meq	
Sol. Salts	0-6" 6-24"	0.53 mmho/cm 0.57 mmho/cm	*****	*****	*****					% Base Saturation (Typical Range)	
			*****	*****	*****					% Ca % Mg % K % Na % H	
			*****	*****	*****					(65-75) (15-20) (1-7) (0-5) (0-5)	
			*****	*****	*****					64.8 32.3 2.4 0.5 0.0	

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

Crop 1: 8 lb potassium chloride (0-0-60-50Cl) = 4 lb chloride. \*CAUTION: Seed-placed fertilizer can cause injury.\* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

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

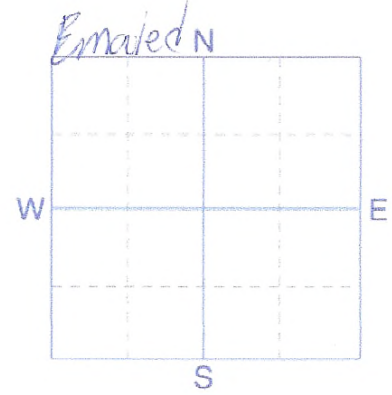
Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then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



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### SOIL TEST REPORT

FIELD ID **Lanmark Home**  
 SAMPLE ID  
 FIELD NAME  
 COUNTY **5**  
 TWP **8** RANGE  
 SECTION **13** QTR **SW** ACRES **0.136**  
 PREV. CROP



**SUBMITTED FOR:**  
**Lorne Bartel**

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

REF # **3143065** BOX # **676**  
 LAB # **NW211525**

Date Sampled

Date Received **11/09/2020**

Date Reported **11/12/2020**

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" 6-24"	16 lb/acre 27 lb/acre	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL						
	0-24"	43 lb/acre	*****				60 BU		45 BU		40 BU						
			*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES						
			*****				Band		Band/Maint.		Broadcast/Maint.						
			*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION					
Phosphorus	Olsen	25 ppm	*****				N	119	N	115	N	***					
Potassium		462 ppm	*****				P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	41	Band *	P <sub>2</sub> O <sub>5</sub>	30	Broadcast		
Chloride	0-24"	72 lb/acre	*****				K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0		K <sub>2</sub> O	0			
Sulfur	0-6" 6-24"	38 lb/acre 54 lb/acre	*****				Cl	0		Cl		Not Available	Cl	0			
Boron		1.1 ppm	*****				S	0		S	15	Band	S	0			
Zinc		1.15 ppm	*****				B	0		B	0		B	0			
Iron		41.5 ppm	*****				Zn	0		Zn	0		Zn	0			
Manganese		1.6 ppm	*****				Fe	0		Fe	0		Fe	0			
Copper		2.6 ppm	*****				Mn	0		Mn	0		Mn	0			
Magnesium		2171 ppm	*****				Cu	0		Cu	0		Cu	0			
Calcium		6871 ppm	*****				Mg	0		Mg	0		Mg	0			
Sodium		65 ppm	*****				Lime			Lime			Lime				
Org. Matter		5.6 %	*****				Soil pH		Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)		2.3 %	*****				0-6" 7.4		6-24" 7.9		53.9 meq		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.84 mmho/cm 0.74 mmho/cm	*****										(65-75) 63.7	(15-20) 33.6	(1-7) 2.2	(0-5) 0.5	(0-5) 0.0

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: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

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

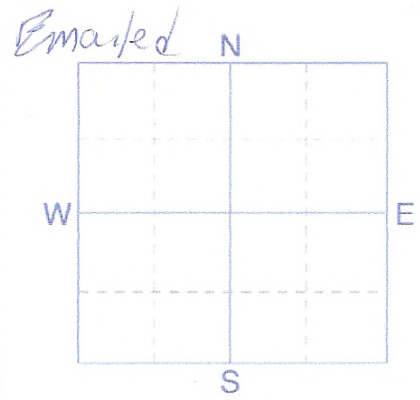
**Crop 3:** May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and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



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### SOIL TEST REPORT

FIELD ID **12 13**  
 SAMPLE ID  
 FIELD NAME **12 13**  
 COUNTY  
 TWP **8** RANGE **5E**  
 SECTION **12** QTR **NW/NE** ACRES **150**  
 PREV. CROP



**SUBMITTED FOR:**  
**Lester Penner**  
**Box 40 RR1**  
**Ste. Anne, MB R5H 1R1**

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

REF # **3143037** BOX # **681**  
 LAB # **NW211524**

Date Sampled

Date Received **11/09/2020**

Date Reported **11/12/2020**

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" 6-24"	*****				YIELD GOAL 60 BU		YIELD GOAL 45 BU		YIELD GOAL 40 BU				
	0-24"	*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
		*****				Band		Band/Maint.		Broadcast/Maint.				
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen Phosphorus	27 ppm	*****				N	50	N	46	N	***			
Potassium	501 ppm	*****				P <sub>2</sub> O <sub>5</sub>	15	P <sub>2</sub> O <sub>5</sub>	41	P <sub>2</sub> O <sub>5</sub>	30			
Chloride	0-24"	*****				Band (Starter)*		Band *		Broadcast				
	0-6" 6-24"	*****				K <sub>2</sub> O	10	K <sub>2</sub> O	0	K <sub>2</sub> O	0			
Sulfur	0-6" 6-24"	*****				Cl	0	Cl	Not Available	Cl	0			
		*****				S	0	S	15	S	10			
Boron	1.2 ppm	*****				B	0	B	0	B	0			
Zinc	3.77 ppm	*****				Zn	0	Zn	0	Zn	0			
Iron	50.7 ppm	*****				Fe	0	Fe	0	Fe	0			
Manganese	2.0 ppm	*****				Mn	0	Mn	0	Mn	0			
Copper	2.72 ppm	*****				Cu	0	Cu	0	Cu	0			
Magnesium	2240 ppm	*****				Mg	0	Mg	0	Mg	0			
Calcium	6692 ppm	*****				Lime		Lime		Lime				
Sodium	68 ppm	*****				Soil pH		Buffer pH		Cation Exchange Capacity				
Org. Matter	5.4 %	*****				0-6" 7.4		53.7 meq		% Base Saturation (Typical Range)				
Carbonate(CCE)	1.7 %	*****				6-24" 7.9				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6"	*****								(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	6-24"	*****								62.3	34.8	2.4	0.6	0.0

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: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

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

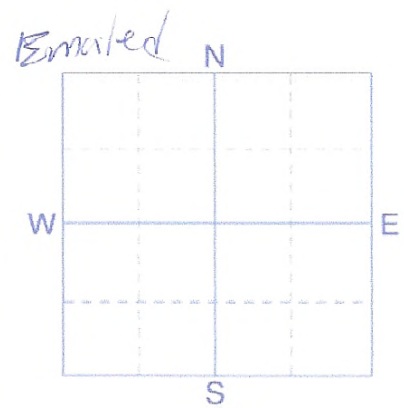
Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P2O5 = 30 K2O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then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



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### SOIL TEST REPORT

FIELD ID **14**  
 SAMPLE ID  
 FIELD NAME **14**  
 COUNTY  
 TWP **8** RANGE **6E**  
 SECTION **7** QTR **NW** ACRES **67**  
 PREV. CROP **Canola-bu**



#### SUBMITTED FOR:

**Lester Penner**  
**Box 40 RR1**

**Ste. Anne, MB**

**R5H 1R1**

#### SUBMITTED BY: TE2728

**RICHARDSON PIONEER-LANDMA**  
**231 MAIN STREET**  
**BOX 70**

**LANDMARK, MB**

**R0A 0X0**

REF # **3145535** BOX # **681**  
 LAB # **NW211541**

Date Sampled

Date Received **11/09/2020**

Date Reported **11/12/2020**

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" 6-24"	80 lb/acre 75 lb/acre	*****	*****	*****	*****	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL	YIELD GOAL				
	0-24"	155 lb/acre	*****	*****	*****	*****	60 BU	45 BU	40 BU	40 BU	40 BU				
			*****	*****	*****	*****	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES				
			*****	*****	*****	*****	Band	Band/Maint.	Broadcast/Maint.	Broadcast/Maint.	Broadcast/Maint.				
	Olsen	33 ppm	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus			*****	*****	*****	*****	N	10	N	3	N	***			
Potassium		521 ppm	*****	*****	*****	*****	P <sub>2</sub> O <sub>5</sub>	15	Band (Starter)*	P <sub>2</sub> O <sub>5</sub>	41	Band *	P <sub>2</sub> O <sub>5</sub>	30	Broadcast
Chloride	0-24"	132 lb/acre	*****	*****	*****	*****	K <sub>2</sub> O	10	Band (Starter)*	K <sub>2</sub> O	0		K <sub>2</sub> O	0	
	0-6" 6-24"	120 +lb/acre 96 lb/acre	*****	*****	*****	*****	Cl	0		Cl	Not Available		Cl	0	
Sulfur			*****	*****	*****	*****	S	0		S	10	Band	S	0	
Boron		1.1 ppm	*****	*****	*****	*****	B	0		B	0		B	0	
Zinc		2.44 ppm	*****	*****	*****	*****	Zn	0		Zn	0		Zn	0	
Iron		50.6 ppm	*****	*****	*****	*****	Fe	0		Fe	0		Fe	0	
Manganese		2.7 ppm	*****	*****	*****	*****	Mn	0		Mn	0		Mn	0	
Copper		2.4 ppm	*****	*****	*****	*****	Cu	0		Cu	0		Cu	0	
Magnesium		2171 ppm	*****	*****	*****	*****	Mg	0		Mg	0		Mg	0	
Calcium		5633 ppm	*****	*****	*****	*****	Lime			Lime			Lime		
Sodium		78 ppm	*****	*****	*****	*****									
Org. Matter		6.3 %	*****	*****	*****	*****									
Carbonate(CCE)		0.7 %	****												
Sol. Salts	0-6" 6-24"	1.2 mmho/cm 0.66 mmho/cm	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
			*****	*****	*****	*****	0-6" 7.0 6-24" 7.8		48.7 meq	% Ca	% Mg	% K	% Na	% H	
										(65-75) 57.8	(15-20) 37.2	(1-7) 2.7	(0-5) 0.7	(0-5) 1.6	

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: P2O5 = 38 K2O = 23 AGVISE Band guideline will build P & K test levels to the medium range over several years.

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

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