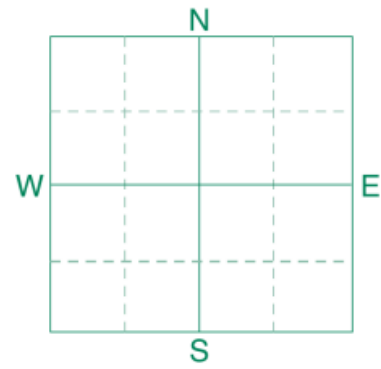




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **7930**
 SAMPLE ID
 FIELD NAME **Jones 2 Chellette**
 COUNTY
 TWP **NE30-8-6eN-Jon2** RANGE
 SECTION QTR ACRES **82**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
Rising Hope Dairy

1

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **2916856** BOX # **5423**
 LAB # **NW38111**

Date Sampled **06/04/2020**

Date Received **06/06/2020**

Date Reported **10/15/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 6-24"	15 lb/acre 18 lb/acre	*****	*****	*****	Grass/Pasture							
	0-24"	33 lb/acre	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
						4 Tons							
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
Phosphorus	Olsen 14 ppm	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium	449 ppm	*****	*****	*****	*****	N	87	N		N			
Chloride						P ₂ O ₅	13 Band *	P ₂ O ₅		P ₂ O ₅			
Sulfur	0-6" 6-24"	32 lb/acre 78 lb/acre	*****	*****	*****	K ₂ O	0	K ₂ O		K ₂ O			
Boron						Cl		Cl		Cl			
Zinc						S	0	S		S			
Iron						B		B		B			
Manganese						Zn		Zn		Zn			
Copper						Fe		Fe		Fe			
Magnesium						Mn		Mn		Mn			
Calcium						Cu		Cu		Cu			
Sodium						Mg		Mg		Mg			
Org. Matter						Lime		Lime		Lime			
Carbonate(CCE)						Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Sol. Salts	0-6" 6-24"	0.71 mmho/cm 0.73 mmho/cm	*****	*****	*****	Buffer pH		% Ca	% Mg	% K	% Na	% H	
						0-6" 8.0							
						6-24" 8.1							

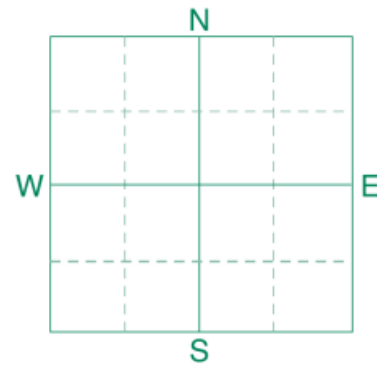
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K20 = 180
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7927**
 SAMPLE ID
 FIELD NAME **Jones 3 Chellete**
 COUNTY
 TWP **SW31-8-6eS-Jon3** RANGE
 SECTION QTR ACRES **75**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Rising Hope Dairy

2

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **3026249** BOX # **10398**
 LAB # **NW101323**

Date Sampled **09/21/2020**

Date Received **09/23/2020**

Date Reported **9/28/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Corn-Silage								
Nitrate	0-6" 6-24"	45 lb/acre 39 lb/acre				YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	84 lb/acre	*****	*****	*****	20 Tons								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 29 ppm	*****	*****	*****	*****	N	124	N		N				
Potassium	327 ppm	*****	*****	*****	*****	P ₂ O ₅	15 Band (2x2) *	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	28 lb/acre 48 lb/acre	*****	*****	*****	Cl		Cl		Cl				
Boron						S	5 Band (Trial)	S		S				
Zinc	2.22 ppm	*****	*****	*****	*****	B		B		B				
Iron						Zn	0	Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium	1344 ppm	*****	*****	*****	*****	Cu		Cu		Cu				
Calcium	8003 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg				
Sodium	69 ppm	*****	*****	*****	*****	Lime		Lime		Lime				
Org. Matter	7.0 %	*****	*****	*****	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						0-6"	8.0	Buffer pH		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.79 mmho/cm 0.69 mmho/cm	*****	*****	*****	6-24"	8.3		52.4 meq	(65-75) 76.4	(15-20) 21.4	(1-7) 1.6	(0-5) 0.6	(0-5) 0.0

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

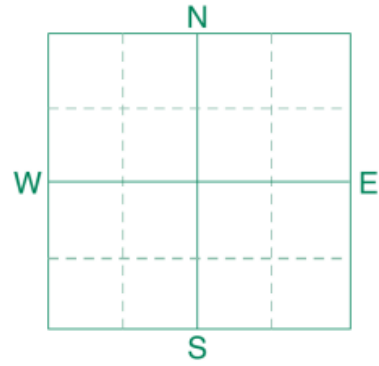
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K20 = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7918**
 SAMPLE ID
 FIELD NAME **Jones 6 Alvin Plett**
 COUNTY
 TWP **SW6-9-** RANGE
6eN-Jone6
 SECTION QTR ACRES **148**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Rising Hope Dairy

3

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

REF # **3060092** BOX # **4762**
 LAB # **NW126796**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	13 lb/acre 9 lb/acre	*****			Corn-Silage								
	0-24"	22 lb/acre				YIELD GOAL		YIELD GOAL		YIELD GOAL				
						20 Tons								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
Olsen	31 ppm	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus						N	186	N		N				
Potassium	338 ppm	*****	*****	*****	*****	P ₂ O ₅	15 Band (2x2) *	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	18 lb/acre 42 lb/acre	*****	*****	*****	Cl		Cl		Cl				
Boron						S	5 Band (Trial)	S		S				
Zinc	0.78 ppm	*****	*****	*****	*****	B		B		B				
Iron						Zn	1 Band	Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium	1283 ppm	*****	*****	*****	*****	Cu		Cu		Cu				
Calcium	6717 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg				
Sodium	52 ppm	*****	*****	*****	*****	Lime		Lime		Lime				
Org. Matter	7.2 %	*****	*****	*****	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.55 mmho/cm 0.58 mmho/cm	*****	*****	*****	0-6"	8.1	45.4 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
						6-24"	8.3		74.0	23.6	1.9	0.5	0.0	

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

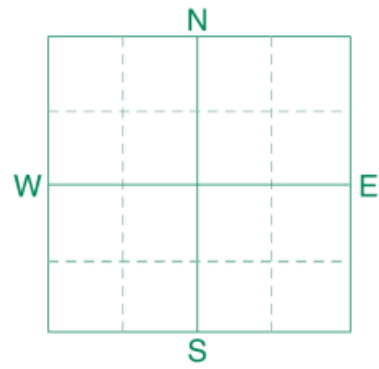
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7928**
 SAMPLE ID
 FIELD NAME **Jones 1 Rising Hope**
 COUNTY
 TWP **NW30-8-6e-Jon1** RANGE
 SECTION QTR ACRES **126**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
Rising Hope Dairy

4

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **2916855** BOX # **5423**
 LAB # **NW38110**

Date Sampled **06/04/2020**

Date Received **06/06/2020**

Date Reported **10/15/2020**

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 42 lb/acre	*****	*****	*****	*****	Grass/Pasture		YIELD GOAL		YIELD GOAL			
	0-24"	61 lb/acre	*****	*****	*****	*****	4 Tons		YIELD GOAL		YIELD GOAL			
			*****	*****	*****	*****	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			*****	*****	*****	*****	Band		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	29 ppm	*****	*****	*****	N	59	N		N				
Potassium		584 ppm	*****	*****	*****	P ₂ O ₅	0	P ₂ O ₅		P ₂ O ₅				
Chloride			*****	*****	*****	K ₂ O	0	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	30 lb/acre 96 lb/acre	*****	*****	*****	Cl		Cl		Cl				
Boron			*****	*****	*****	S	0	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"	0.7 mmho/cm 0.69 mmho/cm	*****	*****	*****	0-6"	7.9							
			*****	*****	*****	6-24"	8.1							

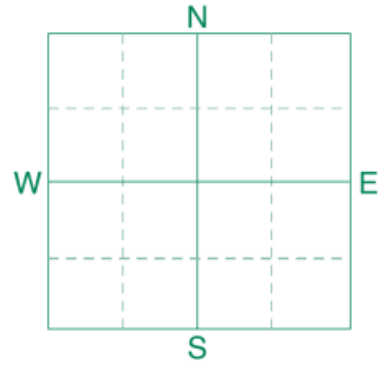
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K2O = 180
AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories
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SOIL TEST REPORT

FIELD ID **8825**
 SAMPLE ID
 FIELD NAME **Aletta**
 COUNTY
 TWP **NW 26-9-5e** RANGE
 SECTION QTR ACRES **157**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy

5

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

REF # **3060159** BOX # **4914**
 LAB # **NW126800**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Corn-Grain							
Nitrate	0-6" 6-24"	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	14 lb/acre 9 lb/acre					160 BU							
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
	23 lb/acre					Band		Band		Band			
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
	Olsen 12 ppm					N	139	N		N			
Phosphorus						P ₂ O ₅	40 Band *	P ₂ O ₅		P ₂ O ₅			
Potassium	461 ppm					K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O			
Chloride						Cl		Cl		Cl			
	0-6" 6-24"					S	0	S		S			
Sulfur	18 lb/acre 84 lb/acre					B		B		B			
Boron						Zn	0	Zn		Zn			
Zinc	1.36 ppm					Fe		Fe		Fe			
Iron						Mn		Mn		Mn			
Manganese						Cu		Cu		Cu			
Copper						Mg	0	Mg		Mg			
Magnesium	1903 ppm					Lime		Lime		Lime			
Calcium	4302 ppm												
Sodium	61 ppm												
Org. Matter	6.9 %												
Carbonate(CCE)													
	0-6" 6-24"					Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts	0.88 mmho/cm 0.72 mmho/cm					0-6" 7.0		39.4 meq	% Ca (65-75)	% Mg (15-20)	% K (1-7)	% Na (0-5)	% H (0-5)
						6-24" 8.0			54.6	40.2	3.0	0.7	1.6

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

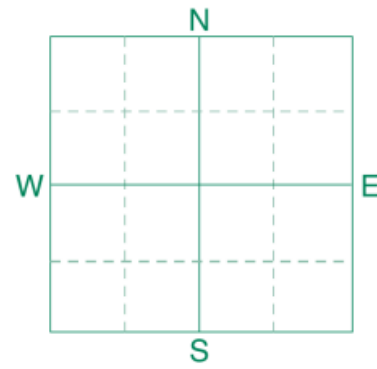
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7925**
 SAMPLE ID
 FIELD NAME **Jones 5 Kevin Plett**
 COUNTY
 TWP **SE36-8-5eS-Jon5** RANGE
 SECTION QTR ACRES **80**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Rising Hope Dairy

6

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

REF # **3026252** BOX # **10346**
 LAB # **NW101324**

Date Sampled **09/21/2020**

Date Received **09/23/2020**

Date Reported **9/28/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Corn-Silage								
Nitrate	0-6" 6-24"	36 lb/acre 39 lb/acre	*****	*****	*****	YIELD GOAL			YIELD GOAL			YIELD GOAL		
	0-24"	75 lb/acre	*****	*****	*****	20 Tons								
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band								
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Phosphorus	Olsen	25 ppm	*****	*****	*****	N	133		N			N		
Potassium		364 ppm	*****	*****	*****	P ₂ O ₅	22	Band *	P ₂ O ₅			P ₂ O ₅		
Chloride						K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O		
						Cl			Cl			Cl		
Sulfur	0-6" 6-24"	36 lb/acre 30 lb/acre	*****	*****	*****	S	0		S			S		
Boron						B			B			B		
Zinc		2.36 ppm	*****	*****	*****	Zn	0		Zn			Zn		
Iron						Fe			Fe			Fe		
Manganese						Mn			Mn			Mn		
Copper						Cu			Cu			Cu		
Magnesium		1260 ppm	*****	*****	*****	Mg	0		Mg			Mg		
Calcium		7726 ppm	*****	*****	*****	Lime			Lime			Lime		
Sodium		40 ppm	*****											
Org. Matter		7.2 %	*****											
Carbonate(CCE)														
Sol. Salts	0-6" 6-24"	0.79 mmho/cm 0.67 mmho/cm	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
						0-6" 8.0		50.2 meq	% Ca	% Mg	% K	% Na	% H	
						6-24" 8.3			(65-75) 76.9	(15-20) 20.9	(1-7) 1.9	(0-5) 0.3	(0-5) 0.0	

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

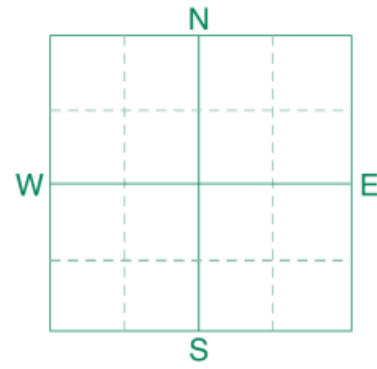
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7926**
 SAMPLE ID
 FIELD NAME **Jones 4 Kevin Plett**
 COUNTY
 TWP **NE25-8-5eN-Jon4** RANGE
 SECTION QTR ACRES **78**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
Rising Hope Dairy

7

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

REF # **2916854** BOX # **5423**
 LAB # **NW38109**

Date Sampled **06/04/2020**

Date Received **06/06/2020**

Date Reported **6/8/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Grass/Pasture								
Nitrate	0-6" 6-24"	18 lb/acre 18 lb/acre	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	36 lb/acre				4 Tons								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Olsen Phosphorus	22 ppm	*****	*****	*****	*****	N	84	N		N				
Potassium	489 ppm	*****	*****	*****	*****	P ₂ O ₅	0	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	0	K ₂ O		K ₂ O				
						Cl		Cl		Cl				
Sulfur	0-6" 6-24"	16 lb/acre 324 lb/acre	*****	*****	*****	S	0	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														
Org.Matter														
Carbonate(CCE)														
						Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
						Buffer pH				% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.7 mmho/cm 0.89 mmho/cm	*****	*****	*****	0-6"	7.9							
						6-24"	8.0							

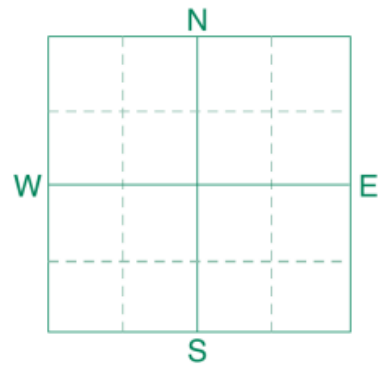
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 48 K20 = 180
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



Soil Analysis by Agvise Laboratories
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SOIL TEST REPORT

FIELD ID **8231**
 SAMPLE ID
 FIELD NAME **Alvin's Crops**
 COUNTY
 TWP **SE 31-8-6e** RANGE
S
 SECTION QTR ACRES **82**
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:
Rising Hope Dairy

8

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **2880729** BOX # **4419**
 LAB # **NW24164**

Date Sampled **04/27/2020**

Date Received **04/28/2020**

Date Reported **10/15/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Corn-Grain								
Nitrate	0-6" 6-24"	12 lb/acre 15 lb/acre	*****	*****		YIELD GOAL	YIELD GOAL		YIELD GOAL					
	0-24"	27 lb/acre				160 BU								
						SUGGESTED GUIDELINES	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	15 ppm	*****	*****	*****	N	165	N		N				
Potassium		412 ppm	*****	*****	*****	P ₂ O ₅	27 Band *	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	20 lb/acre 72 lb/acre	*****	*****	*****	Cl		Cl		Cl				
Boron						S	0	S		S				
Zinc		0.82 ppm	*****	*****	*****	B		B		B				
Iron						Zn	1 Band	Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper						Mn		Mn		Mn				
Magnesium		1423 ppm	*****	*****	*****	Cu		Cu		Cu				
Calcium		8271 ppm	*****	*****	*****	Mg	0	Mg		Mg				
Sodium		65 ppm	*****	*****	*****	Lime		Lime		Lime				
Org. Matter		4.9 %	*****	*****	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)						0-6"	8.0	Buffer pH		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.9 mmho/cm 0.86 mmho/cm	*****	*****	*****	6-24"	8.1		54.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

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

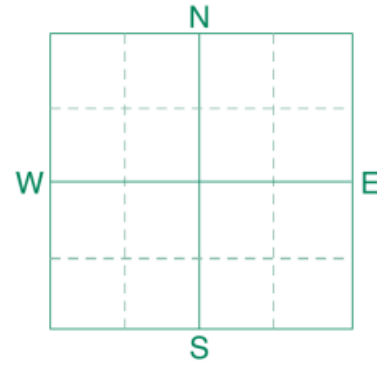
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 59 K2O = 37
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7924**
 SAMPLE ID
 FIELD NAME **Alvin's Crops**
 COUNTY
 TWP **NW 25-8-5e** RANGE
S
 SECTION QTR ACRES **59**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Rising Hope Dairy

9

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

REF # **3060079** BOX # **4990**
 LAB # **NW126795**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice					
		VLow	Low	Med	High	Corn-Silage											
Nitrate	0-6" 6-24"	16 lb/acre 18 lb/acre	*****	*****	*****	YIELD GOAL			YIELD GOAL			YIELD GOAL					
	0-24"	34 lb/acre	*****	*****	*****	20 Tons											
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
						Band			Band			Band					
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION				
Phosphorus	Olsen	11 ppm	*****	*****	*****	N	174		N			N					
Potassium		356 ppm	*****	*****	*****	P ₂ O ₅	56	Band *	P ₂ O ₅			P ₂ O ₅					
Chloride						K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O					
Sulfur	0-6" 6-24"	10 lb/acre 24 lb/acre	*****	*****	*****	Cl			Cl			Cl					
Boron						S	7	Band (Trial)	S			S					
Zinc		0.92 ppm	*****	*****	*****	B			B			B					
Iron						Zn	1	Band	Zn			Zn					
Manganese						Fe			Fe			Fe					
Copper						Mn			Mn			Mn					
Magnesium		1351 ppm	*****	*****	*****	Cu			Cu			Cu					
Calcium		7924 ppm	*****	*****	*****	Mg	0		Mg			Mg					
Sodium		56 ppm	*****	*****	*****	Lime			Lime			Lime					
Org. Matter		6.5 %	*****	*****	*****	Soil pH			Buffer pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)						0-6" 8.1			0-6" 8.1			% Ca			% Mg		
Sol. Salts	0-6" 6-24"	0.63 mmho/cm 0.65 mmho/cm	*****	*****	*****	6-24" 8.3			6-24" 8.3			(65-75)			(15-20)		
												76.1			21.6		
												(1-7)			(0-5)		
												1.8			0.5		
												(0-5)			0.0		

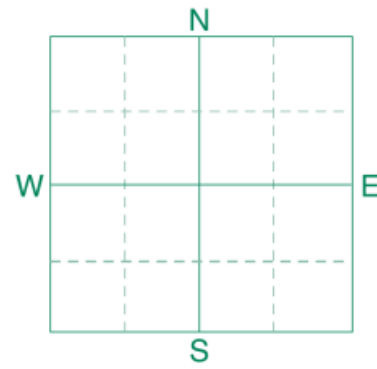
General Comments: Soil texture is not estimated on high pH soils.
 Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8662**
 SAMPLE ID
 FIELD NAME **Dorge**
 COUNTY
 TWP **W 28-9-5e** RANGE
 SECTION QTR ACRES **321**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Aletta Holsteins

10

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

REF # **3125094** BOX # **3353**
 LAB # **NW176021**

Date Sampled **10/15/2020**

Date Received **10/17/2020**

Date Reported **10/22/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Corn-Silage							
	0-6" 6-24"					YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				20 Tons							
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	Olsen 13 ppm					N	167	N		N			
Phosphorus	392 ppm					P ₂ O ₅	51 Band *	P ₂ O ₅		P ₂ O ₅			
Potassium						K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O			
Chloride						Cl		Cl		Cl			
	0-6" 6-24"					S	0	S		S			
Sulfur	120 +lb/acre 342 lb/acre					B		B		B			
Boron						Zn	1 Band	Zn		Zn			
Zinc	0.73 ppm					Fe		Fe		Fe			
Iron						Mn		Mn		Mn			
Manganese						Cu		Cu		Cu			
Copper	2302 ppm					Mg	0	Mg		Mg			
Magnesium	5332 ppm					Lime		Lime		Lime			
Calcium	109 ppm					Soil pH Buffer pH Cation Exchange Capacity		% Base Saturation (Typical Range)					
Sodium	5.9 %							% Ca	% Mg	% K	% Na	% H	
Org.Matter						0-6" 8.0		47.3 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
Carbonate(CCE)						6-24" 8.3			56.3	40.5	2.1	1.0	0.0
Sol. Salts	0-6" 6-24"												
	0.99 mmho/cm 0.89 mmho/cm												

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

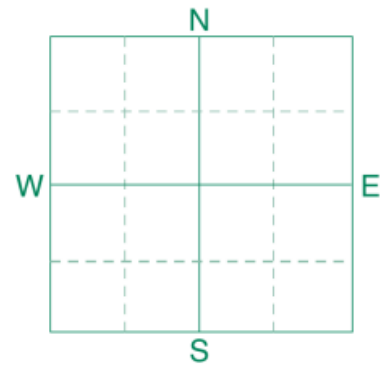
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8876**
 SAMPLE ID
 FIELD NAME **Steven Plett**
 COUNTY
 TWP **SE 24-8-5e** RANGE
 SECTION QTR ACRES **143**
 PREV. CROP **Alfalfa**



SUBMITTED FOR:
Rising Hope Dairy

11

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **3060109** BOX # **4755**
 LAB # **NW126798**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/15/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 6-24"	12 lb/acre 9 lb/acre	*****			Alfalfa							
						YIELD GOAL		YIELD GOAL			YIELD GOAL		
						3 Tons							
	0-24"	21 lb/acre				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	8 ppm	*****	*****		N	0	N		N			
Potassium		347 ppm	*****	*****	*****	P ₂ O ₅	31	Band *	P ₂ O ₅		P ₂ O ₅		
Chloride						K ₂ O	15	Band (Starter)*	K ₂ O		K ₂ O		
Sulfur	0-6" 6-24"	14 lb/acre 18 lb/acre	*****	*****	*****	Cl			Cl				
Boron						S	7	Band (Trial)	S				
Zinc						B			B				
Iron						Zn			Zn				
Manganese						Fe			Fe				
Copper						Mn			Mn				
Magnesium						Cu			Cu				
Calcium						Mg			Mg				
Sodium						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"	0.58 mmho/cm 0.54 mmho/cm	*****	*****	*****	0-6" 8.0							
						6-24" 8.4							

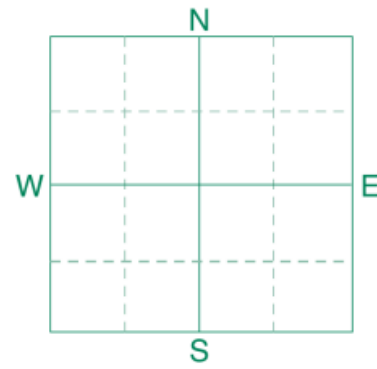
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 25 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 30 K2O = 150 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8875**
 SAMPLE ID
 FIELD NAME **Steven Plett**
 COUNTY
 TWP **RL 3** RANGE
 SECTION QTR ACRES **111**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy

12

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

REF # **3060103** BOX # **4914**
 LAB # **NW126797**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice				
		VLow	Low	Med	High	Corn-Grain										
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL				
	0-24"	*****				160 BU										
		*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
		*****				Band			Band			Band				
		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION			
Phosphorus	Olsen 8 ppm	*****				N	144		N			N				
Potassium	356 ppm	*****				P ₂ O ₅	56	Band *	P ₂ O ₅			P ₂ O ₅				
Chloride		*****				K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O				
Sulfur	0-6" 6-24"	*****				Cl			Cl			Cl				
Boron		*****				S	10	Band	S			S				
Zinc	0.93 ppm	*****				B			B			B				
Iron		*****				Zn	1	Band	Zn			Zn				
Manganese		*****				Fe			Fe			Fe				
Copper		*****				Mn			Mn			Mn				
Magnesium	1648 ppm	*****				Cu			Cu			Cu				
Calcium	5854 ppm	*****				Mg	0		Mg			Mg				
Sodium	37 ppm	*****				Lime			Lime			Lime				
Org. Matter	6.5 %	*****				Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)				
Carbonate(CCE)		*****				Buffer pH					% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-24"	*****				0-6"	7.8		44.1 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
		*****				6-24"	8.3				66.4	31.2	2.1	0.4	0.0	

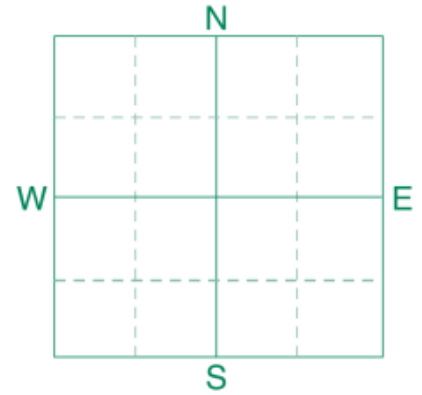
General Comments: Soil texture is not estimated on high pH soils.
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **RD-13**
 SAMPLE ID
 FIELD NAME **Barnabee's**
 COUNTY
 TWP **08** RANGE **06E**
NW 27
 SECTION **28** QTR & PT. ACRES **175**
NE



SUBMITTED FOR:
Dueck, Ryan

Box 330
 Blumenort, MB

13
 ROA 0C0

SUBMITTED BY: **TO0533**

TONE AG CONSULTING LTD.
 31022 RAT RIVER RD
 PO BOX 557
 ST PIERRE JOLYS, MB ROA 1V0

REF # **2802871** BOX # **10779**
 LAB # **NW147776**

Date Sampled **11/08/2019**

Date Received **11/13/2019**

Date Reported **8/12/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 13 lb/acre					Corn-Grain							
	6-24" 15 lb/acre					YIELD GOAL		YIELD GOAL		YIELD GOAL			
		*****				140 BU							
	0-24" 28 lb/acre					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band/Maint.							
Olsen Phosphorus	14 ppm	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium	330 ppm	*****	*****	*****	*****	N 110		N		N			
Chloride						P ₂ O ₅ 52	Band *	P ₂ O ₅		P ₂ O ₅			
Sulfur	0-6" 38 lb/acre	*****	*****	*****	*****	K ₂ O 10	Band (2x2) *	K ₂ O		K ₂ O			
Boron						Cl		Cl		Cl			
Zinc	0.70 ppm	*****	*****	*****	*****	S 0		S		S			
Iron						B		B		B			
Manganese						Zn 1	Band	Zn		Zn			
Copper	2.6 ppm	*****	*****	*****	*****	Fe		Fe		Fe			
Magnesium						Mn		Mn		Mn			
Calcium						Cu 0		Cu		Cu			
Sodium						Mg		Mg		Mg			
Org.Matter	8.8 %	*****	*****	*****	*****	Lime		Lime		Lime			
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)			
								% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 0.64 mmho/cm	*****	*****	*****	*****	0-6" 7.9							
	6-24" 0.71 mmho/cm	*****	*****	*****	*****	6-24" 8.3							

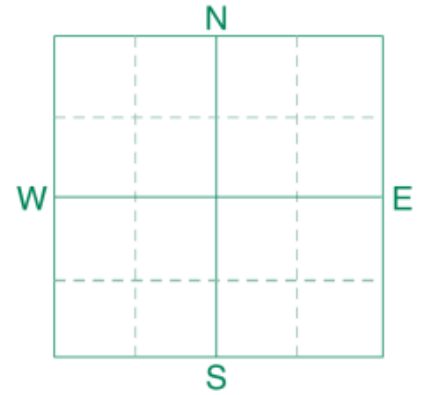
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 52 K2O = 32 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



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

SOIL TEST REPORT

FIELD ID **RD-22**
 SAMPLE ID
 FIELD NAME **LANDMARK**
 COUNTY
 TWP **08** RANGE **05E**
 SECTION **24** QTR **WSW** ACRES **80**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Dueck, Ryan

Box 330
 Blumenort, MB

14
 ROA 0C0

SUBMITTED BY: **TO0533**

TONE AG CONSULTING LTD.
31022 RAT RIVER RD
PO BOX 557
ST PIERRE JOLYS, MB ROA 1V0

REF # **2802874** BOX # **10791**
 LAB # **NW147779**

Date Sampled **11/08/2019**

Date Received **11/13/2019**

Date Reported **8/12/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	*****				Oats								
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
						120 BU								
	0-24"	*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band/Maint.								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 11 ppm	*****				N	57	N		N				
Potassium	437 ppm	*****				P ₂ O ₅	30 Band *	P ₂ O ₅		P ₂ O ₅				
Chloride	0-24" 12 lb/acre	*****				K ₂ O	10 Band (Starter)*	K ₂ O		K ₂ O				
Sulfur	0-6" 12 lb/acre 6-24" 24 lb/acre	*****				Cl	28 Broadcast	Cl		Cl				
Boron						S	7 Band (Trial)	S		S				
Zinc						B		B		B				
Iron						Zn		Zn		Zn				
Manganese						Fe		Fe		Fe				
Copper	1.97 ppm	*****				Mn		Mn		Mn				
Magnesium						Cu	0	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" 0.68 mmho/cm 6-24" 0.5 mmho/cm	*****				0-6" 7.8								
						6-24" 8.2								

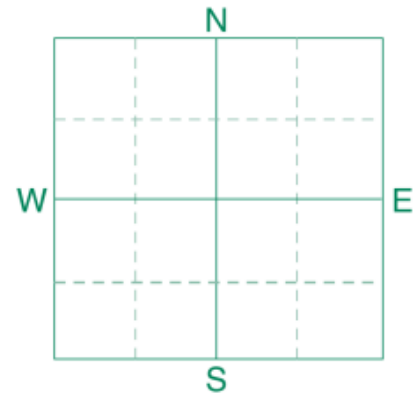
Crop 1: 61 lb potassium chloride (0-0-60-50Cl) = 28 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P₂O₅ = 30 K₂O = 23 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.



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

SOIL TEST REPORT

FIELD ID **C And D**
 SAMPLE ID
 FIELD NAME **C and D**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **160**
 PREV. CROP **Soybeans**



SUBMITTED FOR:

Ken Goossen
BOX 93A RR 1
Ste. Anne, MB

15

R5H 1R1

SUBMITTED BY: TE2728

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

REF # **2445453** BOX # **2357**
 LAB # **NW149900**

Date Sampled

Date Received **10/24/2018**

Date Reported **10/1/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 17 lb/acre					Wheat-Spring		Canola-bu		Soybeans				
	6-24" 27 lb/acre					YIELD GOAL		YIELD GOAL		YIELD GOAL				
		*****	*****	*****		75 BU		45 BU		40 BU				
	0-24" 44 lb/acre					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band/Maint.		Band/Maint.		Broadcast/Maint.				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 11 ppm	*****	*****	*****		N 144		N 99		N ***				
Potassium	420 ppm	*****	*****	*****		P ₂ O ₅ 47	Band *	P ₂ O ₅ 41	Band *	P ₂ O ₅ 45	Broadcast			
Chloride	0-24" 32 lb/acre	*****	*****	*****		K ₂ O 10	Band (Starter)*	K ₂ O 0		K ₂ O 0				
Sulfur	0-6" 24 lb/acre	*****	*****	*****		Cl 8		Cl	Not Available	Cl 0				
Boron	6-24" 90 lb/acre	*****	*****	*****		S 0		S 15	Band	S 10	Broadcast (Trial)			
Zinc	1.3 ppm	*****	*****	*****		B 0		B 0		B 0				
Iron	0.67 ppm	*****	*****	*****		Zn 0		Zn 1	Band	Zn 0				
Manganese	28.5 ppm	*****	*****	*****		Fe 0		Fe 0		Fe 0				
Copper	1.7 ppm	*****	*****	*****		Mn 0		Mn 0		Mn 0				
Magnesium	1.64 ppm	*****	*****	*****		Cu 0		Cu 0		Cu 0				
Calcium	1324 ppm	*****	*****	*****		Mg 0		Mg 0		Mg 0				
Sodium	8157 ppm	*****	*****	*****		Lime		Lime		Lime				
Org.Matter	33 ppm	*****	*****	*****										
Carbonate(CCE)	6.7 %	*****	*****	*****		Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	4.9 %	*****	*****	*****						% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 0.39 mmho/cm	*****	*****	*****		0-6" 8.1		53.0 meq		(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
	6-24" 0.43 mmho/cm	*****	*****	*****		6-24" 8.2				76.9	20.8	2.0	0.3	0.0

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

Crop 1: 17 lb potassium chloride (0-0-60-50Cl) = 8 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P₂O₅ = 47 K₂O = 28 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

Crop 2: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P₂O₅ = 41 K₂O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

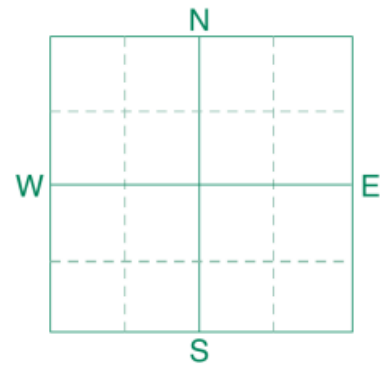
Crop 3: Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P₂O₅ = 30 K₂O = 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.



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

SOIL TEST REPORT

FIELD ID **7919**
 SAMPLE ID
 FIELD NAME **Jason Goossen**
 COUNTY
 TWP **E 1-9-5e** RANGE
 SECTION QTR ACRES **110**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy

16

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

REF # **3060120** BOX # **4755**
 LAB # **NW126799**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice			
		VLow	Low	Med	High	Corn-Grain									
Nitrate	0-6" 6-24"	*****				YIELD GOAL			YIELD GOAL			YIELD GOAL			
	0-24"	*****				160 BU									
Phosphorus	Olsen	*****				SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
		*****				Band			Band			Band			
Potassium		*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		
		*****				N	142		N			N			
Chloride		*****				P ₂ O ₅	44	Band *	P ₂ O ₅			P ₂ O ₅			
		*****				K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O			
Sulfur	0-6" 6-24"	*****				Cl			Cl			Cl			
		*****				S	0		S			S			
Zinc		*****				B			B			B			
		*****				Zn	1	Band	Zn			Zn			
Iron		*****				Fe			Fe			Fe			
		*****				Mn			Mn			Mn			
Magnesium		*****				Cu			Cu			Cu			
		*****				Mg	0		Mg			Mg			
Calcium		*****				Lime			Lime			Lime			
		*****				Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)			
Sodium		*****				Buffer pH			% Ca	% Mg	% K	% Na	% H		
		*****				0-6"	8.1		49.9 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
Org.Matter		*****				6-24"	8.4		74.1	23.3	2.1	0.5	0.0		
		*****				Sol. Salts									

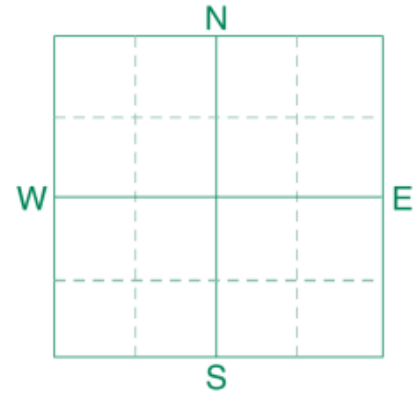
General Comments: Soil texture is not estimated on high pH soils.
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **Siwicki South**
 SAMPLE ID
 FIELD NAME **Siwicki South**
 COUNTY
 TWP **8** RANGE **5E**
 SECTION **36** QTR **NE** ACRES **80**
 PREV. CROP **Corn-Grain**



SUBMITTED FOR:

Jason Goossen
Box 1508 Grp 15 RR1
Ste. Anne, MB

17
R5H 1R1

SUBMITTED BY: TE2728

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

REF # **2692079** BOX # **897**
 LAB # **NW66131**

Date Sampled

Date Received **09/12/2019**

Date Reported **8/12/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
		VLow	Low	Med	High	Wheat-Spring		Canola-bu		Canola-bu					
Nitrate	0-6" 6-12"	8 lb/acre 2 lb/acre				YIELD GOAL		YIELD GOAL		YIELD GOAL					
						60 BU		40 BU		44 BU					
	0-12"	10 lb/acre	****			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
						Band		Band/Maint.		Broadcast/Maint.					
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION				
Phosphorus	Olsen	24 ppm	*****	*****	*****	N	147	N	125	N	139				
Potassium		436 ppm	*****	*****	*****	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅	36	Band *	P ₂ O ₅	40	Broadcast	
Chloride	0-6" 6-12"	55 lb/acre 16 lb/acre	*****	*****	*****	K ₂ O	10	Band (Starter)*	K ₂ O	0		K ₂ O	0		
	0-6" 6-12"	62 lb/acre 26 lb/acre	*****	*****	*****	Cl	0		Cl		Not Available	Cl		Not Available	
Boron		1.1 ppm	*****	*****	*****	S	0		S	10	Band	S	10	Broadcast	
Zinc		0.56 ppm	*****	*****	*****	B	0		B	0		B	0		
Iron		16.6 ppm	*****	*****	*****	Zn	0		Zn	1	Band	Zn	1	Broadcast	
Manganese		1.0 ppm	*****	*****	*****	Fe	0		Fe	0		Fe	0		
Copper		1.36 ppm	*****	*****	*****	Mn	2	Band	Mn	2	Band	Mn	2	Broadcast	
Magnesium		1457 ppm	*****	*****	*****	Cu	0		Cu	0		Cu	0		
Calcium		8282 ppm	*****	*****	*****	Mg	0		Mg	0		Mg	0		
Sodium		76 ppm	*****	*****	*****	Lime			Lime			Lime			
Org.Matter		5.4 %	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)					
Carbonate(CCE)		6.8 %	*****	*****	*****					% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-12"	0.94 mmho/cm 0.72 mmho/cm	*****	*****	*****	0-6"	8.1			55.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
						6-24"	8.2				75.3	22.1	2.0	0.6	0.0

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

Crop 1: Soil nitrate for 0-24 inch depth is estimated 15 lb/acre nitrate-N. *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. Soil nitrate for 0-24 inch depth is estimated 15 lb/acre nitrate-N. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 36 K2O = 18 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

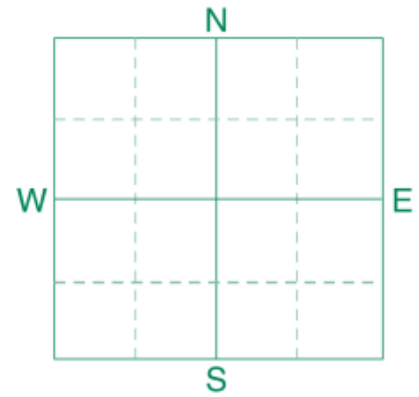
Crop 3: Limited data on crop response to chloride. Soil nitrate for 0-24 inch depth is estimated 15 lb/acre nitrate-N. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 40 K2O = 20 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range 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 **Ben**
 SAMPLE ID
 FIELD NAME **Ben**
 COUNTY
 TWP **8** RANGE **6**
 SECTION **34** QTR **SW** ACRES **122**
 PREV. CROP **Soybeans**



SUBMITTED FOR:

Jason Goossen
Box 1508 Grp 15 RR1
Ste. Anne, MB

18
R5H 1R1

SUBMITTED BY: TE2728

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

REF # **2692078** BOX # **897**
 LAB # **NW66130**

Date Sampled

Date Received **09/12/2019**

Date Reported **8/12/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Wheat-Spring		Canola-bu		Corn-Grain				
Nitrate	0-6" 6-12"	14 lb/acre 2 lb/acre					YIELD GOAL	YIELD GOAL	YIELD GOAL					
			*****				60 BU	45 BU	175 BU					
	0-12"	16 lb/acre					SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES					
							Band	Band/Maint.	Broadcast/Maint.					
							LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	22 ppm	*****	*****	*****	*****	N 123		N 119		N 156			
Potassium		348 ppm	*****	*****	*****	*****	P ₂ O ₅ 15	Band (Starter)*	P ₂ O ₅ 41	Band *	P ₂ O ₅ 65	Broadcast		
Chloride	0-6" 6-12"	390 lb/acre 15 lb/acre	*****	*****	*****	*****	K ₂ O 10	Band (Starter)*	K ₂ O 0		K ₂ O 10	Band (2x2) *		
Sulfur	0-6" 6-12"	120 +lb/acre 18 lb/acre	*****	*****	*****	*****	Cl 0		Cl	Not Available	Cl	Not Available		
Boron		1.0 ppm	*****	*****	*****	*****	S 0		S 10	Band	S 0			
Zinc		1.05 ppm	*****	*****	*****	*****	B 0		B 0		B 0			
Iron		30.1 ppm	*****	*****	*****	*****	Zn 0		Zn 0		Zn 1	Broadcast		
Manganese		0.8 ppm	*****	*****	*****	*****	Fe 0		Fe 0		Fe 0			
Copper		1.42 ppm	*****	*****	*****	*****	Mn 2	Band	Mn 2	Band	Mn 2	Broadcast		
Magnesium		1746 ppm	*****	*****	*****	*****	Cu 0		Cu 0		Cu 0			
Calcium		7454 ppm	*****	*****	*****	*****	Mg 0		Mg 0		Mg 0			
Sodium		211 ppm	*****	*****	*****	*****	Lime		Lime		Lime			
Org.Matter		5.4 %	*****	*****	*****	*****								
Carbonate(CCE)		1.7 %	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
										% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-12"	1.19 mmho/cm 0.56 mmho/cm	*****	*****	*****	*****	0-6" 7.5		53.6 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
			*****	*****	*****	*****	6-24" 8.3			69.5	27.1	1.7	1.7	0.0

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

Crop 1: Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 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. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 15 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 41 K2O = 20 AGVISE Band/Maintenance guideline will build P & K test levels to the medium range over several years and then maintain them.

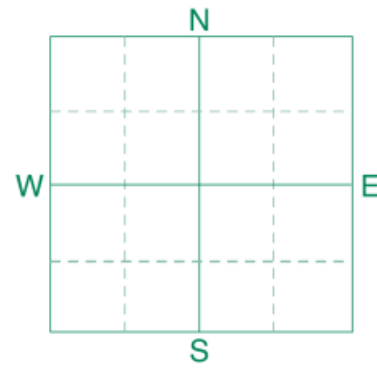
Crop 3: Limited data on crop response to chloride. Soil nitrate for 0-24 inch depth is estimated 24 lb/acre nitrate-N. *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 65 K2O = 40 AGVISE Broadcast/Maintenance guideline 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 **7922**
 SAMPLE ID
 FIELD NAME **Lorne Plett David Penner**
 COUNTY
 TWP **SE 35-8-5e** RANGE
 SECTION QTR ACRES **77**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Rising Hope Dairy

19

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

REF # **3066855** BOX # **4783**
 LAB # **NW126868**

Date Sampled **09/30/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu							
Nitrate	0-6" 6-24"	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"	*****				50 BU							
		*****				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
		*****				Band		Band		Band			
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Olsen Phosphorus	5 ppm	*****				N	92	N		N			
Potassium	246 ppm	*****				P ₂ O ₅	50 Band *	P ₂ O ₅		P ₂ O ₅			
Chloride		*****				K ₂ O	0	K ₂ O		K ₂ O			
		*****				Cl		Cl		Cl			
Sulfur	0-6" 6-24"	*****				S	15 Band	S		S			
Boron		*****				B		B		B			
Zinc	0.50 ppm	*****				Zn	2 Band	Zn		Zn			
Iron		*****				Fe		Fe		Fe			
Manganese		*****				Mn		Mn		Mn			
Copper		*****				Cu		Cu		Cu			
Magnesium	1206 ppm	*****				Mg	0	Mg		Mg			
Calcium	7100 ppm	*****				Lime		Lime		Lime			
Sodium	32 ppm	*****											
Org. Matter	5.1 %	*****											
Carbonate(CCE)		*****											

Sol. Salts	0-6" 6-24"	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
		*****							% Ca	% Mg	% K	% Na	% H
		*****				0-6" 8.2		46.3 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
		*****				6-24" 8.4			76.6	21.7	1.4	0.3	0.0

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

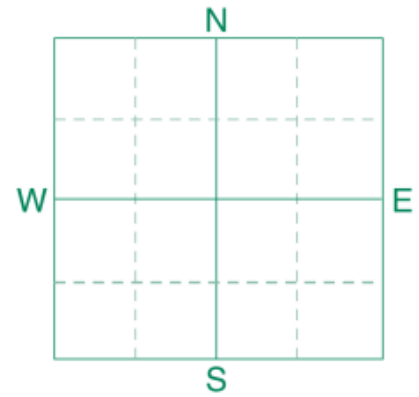
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 45 K2O = 23
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **7921**
 SAMPLE ID
 FIELD NAME **Lorne Plett David Penner**
 COUNTY
 TWP **SW 35-8-5e** RANGE
 SECTION QTR ACRES **143**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy

20

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

REF # **2394933** BOX # **4856**
 LAB # **NW88803**

Date Sampled **09/20/2018**

Date Received **09/21/2018**

Date Reported **9/24/2018**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice		
		VLow	Low	Med	High	Corn-Grain								
Nitrate	0-6" 15 lb/ac					YIELD GOAL			YIELD GOAL			YIELD GOAL		
	6-24" 15 lb/ac	*****				160 BU								
	0-24" 30 lb/ac					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band								
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Olsen Phosphorus	8 ppm	*****	*****			N	132		N			N		
Potassium	340 ppm	*****	*****	*****	*****	P ₂ O ₅	56	Band *	P ₂ O ₅			P ₂ O ₅		
Chloride						K ₂ O	10	Band (2x2) *	K ₂ O			K ₂ O		
Sulfur	0-6" 18 lb/ac 6-24" 36 lb/ac	*****	*****	*****	*****	Cl			Cl			Cl		
Boron						S	5	Band (Trial)	S			S		
Zinc	0.68 ppm	*****	*****	*****	*****	B			B			B		
Iron						Zn	3	Band	Zn			Zn		
Manganese						Fe			Fe			Fe		
Copper						Mn			Mn			Mn		
Magnesium	1941 ppm	*****	*****	*****	*****	Cu			Cu			Cu		
Calcium	6535 ppm	*****	*****	*****	*****	Mg	0		Mg			Mg		
Sodium	58 ppm	*****	*****	*****	*****	Lime			Lime			Lime		
Org.Matter	5.0 %	*****	*****	*****	*****	Soil pH			Cation Exchange Capacity			% Base Saturation (Typical Range)		
Carbonate(CCE)						Buffer pH			% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 0.47 mmho/cm	*****	*****	*****	*****	0-6" 8.2		50.0 meq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)	
	6-24" 0.45 mmho/cm	*****	*****	*****	*****	6-24" 8.5			65.4	32.4	1.7	0.5		

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

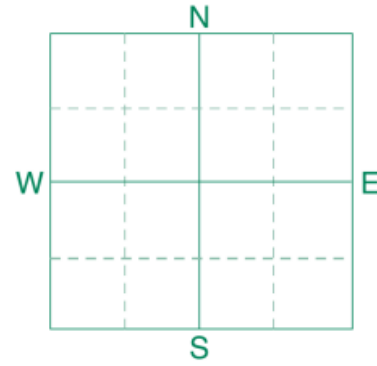
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE 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 **7923**
 SAMPLE ID
 FIELD NAME **Peter Warkentine**
 COUNTY
 TWP **NW 25-8-5e** RANGE
N
 SECTION QTR ACRES **78**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Rising Hope Dairy
21

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

REF # **3066545** BOX # **4708**
 LAB # **NW126864**

Date Sampled **09/30/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High	Canola-bu							
Nitrate	0-6" 6-24"	37 lb/acre 21 lb/acre	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"	58 lb/acre	*****	*****	*****	50 BU							
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen	10 ppm	*****	*****	*****	N	117	N		N			
Potassium		323 ppm	*****	*****	*****	P ₂ O ₅	38 Band *	P ₂ O ₅		P ₂ O ₅			
Chloride						K ₂ O	0	K ₂ O		K ₂ O			
						Cl		Cl		Cl			
Sulfur	0-6" 6-24"	44 lb/acre 84 lb/acre	*****	*****	*****	S	10 Band	S		S			
Boron						B		B		B			
Zinc		0.47 ppm	*****	*****	*****	Zn	2 Band	Zn		Zn			
Iron						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
Copper						Cu		Cu		Cu			
Magnesium		1376 ppm	*****	*****	*****	Mg	0	Mg		Mg			
Calcium		7462 ppm	*****	*****	*****	Lime		Lime		Lime			
Sodium		57 ppm	*****	*****	*****								
Org. Matter		5.0 %	*****	*****	*****								
Carbonate(CCE)													
Sol. Salts	0-6" 6-24"	0.67 mmho/cm 0.74 mmho/cm	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						0-6" 8.1		49.9 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 8.3			(65-75) 74.8	(15-20) 23.0	(1-7) 1.7	(0-5) 0.5	(0-5) 0.0

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

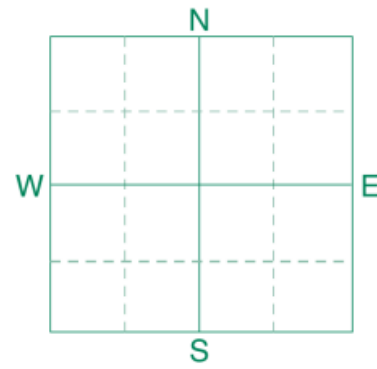
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K20 = 23
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8880**
 SAMPLE ID
 FIELD NAME **Loren Warkentin**
 COUNTY
 TWP **NE 29-8-6e** RANGE
 (**E**)
 SECTION QTR ACRES **80**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:
Rising Hope Dairy

22

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **3070694** BOX # **5108**
 LAB # **NW130752**

Date Sampled **10/01/2020**

Date Received **10/02/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
		VLow	Low	Med	High	Wheat-Winter									
Nitrate	0-6" 6-24"	62 lb/acre 42 lb/acre	*****	*****	*****	*****	YIELD GOAL	YIELD GOAL		YIELD GOAL					
	0-24"	104 lb/acre	*****	*****	*****	*****	70 BU								
			*****	*****	*****	*****	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
			*****	*****	*****	*****	Band								
							LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 14 ppm	*****	*****	*****	*****	N	64		N		N				
Potassium	382 ppm	*****	*****	*****	*****	P ₂ O ₅	27	Band *	P ₂ O ₅		P ₂ O ₅				
Chloride		*****	*****	*****	*****	K ₂ O	10	Band (Starter)*	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	62 lb/acre 360 +lb/acre	*****	*****	*****	*****	Cl		Cl		Cl				
Boron			*****	*****	*****	*****	S	0	S		S				
Zinc	0.70 ppm	*****	*****	*****	*****	*****	B		B		B				
Iron			*****	*****	*****	*****	Zn	0	Zn		Zn				
Manganese			*****	*****	*****	*****	Fe		Fe		Fe				
Copper			*****	*****	*****	*****	Mn		Mn		Mn				
Magnesium	1396 ppm	*****	*****	*****	*****	*****	Cu		Cu		Cu				
Calcium	8256 ppm	*****	*****	*****	*****	*****	Mg	0	Mg		Mg				
Sodium	43 ppm	*****	*****	*****	*****	*****	Lime		Lime		Lime				
Org. Matter	7.2 %	*****	*****	*****	*****	*****									
Carbonate(CCE)		*****	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
									% Ca	% Mg	% K	% Na	% H		
Sol. Salts	0-6" 6-24"	0.88 mmho/cm 1.6 mmho/cm	*****	*****	*****	*****	0-6" 7.8 6-24" 8.0		54.1 meq	(65-75) 76.3	(15-20) 21.5	(1-7) 1.8	(0-5) 0.3	(0-5) 0.0	

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

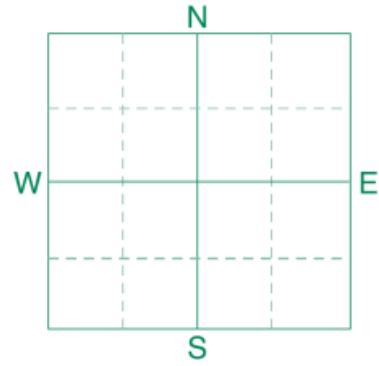
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 44 K2O = 26
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8878**
 SAMPLE ID
 FIELD NAME **Scott Goossen**
 COUNTY
 TWP **SWSE 28-8-6e** RANGE
 SECTION QTR ACRES **135**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy

23

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

REF # **3066560** BOX # **4722**
 LAB # **NW126865**

Date Sampled **09/30/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	17 lb/acre 90 lb/acre					Corn-Grain							
							YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24"	107 lb/acre					160 BU							
							SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
							Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	50 ppm					N	55	N		N			
Potassium		410 ppm					P ₂ O ₅	15 Band (2x2) *	P ₂ O ₅		P ₂ O ₅			
Chloride							K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O			
Sulfur	0-6" 6-24"	60 lb/acre 360 +lb/acre					Cl		Cl		Cl			
Boron							S	0	S		S			
Zinc		3.27 ppm					B		B		B			
Iron							Zn	0	Zn		Zn			
Manganese							Fe		Fe		Fe			
Copper							Mn		Mn		Mn			
Magnesium		1074 ppm					Cu		Cu		Cu			
Calcium		7253 ppm					Mg	0	Mg		Mg			
Sodium		74 ppm					Lime		Lime		Lime			
Org. Matter		8.4 %												
Carbonate(CCE)														
Sol. Salts	0-6" 6-24"	0.62 mmho/cm 1.31 mmho/cm					Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
							0-6" 8.0 6-24" 8.1		46.6 meq	% Ca (65-75) 77.8	% Mg (15-20) 19.2	% K (1-7) 2.3	% Na (0-5) 0.7	% H (0-5) 0.0

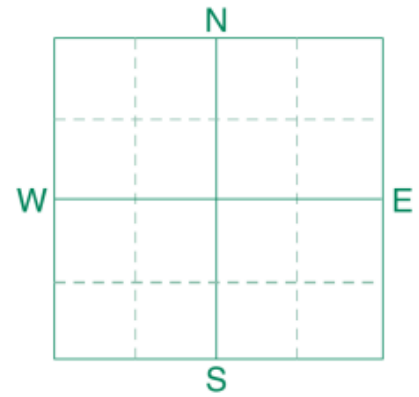
General Comments: Soil texture is not estimated on high pH soils.
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **25 A**
 SAMPLE ID
 FIELD NAME **25 A**
 COUNTY
 TWP RANGE
 SECTION QTR **RL81** ACRES **300**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:

Leighlee Farms
Box 292

Bluemenort, MB

24
 ROA 0C0

SUBMITTED BY: **TE2728**

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

ROA OXO

REF # **2704685** BOX # **5566**
 LAB # **NW118384**

Date Sampled

Date Received **10/31/2019**

Date Reported **8/12/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
		VLow	Low	Med	High	Corn-Grain		YIELD GOAL		YIELD GOAL	
Nitrate	0-6" 6-24"	9 lb/acre 18 lb/acre	*****			160 BU		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
	0-24"	27 lb/acre				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
						Band		Band		Band	
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Phosphorus	Olsen	33 ppm	*****			N	165	N		N	
Potassium		486 ppm	*****			P ₂ O ₅	15	P ₂ O ₅		P ₂ O ₅	
Chloride	0-24"	28 lb/acre	*****			K ₂ O	10	K ₂ O		K ₂ O	
Sulfur	0-6" 6-24"	24 lb/acre 78 lb/acre	*****			Cl	Not Available	Cl		Cl	
Boron		1.1 ppm	*****			S	0	S		S	
Zinc		1.35 ppm	*****			B	0	B		B	
Iron		45.9 ppm	*****			Zn	0	Zn		Zn	
Manganese		2.2 ppm	*****			Fe	0	Fe		Fe	
Copper		2.02 ppm	*****			Mn	0	Mn		Mn	
Magnesium		1791 ppm	*****			Cu	0	Cu		Cu	
Calcium		6895 ppm	*****			Mg	0	Mg		Mg	
Sodium		53 ppm	*****			Lime		Lime		Lime	
Org.Matter		6.6 %	*****			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)	
Carbonate(CCE)		2.5 %	*****			Buffer pH			% Ca	% Mg	% K
Sol. Salts	0-6" 6-24"	0.74 mmho/cm 0.72 mmho/cm	*****			0-6" 7.4 6-24" 7.9		50.9 meq	(65-75) 67.8	(15-20) 29.3	(1-7) 2.4
									(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.

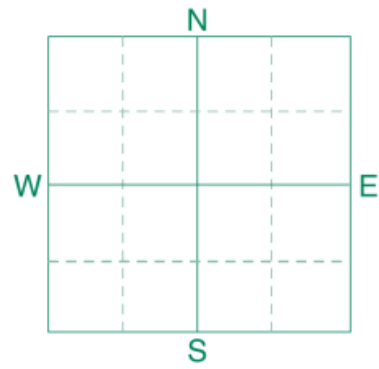
Crop 1: Limited data on crop response to chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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SOIL TEST REPORT

FIELD ID **8881**
 SAMPLE ID
 FIELD NAME **Leighlee Farms Ltd Curt Plett**
 COUNTY
 TWP **RL 74-75** RANGE
 SECTION QTR ACRES **272**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Rising Hope Dairy

25

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **3073305** BOX # **5788**
 LAB # **NW136675**

Date Sampled **10/02/2020**

Date Received **10/05/2020**

Date Reported **10/8/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	24 lb/acre 12 lb/acre	*****	*****	*****	Canola-bu								
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	36 lb/acre				50 BU								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
Olsen Phosphorus	14 ppm	*****	*****	*****	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	450 ppm	*****	*****	*****	*****	N	139	N		N				
Chloride						P ₂ O ₅	28 Band *	P ₂ O ₅		P ₂ O ₅				
Sulfur	0-6" 6-24"	80 lb/acre 66 lb/acre	*****	*****	*****	K ₂ O	0	K ₂ O		K ₂ O				
Boron						Cl		Cl		Cl				
Zinc	0.98 ppm	*****	*****	*****	*****	S	10 Band	S		S				
Iron						B		B		B				
Manganese						Zn	1 Band	Zn		Zn				
Copper						Fe		Fe		Fe				
Magnesium	1760 ppm	*****	*****	*****	*****	Mn		Mn		Mn				
Calcium	6102 ppm	*****	*****	*****	*****	Cu		Cu		Cu				
Sodium	51 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg				
Org. Matter	6.0 %	*****	*****	*****	*****	Lime		Lime		Lime				
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
Sol. Salts	0-6" 6-24"	0.76 mmho/cm 0.65 mmho/cm	*****	*****	*****	0-6"	7.4	46.6 meq		% Ca	% Mg	% K	% Na	% H
						6-24"	8.1			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
										65.5	31.5	2.5	0.5	0.0

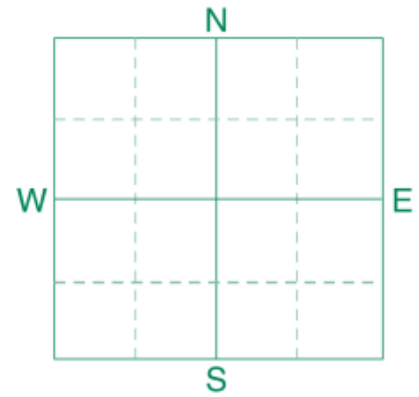
General Comments: Fine-textured (CEC: 31+ meq)
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.
 Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 45 K20 = 23
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **26A**
 SAMPLE ID
 FIELD NAME **26A**
 COUNTY
 TWP RANGE
 SECTION QTR **RL77** ACRES **151**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:

Leighlee Farms
 Box 292

Bluemenort, MB

26

ROA 0C0

SUBMITTED BY: **TE2728**

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

REF # **3014512** BOX # **10210**
 LAB # **NW98590**

Date Sampled

Date Received **09/22/2020**

Date Reported **9/30/2020**

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"	35 lb/acre 24 lb/acre				YIELD GOAL		YIELD GOAL		YIELD GOAL				
						60 BU		45 BU		40 BU				
	0-24"	59 lb/acre				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band		Band/Maint.		Broadcast/Maint.				
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen	14 ppm				N	103	N	99	N	***			
Potassium		462 ppm				P ₂ O ₅	23 Band *	P ₂ O ₅	41 Band *	P ₂ O ₅	35 Broadcast			
Chloride	0-24"	52 lb/acre				K ₂ O	10 Band (Starter)*	K ₂ O	0	K ₂ O	0			
Sulfur	0-6" 6-24"	66 lb/acre 60 lb/acre				Cl	0	Cl	Not Available	Cl	0			
Boron		1.0 ppm				S	0	S	10 Band	S	0			
Zinc		0.96 ppm				B	0	B	0	B	0			
Iron		56.9 ppm				Zn	0	Zn	1 Band	Zn	0			
Manganese		2.3 ppm				Fe	0	Fe	0	Fe	0			
Copper		2.04 ppm				Mn	0	Mn	0	Mn	0			
Magnesium		1826 ppm				Cu	0	Cu	0	Cu	0			
Calcium		5567 ppm				Mg	0	Mg	0	Mg	0			
Sodium		52 ppm				Lime		Lime		Lime				
Org.Matter		7.0 %				Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)		1.0 %				Buffer pH		Capacity		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.85 mmho/cm 0.65 mmho/cm				0-6" 7.1 6-24" 7.8		44.9 meq		(65-75) 62.0	(15-20) 33.9	(1-7) 2.6	(0-5) 0.5	(0-5) 0.9

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.

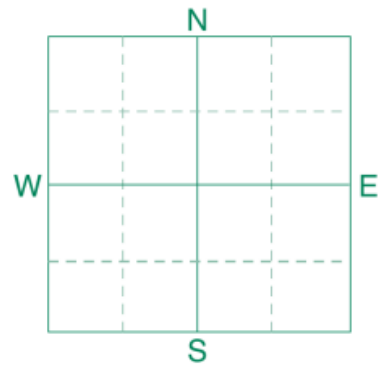
Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P₂O₅ = 30 K₂O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then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



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

SOIL TEST REPORT

FIELD ID **8874**
 SAMPLE ID
 FIELD NAME **Les Dueck**
 COUNTY
 TWP **EE 33-8-6e** RANGE
 SECTION QTR ACRES **123**
 PREV. CROP **Soybeans**



SUBMITTED FOR:
Rising Hope Dairy
27

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

REF # **3060071** BOX # **4762**
 LAB # **NW126794**

Date Sampled **09/29/2020**

Date Received **10/01/2020**

Date Reported **10/5/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	13 lb/acre 12 lb/acre	*****	*****		Corn-Grain				YIELD GOAL				
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"	25 lb/acre				160 BU								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
Olsen Phosphorus	11 ppm	*****	*****	*****										
Potassium	334 ppm	*****	*****	*****	*****									
Chloride														
Sulfur	0-6" 6-24"	120 +lb/acre 102 lb/acre	*****	*****	*****									
Boron														
Zinc	0.54 ppm	*****	*****											
Iron														
Manganese														
Copper														
Magnesium	1548 ppm	*****	*****	*****	*****									
Calcium	8290 ppm	*****	*****	*****	*****									
Sodium	51 ppm	*****	*****											
Org. Matter	6.7 %	*****	*****	*****	*****									
Carbonate(CCE)														
Sol. Salts	0-6"	1.28 mmho/cm	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24"	0.65 mmho/cm	*****	*****	*****	0-6" 7.8 6-24" 8.3		55.4 meq	% Ca	% Mg	% K	% Na	% H	
									(65-75) 74.8	(15-20) 23.3	(1-7) 1.5	(0-5) 0.4	(0-5) 0.0	

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

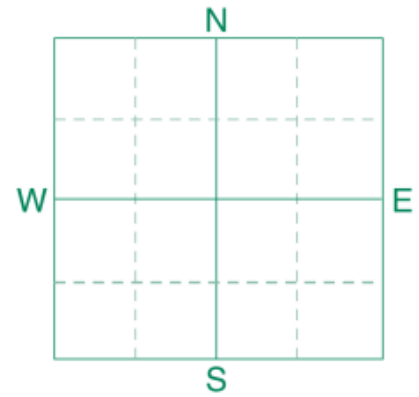
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* Previous crop nitrogen credit: 30 lb/acre N. Previous crop nitrogen credit may be adjusted for local conditions. May respond to starter P & K, even on high soil tests. Crop nutrient removal: P2O5 = 59 K2O = 37 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **Janzen**
 SAMPLE ID
 FIELD NAME **Janzen**
 COUNTY
 TWP **8** RANGE **6**
 SECTION **33** QTR **SW** ACRES **120**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:

Les Dueck
Box 206 RR1

Ste. Anne, MB

28

R5H 1R1

SUBMITTED BY: **TE2728**

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

REF # **2730337** BOX # **5286**
 LAB # **NW115185**

Date Sampled

Date Received **10/30/2019**

Date Reported **8/12/2020**

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 Band		SUGGESTED GUIDELINES Band/Maint.		SUGGESTED GUIDELINES Broadcast/Maint.				
		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 6 ppm	*****				N 142		N 138		N ***				
Potassium	354 ppm	*****				P ₂ O ₅ 39	Band *	P ₂ O ₅ 43	Band *	P ₂ O ₅ 61	Broadcast			
Chloride	0-24" 28 lb/acre	*****				K ₂ O 10	Band (Starter)*	K ₂ O 0		K ₂ O 0				
Sulfur	0-6" 6-24" 22 lb/acre 54 lb/acre	*****				Cl 12	Broadcast	Cl	Not Available	Cl 0				
Boron	1.5 ppm	*****				S 5	Band (Trial)	S 15	Band	S 10	Broadcast (Trial)			
Zinc	0.48 ppm	*****				B 0		B 0		B 0				
Iron	41.6 ppm	*****				Zn 0		Zn 2	Band	Zn 1	Broadcast			
Manganese	1.5 ppm	*****				Fe 0		Fe 0		Fe 0				
Copper	1.88 ppm	*****				Mn 0		Mn 0		Mn 0				
Magnesium	1544 ppm	*****				Cu 0		Cu 0		Cu 0				
Calcium	8323 ppm	*****				Mg 0		Mg 0		Mg 0				
Sodium	41 ppm	*****				Lime		Lime		Lime				
Org.Matter	6.0 %	*****				Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)	2.3 %	*****				0-6" 7.8		55.6 meq		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24" 0.7 mmho/cm 0.78 mmho/cm	*****				6-24" 8.2				(65-75) 74.9	(15-20) 23.2	(1-7) 1.6	(0-5) 0.3	(0-5) 0.0

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

Crop 1: 26 lb potassium chloride (0-0-60-50Cl) = 12 lb chloride. *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P₂O₅ = 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.

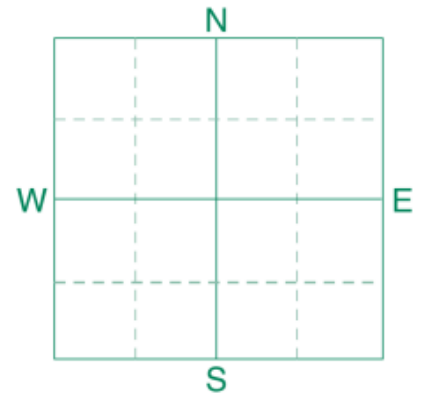
Crop 3: May respond to starter P & K, even on high soil tests. Soybean iron deficiency (IDC) risk is moderate, based on soil carbonate and salinity. Crop nutrient removal: P₂O₅ = 30 K₂O = 47 AGVISE Broadcast/Maintenance guideline will build P & K test levels to the high range over several years and then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



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

SOIL TEST REPORT

FIELD ID **7917**
 SAMPLE ID
 FIELD NAME **Les Dueck**
 COUNTY
 TWP **NW 6-9-6e** RANGE
 SECTION QTR ACRES **234**
 PREV. CROP **Wheat-Spring**



SUBMITTED FOR:
Rising Hope Dairy

29

SUBMITTED BY: **EL1911**
AGRA-GOLD CONSULTING LTD
CLIFF LOEWEN
33020 RD 40 N
BLUMENORT, MB R0A 0C1

REF # **2691142** BOX # **431**
 LAB # **NW64337**

Date Sampled **09/09/2019**

Date Received **09/10/2019**

Date Reported **9/11/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 6-24"	13 lb/ac 12 lb/ac	*****				Canola-bu						
	0-24"	25 lb/ac					YIELD GOAL	YIELD GOAL	YIELD GOAL				
							44 BU						
							SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES				
							Band						
Phosphorus	Olsen 9 ppm					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium	252 ppm					N 129		N		N			
Chloride						P ₂ O ₅ 35	Band *	P ₂ O ₅		P ₂ O ₅			
						K ₂ O 0		K ₂ O		K ₂ O			
Sulfur	0-6" 6-24"	28 lb/ac 72 lb/ac	*****			Cl		Cl		Cl			
						S 15	Band	S		S			
Boron						B		B		B			
Zinc	0.00 ppm					Zn 2	Band	Zn		Zn			
Iron						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
Copper						Cu		Cu		Cu			
Magnesium	1716 ppm					Mg 0		Mg		Mg			
Calcium	7416 ppm					Lime		Lime		Lime			
Sodium	54 ppm												
Org.Matter	No Data												
Carbonate(CCE)													
Sol. Salts	0-6" 6-24"	0.44 mmho/cm 0.51 mmho/cm	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						0-6" 8.3		52.3 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 8.6			(65-75) 71.0	(15-20) 27.4	(1-7) 1.2	(0-5) 0.4	(0-5) 0.0

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

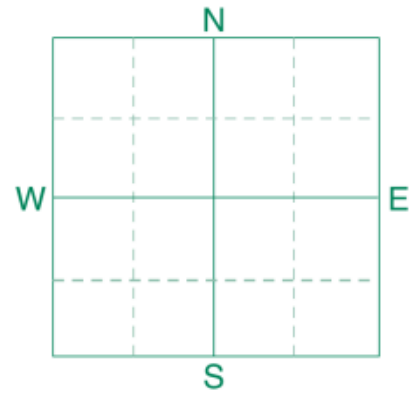
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 40 K2O = 20 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories
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SOIL TEST REPORT

FIELD ID **8340**
 SAMPLE ID
 FIELD NAME **Unger Poultry**
 COUNTY
 TWP **NE 25-8-5e** RANGE
(S)
 SECTION QTR ACRES **75**
 PREV. CROP **Canola-bu**



SUBMITTED FOR:
Rising Hope Dairy
30

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

REF # **2691141** BOX # **431**
 LAB # **NW64336**

Date Sampled **09/09/2019** Date Received **09/10/2019** Date Reported **11/18/2020**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice					
		VLow Low Med High	Wheat-Spring		YIELD GOAL		YIELD GOAL					
Nitrate	0-6" 6-24"	25 lb/acre 33 lb/acre	70 BU		YIELD GOAL		YIELD GOAL					
	0-24"	58 lb/acre	SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
			Band		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES					
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION				
Phosphorus	Olsen	42 ppm	N	131		N			N			
Potassium		373 ppm	P ₂ O ₅	15	Band (Starter)*	P ₂ O ₅			P ₂ O ₅			
Chloride			K ₂ O	10	Band (Starter)*	K ₂ O			K ₂ O			
Sulfur	0-6" 6-24"	62 lb/acre 90 lb/acre	Cl			Cl			Cl			
Boron			S	0		S			S			
Zinc		2.91 ppm	B			B			B			
Iron			Zn	0		Zn			Zn			
Manganese			Fe			Fe			Fe			
Copper			Mn			Mn			Mn			
Magnesium		1693 ppm	Cu			Cu			Cu			
Calcium		6792 ppm	Mg	0		Mg			Mg			
Sodium		116 ppm	Lime			Lime			Lime			
Org.Matter		3.3 %	Soil pH		Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
Carbonate(CCE)			0-6"	8.2		49.5 meq	% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-24"	0.76 mmho/cm 0.51 mmho/cm	6-24"	8.4			68.6	28.5	1.9	1.0	0.0	

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

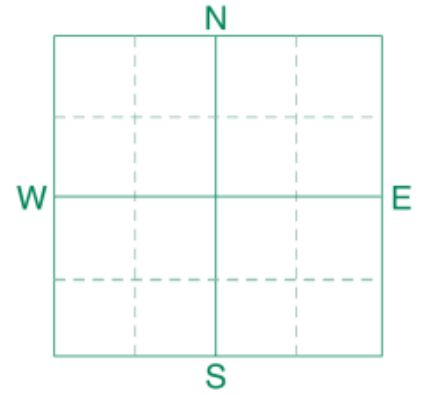
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 44 K2O = 26 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8892**
 SAMPLE ID
 FIELD NAME **Aletta**
 COUNTY
 TWP **NE 25-10-5e** RANGE
 SECTION QTR ACRES **160**
 PREV. CROP **Sunflower**



SUBMITTED FOR:
Aletta Holsteins

31

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

REF # **3170948** BOX # **1798**
 LAB # **NW223349**

Date Sampled **11/19/2020**

Date Received **11/24/2020**

Date Reported **11/25/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice		3rd Crop Choice							
		VLow	Low	Med	High	Corn-Silage												
Nitrate	0-6" 10 lb/acre					YIELD GOAL			YIELD GOAL		YIELD GOAL							
	6-24" 6 lb/acre	*****				20 Tons												
	0-24" 16 lb/acre					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES							
						Band												
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	LB/ACRE	APPLICATION						
Phosphorus	Olsen 10 ppm	*****	*****	*****	N	192		N		N								
Potassium	452 ppm	*****	*****	*****	P ₂ O ₅	58	Band *	P ₂ O ₅		P ₂ O ₅								
Chloride					K ₂ O	10	Band (2x2) *	K ₂ O		K ₂ O								
Sulfur	0-6" 34 lb/acre	*****	*****	*****	Cl			Cl		Cl								
Boron	6-24" 24 lb/acre	*****	*****	*****	S	0		S		S								
Zinc	0.89 ppm	*****	*****	*****	B			B		B								
Iron					Zn	1	Band	Zn		Zn								
Manganese					Fe			Fe		Fe								
Copper					Mn			Mn		Mn								
Magnesium	2284 ppm	*****	*****	*****	Cu			Cu		Cu								
Calcium	4585 ppm	*****	*****	*****	Mg	0		Mg		Mg								
Sodium	49 ppm	*****			Lime			Lime		Lime								
Org. Matter	5.8 %	*****	*****	*****	Soil pH		Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)								
Carbonate(CCE)					0-6"	7.4		43.3 meq	% Ca	(65-75)	% Mg	(15-20)	% K	(1-7)	% Na	(0-5)	% H	(0-5)
Sol. Salts	0-6" 0.91 mmho/cm	*****	*****	*****	6-24"	8.4			52.9	43.9	2.7	0.5	0.0					

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

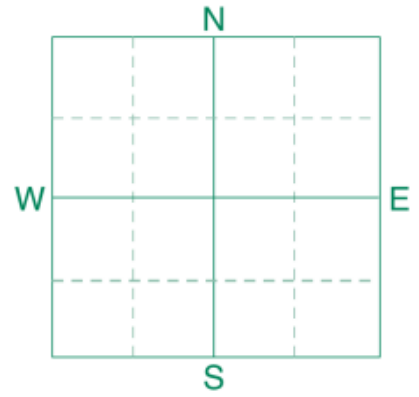
Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8893**
 SAMPLE ID
 FIELD NAME **Aletta**
 COUNTY
 TWP **SW 31-10-6e** RANGE
 SECTION QTR ACRES **161**
 PREV. CROP **Sunflower**



SUBMITTED FOR:
Aletta Holsteins
32

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

REF # **3170949** BOX # **1798**
 LAB # **NW223350**

Date Sampled **11/19/2020** Date Received **11/24/2020** Date Reported **11/25/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 9 lb/acre					Corn-Silage							
	6-24" 3 lb/acre	*****				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 12 lb/acre					20 Tons							
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 9 ppm	*****	*****			N	196	N		N			
Potassium	431 ppm	*****	*****	*****	*****	P ₂ O ₅	60 Band *	P ₂ O ₅		P ₂ O ₅			
Chloride						K ₂ O	10 Band (2x2) *	K ₂ O		K ₂ O			
Sulfur	0-6" 10 lb/acre	*****	*****			Cl		Cl		Cl			
	6-24" 138 lb/acre	*****	*****	*****	*****	S	0	S		S			
Boron						B		B		B			
Zinc	0.85 ppm	*****	*****	*****		Zn	1 Band	Zn		Zn			
Iron						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
Copper						Cu		Cu		Cu			
Magnesium	2360 ppm	*****	*****	*****	*****	Mg	0	Mg		Mg			
Calcium	3623 ppm	*****	*****	*****	*****	Lime		Lime		Lime			
Sodium	70 ppm	*****	*****										
Org.Matter	6.1 %	*****	*****	*****	*****								
Carbonate(CCE)													
Sol. Salts	0-6" 0.52 mmho/cm	*****	*****			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24" 0.8 mmho/cm	*****	*****	*****	*****	0-6" 7.0		39.8 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 8.2			(65-75) 45.5	(15-20) 49.4	(1-7) 2.8	(0-5) 0.8	(0-5) 1.6

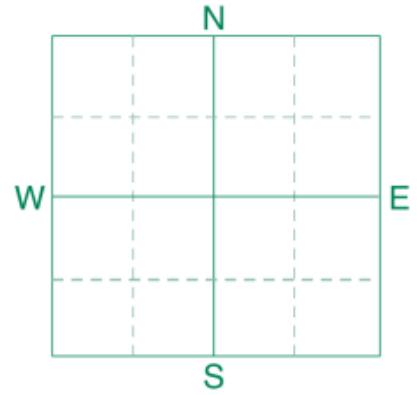
General Comments: Fine-textured (CEC: 31+ meq)
 Percent hydrogen is estimated from water pH, CEC corrected for exchangeable acidity.
 Crop 1: *CAUTION: Seed-placed fertilizer can cause injury.* May respond to starter P & K, even on high soil tests. Crop nutrient removal: P205 = 72 K2O = 166
 AGVISE Band guideline will build P & K test levels to the medium range over several years.



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

SOIL TEST REPORT

FIELD ID **8353**
 SAMPLE ID
 FIELD NAME **Unger 21A**
 COUNTY
 TWP **SW 25-8-5e** RANGE
N
 SECTION QTR ACRES **48**
 PREV. CROP **Corn-Silage**



SUBMITTED FOR:
Rising Hope Dairy

33

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

REF # **3170951** BOX # **1741**
 LAB # **NW223351**

Date Sampled **11/19/2020**

Date Received **11/24/2020**

Date Reported **11/25/2020**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		VLow	Low	Med	High								
Nitrate	0-6" 19 lb/acre					Corn-Silage							
	6-24" 3 lb/acre	*****	*****	*****	*****	YIELD GOAL		YIELD GOAL		YIELD GOAL			
	0-24" 22 lb/acre					20 Tons							
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						Band							
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Phosphorus	Olsen 16 ppm	*****	*****	*****	*****	N 186		N		N			
Potassium	362 ppm	*****	*****	*****	*****	P ₂ O ₅ 44	Band *	P ₂ O ₅		P ₂ O ₅			
Chloride						K ₂ O 10	Band (2x2) *	K ₂ O		K ₂ O			
Sulfur	0-6" 10 lb/acre	*****	*****	*****	*****	Cl		Cl		Cl			
	6-24" 24 lb/acre	*****	*****	*****	*****	S 7	Band (Trial)	S		S			
Boron						B		B		B			
Zinc	1.11 ppm	*****	*****	*****	*****	Zn 0		Zn		Zn			
Iron						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
Copper						Cu		Cu		Cu			
Magnesium	1402 ppm	*****	*****	*****	*****	Mg 0		Mg		Mg			
Calcium	8199 ppm	*****	*****	*****	*****	Lime		Lime		Lime			
Sodium	40 ppm	*****	*****	*****	*****								
Org. Matter	5.7 %	*****	*****	*****	*****								
Carbonate(CCE)													
Sol. Salts	0-6" 0.75 mmho/cm	*****	*****	*****	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
	6-24" 0.53 mmho/cm	*****	*****	*****	*****	0-6" 8.0		53.8 meq	% Ca	% Mg	% K	% Na	% H
						6-24" 8.3			(65-75)	(15-20)	(1-7)	(0-5)	(0-5)
									76.2	21.7	1.7	0.3	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.