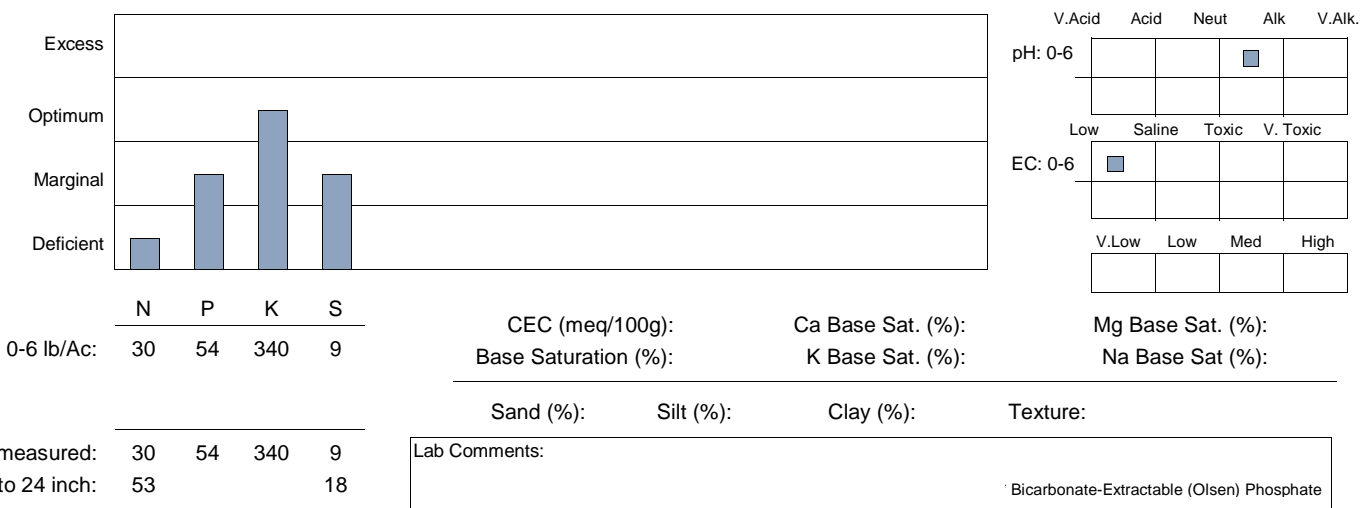


Report To: Interlake Grassland Society (MAF) Box 260 Ashern, MB R0C 0E0	Grower: DAVID GALL Grower Field Name: SE 31-26-8 W Reference Field Name: Legal Location: SE 31-26-8 W1 Total Acres: Sampler:	Lot Number: 170721_016 Date Sampled: 2017/07/19 Received Date: 2017/07/21 Date Reported: 2017/07/25
Attention: Interlake Grassland Society Client ID: 16-0001		

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
170721_016-01	0-6	15	27.0	170	5										7.5	0.72	



Fertility Recommendation Previous Crop: Grass/Legume 40-60% Straw Removed Continuous Cropping Irrigated

Yield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P2O5	K2O	S	B	Cu	Fe	Mn	Zn	Cl
Grass/Legume 40-60%													
*Customer Yield	14.2 (Very Wet)	90 cwt	0	0	65	50	15						
Calculated Yield	10.5 (Wet)	70 cwt	0	0	60	40	10						
Calculated Yield	8.5 (Average)	53 cwt	0	0	50	30	10						
Calculated Yield	5.8 (Dry)	36 cwt	0	0	40	30	0						
Green Feed													
*Customer Yield	16.4 (Very Wet)	100 cwt	0	130	20	15	15						
Calculated Yield	10.5 (Wet)	68 cwt	0	65	20	15	10						
Calculated Yield	8.5 (Average)	52 cwt	0	50	15	15	10						
Calculated Yield	5.8 (Dry)	35 cwt	0	10	15	0	0						

Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row fertilizer with regard to seedling damage. Potato, Sugar Beet and Grass yield units are cwt/acre, harvested at 15% moisture. Dividing cwt/ac by 20 converts yield units to tons/ac. Yields for grass/alfalfa mixtures are shown in units of cwt/acre of material as harvested assuming 25% moisture content. This may be converted to tons/acre by dividing cwt/acre by 20. High nitrogen rates may be more effective as split application. For forages, P2O5 and K2O recommendations are for broadcast application. For banded or spoke wheel placement, the rate may be reduced by 1/3 to 1/2. The rate of P2O5 application is higher than the maximum recommended seed-placed P2O5 rate for the first crop (> 20 lbs/acre). The remaining may be banded. The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2.5 times that of seed-placement. Rates of Potassium less than 30 lbs/acre are for seed-placement. Broadcast and incorporate 60-80 lbs/acre of K2O as a substitute for 15-20 lbs/acre of K2O seed-placed



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.

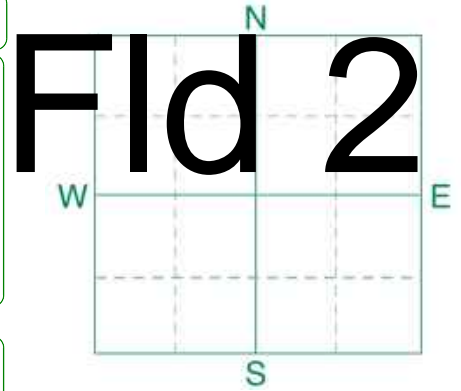




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NE 32-26-8w W** RANGE
 SECTION QTR ACRES **24**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
David Gall

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

REF # **2808646** BOX # **10606**
 LAB # **NW146441**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow	Low	Med	High	Grass/Alfalfa						
Nitrate	0-6" 6-24"	***				YIELD GOAL		YIELD GOAL		YIELD GOAL		
						3 Tons						
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
						Band						
Phosphorus	Olsen 35 ppm	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Potassium	161 ppm	*****				N	32	N		N		
Chloride						P ₂ O ₅	0	P ₂ O ₅		P ₂ O ₅		
Sulfur	0-6" 6-24"	*****				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)		
						Buffer pH		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	*****				0-6" 7.9						
		*****				6-24" 8.3						

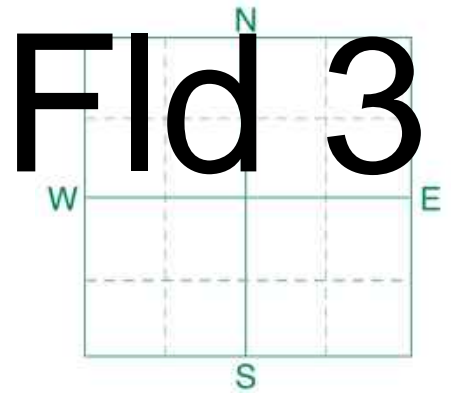
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 30 K2O = 144 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NE 32-26-8w** RANGE
 SECTION QTR ACRES **24**
 PREV. CROP **Oats**



SUBMITTED FOR:
David Gall

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

REF # **2808645** BOX # **10606**
 LAB # **NW146440**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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				
						60 BU								
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus	Olsen 13 ppm	*****				N	181	N		N				
Potassium	200 ppm	*****				P ₂ O ₅	36 Band *	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	0	K ₂ O		K ₂ O				
Sulfur	0-6" 6-24"	*****				Cl		Cl		Cl				
						S	10 Band	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)														
Sol. Salts	0-6"	*****				Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)				
	6-24"	*****				0-6" 8.2				% Ca	% Mg	% K	% Na	% H
	0.46 mmho/cm					6-24" 8.4								
	0.72 mmho/cm													

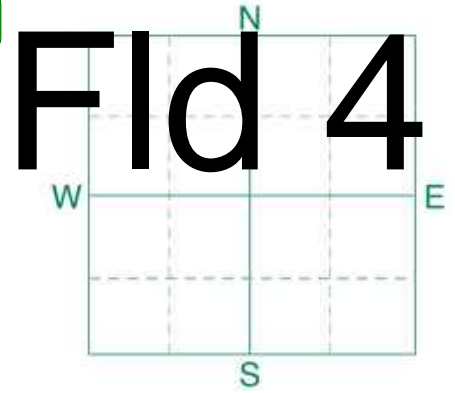
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NW 33-26-8w** RANGE
 SECTION QTR ACRES **87**
 PREV. CROP **Oats**



SUBMITTED FOR:
David Gall

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

REF # **2808642** BOX # **10622**
 LAB # **NW146437**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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			
						60 BU									
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			
						Band									
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		
Phosphorus	Olsen 35 ppm	*****				N	168		N			N			
Potassium	163 ppm	*****				P2O5	10	Band (Starter)*	P2O5			P2O5			
Chloride						K2O	7	Band *	K2O			K2O			
Sulfur	0-6" 6-24"	*****				Cl			Cl			Cl			
Boron						S	10	Band	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			% Base Saturation (Typical Range)						
Carbonate(CCE)						Buffer pH	Cation Exchange Capacity		% Ca	% Mg	% K	% Na	% H		
Sol. Salts	0-6" 6-24"	*****				0-6" 8.2									
						6-24" 8.7									

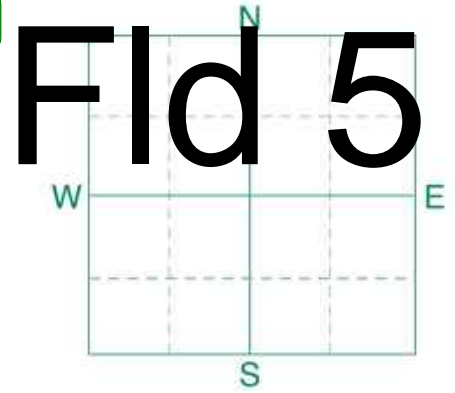
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 (http://www.agvise.com)
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NW 33-26-8w mid** RANGE
 SECTION QTR ACRES **26**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
David Gall

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

REF # **2808643** BOX # **10622**
 LAB # **NW146438**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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"					YIELD GOAL			YIELD GOAL			YIELD GOAL		
						4 Tons								
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band								
Phosphorus	Olsen	*****				LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Potassium		*****				N	110		N			N		
Chloride		*****				P ₂ O ₅	26	Band *	P ₂ O ₅			P ₂ O ₅		
Sulfur	0-6" 6-24"	*****				K ₂ O	22	Band *	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	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)					
		*****							% Ca	% Mg	% K	% Na	% H	
Sol. Salts	0-6" 6-24"	*****				0-6"	7.6							
		*****				6-24"	7.9							

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 = 48 K2O = 180 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Report To: Interlake Grassland Society (MAF)
 Box 260
 Ashern, MB R0C 0E0

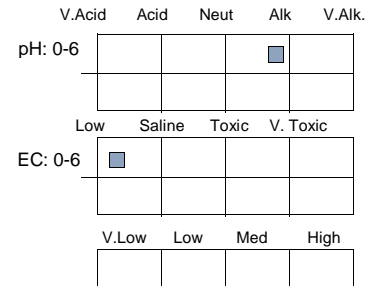
Attention: Interlake Grassland Society

Client ID: 16-0001

Grower: DAVID GALL
Grower Field Name: HELM SOUTH
Reference Field Name:
Legal Location: NW 34-26-8 W1
Total Acres:
Sampler:

Lot Number: 170721_015
Date Sampled: 2017/07/19
Received Date: 2017/07/21
Date Reported: 2017/07/25

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
170721_015-01	0-6	8	19.0	150	4										7.8	0.60	



0-6 lb/Ac:	N: 15	P: 38	K: 300	S: 8	CEC (meq/100g):	Ca Base Sat. (%):	Mg Base Sat. (%):
					Base Saturation (%):	K Base Sat. (%):	Na Base Sat. (%):

Sand (%): Silt (%): Clay (%): Texture:

Total lb/Ac measured:	N: 15	P: 38	K: 300	S: 8
Estimated lb/Ac to 24 inch:	N: 27	P: 38	K: 300	S: 16

Lab Comments: _____
 Bicarbonate-Extractable (Olsen) Phosphate

Fertility Recommendation Previous Crop: Grass/Legume 40-60% Straw Removed Continuous Cropping Irrigated

Yield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P2O5	K2O	S	B	Cu	Fe	Mn	Zn	Cl
Grass/Legume 40-60%													
*Customer Yield	14.2 (Very Wet)	90 cwt	0	20	70	50	15						
Calculated Yield	10.5 (Wet)	70 cwt	0	10	65	40	10						
Calculated Yield	8.5 (Average)	53 cwt	0	5	60	30	10						
Calculated Yield	5.8 (Dry)	36 cwt	0	0	50	30	0						
Green Feed													
*Customer Yield	16.4 (Very Wet)	100 cwt	0	150	20	15	15						
Calculated Yield	10.5 (Wet)	68 cwt	0	90	20	15	10						
Calculated Yield	8.5 (Average)	52 cwt	0	80	15	15	10						
Calculated Yield	5.8 (Dry)	35 cwt	0	35	15	0	0						

Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row fertilizer with regard to seedling damage. Potato, Sugar Beet and Grass yield units are cwt/acre, harvested at 15% moisture. Dividing cwt/ac by 20 converts yield units to tons/ac. Yields for grass/alfalfa mixtures are shown in units of cwt/acre of material as harvested assuming 25% moisture content. This may be converted to tons/acre by dividing cwt/acre by 20. High nitrogen rates may be more effective as split application. For forages, P2O5 and K2O recommendations are for broadcast application. For banded or spoke wheel placement, the rate may be reduced by 1/3 to 1/2. The rate of P2O5 application is higher than the maximum recommended seed-placed P2O5 rate for the first crop (> 20 lbs/acre). The remaining may be banded. The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2.5 times that of seed-placement. Rates of Potassium less than 30 lbs/acre are for seed-placement. Broadcast and incorporate 60-80 lbs/acre of K2O as a substitute for 15-20 lbs/acre of K2O seed-placed

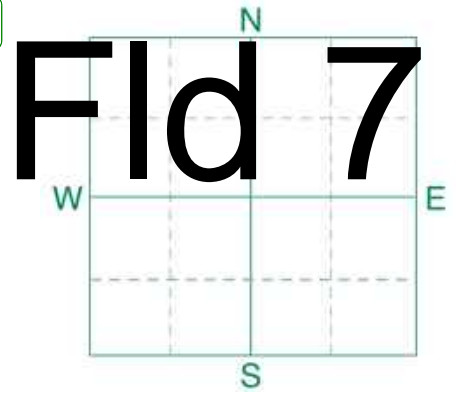




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **SW 15-27-8w E** RANGE
 SECTION QTR ACRES **82**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
David Gall

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

REF # **2808652** BOX # **10622**
 LAB # **NW146443**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	**				Grass/Alfalfa								
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"					3 Tons								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION					
Phosphorus	Olsen 14 ppm	*****				N	33		N					
Potassium	185 ppm	*****				P ₂ O ₅	14	Broadcast	P ₂ O ₅					
Chloride						K ₂ O	0		K ₂ O					
Sulfur	0-6" 6-24"	*****				Cl			Cl					
	18 lb/ac 42 lb/ac	*****				S	5	Band (Trial)	S					
Boron						B			B					
Zinc						Zn			Zn					
Iron						Fe			Fe					
Manganese						Mn			Mn					
Copper						Cu			Cu					
Magnesium						Mg			Mg					
Calcium						Lime			Lime					
Sodium														
Org.Matter														
Carbonate(CCE)														
Sol. Salts	0-6"	*****				Soil pH	Buffer pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
	6-24"	*****				0-6" 8.2					% Ca	% Mg	% K	% Na
	0.37 mmho/cm 0.25 mmho/cm					6-24" 8.6								

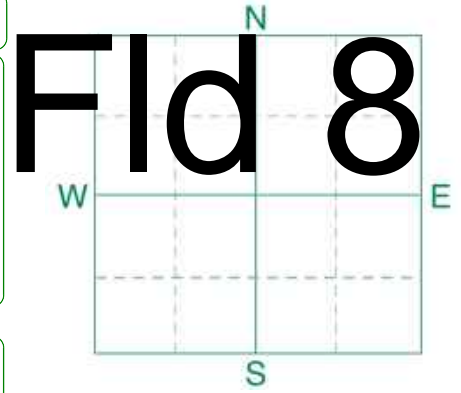
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 30 K2O = 144 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **SW 15-27-8w W** RANGE
 SECTION QTR ACRES **64**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
David Gall

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

REF # **2808651** BOX # **10622**
 LAB # **NW146442**

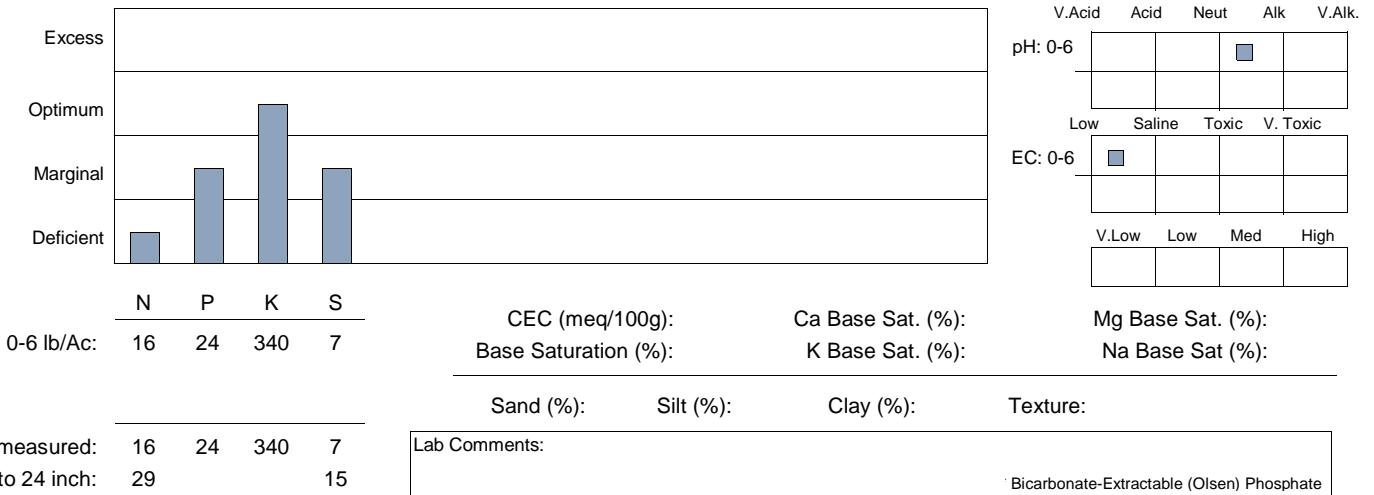
Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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"	**				YIELD GOAL		YIELD GOAL		YIELD GOAL					
						8 lb/ac		3 lb/ac		4 Tons					
	0-24"					11 lb/ac		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
								Band		Band		Band			
Phosphorus	Olsen	11 ppm		*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		344 ppm		*****				N	109	N		N			
Chloride								P ₂ O ₅	21	P ₂ O ₅		P ₂ O ₅			
Sulfur	0-6" 6-24"	*****				K ₂ O	0	K ₂ O		K ₂ O		K ₂ O			
		120 +lb/ac		360 +lb/ac		Cl		Cl		Cl		Cl			
Boron						S	0	S		S		S			
Zinc						B		B		B		B			
Iron						Zn		Zn		Zn		Zn			
Manganese						Fe		Fe		Fe		Fe			
Copper						Mn		Mn		Mn		Mn			
Magnesium						Cu		Cu		Cu		Cu			
Calcium						Mg		Mg		Mg		Mg			
Sodium						Lime		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"	*****				0-6"	8.1								
		1.21 mmho/cm		1.66 mmho/cm		6-24"	8.3								

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 = 48 K2O = 180 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

Report To: Interlake Grassland Society (MAF) Box 260 Ashern, MB R0C 0E0	Grower: DAVID GALL Grower Field Name: GARY LOOR Reference Field Name: Legal Location: SW 24-27-9 W1 Total Acres: Sampler:	Lot Number: 170721_017 Date Sampled: 2017/07/19 Received Date: 2017/07/21 Date Reported: 2017/07/25
Attention: Interlake Grassland Society Client ID: 16-0001		

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
170721_017-01	0-6	8	12.0	170	4										7.4	0.74	



Fertility Recommendation Previous Crop: Grass/Legume 40-60% Straw Removed Continuous Cropping Irrigated

Yield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P2O5	K2O	S	B	Cu	Fe	Mn	Zn	Cl
Grass/Legume 40-60%													
*Customer Yield	14.2 (Very Wet)	90 cwt	0	20	75	50	15						
Calculated Yield	10.5 (Wet)	70 cwt	0	5	70	40	10						
Calculated Yield	8.5 (Average)	53 cwt	0	5	65	30	10						
Calculated Yield	5.8 (Dry)	36 cwt	0	0	65	30	0						
Green Feed													
*Customer Yield	16.4 (Very Wet)	100 cwt	0	150	25	15	15						
Calculated Yield	10.5 (Wet)	68 cwt	0	85	25	15	10						
Calculated Yield	8.5 (Average)	52 cwt	0	75	20	15	10						
Calculated Yield	5.8 (Dry)	35 cwt	0	35	15	0	0						

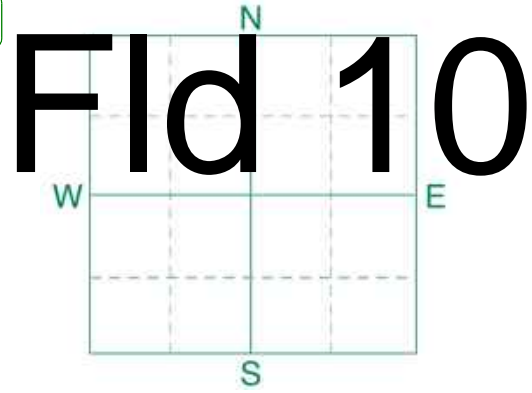
Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row fertilizer with regard to seedling damage. Potato, Sugar Beet and Grass yield units are cwt/acre, harvested at 15% moisture. Dividing cwt/ac by 20 converts yield units to tons/ac. Yields for grass/alfalfa mixtures are shown in units of cwt/acre of material as harvested assuming 25% moisture content. This may be converted to tons/acre by dividing cwt/acre by 20. High nitrogen rates may be more effective as split application. For forages, P2O5 and K2O recommendations are for broadcast application. For banded or spoke wheel placement, the rate may be reduced by 1/3 to 1/2. The rate of P2O5 application is higher than the maximum recommended seed-placed P2O5 rate for the first crop (> 20 lbs/acre). The remaining may be banded. The rate of P2O5 application is higher than the maximum recommended seed-placed P2O5 rate for the second crop (> 20 lbs/acre). The remaining may be banded. The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2.5 times that of seed-placement.



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

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NE 36-26-9w** RANGE
 SECTION QTR ACRES **44**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
David Gall

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

REF # **2808655** BOX # **10636**
 LAB # **NW146446**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High									
Nitrate	0-6" 6-24"	****				Grass/Alfalfa								
						YIELD GOAL		YIELD GOAL		YIELD GOAL				
	0-24"					3 Tons								
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
Olsen	22 ppm	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Phosphorus						N	23	N		N				
Potassium	246 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"	*****				Cl		Cl		Cl				
Boron						S	5 Band (Trial)	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"	*****				0-6" 8.0								
						6-24" 8.6								

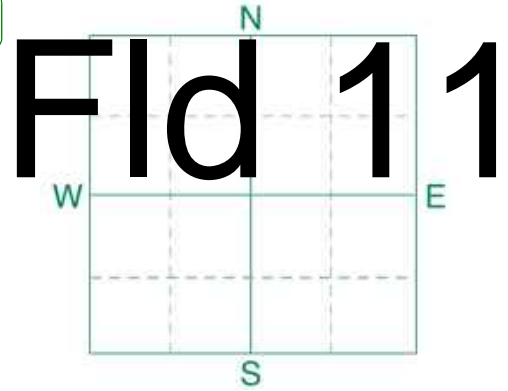
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 30 K2O = 144 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **SE 36-26-9w** RANGE
 SECTION QTR ACRES **57**
 PREV. CROP **Oats**



SUBMITTED FOR:
David Gall

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

REF # **2808656** BOX # **10692**
 LAB # **NW146447**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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/ac 24 lb/ac	*****	Canola-bu					
				YIELD GOAL	YIELD GOAL	YIELD GOAL			
	0-24"	36 lb/ac		60 BU					
				SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES			
				Band					
Olsen	7 ppm	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Phosphorus			N	174			N		
Potassium	195 ppm	*****	P ₂ O ₅	54	Band *		P ₂ O ₅		
Chloride			K ₂ O	0			K ₂ O		
			Cl				Cl		
Sulfur	0-6" 6-24"	120 +lb/ac 360 +lb/ac	*****	S	10	Band	S		
Boron			B				B		
Zinc			Zn				Zn		
Iron			Fe				Fe		
Manganese			Mn				Mn		
Copper			Cu				Cu		
Magnesium			Mg				Mg		
Calcium			Lime				Lime		
Sodium									
Org.Matter									
Carbonate(CCE)									
	0-6" 6-24"	1.1 mmho/cm 0.96 mmho/cm	*****	Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)		
Sol. Salts			*****	0-6" 8.1			% Ca	% Mg	% K
				6-24" 8.6			% Na	% H	

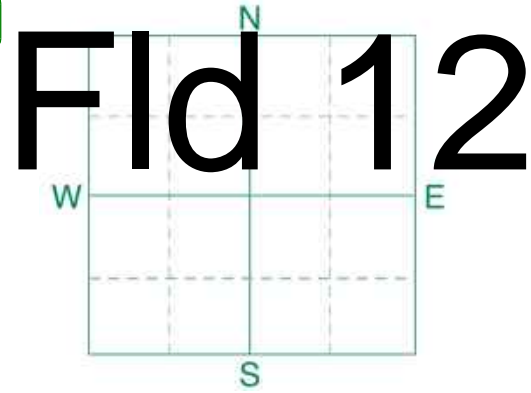
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 (http://www.agvise.com)
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **NE 33-26-8w** RANGE
 SECTION QTR ACRES **56**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
David Gall

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

REF # **2808641** BOX # **10622**
 LAB # **NW146436**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

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"					YIELD GOAL			YIELD GOAL			YIELD GOAL		
						4 Tons								
	0-24"					SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES		
						Band								
						LB/ACRE	APPLICATION		LB/ACRE	APPLICATION		LB/ACRE	APPLICATION	
Phosphorus	Olsen 5 ppm	*****				N	111		N			N		
Potassium	140 ppm	*****				P ₂ O ₅	36	Band *	P ₂ O ₅			P ₂ O ₅		
Chloride						K ₂ O	30	Band *	K ₂ O			K ₂ O		
Sulfur	0-6" 6-24"	*****				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"	*****				0-6" 8.3								
		*****				6-24" 8.7								

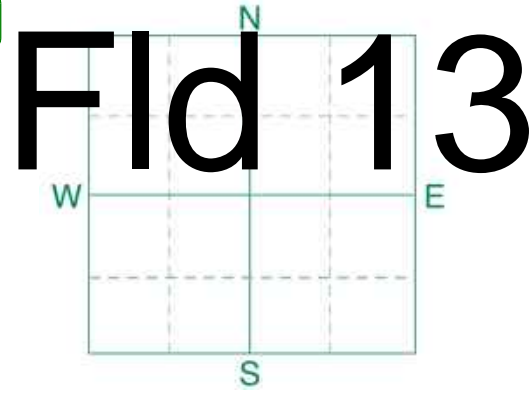
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 48 K2O = 180 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **SW 14-27-8w W** RANGE
 SECTION QTR ACRES **80**
 PREV. CROP **Oats**



SUBMITTED FOR:
David Gall

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

REF # **2808653** BOX # **10692**
 LAB # **NW146444**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		VLow	Low	Med	High							
Nitrate	0-6" 6-24"	5 lb/ac 6 lb/ac				Canola-bu						
						YIELD GOAL		YIELD GOAL		YIELD GOAL		
	0-24"	11 lb/ac	**			60 BU						
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
						Band						
Phosphorus	Olsen	14 ppm	*****			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Potassium		152 ppm	*****			N	199	N		N		
Chloride						P ₂ O ₅	33 Band *	P ₂ O ₅		P ₂ O ₅		
Sulfur	0-6" 6-24"	22 lb/ac 36 lb/ac	*****			K ₂ O	14 Band *	K ₂ O		K ₂ O		
Boron						Cl		Cl		Cl		
Zinc						S	15 Band	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)		
						Buffer pH		% Ca	% Mg	% K	% Na	% H
Sol. Salts	0-6" 6-24"	0.28 mmho/cm 0.18 mmho/cm	***** ****			0-6" 8.2 6-24" 8.7						

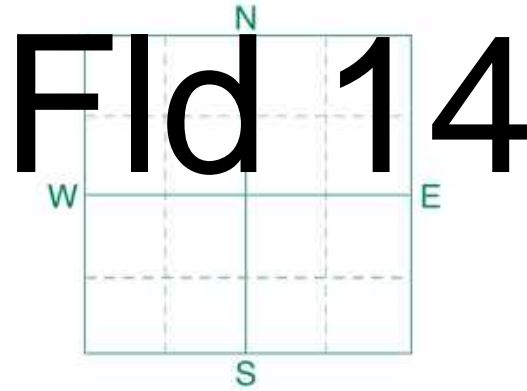
Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 54 K2O = 27 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



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 (http://www.agvise.com)
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
 SAMPLE ID
 FIELD NAME **David Gall**
 COUNTY
 TWP **SE 19-27-8w** RANGE
 SECTION QTR ACRES **117**
 PREV. CROP **Grass/Alfalfa**



SUBMITTED FOR:
David Gall

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

REF # **2808654** BOX # **10606**
 LAB # **NW146445**

Date Sampled **11/07/2019** Date Received **11/12/2019** Date Reported **11/14/2019**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		VLow	Low	Med	High	Grass/Alfalfa								
Nitrate	0-6" 6-24"	***				YIELD GOAL		YIELD GOAL		YIELD GOAL				
						3 Tons								
	0-24"					SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
						Band								
Phosphorus	Olsen 23 ppm	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium	261 ppm	*****				N	28	N		N				
Chloride						P ₂ O ₅	0	P ₂ O ₅		P ₂ O ₅				
Sulfur	0-6" 6-24"	*****				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"	*****				Buffer pH				% Ca	% Mg	% K	% Na	% H
	6-24"	*****				0-6" 8.0								
						6-24" 8.7								

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 = 30 K2O = 144 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

MMPP - Variety Yield Data Browser

Select Municipalities or MASC Risk Areas

Tip: Click or touch the 'X' (at right) in these tip balloons to hide them permanently. ✕

Tip: Click or touch the button below to select Municipalities or MASC Risk Areas. ✕

Risk Areas

Tip: Click or touch in the select boxes (below) to select at least one item from each list. Click or touch the ✕ icon to clear all selected items.

RISK AREA 15



Select Crop(s)

Tip: If more than one crop is selected, the Yield Variety Data will be returned, but 'Top Varieties by Acres' and 'Top Varieties by Yield' charts won't be generated. ✕

OATS

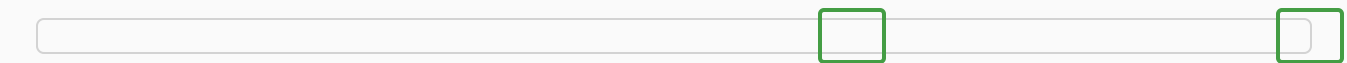


Select Varieties

All Varieties



Select Year Range



1993

1998

2003

2007

2012

2017

2009

to

2018

Search Summary

149 records returned

1,347 farm varieties grown on **192,029.0** acres

Average Yield

1.216 Tonnes (**78.8** Bushels) per acre

Summary includes aggregate data from 'below minimum tolerance' records

Variety Yield Data

'Below Minimum Tolerance' records contain data from fewer than 3 producers or 500 acres, marked as such to retain producer anonymity. Data from these records is included in the Search Summary totals.

Copy to Clipboard

Save as XLS

Showing 1 to 50 of 149 entries

					First	Previous	Next	Last
Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)	
2017	RISK AREA 15	OATS	CS CAMDEN	62	13,482.0	1.967 Tonnes	127.6 Bushels	
2016	RISK AREA 15	OATS	CS CAMDEN	23	4,500.0	1.859 Tonnes	120.5 Bushels	
2017	RISK AREA 15	OATS	SOURIS	32	3,990.0	1.852 Tonnes	120.1 Bushels	
2013	RISK AREA 15	OATS	TRIACTOR (OT582)	4	535.0	1.730 Tonnes	112.2 Bushels	
2017	RISK AREA 15	OATS	SUMMIT (OT 2046)	17	3,109.0	1.671 Tonnes	108.4 Bushels	
2016	RISK AREA 15	OATS	SUMMIT (OT 2046)	23	5,642.0	1.592 Tonnes	103.2 Bushels	
2013	RISK AREA 15	OATS	SOURIS	52	7,389.0	1.482 Tonnes	96.1 Bushels	
2015	RISK AREA 15	OATS	TRIACTOR (OT582)	6	1,906.0	1.476 Tonnes	95.7 Bushels	
2016	RISK AREA 15	OATS	SOURIS	47	7,867.0	1.430 Tonnes	92.7 Bushels	
2011	RISK AREA 15	OATS	TRIACTOR (OT582)	3	896.0	1.421 Tonnes	92.1 Bushels	
2013	RISK AREA 15	OATS	PINNACLE	13	1,538.0	1.395 Tonnes	90.5 Bushels	
2013	RISK AREA 15	OATS	SUMMIT (OT 2046)	27	3,997.0	1.373 Tonnes	89.0 Bushels	
2015	RISK AREA 15	OATS	SUMMIT (OT 2046)	19	3,640.0	1.354 Tonnes	87.8 Bushels	

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2015	RISK AREA 15	OATS	BIG BROWN (OT3037)	10	855.0	1.353 Tonnes	87.7 Bushels
2012	RISK AREA 15	OATS	TRIACTOR (OT582)	14	2,394.0	1.323 Tonnes	85.8 Bushels
2014	RISK AREA 15	OATS	TRIACTOR (OT582)	6	996.0	1.317 Tonnes	85.4 Bushels
2017	RISK AREA 15	OATS	GEHL(HULLESS)	4	1,280.0	1.316 Tonnes	85.4 Bushels
2018	RISK AREA 15	OATS	CS CAMDEN	75	16,330.0	1.308 Tonnes	84.8 Bushels
2015	RISK AREA 15	OATS	SOURIS	88	13,251.0	1.283 Tonnes	83.2 Bushels
2012	RISK AREA 15	OATS	HIFI	12	1,169.0	1.226 Tonnes	79.5 Bushels
2011	RISK AREA 15	OATS	SOURIS	32	4,711.0	1.184 Tonnes	76.8 Bushels
2016	RISK AREA 15	OATS	PINNACLE	3	525.0	1.174 Tonnes	76.2 Bushels
2014	RISK AREA 15	OATS	SUMMIT (OT 2046)	24	3,081.0	1.174 Tonnes	76.1 Bushels
2012	RISK AREA 15	OATS	SUMMIT (OT 2046)	20	2,588.0	1.160 Tonnes	75.2 Bushels
2012	RISK AREA 15	OATS	SOURIS	56	6,711.0	1.139 Tonnes	73.9 Bushels
2014	RISK AREA 15	OATS	SOURIS	49	8,001.0	1.134 Tonnes	73.6 Bushels
2013	RISK AREA 15	OATS	NO VAR	21	1,377.0	1.114 Tonnes	72.2 Bushels
2010	RISK AREA 15	OATS	CDC DANCER (OT373)	8	1,483.0	1.106 Tonnes	71.7 Bushels
2018	RISK AREA 15	OATS	SOURIS	18	2,192.0	1.068 Tonnes	69.3 Bushels
2012	RISK AREA 15	OATS	PINNACLE	35	4,591.0	1.014 Tonnes	65.7 Bushels
2015	RISK AREA 15	OATS	NO VAR	20	2,306.0	0.995 Tonnes	64.5 Bushels
2011	RISK AREA 15	OATS	SUMMIT (OT 2046)	3	1,600.0	0.987 Tonnes	64.0 Bushels
2017	RISK AREA 15	OATS	NO VAR	15	1,092.0	0.981 Tonnes	63.6 Bushels
2009	RISK AREA 15	OATS	PINNACLE	33	4,043.0	0.964 Tonnes	62.5 Bushels
2012	RISK AREA 15	OATS	RONALD (OT296)	6	702.0	0.939 Tonnes	60.9 Bushels
2011	RISK AREA 15	OATS	PINNACLE	26	4,280.0	0.895 Tonnes	58.0 Bushels
2010	RISK AREA 15	OATS	SOURIS	23	3,392.0	0.863 Tonnes	56.0 Bushels
2018	RISK AREA 15	OATS	NO VAR	16	1,477.0	0.824 Tonnes	53.4 Bushels
2010	RISK AREA 15	OATS	LEGGETT (OT2021)	9	2,383.0	0.820 Tonnes	53.2 Bushels
2012	RISK AREA 15	OATS	NO VAR	22	1,747.0	0.793 Tonnes	51.4 Bushels
2014	RISK AREA 15	OATS	PINNACLE	7	725.0	0.792 Tonnes	51.4 Bushels
2018	RISK AREA 15	OATS	SUMMIT (OT 2046)	11	2,574.0	0.793 Tonnes	51.4 Bushels
2011	RISK AREA 15	OATS	LEGGETT (OT2021)	4	599.0	0.766 Tonnes	49.7 Bushels

Year	Risk Area / R.M.	Crop	Variety	Farms	Acres	Yield/acre (Metric)	Yield/acre (Imperial)
2012	RISK AREA 15	OATS	FURLONG (OT2009)	4	945.0	0.718 Tonnes	46.5 Bushels
2012	RISK AREA 15	OATS	AC ASSINIBOIA (OT 275)	5	503.0	0.711 Tonnes	46.1 Bushels
2012	RISK AREA 15	OATS	LEGGETT (OT2021)	6	625.0	0.700 Tonnes	45.4 Bushels
2009	RISK AREA 15	OATS	FURLONG (OT2009)	5	944.0	0.642 Tonnes	41.6 Bushels
2016	RISK AREA 15	OATS	NO VAR	10	503.0	0.571 Tonnes	37.0 Bushels
2014	RISK AREA 15	OATS	NO VAR	20	1,304.0	0.537 Tonnes	34.8 Bushels
2010	RISK AREA 15	OATS	PINNACLE	55	6,542.0	0.507 Tonnes	32.9 Bushels

Show entries

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Agriinsurance Forage Information Tables 2018
BASIC HAY (80% COVERAGE)

	FR	-Probable Ylds-		\$49 (LOW)				\$81 (HIGH)			
		tonne	tons	---Coverage---	Dollar	Prem	---Coverage---	Dollar	Prem		
		tonne	tons	tonne	tons	/acre	/acre	tonne	tons	/acre	/acre
ALFALFA ≤ 4 YEARS	1	2.203	2.428	1.762	1.942	86.34	2.03	1.762	1.942	142.72	3.22
	2	1.944	2.142	1.555	1.714	76.20	2.00	1.555	1.714	125.96	3.16
	3	2.078	2.290	1.662	1.832	81.44	2.53	1.662	1.832	134.62	4.01
	4	2.396	2.640	1.917	2.113	93.93	1.46	1.917	2.113	155.28	2.32
	5	2.870	3.163	2.296	2.530	112.50	3.11	2.296	2.530	185.98	4.94
	6	2.612	2.878	2.090	2.303	102.41	2.62	2.090	2.303	169.29	4.15
ALFALFA > 4 YEARS	1	1.611	1.775	1.289	1.420	63.16	2.03	1.289	1.420	104.41	3.22
	2	1.425	1.570	1.140	1.256	55.86	2.00	1.140	1.256	92.34	3.16
	3	1.733	1.910	1.386	1.527	67.91	2.53	1.386	1.527	112.27	4.01
	4	1.854	2.043	1.483	1.634	72.67	1.46	1.483	1.634	120.12	2.32
	5	2.347	2.586	1.878	2.070	92.02	3.11	1.878	2.070	152.12	4.94
	6	1.940	2.138	1.552	1.710	76.05	2.62	1.552	1.710	125.71	4.15
ALFALFA/GRASS MIX. ≤ 4 YEARS	1	1.933	2.130	1.546	1.704	75.75	1.74	1.546	1.704	125.23	2.76
	2	1.884	2.076	1.507	1.661	73.84	2.43	1.507	1.661	122.07	3.84
	3	1.848	2.036	1.478	1.629	72.42	2.80	1.478	1.629	119.72	4.42
	4	2.037	2.245	1.630	1.796	79.87	1.57	1.630	1.796	132.03	2.49
	5	2.436	2.684	1.949	2.148	95.50	2.09	1.949	2.148	157.87	3.32
	6	2.091	2.304	1.673	1.844	81.98	2.98	1.673	1.844	135.51	4.72
ALFALFA/GRASS MIX. > 4 YEARS	1	1.431	1.577	1.145	1.262	56.11	1.74	1.145	1.262	92.75	2.76
	2	1.374	1.514	1.099	1.211	53.85	2.43	1.099	1.211	89.02	3.84
	3	1.402	1.545	1.122	1.236	54.98	2.80	1.122	1.236	90.88	4.42
	4	1.525	1.681	1.220	1.344	59.78	1.57	1.220	1.344	98.82	2.49
	5	1.835	2.022	1.468	1.618	71.93	2.09	1.468	1.618	118.91	3.32
	6	1.483	1.634	1.186	1.307	58.11	2.98	1.186	1.307	96.07	4.72
GRASSES ≤ 4 YEARS	1	1.458	1.607	1.166	1.285	57.13	1.54	1.166	1.285	94.45	2.41
	2	1.658	1.827	1.326	1.461	64.97	1.74	1.326	1.461	107.41	2.73
	3	1.518	1.673	1.214	1.338	59.49	2.72	1.214	1.338	98.33	4.27
	4	1.466	1.616	1.173	1.293	57.48	1.52	1.173	1.293	95.01	2.38
	5	1.459	1.608	1.167	1.286	57.18	1.62	1.167	1.286	94.53	2.55
	6	1.457	1.606	1.166	1.285	57.13	2.26	1.166	1.285	94.45	3.56
GRASSES > 4 YEARS	1	1.182	1.303	.946	1.042	46.35	1.54	.946	1.042	76.63	2.41
	2	1.212	1.336	.970	1.069	47.53	1.74	.970	1.069	78.57	2.73
	3	1.158	1.276	.926	1.020	45.37	2.72	.926	1.020	75.01	4.27
	4	1.057	1.165	.846	.932	41.45	1.52	.846	.932	68.53	2.38
	5	1.184	1.305	.947	1.044	46.40	1.62	.947	1.044	76.71	2.55
	6	1.200	1.322	.960	1.058	47.04	2.26	.960	1.058	77.76	3.56
SWEET CLOVER	1	1.516	1.671	1.213	1.337	59.44	1.50	1.213	1.337	98.25	2.48
	2	1.586	1.748	1.269	1.398	62.18	2.26	1.269	1.398	102.79	3.74
	3	1.497	1.650	1.198	1.320	58.70	2.49	1.198	1.320	97.04	4.11
	4	1.823	2.009	1.458	1.607	71.44	1.52	1.458	1.607	118.10	2.50
	5	2.027	2.234	1.622	1.787	79.48	1.78	1.622	1.787	131.38	2.94
	6	1.616	1.781	1.293	1.425	63.36	2.54	1.293	1.425	104.73	4.19
COARSE HAY	1	.968	1.067	.774	.853	37.93	1.17	.774	.853	62.69	1.93
	2	.987	1.088	.790	.871	38.71	1.42	.790	.871	63.99	2.35
	3	.711	.784	.569	.627	27.88	1.28	.569	.627	46.09	2.12
	4	.938	1.034	.750	.827	36.75	1.00	.750	.827	60.75	1.65
	5	1.170	1.289	.936	1.031	45.86	1.25	.936	1.031	75.82	2.06
	6	.885	.975	.708	.780	34.69	1.60	.708	.780	57.35	2.64