SITE ASSESSMENT

For Large Livestock Operation Proposals (300 Animal Units or more)

1.0 Purpose

The set up, or expansion, of a livestock operation that has 300 Animal Units or more is subject to Part 7 of The Planning Act. This includes consideration as a conditional use by the municipal council or planning district board. It also includes a review by the Technical Review Committee (TRC) appointed by the Minister of Local Government. The Technical Review Committee Regulation requires a site assessment to help the committee do its review and allow people who will be affected by the livestock operation to comment on the proposal.

2.0 Assistance

For assistance in completing the Site Assessment Form please refer to the following.

For links to resources, click on the highlighted underlined items.

For additional information on a particular item, please click on the (?) "Learn More" icon.

For definitions, click on the Glossary of Terms.

For help with mapping, contact your <u>Community and Regional Planning Regional Office</u>.

For additional help, contact the Technical Review Coordination Unit.

3.0 I	Descri	ption	of	Livestock	O	peration
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Operation legal name, if other than the owner's name:

Blumengart Hutterian Mutual Corp

Operation location (project site):



NE16-2-3W & NW15-2-3W

Rural Municipality (RM) of Rhineland

Legal description: section, township, range or river lot(s)

NE16-2-3W- existing turkey barns & NW15-2-3W (new starter barn)

Manitoba Premises Identification Number: MB1004072 & MB1054154

Municipal tax roll number(s): 0177400.000, 0177100.000, 0177600.000

Show the location of the operation (project site) on a location map. (See Location Map for example).

X Location Map attached

No. 71



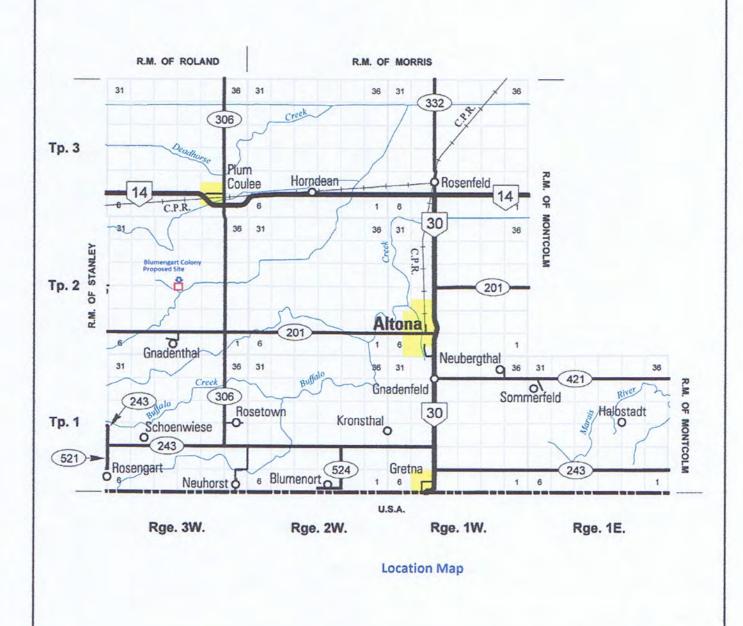
R.M. OF RHINELAND

MAP REVISED:-

MANITOBA
TRANSPORTATION AND GOVERNMENT SERVICES
HIGHWAY PLANNING AND DESIGN BRANCH
DRAFTING SECTION
WINNIPEG
DECEMBER 2002

LEGEND





☐ New operation	
X Expansion of existing operation	
State if any existing buildings will be replaced or demolished. If existing buildings will be reused or expanded, state how they will be reused or expanded.	e
Expansion of existing turkey operation: addition of 24 000 heavy hens (201	1),
existing starter barn will be replace with a new starter barn, to be built on N	W15-2-3W
and to house 18 000 starter places.	
5.0 Proposed Type and Size of Operation State the proposed type and size of the operation. (See <u>Animal Units Calculation Table</u>)
Type of operation Existing number of Total Animal Units	7
(Column B from Animal animals (Column F from Animal	
Units Calculation Table) (Column C from Animal Units Calculation Table) Units Calculation Table)	
Dairy livestock 37 hd (various categories) 28 au (total)	
Hog operation 600 sows F-N, 2270 weanlings, 4430 finishers 858 au (all barns)	
Chicken 18500 layers, 9500 pullets 185 au (total)	
Turkey 63800 birds places currently, proposing additional 18000 places 818 au (total with expansion)
X Animal Units Calculation Table attached Total: 1,889 au	
6.0 Animal Confinement Facilities	
Outdoor Confined Livestock Area	
To ensure that it can be built in a way that the environment is protected, a permit is required for construction and expansion of <u>confined livestock areas</u> for operations with Animal Units or more. Permits are required by the <u>Livestock Manure and Mortalities Management Regulation</u> (MR 42/98), under <i>The Environment Act</i> .	300
Confined Livestock Area: ☐ outdoor seasonal feeding area ☐ feedlot 🕱 not applicable	ole
Indoor Barn/Animal Housing	
Indoor Animal Housing: X barn other (describe) not applicab	le

Animal Units Calculation Table

A	В	C	D	E	F	G
Animal Type	Type of Operation	Existing Number of Animals	Proposed Additional Number of Animals	Animal Units per Head	Total Animal Units	Annual Confinement Period (Days
	Mature cows (lactating and dry) including associated livestoo	5		2	10.00	365
	Mature cows (lactating and dry)			1.35	-	
	Heifers (0 to 3 months)			0.16	-	
Dairy 1	Heifers (4 to 13 months)	22		0.41	9.02	120
	Heifers (> 13 months)	10		0.87	8.70	120
	Bulls			1.35	-	
	Veal calves			0.13	-	
	Beef cows including associated livestock			1.25		
Beef	Backgrounder (steers)			0.5	-	
Deer	Summer pasture / replacement heifers			0.625	-	
	Feeder cattle			0.769	-	
	Sows - farrow to finish (234-254 lbs)			1.25	-	
	Sows - farrow to weanling (up to 11 lbs)	600		0.25	150.00	365
Pigs	Sows - farrow to nursery (51 lbs)			0.313	-	
rigo	Boars (artificial insemination units)			0.2	-	
	Weanlings, Nursery (11-51 lbs)	2,270		0.033	74.91	365
	Growers / Finishers (51-249 lbs)	4,430		0.143	633.49	365
	Broilers			0.005	-	
	Roasters			0.01	-	
Chickens	Layers	18,500		0.0083	153.55	365
Omenens	Pullets	9,500		0.0033	31.35	365
	Broiler breeder pullets			0.0033		
	Broiler breeder hens			0.01	-	
	Broilers (See Note 1)	12,000	18,000	0.01	300.00	365
Turkeys	Heavy Toms			0.02	-	
	Heavy Hens	27,800	24,000	0.01	518.00	365
Horses	Mares			1.333	-	
Sheep	Ewes			0.2	-	
	Feeder lambs			0.063	-	
Other Livestock	Туре:				-	
TITLE TOUR	Type:				-	
				Total AUs	1,889	

Footnotes

expanding to 30000 are calculated as equal to AU for broilers

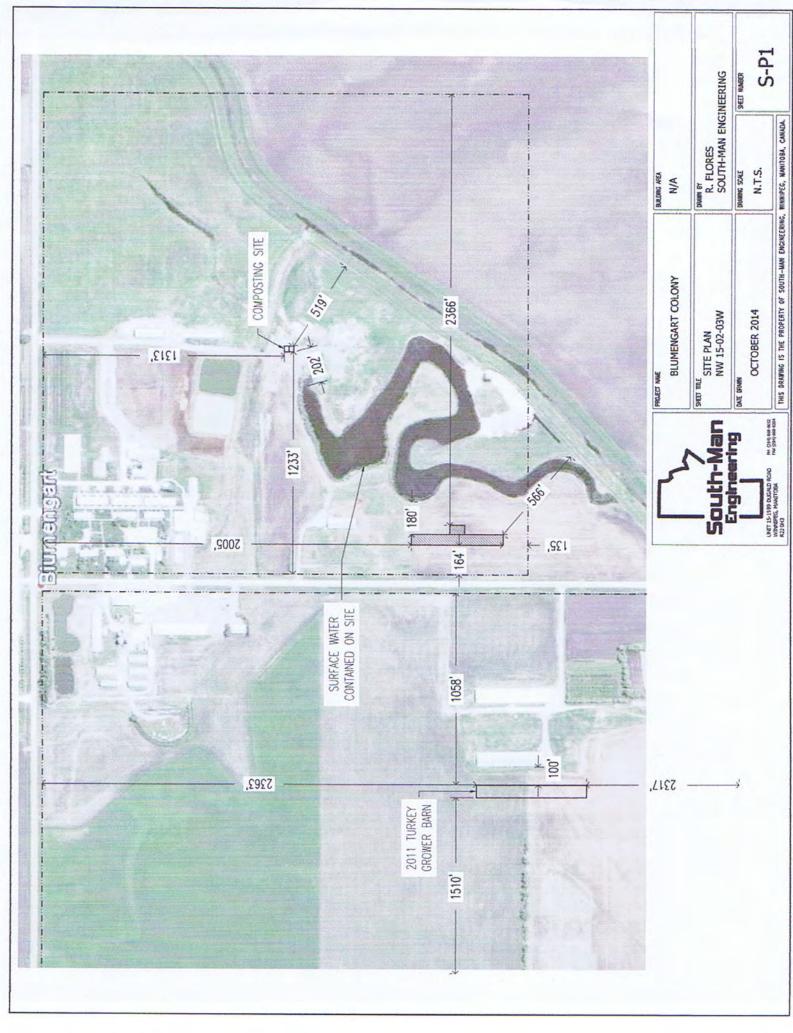
For all other livestock or operation types please inquire with your Manitoba Agriculture, Food and Rural Initiatives GO office to determine the animal units per head. www.gov.mb.ca/agriculture/contact/agoffices.html

There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in Manitoba, 1995). You can enter the total number of mature cows in the milking herd under the "Mature cows (lactating and dry) including associated livestock" category and the animal units will be calculated by multiplying this number by 2. This calculation assumes 85 lactating, 15 dry, 12 heifers (0 to 3 months), 36 heifers (4 to 13 months) and 50 heifers (> 13 months) for an operation with 100 mature cows. "Associated livestock" includes all of the heifer calves and replacement heifers. Alternatively, you can enter animal numbers in the individual categories (mature cows, heifers (0 to 3 months), heifers (4 to 13 months) and heifers (> 13 months)) and they will be summed at the bottom of the table. Bulls and veal calves are always calculated separately.

A permit under the Livestock Manure and Mortalities Management Regulation is not required for an indoor housing area or barn unless there is a manure storage facility within the building (an under barn storage capable of storing manure for 30 days or more).

Show all existing, proposed buildings and additions to existing buildings on the project site plan. See Project Site Plan example and the Project Site Plan Guide for help creating your site plan.

X Project Site Plan attached



7.0	Environmental	Farm	Plan	ning
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Environmental farm planning is a voluntary, confidential self-assessment process designed to help farm managers identify the environmental strengths and weaknesses of their operations.

Do you have an Environmental Farm Plan X yes no

If so, is it current (completed within past 5 years) X yes no

8.0 Water

Project Sites Unsuitable for Development

To protect water quality, the <u>Nutrient Management Regulation</u> (MR 62/2008), under *The Water Protection Act*, prohibits the set up or expansion of nutrient generating facilities in Nutrient Management Zone 4 (Agriculture Capability Class 6, 7 and unimproved organic soils) and Nutrient Buffer Zones. Nutrient generating facilities include barns, confined livestock areas and manure storage facilities.

<u>Nutrient Buffer Zone</u> as defined in section 3(3) of the regulation includes areas of land along water bodies such as rivers, lakes, streams and drains.

The proposed indoor housing area, barn, confined livestock area and/or manure storage facility:

will will will not X

be located within Nutrient Management Zone 4 (Class 6, 7 and unimproved organic soils) or any Nutrient Buffer Zone.

Determine the agriculture capability class(es) of the project site, and its limitations. This information is available from Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at 204-945-3869 in Winnipeg. Alternatively, operations with GIS mapping software can access information through Manitoba Land Initiative (MLI) website. In addition, information from MLI can also be viewed on Google Earth. Both the download for Google Earth and the registration for MLI are free. Click here for instructions under the MLI website.

Water Source

To be sustainable, a livestock operation must have access to a sufficient quantity and quality of water for livestock.

Water source	for o	peration:
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X pipeline (public)	water co-operative	2
proposed well	existing well	
river	lake	
dugout (dimension	is: x x)	

If using an existing well, provide a copy of the water well log and logs for other wells on the property. Logs can be obtained from Manitoba Conservation and Water Stewardship by calling (204) 945-7418 in Winnipeg; 1-800-214-6497 toll free.

Source Water Analysis Reports

Annual livestock source water monitoring analysis reports must be submitted to Manitoba Conservation and Water Stewardship for any operations of 300 Animal Units or more.
If an existing livestock operation of 300 Animal Units or more, have you submitted an annual source water monitoring report for the current calendar year? X yes no
Will livestock have direct access to surface water (not including dugouts)? ☐ yes ☒ no
If yes, identify: Name of the surface water feature:
List any steps that will be taken to prevent direct access of livestock to the water body.
n/a (poultry barns)
Water Requirements
Protecting the interests of domestic users and the environment, in addition to existing licensees, is the intended purpose of the water rights licensing scheme.
In order to protect the sustainability of water sources, all operations using more than 25,000 litres (5,499 imperial gallons) per day must possess a Water Rights Licence required by the Water Rights Regulation (MR 126/87) under <i>The Water Rights Act</i> .
For more information on the Water Rights Licensing process, contact the Water Use Licensing Section at (204) 945-3983 in Winnipeg; 1-800-214-6497 toll free.
Water Use ? To calculate the total water use, go to the <u>Water Requirement Calculation Table</u> .
Maximum daily use: 35,754 X imperial gallons or litres Maximum annual use: 13,050,028 acre-feet or cubic decameters
▼ Water Requirement Calculation Table attached
Groundwater (Contamination Risk Protection)
Improper storage and handling of manure or mortalities increases the risk of contaminating

Improper storage and handling of manure or mortalities increases the risk of contaminating groundwater. Beneficial management practices (BMP), mitigation measures and requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction and management of manure storage structures reduce the risk of contaminating groundwater.

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison				
Feeder/heifer/steer (600 lb.)	32*	5	9	288
Feeder (900 lb.)		7	12	
Feeder (1250 lb.)		10	15	-
Cow/calf pair		12	15	
Dry cow		10	12	
Milking cow	5	25	30	150
Bison		8	10	-
Horses				
Horses		8	11	-
Hogs				
Sow (Farrow/wean)	600	6.	5	3,900
Dry Sow/Boar		4		
Feeder	4,430	3	3	13,290
Nursery (33 lb.)	2,270	2	2	4,540
Chickens				
Broilers		0.0	35	
Roasters/Pullets	9,500	0.0	04	380
Layers	18,500	0.0	55	1,018
Breeders		0.0	07	-
Turkeys				
Turkey Growers	30,000	0.1	13	3,900
Turkey Heavies	51,800	0.1	16	8,288
Sheep/Goats				
Sheep/Goats		2		-
Ewes/Does		3		-
Lambs/Kids (90 lb.)		1.	6	-
		TOTAL	(IG/day)	35,754

ror beer, dairy, bison and norse enterprises:

Use summer numbers if appropriate for the operation. Otherwise base projections on winter values.

Always use the greater of the two values.

* All replacement heifers and any occasional steer (32 in total) from the dairy herd are listed here.

> Enter this number on page 7 of Application Form.

Other consumption values:

Normal household consumption: 40-55 IG/day per person or (180-250 I/day/person)

Hydrant flow: 10 imperial GPM (45 l/min)

U	nit Conversion	ns
Total per day	Total per year	Unit
35,754	13,050,028	IG
162,535	59,325,425	litres
0.163	59	cubic decametres (dam³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 I/m

Check off the mitigation measures used for the existing components of the operation that may pose a risk of contamination. Also check off any measures that may be used with the proposed components for this expansion, if applicable:

	Existing	Proposed
Manure is stored in a storage facility built by permit or registered	X	П
by Manitoba Conservation and Water Stewardship Storage includes leachate collection		Layer barn
Earthen storage has between 400 and 500 days storage	X	Layer Darii
Steel/concrete tank has between 250 and 500 days storage	X	H
Manure storage facility meets required setbacks	X	
Field storage (solid manure) locations are changed annually	X	X
Field storage meets required setbacks	X	X
All application fields are soil tested annually for nitrate-N and Olsen phosphorus	X	X
All manure is applied according to a manure management plan	X	[X]
Licensed commercial manure applicator is used to apply manure		Spread by
Abandoned wells have been properly sealed		Colony
		X
Other:		
At this point, we are not aware of any abandonned well	is that wo	uld
require sealing; should we find any, we will seal them.		

Building in Flood Areas

The <u>Livestock Manure and Mortalities Management Regulation</u> prohibits an operator from putting a manure storage facility within the boundaries of the 100-year flood plain elevation. <u>Manure storage facilities</u> that are constructed with protection for a flood-water level at least 0.6 meters higher than the 100-year flood water level are exempt.

The <u>Designated Flood Area Regulation</u> under *The Water Resources Administration Act* requires a Designated Flood Area Permit before a proposed structure (such as a barn) can be built within a Designated Flood Area.

The flood protection level for structures located within a Designated Flood Area is the site specific design flood level plus freeboard, as provided by the Hydraulic Forecasting Branch of Manitoba Infrastructure and Transportation. Contact the Hydrologic Forecasting Branch at (204) 945-2121 in Winnipeg; 1-800-214-6497 toll free.

The proposed site:
is is is not X

located in a Designated Flood Area: <u>Red River Valley Designated Flood Area</u> or <u>Lower Red River Designated Flood Area</u>

Note: At the time a permit is issued, verification is needed to ensure any proposed structure(s) are located within the 100-year flood plain elevation; or at an elevation set by Manitoba Infrastructure and Transportation.

Watershed Management Planning

Integrated watershed management planning is a co-operative effort by local residents, stakeholders and governments to create a long term plan to manage water and land-based activities for watersheds.

What are the names of the <u>watershed</u> and <u>sub-watershed</u> where the livestock operation and the fields identified for manure application are located?

Name of watershed(s): ______ Red River

Name of sub-watershed(s): _____ Pembina River

Name of Integrated Watershed Management Plan for the proposed project site, if applicable: ______ n/a

For more on Integrated Watershed Management Planning, call Watershed Planning and Programs at (204) 945-7408 in Winnipeg; 1-800-214-6497 toll free.

9.0 Manure

The <u>Livestock Manure and Mortalities Management Regulation</u> sets requirements for the use, management and storage of livestock manure in agricultural operations, to ensure it is handled in an environmentally sound manner. For more information on this, call Manitoba Conservation and Water Stewardship at (204) 619-2230 in Winnipeg.

Improper storage, handling and/or land application of manure can contaminate water and/or cause unacceptable odours for neighbours. The following is used to assess the manure management system.

Manure Type

The type of manure generated and used by the operation influences storage, handling and land application options available.

What type(s) of manure will be generated?

X solid semi-solid I liquid
All but hog operation's Hog manure

Manure Volume or Weight

Manure production can be estimated using the Manure Production Calculator Table. The sizing of the manure storage is the responsibility of the operator and must be constructed in accordance with the Livestock Manure and Mortalities Management Regulation.

Design and construction of a manure storage facility is dependent on the type of structure; earthen manure storage facilities must have between 400 and 500 days capacity, a steel or concrete storage tank must have between 250 and 500 days capacity. This ensures the facility has sufficient capacity eliminating the need for winter application.

What will be the total volume or weight of manure generated annually by the livestock operation? (See Manure Production Calculator Table.)

liquid volume: 4,126,082 igal solid weight: 342,330 ft
Manure Production Calculator Table attached
Manure Storage Type and Capacity The type of storage system used will affect the capacity requirements for the manure storage facility or field storage area.
What type of manure storage facility will be used by the operation? under-barn concrete earthen manure storage concrete tank(s) steel tank(s) field storage molehill FOR TURKEY OPERATION.
Provide the dimensions of the existing and/or proposed manure storage facilities, if applicable. (See Existing and Proposed Manure Storage Facility Dimensions Table.)
X Existing and Proposed Manure Storage Facility Dimensions Table attached
Odour Control Measures (project site) Barns and manure storage facilities can be significant sources of livestock odours. The use of manure storage covers and shelterbelts can reduce this, particularly for neighbours in the vicinity of the operation.
What odour control measures are you planning to use? Manure storage cover: yes no Type of cover:
Shelterbelt planting: yes X no existing shelterbelt
Other measures (specify): after each cycle and field stored as solid dry manure. Odour emissions, if any, will be minimal.
Manure Treatment Under The Environment Act, the director must not issue a permit for the modification, expansion, or construction of a manure storage facility accommodating an increase in the number of animal units for pigs, unless the manure is treated using anaerobic digestion or another environmentally sound treatment that is similar to or better than anaerobic digestion, according to Manitoba Conservation and Water Stewardship.
Does your proposal include anaerobic digestion or another environmentally sound treatment for manure?
☐ yes ☐ no 🕱 not applicable

			Dally M	Daily Manure Production					
Animal Type (A)	Animal Sub-type (B)	References (C)	Manure Type (D)	Default Manure Production (ft ² /animaVday) (E)	Operation Manure Production 1 (ft²/animal/day) (fF)	Production Period ² (Days) (G)	Number of Animals (Capacity) (H)	Total Manure Volume (ft²) (FxGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
			Semi-Solid 5	3.5					00
	Free Stall		Solid	3.4					200
Parlers insilitions ages		Taking and	Liquid 5	3.5					0.0
and accordated	_	EDGe for Daloy	Semi-Solid 5	3.6					0.0
[vestock)	Tie Stall	1995	Solid	3.5	4.13	365	9	7,537.25	
			Liquid 5	3.6					0.0
	Loose Housing		Solid	3.0	3.4	365	32	39.712.00	
	Milking Parlour Manure and Washwater		Liquid	0.5					
	Beef cows including associated livestock		Solid	1.2					
Beef	Backgrounder (200 day)	pg 117, FPGs for		0.73					
	Summer pasture / replacement helfers	Hogs 1898	Solid	0.85					
	Feeder cattle		Solid	1.1					
	Sows - farrow to finish (234 - 254 lbs)		Liquid	2.3					
	Sows - farrow to wean (up to 11 lbs)	MAFRI website,	Liquid	0.8	9.0	365.00	009	175.200.00	1.091.496.0
Pigs	Sows - farrow to nursery (51 lbs)	FPGs for Pigs	Liquid		-	365.00			0.0
	Weanlings, Nursery (11 - 51 lbs)	2002	Liquid	0.1	0.1	365.00	2,270	82,855.00	516,186.7
	Grower / Finisher (51 - 249 lbs)		Liquid	0.25	0.25	365.00	4,430	4	2,518,399.6
				Yearly Manure Production	uction			4	Total Manure Volume
Animal Type	Type of Operation		Default Man (ft²/year/	Default Manure Production (ft²/year/bird space)	Operation Manure Production ((ft²)yearibird space)	Production Period ² (Days)	Number of Birds 2 (Capacity)	Volume (ft²) (F/365xGxH)	for Semi-Solid and Liquid Manure (Imp Gal)
	Brollers - floor 6			1.23					
	Broiler breeder hens 7			2.3					
	Broiler breeder pullets 6			0.99					
	Roesters - floor 6			1.16					
Chickens	Layers - cage *	lable 3, pg 85,		2.33					00
	Layers - floor 7	2000 POURY		1.68				-	
	Layers - solid pack 9				1.68	365	18,500	31,080	
	Pullets - cago ⁿ		3	0.71					00
	Pullets - floor 6		3	0.75					
	solid pack *				0.75	365	9,500	7,125	
		Table 3, pg 85,		2.83	2.83	365	30,000	84,900	
Turkeys		FPGs for Poultry		5.58	5.58				
	Heavy hens ⁶	2000	e)	3.32	3.32	365	51,800	171,976	

Sking of a manure storage facility in accordance with all requirements of the Livestock Manure and Mortalities Management Regulation (M.R. 42/98) is the responsibility of the operator.

Instructions and footnotes:

ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in colum E. References for default delity and yearly manure production are provided in column C.
ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage facilities the minimum storage requirement is 250 days.

ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity),

Milking cows includes all lactating and dry cows.

Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.

² inches of wood shavings or 4 inches of straw placed on sloor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/lt² One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft?

Manure removed from barn at 90% moisture content with a density of 59 lb/ft³

Poultry sperations using litter (solid pack) must provide an essimate of yearly manure production

If yes, please describe	
Manure Application Method	
The <u>Livestock Manure and Mortalities Management Regulation</u> registration of annual manure management plans for new or expand Animal Units or more.	
Does the operation currently file an annual Manure Management Manitoba Conservation and Water Stewardship? (For operations we more, only)	with 300 Animal Units or MITTED FOR TURKEY E SUBMITTED GOING plied affect odour,
Proposed application method: broadcast broadcast broadcast and incorporation within 48 hours The Livestock Manure and Mortalities Management Regulation application of manure from November 10 of one year to April 10 of (winter application).	n prohibits the
Time of year for application: X spring summer X fall	
The <u>Livestock Manure and Mortalities Management Regulation</u> application of manure in the Red River Valley Special Management	n puts restrictions on fall at Area.
The proposed spread fields: are \(\times \) A limited number of fields are located into the RRVSMA are not \(\times \) in the \(\text{Red River Valley Special Management Area} \).	
Land Available for Manure Application The land available for manure application includes all suitable land under agreement) that is available to the operation for manure apple.	l (owned, leased or ication.

Under the <u>Livestock Manure and Mortalities Management Regulation</u> and the <u>Nutrient Management Regulation</u>, application of nutrients is not permitted on Agriculture Capability Class 6, 7 and unimproved organic soils (Nutrient Management Zone 4) and within Nutrient Buffer Zones.

Areas of a field that are Class 6, 7, unimproved organic soils (Nutrient Management Zone 4) or areas within the nutrient buffer zones are considered unsuitable for manure application. In addition, fields with 60 parts per million (ppm) Olsen phosphorus (P) in the top six inches (15 centimetres) of soil cannot be included in the land base calculation.

Nutrients cannot be applied within the Nutrient Buffer Zones as outlined in the Nutrient Management Regulation (62/2008) and illustrated in the <u>Setback Requirements From Water Features Table</u>.

Has the setback area for all water features been observed and excluded from land base calculations for this operation?

X yes	no

Use the Manure Application Field Characteristics Table to determine the following:

Total suitable area available for manure application

7042 acres*

X Manure Application Field Characteristics Table attached

* Fields with P levels > 50 ppm are not intended to receive manure until the P level recedes; however affected fields are still included in land available for manure application.

Copies of soil test reports that are no more than 12 months old must also be included with this submission.

X Soil test reports for the required area for manure application attached.

Land Required for Manure Application

Long term, land base requirements for manure application are calculated based on estimates of the quantity of nutrients (nitrogen and phosphorus) excreted by livestock and the removal of nutrients by the proposed crops.

Phosphorus

The quantity of phosphorus excreted by the livestock depends on the type, number and size of livestock, the quantity and availablility of phosphorus fed to the livestock and the amount retained by the livestock.

The removal of phosphorus by crops depends on the crops grown and the historical crop yield averages. (See the Crop Rotation Table).

The <u>Livestock Manure and Mortalities Management Regulation</u> requires that "sufficient land is available to the operator to implement an appropriate manure management plan" before Manitoba Conservation and Water Stewardship will issue a permit for a manure storage facility.

"Certain Areas" are defined by the <u>Livestock Manure and Mortalities Management</u>
Regulation (M.R. 42/98) as areas where the amount of phosphorus in the manure produced annually by livestock in an area of not less than 93.24 km² is greater than two times the annual crop removal rate of P₂O₅ in that area. Currently the rural municipalities of Hanover and La Broquerie are considered to be "certain areas".

A livestock operation is considered to be located within a "certain area" if any part of the operation is located within the "certain area". This may include, but not limited to, barn(s), confined livestock area(s), field storage location(s), manure storage facility(ies), and/or spread filed(s).



Benson: (320) 843-4109 SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID 1-N SAMPLE ID FIELD NAME

COUNTY 3

TWP

RANGE

SECTION 20 QTRSW/SE ACRES 150

PREV. CROP Beans-Edible

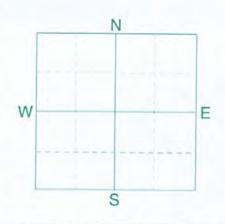
2

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020659 BOX #

LAB # NW73957

75.5

21.9

2.0

0.6

Date Sampled 09/26/2014

BLUMENGART COLONY

Date Received 09/27/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	st Cro	op Choic	e	21	d Cro	p Choice	e	3	rd Cr	op Cho	oice
		VLow	Low	Med	High.		Cor	n-Grain			Corn	-Grain			Cor	rn-Grain	
0-6"	30 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEI	D GOAL	
							120	BU			140	BU			150	o BU	-
0-24"	116 lb/ac					SUG	GESTE	D GUIDELI	NES	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast				dcast				Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPLI	CATION
Olsen	37 ppm					N	20			N	22			N	34		
Potassium	229 ppm					P2O5	0			P ₂ O ₅	0			P ₂ O ₅	15	Band	(2x2) *
0-24" Chloride	148 lb/ac		•••••			K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2×2) *
0-6" 0-24" Sulfur	68 lb/ac 480 +lb/ac					CI		Not Availab		CI		Not Availab	le	CI		Not A	vailable
Boron	1.5 ppm					S	0			S	0			s	0		-11-31
Zinc	2.99 ppm		*****	*****		В	0			В	0			В	0		
Iron	20.4 ppm					Zn	0			Zn	0			Zn	0	1	
Manganese	3.5 ppm		*****		***	Fe	0			Fe	0			Fe	0		
Copper	0.93 ppm	*****	*****	*****		Mn	0			Mn	0			Mn	0	1	
Magnesium	768 ppm	*****	*****	*****	*****	Cu	0			Cu	0			Cu	0		
Calcium	4401 ppm		*****			Mg	0			Mg	0			Mg	0	+	
Sodium	38 ppm					Lime		1		Lime			-	Lime		-	
Org.Matter	3.1 %		*****				T					0/ 5-			- /-	1-15	
Carbonate(CCE)	1.4 %					Soil p	H B	luffer pH	1	on Excl Capacit		% Ca			% K	% Na	mge)
0-6" 0-24"	0.46 mmho/cm 0.8 mmho/cm					0-6" 8	.0			29.2 me	-	(65-75)	(15-		(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 48 K20 = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.4

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 2W SAMPLE ID WEST HALF

FIELD NAME COUNTY 3

TWP 2 RANGE

SECTION 20 QTRSW ACRES 0

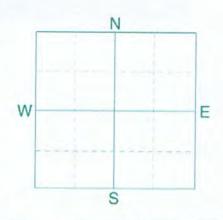
PREV. CROP Potatoes

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020707 BOX # 0

NW99763

LAB #

1200

Date Sampled 10/09/2014

Date Received 10/10/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	1:	st Cro	p Choice	2	nd Cr	op Choice	1 :	ard Cr	op Cho	lce
		VLow	Low	Med	High		Bean	s-Edible		Bean	s-Edible		Bea	ns-Edible	
0-6"	27 lb/ac						YIEL	D GOAL		YIEL	D GOAL		YIE	D GOAL	
		*****	****				2000	LBS		2500	LBS		300	0 LBS	
0-24"	48 lb/ac					SUG	GESTE	D GUIDELINES	suc	GESTE	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate							Bro	adcast		Bro	adcast			Band	
Olsen	28 ppm	*****	*****	*****	*****	LB/A	CRE	APPLICATIO	ON LB/	ACRE	APPLICATIO	N LE	/ACRE	APPLI	CATION
Phosphorus						N	52		N	77		N	102		
Potassium	180 ppm	*****	*****			P ₂ O ₅	0		P ₂ O ₅	0		P2O:	0		
0-24"	268 lb/ac					K ₂ O	0		K ₂ O	0		K ₂ O	0		
0-6" 0-24"	and the same of th	*****	The same of			CI	0		CI	0		CI	0		
Sulfur	480 +lb/ac		••••	*****	*****	5	0		5	0		S	0		
Boron	1.3 ppm			*****		В	0		В	0		В	0		
Zinc	2.35 ppm	*****	*****	*****		Zn	0		Zn	0		Zn	0		-
Iron	9.4 ppm	*****	*****	*****	*****	Fe	0		Fe	0		Fe	0	-	-
Manganese	2.0 ppm	*****	*****	*****					-		-	1		-	
Copper	0.8 ppm	*****		*****		Mn	0		Mn	0		Mn	0		
Magnesium	737 ppm	*****	*****	*****	*****	Cu	0		Cu	0		Cu	0		
Catcium	4443 ppm	*****		*****		Mg	0		Mg	0		Mg	0		
Sodium	35 ppm	****				Lime			Lime			Lime			
Org.Matter	2.4 %		***				T	1			06.07	Cabusati	on (T	nieni B	>
Carbonate(CCE)	2.3 %		*****			Soil p	HB	uffer pH	Capaci		% Base	% Mg	% K	% Na	% H
0-6" 0-24"						0-6" 8	1		29.0 m	-		15-20) 21.2	(1-7)	(0-5) 0.5	(0-5)

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

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 2 RANGE

SECTION 21 QTR SW/SE ACRES 306

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E S

RFF # 14020662 BOX #

LAB # NW63580

71.8

24.8

2.8

0.6

Date Sampled 09/19/2014

Date Received 09/20/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	lon	15	t Cro	p Choice	e	2n	d Cro	p Choice	3	rd Cr	op Cho	lce
		VLow	Low	Med	High		Wheat	t-Spring			Wheat	t-Spring		Whe	at-Spring	
0-6" 6-24"	18 lb/ac 78 lb/ac						YIELD	GOAL			YIELD	GOAL		YIEL	D GOAL	
		*****	*****	*****	-		50	BU			60	BU		65	BU	
0-24"	96 lb/ac					SUGO	SESTED	GUIDELIN	IES	SUG	GESTEC	GUIDELINES	suc	GESTE	D GUIDE	LINES
Nitrate							Broz	dcast			Broa	edcast			Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB/	ACRE	APPLI	CATION
Phosphorus Olsen	23 ppm	*****	*****	*****	*****	N	32			N	51		N	65		
Potassium	262 ppm	*****				P ₂ O ₅	0			P ₂ O ₅	a		P2O5	15	1	end ter)*
Chloride	232 fb/ac					K ₂ O	0			K ₂ O	0		K ₂ O	10		end ter)*
0-6" 6-24" Sulfur	22 lb/ac 246 lb/ac	*****				CI	0			CI	0		CI	0	1	
Boron	1.1 ppm		*****			S	0			S	0		S	0		
Zinc	3.59 ppm	*****	*****	*****	*****	В	0			В	0		В	0		
Iron	24.4 ppm		*****	*****		Zn	0			Zn	0		Zn	0		
Manganese	3.3 ppm	*****	*****			Fe	0			Fe	0		Fe	0		
Copper	0.93 ppm	*****	*****			Mn	0			Мп	0		Mn	0		
Magnesium	704 ppm	*****	*****	*****	*****	Cu	0			Cu	0		Cu	0		
Calcium	3392 ppm	*****		*****	*****	Mg	0			Mg	0		Mg	0		
Sodium	30 ppm	****				Lime				Lime			Lime			
Org.Matter	3.6 %	*****	*****				T		Cati	on Excl	nange	% Base	Saturation	on (Ty	pical Ra	nge)
Carbonate(CCE)	1.4 %	*****				Soil p	HB	uffer pH		Capacit		% Ca	% Mg	% K	% Na	% H
0-6" 6-24"	0.2 mmho/cm 0.36 mmho/cm					0-6" 7			3	23.6 me	q	(65-75)	15-20)	(1-7)	(0-5)	(0-5)

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Sol. Salts

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.6

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID 5-E-EAST 80

FIELD NAME COUNTY

TWP 2 RANGE

SECTION 21 QTR NE ACRES 160

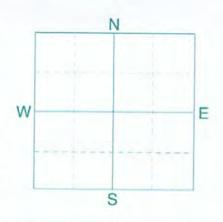
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



RFF # 17020543 BOX #

LAB # NW133336

Date Sampled 10/22/2014

Date Received 10/23/2014

Date Reported 11/25/2014

Nutrient I	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2r	d Cre	op Choice		3	rd Cr	op Ch	oice
		VLow	Low	Med	High		Bean	s-Edible			Bean	s-Edible			Bea	ns-Edible	
0-6"	27 lb/ac						YIEL	D GOAL			YIEL	GOAL			YIE	LD GOAL	
							2000	LBS			2500	LBS			300	0 LBS	
0-24"	60 lb/ac					SUG	GESTE	O GUIDELI	NES	SUG	GESTER	GUIDELINE	s	suc	GEST	D GUID	ELINES
Nitrate							Bro	adcast			Bro	adcast				Band	
-						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATI	ON	LB/	ACRE	APPL	CATION
Phosphorus Olsen	33 ppm	******	*****	*****	******	N	40			N	65			N	90		
Potassium	256 ppm	*****	*****	*****	*****	P205	0			P ₂ O ₅	Ō			P ₂ O ₅	0		
						K ₂ O	0			K ₂ O	0			K ₂ O	0		
Chloride 0-6"	24 lb/ac					CI				CI				CI			
0-24" Sulfur	432 lb/ac	•••••				s	10	Broade (Trial		s	10	Broadca (Trial)	st	s	5	Band	(Trial)
Boron	0.9 ppm		•••••			В	0			В	0	1	-	В	0		
Zinc	4.46 ppm			*****	*****	7-		-	-				-			-	
Iron	49.3 ppm	*****		*****	*****	Zn	0	-		Zn	0		4	Zn	0		
Manganese	3.8 ppm	*****			****	Fe	0			Fe	0			Fe	0		
Copper	1.02 ppm		*****			Mn	0			Mn	0			Mn	0		
Magnesium	581 ppm	*****		*****		Cu	0			Cu	0			Cu	0		
Calcium	2561 ppm					Mg	0			Mg	0			Mg	0	1	
Sodium	30 ppm					Lime	0			Lime	0		-	Lime	0	-	-
Org.Matter	3.8 %		*****	***			_										
Carbonate(CCE)	0.1 %					Soil p	H B	uffer pH		apacit	-	% Base					
0-6" 0-24"						0-6° 6.				8.4 me		% Ca (65-75) 69.5	% N (15-2 26.	(0)	% K	% Na (0-5) 0.7	% H (0-5)

General Comments: Coarse Loams (CEC range = 11 to 20) (Medium)

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY 3

TWP 2

P 2 RANGE

SECTION 28 QTRSE ACRES 161

PREV. CROP Soybeans

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020939 BOX # 0

LAB # NW72306

75.4

19.9

3.9

0.7

Date Sampled 09/25/2014

Date Received 09/26/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	d Cr	op Cho	olce
		VLow	Low	Med	High		Whea	t-Spring			Wheat	t-Spring			Whe	at-Spring	
0-6"	17 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
			*****				50	BU			60	ви			65	BU	
0-24"	60 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTED	GUIDELINE	5	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	adcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATI	ON	LB/A	CRE	APPLI	CATION
Olsen Phosphorus	41 ppm	*****	*****	*****	*****	N	60			N	87			N	101		
Potassium	581 ppm	*****				P ₂ O ₅	0			P ₂ O ₅	0		P	05	15	1	and rter)*
0-24" Chloride	280 lb/ac	•••••	*****	•••••	*****	K ₂ O	0			K ₂ O	0		К	20	10		and rter)*
0-6" 0-24" Sulfur	30 lb/ac 480 +lb/ac					CI	0			CI	0			21	0	(Stat	ter y
Boron	1.7 ppm					S	0			S	0			S	0		
Zinc	4.97 ppm		*****	*****		8	0			В	0			В	0		
Iron	14.3 ppm	*****				Zn	0			Zn	0		2	'n	0		
Manganese	2.1 ppm		*****	*****		Fe	0			Fe	0		F	e	0		
Copper	1.51 ppm	*****	*****	*****		Mn	0			Mn	0		N	In	0		
Magnesium	905 ppm	*****	*****	*****	*****	Cu	0			Cu	0		C	u	0		
Calcium	5714 ppm	*****	*****		*****	Mg	0			Mg	0		M	lg .	0		
Sodium	64 ppm	*****	****			Lime				Lime			Lin	ne			-
Org.Matter	5.2 %		*****				T		Caki	on Exch		9/4 Bac	Satur	atio	(Tree	oical Ra	naa)
Carbonate(CCE)	3.7 %	*****	*****	***		Soil p	H B	uffer pH	1	on excr Capacit	A	% Ca	% Mg	-	% K	% Na	% H
0-6" 0-24"	0.44 mmho/cm 1.94 mmho/cm			*****		0-6" 7				7.9 me		(65-75)	(15-20)	0	1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.0

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 41 K2O = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 9 SAMPLE ID FIELD NAME COUNTY 03

TWP 04 RANGE

SECTION 3 QTR SW ACRES 154

PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

Interpretation

R6W 4A5

W E S

REF # 14020643 BOX #

LAB # NW45758

2nd Crop Choice

Date Sampled 09/04/2014

Nutrient In The Soil

Date Received 09/07/2014

1st Crop Choice

Date Reported 11/25/2014

3rd Crop Choice

												p choice	11	-		op cm	Oice
		VLow	Low	Med	High		Bea	ns-Edible			Beans	-Edible			Bea	ns-Edible	
0-6"	10 lb/ac						YIE	D GOAL			YIELD	GOAL			YIE	LD GOAL	
		***					200	0 LBS			2500	LBS			300	0 LBS	
0-24"	16 lb/ac					SUGO	SESTE	D GUIDELI	NES	SUG	GESTED	GUIDELIN	ES	sug	GESTI	D GUIDI	ELINES
Nitrate							Bro	oadcast			Broz	dcast				Band	
						LB/A	CRE	APPLICA	TION	LB//	ACRE	APPLICAT	ION	LB/	ACRE	APPL	ICATION
Olsen Phosphorus	26 ppm	******	*****	*****	******	N	84			N	109			N	134		
Potassium	235 ppm	*****	*****	*****		P ₂ O ₅	0			P ₂ O ₅	ō			P ₂ O ₅	11	Ba	nd *
						K ₂ O	0			K ₂ O	0			K20	0		
Chloride 8-6"	26 lb/ac					CI				CI				CI			
G-24"	480 +lb/ac				•••••	s	15	Broade (Tria		s	15	Broadca (Trial)	- 11	s	7	Band	(Trial)
Boron						В				В				В		-	
Zinc	4.29 ppm	*****	*****	*****	*****	Zn	0			Zn	0		\dashv	Zn	0	-	
Iron						Fe			-				-			-	
Manganese								-		Fe			-	Fe		-	
Copper	1.0 ppm	*****	*****			Mn				Mn			_	Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	2.8 %		****				T		Cati	on Excl	nange	% Bas	e Satu	ratio	n (Ty	pical Ra	nge)
Carbonate(CCE)	0.0 %					Soil p	H	Suffer pH		Capacit	-	% Ca	% Mg	0/	K	% Na	% H
0-6" 0-24"	0.23 mmho/cm 0.36 mmho/cm					0-6" 8											

Crop 1: Crop Removal: P2O5 = 28 K2O = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

FIELD ID 10

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY

TWP 2 RANGE

SECTION 26 QTR SW ACRES 163

SOIL TEST REPORT

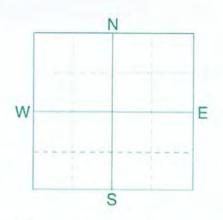
PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 16952011 BOX #

LAB # NW63572

81.0

16.6

2.0

0.4

Date Sampled 09/19/2014

BLUMENGART COLONY

Date Received 09/20/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	op Choic	e	2r	d Cro	p Choice		3	rd Cr	op Che	oice
		VLow	Low	Med	High		Cor	n-Grain			Corr	-Grain			Co	rn-Grain	
0-6"	18 lb/ac						YIEL	D GOAL			YIELI	GOAL			YIE	LD GOAL	
			*****				120	ви			140	BU			15	0 BU	
0-24"	88 lb/ac					SUG	SESTE	D GUIDELI	NES	SUG	GESTE	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Bro	adcast				Band	
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATI	ION	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	31 ppm	*****	*****		•••••	N	32			N	50			N	62		
Potassium	209 ppm					P2O5	0			P2O5	0			P2O5	15	Band	(2x2) *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 0-24" Sulfur	14 lb/ac 80 lb/ac					CI				CI				CI			
Boron	1.2 ppm					S	15	Broadc	ast	S	15	Broadcas	t	S	4	Band	(Trial)
Zinc	3.51 ppm		*****	*****	*****	В	0			В	0			В	0		
Iron	8.6 ppm	*****		*****	****	Zn	0			Zn	0			Zn	0		
Manganese	2.6 ppm	*****	*****	*****		Fe	0			Fe	0			Fe	0		
Copper	1.02 ppm	*****	*****			Mn	0			Mn	0			Mn	0		
Magnesium	536 ppm		*****		*****	Cu	0			Cu	0			Cu	0		
Calcium	4356 ppm	*****	*****			Mg	0			Mg	0			Mg	0		
Sodium	24 ppm	****				Lime				Lime				Lime			
Org.Matter	2.4 %		***				T					06 8			- (T-	nient C-	>
Carbonate(CCE)	2.8 %	*****	*****			Soil p	HB	luffer pH		on Exch Capacit	7.0	% Ca	% I	T	% K	% Na	mge)
0-6" 0-24"	0.26 mmho/cm 0.26 mmho/cm					0-6" 8	.4			26.9 me	-	(65-75)	(15-2	-	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.5

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY 03

TWP 02 SECTION 22 RANGE

OTR NE ACRES 162

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

REF # 14020660 BOX #

LAB # NW53793

83.2

14.2

2.3

Date Sampled 09/11/2014

Date Received 09/13/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retat	ion	1	st Cre	op Choic	e	2n	d Cro	p Choice	3	ard Cr	op Cho	olce
		VLow	Low	Med	High		Po	tatoes			Pot	atoes		Pota	toes-Irr.	
0-6"	18 lb/ac						YIEL	D GOAL			YIELI	GOAL		YIE	LD GOAL	
			****				300	Cwt			350	Cwt		400	Cwt	
0-24"	48 lb/ac					SUG	GESTE	D GUIDELI	NES	SUG	GESTER	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate							Broade	cast/Maint.			Broadc	ast/Maint.			Band	
						LB//	ACRE	APPLICA	TION	LB/A	ACRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Oisen	36 ppm	*****	*****			N	72			N	97		N	142		
Potassium	236 ppm					P ₂ O ₅	54	Broadc	ast	P ₂ O ₅	63	Broadcast	P2O5	50	Band	(2x2) *
0-24"	80 lb/ac	*****				K ₂ O	150	Broadc	ast	K ₂ O	175	Broadcast	K ₂ O	50	Band	(2x2) *
0-6" 0-24"	38 lb/ac 440 lb/ac					cı		Not		CI		Not Available	CI		Not A	vailable
Boron	1.7 ppm		*****			S	0			s	0		S	0		
Zinc	4.51 ppm		*****	*****		В	0			В	0		В	0		
Iron	11.3 ppm	*****				Zn	0			Zn	0		Zn	0		
Manganese	2.7 ppm	*****	*****	*****		Fe	0			Fe	0		Fe	0		
Copper	1.25 ppm		*****	*****		Mn	0			Mn	0		Mn	0		
Magnesium	443 ppm	*****	*****		*****	Cu	0			Cu	0		Cu	0		
Calcium	4328 ppm		*****	*****	*****	Mg	0			Mg	0		Mg	0		
Sodium	15 ppm					Lime				Lime			Lime			
Org.Matter	2.6 %		****				T		Cati	on Exch	22000	% Base	Saturati	on (Ty	nical Pa	nga)
Carbonate(CCE)	2.0 %	*****	****			Soil	H E	Suffer pH	1	Capacit	-	% Ca	% Mg	% K	% Na	% H
0-6" 0-24"	0.24 mmho/cm 0.32 mmho/cm					0-6" 8				26.0 me	_		(15-20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 54 K2O = 150 A GVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them. Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 63 K2O = 175 AGVISE Broadcast/Maintenance guidelines will build P & K test levels to the high range over several years and then maintain them.

6-24" 8.4

Crop 3: ** Chloride yield data is limited for this crop. * 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. Phosphorus guidelines for irrigated potatoes have been adjusted based on carbonate levels. Crop Removal: P2O5 = 72 K2O = 200 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID

SAMPLE ID Z2-LIGHT GREEN

FIELD NAME

COUNTY 3

TWP SECTION 26 RANGE

QTRSE ACRES 157

PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

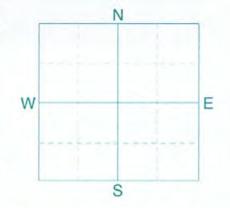
KR CROP CHECK LIMITED

12085 RD 23 W (DICKE

BOX 240

WINKLER, MB

R6W 4A5



REF # 16953087 BOX #

LAB # NW127391

Date Sampled 10/20/2014

Date Received 10/21/2014

Date Reported 11/25/2014

1.8

0.6

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice	:	3	rd Cr	op Cho	ice
		VLow	Low	Med	High		Bean	s-Edible			Beans	-Edible			Bear	ns-Edible	
0-6"	26 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
		*****	*****				2000	LBS			2500	LBS			300	0 LBS	
0-24"	64 lb/ac					SUG	SESTE	D GUIDELIN	NES	SUG	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	dcast			1	Band	
Olsen	26 ppm					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPLI	CATION
Phosphorus						N	36			N	61			N	86		
Potassium	203 ppm	*****	*****	*****	*****	P ₂ O ₅	0			P ₂ O ₅	0			P2O5	11	Bar	d *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	0		
0-6" 0-24"	60 lb/ac 480 +lb/ac					CI				CI				CI			
Sulfur	480 +IB/ac		*****			S	0			S	0			S	0		
Boron	1.4 ppm					В	0			В	0			В	0		
Zinc	2.82 ppm	*****	*****	*****		Zn	0			Zn	0			Zn	0		
Iron	9.4 ppm		*****			Fe	0			Fe	0			Fe	0		
Manganese	1.8 ppm	*****	*****	****		Mn	0			Mn	0			Mn	0	+	
Copper	0.84 ppm	*****	*****	*****		Pilit	U	-		Inii	0		-	MIL	0	-	
Magnesium	573 ppm	*****	*****	*****		Cu	0			Cu	0			Cu	0		
Calcium	4816 ppm	*****	*****	*****	*****	Mg	0			Mg	0			Mg	0		
Sodium	44 ppm	*****				Lime				Lime				Lime			
Org.Matter	3.1 %		*****				T		Cati	on Excl	nange	% Bas	e Sat	turation	n (Tv	pical Ra	nge)
Carbonate(CCE)	3.4 %		*****	**		Soil p	H	Suffer pH		Capacil	_	% Ca	%		% K	% Na	% H
0-6" 0-24"	0.5 mmho/cm 0.66 mmho/cm					0-6" 8				29.6 me	-	(65-75)	(15-	20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P2O5 = 35 K2O = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P2O5 = 42 K2O = 42 AGVISE Band guidelines will build P & K test levels to the medium range

6-24" 8.4



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

COUNTY 03 TWP 02

SECTION

22

RANGE

ACRES 150

PREV. CROP Beans-Edible

14

SUBMITTED BY: KR3239

OTR SE

SOIL TEST REPORT

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E S

REF # 14020661 BOX #

LAB # NW53796

82.9

15.1

1.7

0.3

Date Sampled 09/11/2014

Date Received 09/13/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		3rd C	rop Cho	lce
		VLow	Low	Med	High		Whea	t-Spring			Wheat	t-Spring		Whe	at-Spring	
0-6"	23 lb/ac						YIEL	D GOAL			YIELD	GOAL		YIE	LD GOAL	
				***			50	BU			60	BU		6	5 BU	
0-24"	76 lb/ac					SUGO	ESTE	GUIDELI	NES	SUG	GESTED	GUIDELINE	s s	JGGEST	ED GUIDE	LINES
Nitrate							Bro	adcast			Broz	dcast			Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATI	ON L	B/ACRE	APPLI	CATION
Olsen	39 ppm	*****	*****			N	44			N	71		N	85		
Potassium	237 ppm	*****	*****			P ₂ O ₅	0			P ₂ O ₅	0		P ₂ C	5 15		and rter)*
0-24" Chloride	68 lb/ac	•••••	•••••		•••••	K ₂ O	0			K ₂ O	0		K ₂ (10		and rter)*
0-6" 0-24"	16 lb/ac 480 +lb/ac					CI	0			CI	0		CI	0	(542.	
Boron	2.7 ppm		*****			S	0			s	0		S	0		
Zinc	4.35 ppm					В	0			В	0		В	0		
Iron	12.8 ppm		*****			Zn	0			Zn	0		Zn	0		
Manganese	2.8 ppm					Fe	0			Fe	0		Fe	0		
Copper	1.89 ppm	*****	*****	*****		Mn	0			Mn	0		Mn	0		
Magnesium	642 ppm	*****	*****	*****		Cu	0			Cu	0		Cu	0		
Calcium	5856 ppm		*****	*****		Mg	0			Mg	0		Mg	0		
Sodium	21 ppm	***				Lime				Lime			Lim	e		
Org.Matter	4.5 %		*****	*****			T		Catt	on Excl	ange	% Bas	e Satural	ion (Ty	pical Ra	nge)
Carbonate(CCE)	4.8 %	*****	*****	*****		Soil p	HB	uffer pH		Capacit	-	% Ca	% Mg	% K	% Na	% H
0-6" 0-24"	0.34 mmho/cm 0.93 mmho/cm					0-6" 8	- 1		3	35.3 me	q	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24' 8.3

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fartilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR: BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 15-S

SAMPLE ID SOUTH POINTS

FIELD NAME

COUNTY 3

TWP 2

RANGE

SECTION 22 QTRSW ACRES 65

PREV. CROP Soybeans

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020688 BOX # 0

LAB # NW77123

Date Sampled 09/29/2014

Date Received 09/30/2014

Date Reported 10/29/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choice		2nd	Cro	p Choice	3	3rd Crop Choice				
		VLow	Low	Med	High		VIELE	GOAL			4516	CON	-					
0-6"	16 lb/ac						VIELL	GUAL	-		TIELD	GOAL	-	YIE	LD GOAL			
		*****					0				0				0			
0-24"	40 lb/ac					SUGG	ESTED	GUIDELINES	5	SUGGE	STED	GUIDELINES	SU	GGEST	D GUIDE	LINES		
Nitrate						LB/A	CRE	APPLICATION	ON	LB/AC	RE	APPLICATIO	LB	/ACRE	APPLI	CATION		
Olsen	54 ppm			*****	******	N				N			N					
Potassium	460 ppm	*****			*****	P ₂ O ₅				P ₂ O ₅			P2O:					
						K ₂ O				K ₂ O			K ₂ O					
0-24" Chloride	292 lb/ac	*****	*****	*****	*****	CI				CI			CI					
0-6" 0-24"	42 lb/ac 480 +lb/ac					S				s			s					
Boron	1.9 ppm		*****	*****	*****	В				В			В					
Zinc	4.28 ppm				*****	Zn				Zn			Zn					
Iron	13.0 ppm	*****				Fe				Fe			Fe					
Manganese	1.7 ppm	*****	*****	****		Mn			1	Mn			Mn					
Copper	1.32 ppm		*****	*****		Cu			-	CII	-		-	-				
Magnesium	818 ppm	*****		*****	*****	Cu			-	Cu			Cu					
Calcium	5639 ppm				*****	Mg				Mg			Mg					
Sodium	44 ppm	*****				Lime				Lime			Lime					
Org.Matter	4.9 %	*****	*****	*****			T	1,	L	Evels	200	% Base	Saturati	on (Ty	nical Par	nge)		
Carbonate(CCE)	2.1 %	*****	****			Soil pH Buffer pH		ion Exchange Capacity			% Mg	% K	% Na	% H				
0-6" 0-24" Sol. Salts					****	0-6" 7. 6-24" 8.				.4 meq			15-20) 18.7	(1-7) 3.2	(0-5) 0.5	(0-5)		

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



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 15-N SAMPLE ID NORTH POINTS

FIELD NAME

COUNTY

TWP RANGE

SECTION 22 QTR SW ACRES 65

PREV. CROP Soybeans

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

RFF # 14020690 BOX #

LAB # NW77111

78.3

18.3

3.0

0.4

Date Sampled 09/27/2014

Date Received 09/30/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	on	15	t Cro	p Choic	e	21	d Cro	p Choice		31	rd Cre	op Cho	ice
		VLow	Low	Med	High		Cor	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6"	15 lb/ac						YIEL	D GOAL		YIELD GOAL					YIEL	D GOAL	
						120	BU			140	BU			150	BU		
0-24"	32 lb/ac					SUG	SESTE	GUIDELIN	NES	SUG	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate				Broadcast						Broa	dcast		Band				
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATION		LB/ACRE		APPLI	CATION
Olsen	52 ppm		•••••	*****	*****	N	82			N	106			N	118		
Potassium	374 ppm					P2O5	0			P2O5	0			P ₂ O ₅	15	Band	(2x2) *
0-24"	100 lb/ac					K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 0-24" Sulfur	18 lb/ac 480 +lb/ac		1			CI		Not Availab		CI		Not Available	e	CI		Not Av	railable
Boron	1.8 ppm			*****		s	0			S	0			s	0		
Zinc	5.64 ppm	*****	*****	*****	*****	В	0			В	0			В	0		
Iron	15.7 ppm	*****		*****	*****	Zn	0			Zn	0			Zn	0		
Manganese	2.0 ppm		*****	*****		Fe	0			Fe	0			Fe	0		
Copper	1.51 ppm	*****	*****	*****		Mn	0			Mn	0			Mn	0		
Magnesium	699 ppm	*****	*****		*****	Cu	0			Cu	0			Cu	0		
Calcium	4997 ppm	*****	*****			Mg	0			Mg	0			Mg	0		
Sodium	31 ppm					Lime				Lime				Lime			
Org.Matter	5.2 %		*****				T	-	Cali	on Exc	hange	% Bas	e Sat	aturation (Typical Range)			
Carbonate(CCE)	1.5 %		**			Soil	H B	Suffer pH		Capaci	_	% Ca		Mg	% K	% Na	% H
0-6" 0-24"	0.47 mmho/cm 1.36 mmho/cm		1			0-6" 7	.8	-		31.9 m	eq	(65-75)	(15-	20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.0

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2OS = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 16 SAMPLE ID FIELD NAME COUNTY

TWP 2 RANGE

SECTION 22 OTR NW ACRES 163

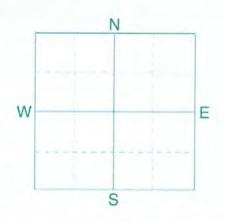
PREV. CROP Soybeans

SUBMITTED BY:

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020689 BOX #

LAB # NW77107

80.3

16.8

2.1

0.7

Date Sampled 09/27/2014

Date Received 09/30/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	d Cr	op Cho	oice
		VLow	Low	Med	High		Cor	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6"	18 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
							120	BU			140	BU			150	BU	
0-24"	32 lb/ac					SUG	SESTE	GUIDELI	NES	SUG	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	dcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	39 ppm	•••••				N	82			N	106			N	118		
Potassium	292 ppm					P2O5	0			P _Z O ₅	0		-	P2O5	15	Band	(2x2) *
0-24" Chloride	348 lb/ac					K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2×2) *
0-6" 0-24" Sulfur	120 +lb/ac 480 +lb/ac					CI		Not		CI		Not Available		CI		Not A	vailable
Boron	2.1 ppm		*****			s	0			S	0			s	0		
Zinc	3.65 ppm			*****		В	0			В	0			В	0		
Iron	10.8 ppm		*****	*****		Zn	0			Zn	0			Zn	0		
Manganese	1.8 ppm		*****	****		Fe	0			Fe	0			Fe	0		
Copper	1.27 ppm	*****	*****	*****		Mn	0			Mn	0			Mn	0		
Magnesium	709 ppm	*****	*****	*****	*****	Cu	0			Cu	0			Cu	0		
Calcium	5633 ppm	*****	*****	*****		Mg	0			Mg	0		1	Mg	0		
Sodium	57 ppm	*****				Lime				Lime				Lime		1	
Org.Matter	4.4 %		*****				T		C-11	an Evel		06 Bac	Satu	Saturation (Typical Range			
Carbonate(CCE)	4.7 %	*****	*****	*****		Soil p	H B	uffer pH		on Exch Capacit	-	% Ca	% M		% K	% Na	% H
0-6" 0-24"	0.5 mmho/cm 1.61 mmho/cm					0-6" 8	.0			35.1 me	-	(65-75)	(15-20		1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.2

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY 03

TWP 02 RANGE

SECTION 15 QTR NE/SE ACRES 188

PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

REF # 14020927 BOX #

LAB # NW44887

Date Sampled 09/03/2014

Date Received 09/04/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	op Choic	e	2r	d Cro	p Choice	3	3rd Crop Choice				
		VLow	Low	Med	High		Bear	s-Edible			Beans	s-Edible		Bea	ns-Edible			
0-6"	13 lb/ac						YIEL	D GOAL			YIELI	GOAL		YIELD GOAL				
		•••••					2000	LBS			2500	LBS		300	0 LBS			
0-24"	24 lb/ac					SUG	GESTE	D GUIDELIN	NES	SUG	GESTER	GUIDELINES	SU	GGESTE	D GUIDE	LINES		
Nitrate							Bro	adcast			Broa	adcast			Band			
Olsen						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATIO	N LB	/ACRE	APPLI	CATION		
Phosphorus	22 ppm		*****	*****	*****	N	76			N	101		N	126				
Potassium	278 ppm	*****	*****	*****	*****	P ₂ O ₅	0			P ₂ O ₅	0		P205	20	Ва	nd *		
0-24"	148 lb/ac					K ₂ O	0			K20	0		K ₂ O	0				
Chloride 0-6"	24 lb/ac					CI	0			CI	0		CI	0				
0-24" Sulfur					•••••	S	10	Broadc (Trial		S	10	Broadcast (Trial)	s	5	Band	(Trial)		
Boron	1.5 ppm	*****	*****	*****	****	В	0	1		В	0	1	В	0	1			
Zinc	3.18 ppm	*****	*****	*****	*****	Zn	0	-	-	Zn	0		Zn	0	-			
Iron	21.9 ppm	*****		*****				-	_			-	-	-	-			
Manganese	3.1 ppm	*****	*****	*****	48	Fe	0		_	Fe	0		Fe	0	-			
Copper	1.09 ppm	*****	*****			Mri	0			Mn	0		Mn	0				
Magnesium	694 ppm	*****	*****	*****	*****	Cu	0			Cu	0		Cu	0				
Calcium	3940 ppm	*****		*****		Mg	0			Mg	0		Mg	0				
Sodium	26 ppm					Lime				Lime			Lime					
Org.Matter	4.6 %	*****	*****	*****			T		Cabi	an Eval		% Base	Saturati	on (Tv	nical Pa	nna)		
Carbonate(CCE)	0.8 %	****				Soil pH Bu		Buffer pH		on Excl Capacil	-	% Ca	% Mg % K		% Na	% H		
0-6" 0-24"	The state of the s	******				0-6" 7			3	26.3 me	q		(15-20)	(1-7)	(0-5)	(0-5)		

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

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 18

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY

TWP 2

SECTION 15 QTR SW ACRES 238

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

RANGE

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

REF # 16952026 BOX #

LAB # NW71953

Date Sampled 09/25/2014

Date Received 09/26/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choice	e	2n	d Cro	p Choice	3	rd Cr	op Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Corn	-Grain		Cor	n-Grain	
0-6"	18 lb/ac						YIELI	GOAL			YIELD	GOAL		YIEL	D GOAL	
						120	BU			140	BU		150 BU			
0-24"	48 lb/ac					SUG	GESTED	GUIDELIN	NES	SUGO	GUIDELINES	SUC	SUGGESTED GUIDELINES			
Nitrate							Broa	dcast			Broa	dcast		E	Band	
						LB/A	CRE	APPLICA"	TION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLI	CATION
Olsen	34 ppm	•••••	*****	*****		N	66			N	90		N	102		
Potassium	247 ppm					P2O5	0			P ₂ O ₅	0		P2O5	15	Band	(2x2) °
Chloride						K20	0			K ₂ O	0		K ₂ O	10	Band	(2x2) *
0-6" 0-24"	20 lb/ac 56 lb/ac					CI				CI			CI			
Sulfur	1.0 ppm					s	10	Broadc (Trial)	-	S	10	Broadcast (Trial)	S	5	Band ((Trial)
Zinc	3.45 ppm		*****	*****		В	0			В	0		В	0		
Iron	11.1 ppm					Zn	0			Zn	0		Zn	0		
Manganese	2.4 ppm	*****	*****	*****		Fe	0			Fe	0		Fe	0		
Copper	0.89 ppm	*****	*****			Mn	0			Mn	0		Mn	0		
Magnesium	356 ppm	*****	*****	*****	****	Cu	0			Cu	0		Cu	0		
Calcium	3626 ppm		*****		*****	Mg	0			Mg	0		Mg	0		
Sodium	13 ppm	••				Lime				Lime			Lime			
Org.Matter	3.0 %		*****				T		Cabi	on Excl	ange	% Base :	Saturation	on (Tvi	pical Ra	nge)
Carbonate(CCE)	3.0 %	*****	*****			Soil	H B	uffer pH		Capacit			% Mg	% K	% Na	% H
0-6" 0-24"	0.24 mmho/cm 0.23 mmho/cm					0-6" 8				21.8 me	q	(65-75) (1 83.2	5-20) 13.6	(1-7)	(0-5)	(0-5)

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

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 19E

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY 3

TWP 2

RANGE

SECTION 16 QTRSE ACRES 170

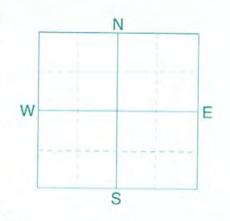
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB R6W 4A5



REF # 17020511 BOX # 0

LAB # NW129998

Date Sampled 10/21/2014

Date Received 10/22/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	op Choic	e	21	d Cro	p Choic	e	3	rd Cr	op Ch	oice
		VLow	Low	Med	High		Whea	t-Spring			Wheat	t-Spring			Whe	at-Spring	9
0-6"	14 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
			***				50	BU			60	BU			65	ви	
0-24"	44 lb/ac					SUG	SESTE	GUIDELL	NES	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	D GUID	ELINES
Nitrate							Bro	adcast			Broa	dcast			1	Band	
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICAT	ION	LB/	ACRE	APPL	CATION
Olsen Phosphorus	43 ppm	******	*****	*****	•••••	N	91			N	118			N	132		
Potassium	301 ppm	*****				P ₂ O ₅	0			P ₂ O ₅	0			P ₂ O ₅	15		and rter)*
Chloride	42 lb/ac					K ₂ O	0			K ₂ O	0			K ₂ O	10		and rter)*
0-24" Sulfur				100000		CI				CI				CI			
Boron						S	0			S	0			s	0		
Zinc						В				В				В			
Iron						Zn				Zn				Zn			
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu			
Calcium						Mg				Mg				Mg		1	
Sodium						Lime				Lime				Lime			
Org.Matter	2.0 %									-		96 P-			- (T-	iant C	>
Carbonate(CCE)	3.5 %	*****		**		Soil pH		uffer pH		Capacity						% Na	nge)
0-6" 0-24"	0.28 mmho/cm 0.3 mmho/cm	*****				0-6° 8				- Sparen	,	70 Ca	% M	g y	0 10	70 NA	₩ H

Crop 1: Crop Removal: P205 = 31 K20 = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 19W

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY 3

TWP 2 RANGE

SECTION 16 QTRSW ACRES 120

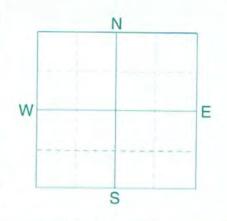
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 17020506 BOX # 0

LAB # NW129979

Date Sampled 10/21/2014

Date Received 10/22/2014

Date Reported 11/25/2014

Nutrient I	n The Soil	In	terp	retati	ion	1:	st Cro	p Choic	e	21	d Cre	p Choic	e	3	rd Cr	op Ch	oice
		VLow	Low	Med	High		Whea	t-Spring			Whea	t-Spring			Whe	at-Sprin	g
0-6"	12 lb/ac						YIEL	D GOAL			YIELI	GOAL			YIE	D GOAL	
		*****					50	BU			60	BU			65	BU	
0-24"	28 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTE	GUIDELIN	ES	sug	GESTE	D GUID	ELINES
Nitrate							Bro	adcast			Bro	adcast			-	Band	
Olsen	14 ppm					LB/A	ACRE	APPLICA	TION	LB/A	CRE	APPLICAT	TION	LB/	ACRE	APPL	ICATION
Phosphorus	24 ррш		*****	*****	***	N	107			N	134			N	148		
Potassium	102 ppm	*****	*****	•••		P20s	36	Broado	ast	P ₂ O ₅	43	Broadca	st	P2O5	25	Ba	nd *
Chloride						K20	64	Broado	ast	K20	76	Broadca	st	K20	45	Ва	nd *
0-6"	20 lb/ac					CI				CI				CI			
0-24" Sulfur	56 lb/ac				•••••	S	15	Broade (Tria		s	15	Broadci (Trial)		s	7	Band	(Trial)
Boron						В				В				В		1	-
Iron		\vdash			-	Zn				Zn				Zn		1	
Manganese						Fe				Fe				Fe			
Copper						Mn				Mn				Mn			
Magnesium						Cu				Cu				Cu		1	
Calcium						Mg				Mg				Mg		-	
Sodium						Lime				Lime				Lime		-	
Org.Matter	1.6 %	*****					-										
Carbonate(CCE)	2.2 %	*****				Soil pH		Buffer pH		tion Exchange Capacity						Typical Range)	
0-6" 0-24"						0-6" 8 6-24" 8				rapacit	,	% Ca	% M	ig %	K	% Na	% H

Crop 1: Crop Removal: P205 = 31 K20 = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 20-21 SAMPLE ID G3-20 FIELD NAME

COUNTY

TWP 2 RANGE

SECTION 16 QTR NW/NE ACRES 284.7

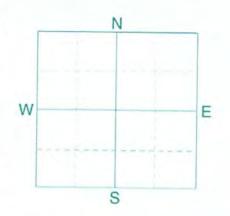
PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB **R6W 4A5**



REF # 16952043 BOX # LAB # NW77147

64.8

25.6

2.3

7.4

Date Sampled 09/29/2014

Date Received 09/30/2014

Date Reported 11/25/2014

Nutrient I	n The Soil	In	terp	retati	ion	15	st Cro	op Choi	ce	21	nd Cre	op Choice	e	31	rd Ci	op Ch	olce
		VLow	Low	Med	High		Cor	n-Grain			Corr	n-Grain			Со	rn-Grain	
0-6"	31 lb/ac						YIEL	D GOAL			YIEL	GOAL			YIE	LD GOAL	
		*****	*****	*****	****		120	BU			140	BU			15	o BU	
0-24"	108 lb/ac					SUG	GESTE	D GUIDELI	NES	SUG	GESTE	GUIDELIN	ES	SUG	GESTI	ED GUID	ELINES
Nitrate							Bro	adcast			Bro	adcast				Band	
						LB/A	CRE	APPLICA	ATION	LB//	ACRE	APPLICAT	ION	LB/	ACRE	APPL	ICATION
Phosphorus Olsen	51 ppm	*****	*****	*****	*****	N	19			N	30			N	42		
Potassium	264 ppm	*****	*****	*****		P ₂ O ₅	0			P ₂ O ₅	0			P ₂ O ₅	15	Band	(2x2) *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 0-24" Sulfur	114 lb/ac 480 +lb/ac					CI				CI				CI		-	
Boron	1.7 ppm					S	0			S	0			s	0		
Zinc	3.75 ppm					В	0			В	0			В	0		
Iron	11.9 ppm			*****		Zn	0			Zn	0			Zn	0		
Manganese	2.2 ppm	*****	*****	*****		Fe	0			Fe	0			Fe	0		
Copper	1.14 ppm	*****	*****	*****		Mn	0			Mn	0			Mn	0		
Magnesium	922 ppm		*****			Cu	0			Cu	0			Cu	0		
Calcium	3888 ppm					Mg	0			Mg	0			Mg	0	1	
Sodium	511 ppm					Lime				Lime			1	Lime		1	
Org.Matter	3.2 %		*****				T					01.5					
Carbonate(CCE)	0.9 %			Soil p	H B	uffer pH		on Exch	-					pical Ra			
0-6" 0-24"	0.51 mmho/cm 0.99 mmho/cm					0-6" 7.	9			0.0 me		% Ca	(15-:		% K	% Na	% H

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

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.2

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Pertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions, Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 2 RANGE

ACRES 164 SECTION 17 QTR NE

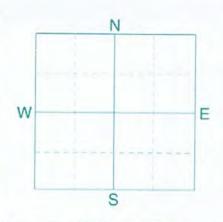
PREV. CROP Potatoes

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14018732 BOX #

LAB # NW99754

56.7

39.2

2.6

1.5

Date Sampled 10/09/2014

Date Received 10/10/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2r	d Cro	p Choice	e	3	rd Cı	op Ch	oice
		VLow	Low	Med	High		Bean	s-Edible			Beans	s-Edible			Bea	ns-Edible	
0-6"	39 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIE	LD GOAL	
			*****				2000	LBS			2500	LBS			300	0 LBS	
0-24"	60 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTED	GUIDELIN	ES	SUC	GEST	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	adcast				Band	
Olsen	57 ppm	*****			*****	LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPLI	CATION
Phosphorus						N	40			N	65			N	90		
Potassium	489 ppm	*****	*****	*****	*****	P ₂ O ₅	0			P2O5	0			P ₂ O ₅	0	1	
0-24"	260 lb/ac		•••••			K ₂ O	0			K ₂ O	0			K ₂ O	0		
0-6" 0-24"	94 lb/ac 480 +lb/ac		1000		A CONTRACTOR OF	CI S	0			CI	0			CI	0		
Sulfur					-	3	0			S	0			S	0		
Zinc		*****	*****	*****	***	В	0			В	0			В	0		
	3.53 ppm	*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Iron	10.4 ppm	*****	*****	*****	*****	Fe	0			Fe	ó			Fe	0		
Manganese	3.4 ppm	*****	*****	*****	***	Mn	0			Mn	0					-	
Copper	1.27 ppm	*****	*****	*****		1-111		-		PHI	0			Mn	0		
Magnesium	2265 ppm		*****	*****	*****	Cu	0			Cu	0			Cu	0		
Calcium	5455 ppm		*****	*****	*****	Mg	0			Mg	0			Mg	0		
Sodium	168 ppm					Lime				Lime				Lime			
Org.Matter	2.6 %						T					-				1	
Carbonate(CCE)	2.2 %	*****	****			Soil p	H B	uffer pH		on Exch	-	% Bas				pical Ra	T
0-6" 0-24"	0.52 mmho/cm 0.69 mmho/cm					0-6" 8	.1			8.1 me	_	(65-75)	(15-	Mg 20)	% K	% Na	% H

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

Sol. Salts

Crop 1: Crop Removal: P2O5 = 28 K2O = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

6-24" 8.4



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 23

SAMPLE ID Z4-ORANGE

FIELD NAME

COUNTY

TWP 2 RANGE

SECTION 17 QTRSW ACRES 120

PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB **R6W 4A5**

N W E S

REF # 16953103 BOX #

LAB # NW130054

Date Sampled 10/21/2014

Date Received 10/22/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	1:	st Cro	p Choic	e	21	d Cro	p Choice		31	d Cr	op Ch	oice
		VLow	Low	Med	High		Whea	t-Spring			Whea	t-Spring			Whe	at-Spring	3
0-6"	9 lb/ac						YIELI	GOAL			YIELD	GOAL			YIEI	D GOAL	
		*****					50	BU			60	ви			65	BU	
0-24"	32 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTER	GUIDELINE	s	SUG	GESTE	D GUIDI	ELINES
Nitrate							Broa	adcast			Broa	dcast			E	Band	
						LB/A	ACRE	APPLICA	TION	LB//	ACRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Phosphorus Olsen	21 ppm		*****	*****	*****	N	103			N	130			N	144		
Potassium	150 ppm				••••	P ₂ O ₅	0			P ₂ O ₅	0			P ₂ O ₅	15		and rter)*
Chloride						K ₂ O	30	Broadc	ast	K20	36	Broadcas	t	K20	23	Ba	nd *
0-6" 0-24"				100 mm		CI				CI				CI			
Sulfur						S	0			S	0		-	S	0		
Zinc		******	*****	*****	****	В	0			В	0		1	В	0		
Iron		*****	*****	*****	*****	Zn	0			Zn	0			Zn	0		
Manganese		*****			*****	Fe	0			Fe	0			Fe	0		
Copper		*****				Mn	0			Mn	0			Mn	0		
Magnesium		*****				Cu	2	Broadc (Trial		Cu	2	Broadcas (Trial)	it	Cu	1	Band	(Trial)
Calcium	4810 ppm					Mg	0			Ma	0		-	Mg	0	-	
Sodium	26 ppm	****				Lime				Lime			-	Lime	_	-	
Org.Matter	2.5 %	*****					T										
Carbonate(CCE)	2.5 %	*****	*****			Soil pH E		uffer pH		on Exch		% Base		T			
0-6" 0-24"	0.46 mmho/cm 0.45 mmho/cm		40000			0-6" 8 6-24" 8	-			0.2 me		% Ca (65-75) 79.6	% N	0) (% K	% Na (0-5) 0.4	% H (0-5)

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

Crop 1: Crop Removal: P205 = 31 K20 = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

SOIL TEST REPORT

FIELD ID 24

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY

TWP 2 RANGE

SECTION 17 OTR NW ACRES 118

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED

12085 RD 23 W (DICKE **BOX 240**

WINKLER, MB **R6W 4A5**

N W E S

REF # 16952036 BOX #

LAB # NW77132

Date Sampled 09/29/2014

Date Received 09/30/2014

Date Reported 11/25/2014

n

Nutrient In	The Soil	In	terp	retat	lon	15	t Cro	op Choic	e	2n	d Cro	p Choice		31	d Cr	op Cho	lce
		VLow	Low	Med	High		Cor	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6"	19 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
		*****	*****				120	BU			140	BU			150) BU	
0-24"	60 lb/ac					SUGG	ESTE	D GUIDELIN	IES	SUG	GESTED	GUIDELINE	5	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broz	dcast			I	Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	39 ppm	*****	*****	*****		N	54			N	78			N	90		
Potassium	261 ppm				*****	P ₂ O ₅	0			P2O5	0		P	205	15	Band	(2x2) *
Chloride						K ₂ O	0			K ₂ O	0		-	20	10	Band	(2x2) *
0-6" 0-24"	14 lb/ac 80 lb/ac					CI				CI				CI			
Boron	1.1 ppm					S	10	Broadca	ast	S	10	Broadcas	t	s	0		
Zinc	3.40 ppm					В	0			В	0			В	0		
Iron	13.4 ppm	*****	*****			Zn	0			Zn	0			Zn	0		
Manganese	2.5 ppm		*****	*****		Fe	0			Fe	0			Fe	0		
Copper	1.02 ppm			*****		Mn	0			Mn	0			Мn	0		
Magnesium	451 ppm	*****	*****	*****	*****	Cu	0			Cu	0			Cu	0		
Calcium	3604 ppm	*****	*****	*****	*****	Mg	0			Mg	0			мg	0		
Sodium	16 ppm					Lime				Lime			L	me			
Org.Matter	3.4 %		*****				T		Cabi	on Excl		% Bace	Satur	atio	n (Two	pical Rai	nna)
Carbonate(CCE)	1.1 %	*****				Soil p	H B	Suffer pH		Capacit	-	% Ca	% Mg	-	% K	% Na	% H
0-6" 0-24" Sol. Salts	0.27 mmho/cm 0.35 mmho/cm					0-6" 7 6-24" 8	1		2	22.5 me	q	(65-75) 80.0	(15-20		1-7)	(0-5)	(0-5)

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

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 25

SAMPLE ID G2-MEDIUM GREEN

FIELD NAME

COUNTY :

TWP 2 SECTION 10 RANGE

QTR NW ACRES 82

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 16952292 BOX #

LAB # NW63577

83.0

2.0

0.2

14.8

Date Sampled 09/19/2014

Date Received 09/20/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	d Cr	op Cho	ice
		VLow	Low	Med	High		Corr	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6"	18 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
		*****	****				120	BU			140	BU			150	BU	
0-24"	48 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTED	GUIDELINE	S	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broz	dcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Phosphorus	42 ppm	*****	*****	*****	•••••	N	66			N	90			N	102		
Potassium	198 ppm	*****			******	P2O5	0			P2O5	0			P2O5	15	Band	(2x2) *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 0-24" Sulfur	8 lb/ac 112 lb/ac					CI				CI				CI			
Boron	1.5 ppm					S	15	Broadc	ast	S	15	Broadcas	t	s	4	Band	(Trial)
Zinc	2.62 ppm					В	0			В	0			В	0		
Iron	9.0 ppm					Zn	0			Zn	0			Zn	0		
Manganes e	1.9 ppm	*****	*****	*****		Fe	0			Fe	0			Fe	0		
Copper	0.87 ppm	*****				Mn	0			Mn	0			Mn	0		
Magnesium	458 ppm	*****	*****	*****	*****	Cu	0			Cu	0			Cu	0		
Calcium	4289 ppm	*****	*****	*****	*****	Mg	0			Mg	0			Mg	0		
Sodium	14 ppm					Lime				Lime				Lime			
Org.Matter	2.7 %						T	-	Cabi	on Excl	anac	% Base	Sat	uratio	n (Tvi	pical Ra	nge)
Carbonate(CCE)	1.8 %	*****	***			Soil p	H B	uffer pH		Capacit		% Ca	%		% K	% Na	% H
0-6" 0-24"	0.21 mmho/cm 0.26 mmho/cm					0-6" 8	.4			25.8 me	q	(65-75)	(15-	20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.6

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Pertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 26 SAMPLE ID Z1-DRK GREEN

FIELD NAME COUNTY

TWP RANGE

SECTION 10 QTR NW ACRES 79

PREV. CROP Corn-Grain

SUBMITTED BY: **KR3239**

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W

16953091 BOX # REF # 0 LAB # NW130062

Date Sampled 10/21/2014

Date Received 10/22/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	rd Cr	op Cho	ice
		VLow	Low	Med	High		Wheat	t-Spring			Wheat	-Spring			Whe	at-Spring	
0-6"	17 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
			****				50	BU			60	BU			65	BU	
0-24"	52 lb/ac					SUG	SESTED	GUIDELIN	NES	SUGO	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Broz	dcast			Broa	dcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Phosphorus	34 ppm	*****			•••••	N	83			N	110			N	124		
Potassium	137 ppm				**	P ₂ O ₅	0			P ₂ O ₅	0			P ₂ O ₅	15	1	and ter)*
Chloride						K ₂ O	39	Broadca	ast	K ₂ O	47	Broadcas	t	K ₂ O	29	Bar	nd *
0-6" 0-24"	12 lb/ac					CI				CI				CI			
Sulfur	96 lb/ac	*****	*****		*****	S	15	Broadca	ast	S	15	Broadcas	t	S	4	Band	(Trial)
Boron	1.2 ppm					В	0			В	0			В	0		
Zinc	2.18 ppm		*****	*****		Zn	0			Zn	0			Zn	0		
Iron	8.9 ppm	*****			****	Fe	0			Fe	0			Fe	0		
Manganese	2.0 ppm	*****				Mn	0			Mn	0			Mn	0	1	
Copper	0.76 ppm	*****	*****	*****				Broado	ast			Broadca	st				
Magnesium	545 ppm	*****	*****		*****	Cu	2	(Trial)	Cu	2	(Trial)		Cu	1	Band	(Trial)
Calcium	4278 ppm	*****		*****	*****	Mg	0			Mg	0			Mg	0		
Sodium	17 ppm					Lime				Lime				Lime			
Org.Matter	1.7 %						T		Cabi	on Excl		% Bas	e Sal	turatio	n (Tv	pical Ra	nge)
Carbonate(CCE)	2.6 %	*****	*****			Soil	H B	uffer pH	1	Capacit	-	% Ca		Mg	% K	% Na	% H
0-6" 0-24"	0.25 mmho/cm 0.25 mmho/cm					0-6" 8			:	26.4 me	q	(65-75) 81.2	(15-	-	(1-7)	(0-5)	(0-5)

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

Crop 1: Crop Removal: P205 = 31 K20 = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID FIELD NAME COUNTY

TWP 2 RANGE

SECTION 24 OTR NW ACRES 79

PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

REF # 14047008 BOX # 0

LAB # NW127398

Date Sampled 10/20/2014

Date Received 10/21/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	lon	15	t Cro	p Choic	e	2n	d Cro	p Choice	3	rd Cr	op Che	olce
		VLow	Low	Med	High		Beans	s-Edible			Beans	s-Edible		Bea	ns-Edible	
0-6"	14 lb/ac						YIELD	GOAL			YIELD	GOAL		YIE	LD GOAL	
			****				2000	LBS			2500	LBS		300	0 LBS	
0-24"	52 lb/ac					SUG	GESTED	GUIDELI	NES	SUGO	GESTED	GUIDELINES	SUC	GEST	D GUIDE	LINES
Nitrate							Broz	dcast			Broz	dcast			Band	
Ole se						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB,	ACRE	APPLI	CATION
Olsen Phosphorus	18 ppm	*****	*****	*****	*****	N	48			N	73		N	98		
Potassium	168 ppm	*****	*****	*****	*****	P2O5	28	Broadc	ast	P ₂ O ₅	36	Broadcast	P ₂ O ₅	28	Ba	nd *
Chloride						K ₂ O	0			K20	24	Broadcast	K20	12	Ba	nd *
0-6" 0-24" Sulfur	20 lb/ac 480 +lb/ac					CI S	10	Broade (Trial		CI	10	Broadcas (Trial)	CI	5	Band	(Trial)
Boron						В		(-	В		(mai)	В	-	-	
Zinc	2.02 ppm	*****	*****	*****			_		-				-		+	
Iron						Zn	0			Zn	0		Zn	0	1	
Manganese						Fe				Fe			Fe			
Copper	0.8 ppm		*****	*****		Mn				Mn			Mn			
Magnesium						Cu	0			Cu	0		Cu	0		
Calcium						Mg				Mg			Mg			
Sodium						Lime				Lime			Lime			
Org.Matter	3.7 %						T		Cast	on Exch		% Bace	Saturation	n (Tu	nical Pa	nne)
Carbonate(CCE)	2.3 %	*****	*****			Soil p	H B	uffer pH		on Exci Capacit	-			% K	% Na	% H
0-6" 0-24" Sol. Salts	0.31 mmho/cm 0.61 mmho/cm	•••••				0-6" 8	2.5					10 00	y rig		,o ita	70 11

Crop 1: Crop Removal: P2O5 = 28 K2O = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY

TWP RANGE

SECTION 25 QTR NW ACRES 53

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

REF # 17020616 BOX # 0

LAB # NW149980

Date Sampled 10/29/2014

Date Received 10/30/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	lon	15	t Cro	p Choic	e	2n	d Cro	p Choice	3	ard Cr	op Cho	ice
		VLow	Low	Med	High		Corn	-Grain			Corn	-Grain		Cor	n-Grain	
0-6"	16 lb/ac						YIELD	GOAL			YIELD	GOAL		YIEL	D GOAL	
		*****					120	BU			140	BU		150	o BU	
0-24"	40 lb/ac					SUGG	ESTED	GUIDELIN	NES	sugo	SESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate							Broa	dcast			Broa	adcast		-	Band	
Olsen	12 ppm					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Phosphorus						N	74			N	98		N	110		
Potassium	123 ppm	*****	*****	*****		P2O5	62	Broadca	ast	P ₂ O ₅	73	Broadcast	P205	37	Bar	nd *
Chloride						K ₂ O	64	Broadca	ast	K ₂ O	75	Broadcast	K ₂ O	42	Bar	nd *
0-6"	10 lb/ac					CI				CI			CI			
0-24" Sulfur	200 lb/ac	*****	*****	*****	*****	s	15	Broadca	ast	S	15	Broadcast	S	4	Band	(Trial)
Boron	1.4 ppm				***	8	0			В	0		В	0		
Zinc	0.82 ppm			***		Zn	5	Broadca	ast	Zn	5	Broadcast	Zn	2	Ba	nd
Iron	10.6 ppm	*****	*****		*****	Fe	0			Fe	0		Fe	0		
Manganese	1.7 ppm	*****	*****	****		-			-				1	1	-	_
Copper	0.6 ppm	*****	*****			Mn	0			Mn	0		Mn	0		
Magnesium	783 ppm	*****	*****			Cu	0			Cu	0		Cu	0		
Calcium	4981 ppm	*****	*****	*****	*****	Mg	0			Mg	0		Mg	0		
Sodium	30 ppm					Lime				Lime			Lime			
Org.Matter	2.5 %		****				T		G-N	- F		% Base	Saturati	on (Tv	nical Pa	nge)
Carbonate(CCE)	5.4 %	*****	*****			Soil p	H B	uffer pH		on Exch Capacit	_	% Ca	% Mg	% K	% Na	% H
0-6" 0-24"	0.37 mmho/cm 0.3 mmho/cm					0-6" 8				31.9 me	q		15-20) 20.5	(1-7) 1.0	(0-5)	(0-5)

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

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

SOIL TEST REPORT

FIELD ID 110 SAMPLE ID FIELD NAME COUNTY 3

TWP 2 RANGE

SECTION 26 QTR NE ACRES 162

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W F S

REF # 14018823 BOX # LAB #

NW66907

Date Sampled 09/22/2014

Date Received 09/23/2014

Date Reported 11/25/2014

n

Nutrient In	The Soil	In	terp	retati	on	1s	t Cro	p Choice	21	d Cro	p Choice	3	rd Cr	op Cho	ice
		VLow	Low	Med	High		Wheat	-Spring		Wheat	-Spring		Whe	at-Spring	
0-6" 6-24"	20 lb/ac 30 lb/ac						YIELD	GOAL		YIELD	GOAL		YIE	D GOAL	
0-24	30 10/40	*****	****				50	BU		60	BU		65	BU	
0-24"	50 lb/ac					sugo	ESTED	GUIDELINES	SUG	GESTED	GUIDELINES	suc	GESTE	D GUIDE	LINES
Nitrate							Broa	dcast		Broa	idcast			Band	
						LB/A	CRE	APPLICATIO	N LB/	ACRE	APPLICATIO	N LB	ACRE	APPLI	CATION
Phosphorus	11 ppm	•••••	*****	*****		N	70		N	97		N	111		
Potassium	325 ppm		*****	*****	*****	P ₂ O ₅	47	Broadcast	P ₂ O ₅	56	Broadcast	P ₂ O ₅	32	Bar	nd *
Chloride						K ₂ O	0		K ₂ O	0		K20	10		and ter)*
0-6" 6-24"	16 lb/ac 126 lb/ac			1		CI			CI			CI			
Boron						S	0		S	0		S	0	-	
Zinc	2.01 ppm	*****				В			В			В	-	-	
Iron						Zn	0		Zn	0		Zn	0		
Manganese						Fe			Fe			Fe			
Copper	1.06 ppm	*****	*****	*****		Mn			Mn			Mn			
Magnesium						Cu	0		Cu	0		Cu	0		
Calcium						Mg			Mg			Mg			
Sodium						Lime			Lime			Lime			
Org.Matter	4.3 %							1	ation Exc	hange	% Base	Saturati	on (T)	pical Ra	nge)
Carbonate(CCE)	0.4 %	**				Soil	oH B	uffer pH	Capac	200			% K	% Na	% H
0-6" 6-24"	0.26 mmho/cm 0.36 mmho/cm		1			0-6" 7									

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions, Crop Removal: P2O5 = 41 K2O = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 111
SAMPLE ID
FIELD NAME
COUNTY 3

TWP 3 RANGE

SECTION 26 QTR NW ACRES 150

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14018824 BOX # 0 LAB # NW66911

Date Sampled 09/22/2014

Date Received 09/23/2014

Date Reported 11/25/2014

Nutrient In	The Soll	In	terp	retat	lon	15	t Cro	p Choice	21	d Cro	p Choice	3	rd Cr	op Cho	oice
		VLow	Low	Med	High		Wheat	-Spring		Wheat	-Spring		Whe	at-Spring	
0-6" 6-24"	23 lb/ac 18 lb/ac						YIELD	GOAL		YIELD	GOAL		YIE	LD GOAL	
-	1010/110	*****					50	BU		60	BU		65	BU	
0-24"	41 lb/ac					SUGO	ESTED	GUIDELINES	SUG	GESTED	GUIDELINES	SUC	GESTE	D GUIDE	LINES
Nitrate							Broa	dcast		Broz	idcast			Band	
						LB/A	CRE	APPLICATIO	LB/	ACRE	APPLICATIO	N LB/	ACRE	APPLI	CATION
Phosphorus Olsen	9 ppm	*****	*****	**		N	79		N	106		N	120		
Potassium	483 ppm					P ₂ O ₅	54	Broadcast	P ₂ O ₅	64	Broadcast	P ₂ O ₅	36	Bar	nd *
Chloride						K ₂ O	0		K ₂ O	0		K ₂ O	10	1000	and rter)*
0-6" 6-24"	22 lb/ac 288 lb/ac					CI			CI			CI			
Boron						S	0		5	0		S	0		
Zinc	1,31 ppm					В			В			В			
Iron	2102 pp					Zn	0		Zn	0		Zn	0		
Manganese						Fe			Fe			Fe			
Copper	1.73 ppm	*****	*****			Mo			Mrs			Mn			
Magnesium						Cu	0		Cu	0		Cu	0		
Calcium						Mg			Mg			Mg			
Sodium						Lime			Lime			Lime			
Org.Matter	5.1 %		****	****				10	ation Exc	banco	% Base	Saturati	on (Ty	nical Ra	nge)
Carbonate(CCE)	0.2 %					Soil	H B	uffer pH	Capaci				% K	% Na	% H
0-6" 6-24" Sol. Salts	0.31 mmho/cm 0.48 mmho/cm					0-6" 7									

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Pertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

SOIL TEST REPORT

FIELD ID 112 SAMPLE ID FIELD NAME COUNTY 3

TWP 3 RANGE

SECTION 35 QTR NE ACRES 78

PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020641 BOX #

LAB # NW44892

Date Sampled 08/30/2014

Date Received 09/04/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	on	15	t Cro	p Choice		2n	d Cro	p Choice	3	rd Cro	p Cho	lce
		VLow	Low	Med	High		Soy	beans			Soyl	beans		Soy	beans	
0-6"	6 lb/ac						YIELD	GOAL			YIELD	GOAL		YIEL	D GOAL	
		*****					40	BU			50	BU		60	BU	
0-24"	24 lb/ac					SUG	SESTED	GUIDELIN	ES	SUGO	SESTED	GUIDELINES	SUG	GESTE	GUIDEL	INES
Nitrate							Broz	dcast			Broa	dcast		В	and	
			101			LB/A	CRE	APPLICAT	TION	LB/A	CRE	APPLICATION	LB/	ACRE	APPLIC	ATION
Phosphorus	30 ppm	*****	*****	*****	*****	N	***			N	***		N	***		
Potassium	471 ppm					P ₂ O ₅	0			P ₂ O ₅	0		P ₂ O ₅	10	Ba (Stari	nd ter)*
0-24"	88 lb/ac	•••••	•••••	•••••	•••••	K ₂ O	0			K ₂ O	0		K ₂ O	0		
0-6" 0-24"	12 lb/ac 168 lb/ac					CI	0			CI	0		CI	0		
Sulfur						S	15	Broadca	st	S	15	Broadcast	S	7	Band (Trial)
Zinc	1.2 ppm					В	0			В	0		В	0		
Iron	2.29 ppm					Zn	0			Zn	0		Zn	0		
Manganese	28.5 ppm 2.4 ppm					Fe	0			Fe	0		Fe	0		
Copper	1.52 ppm					Mn	0			Mn	0		Mn	0		
Magnesium	802 ppm					Cu	0			Cu	0		Cu	0		
Calcium	3796 ppm	****	****	*****		Mg	0			Mg	0		Mg	0		
Sodium	29 ppm					Lime				Lime			Lime			
Org.Matter	4.8 %	****	*****				T		Cat	ion Exc	hange	% Base	Saturati	on (Ty	pical Rai	nge)
Carbonate(CCE)	0.5 %	***				Soil	pH B	luffer pH		Capaci	-		% Mg	% K	% Na	% H
0-6" 0-24"	0.33 mmho/cm 0.4 mmho/cm	11				0-6"				27.0 m	eq	(65-75) (70.3	15-20) 24.8	(1-7)	(0-5)	(0-5)

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 53 K20 = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Benson: (320) 843-4109

SUBMITTED FOR: **BLUMENGART COLONY**

SOIL TEST REPORT

FIELD ID 114 SAMPLE ID FIELD NAME COUNTY

TWP 3 RANGE

SECTION 36 QTR NW ACRES 320

PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E S

REF # 14047007 BOX #

LAB # NW133316

Date Sampled 10/22/2014

Date Received 10/23/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choice	2	2n	d Cro	p Choice		3r	d Cr	op Cho	ice
		VLow	Low	Med	High		Beans	s-Edible			Beans	-Edible			Bear	s-Edible	
0-6"	24 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
			*****	***			2000	LBS			2500	LBS			3000	LBS	
0-24"	76 lb/ac					sugo	ESTED	GUIDELIN	ES	SUG	SESTED	GUIDELINE	S	sug	GESTE	D GUIDE	LINES
Nitrate							Broa	dcast			Broa	dcast			E	Band	
Olsen	12 ppm					LB/A	CRE	APPLICAT	TION	LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLI	CATION
Phosphorus						N	24			N	49			N	74		
Potassium	381 ppm	*****	*****	*****	*****	P ₂ O ₅	48	Broadca	st	P ₂ O ₅	60	Broadca	st	P ₂ O ₅	41	Ban	d *
Chloride						K ₂ O	0			K20	0			K ₂ O	0		
0-6" 0-24"	12 lb/ac 328 lb/ac					CI				CI				CI			
Sulfur	320 10/ 40					S	15	Broadca	st	5	15	Broadca	st	S	7	Band	(Trial)
Boron						В				В				В			
Zinc	0.89 ppm					Zn	5	Broadca	st	Zn	5	Broadca	st	Zn	2	Ba	ind
Iron						Fe				Fe				Fe			
Manganese						Mn				Mn				Mn			
Copper	1.22 ppm	*****	*****		•	Cu	0	1		Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	4.5 %	****					T		Cat	ion Exc	hange	% Ba	se Sa	turatio	n (Tv	pical Ra	nge)
Carbonate(CCE)	1.9 %	*****	248			Soil	pH E	Suffer pH	Call	Capaci		% Ca	%		6 K	% Na	% H
0-6" 0-24"	0.55 mmho/cm 0.71 mmho/cm					0-6"											

Crop 1: Crop Removal: P2O5 = 28 K2O = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P2O5 = 35 K2O = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR: BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 115
SAMPLE ID
FIELD NAME
COUNTY 03

TWP 02

SECTION 27 QTRSW ACRES 163

PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

RANGE

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020642 BOX #

LAB # NW45760

Date Sampled 09/04/2014

Date Received 09/07/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	on	15	t Cro	p Choice	e	2n	d Cro	p Choice		3rd C	rop Cho	lice
		VLow	Low	Med	High		Beans	-Edible			Beans	s-Edible		Be	ans-Edible	
0-6"	12 lb/ac						YIELD	GOAL			YIELD	GOAL		YI	LD GOAL	
		***					2000	LBS			2500	LBS		30	00 LBS	
0-24"	16 lb/ac					SUGO	SESTED	GUIDELIN	IES	SUG	GESTED	GUIDELINES	SI	JGGES1	ED GUIDE	LINES
Nitrate							Broa	dcast			Broa	adcast			Band	
Olsen	19 ppm					LB/A	CRE	APPLICA"	TION	LB/A	CRE	APPLICATIO	N LI	B/ACRE	APPLI	CATION
Phosphorus						N	84			N	109		N	134		
Potassium	342 ppm	*****	*****	*****	*****	P ₂ O ₅	25	Broadca	st	P ₂ O ₅	32	Broadcast	P20	5 26	Bar	nd *
0-24"	208 lb/ac		•••••			K ₂ O	0			K ₂ O	0		K ₂ (0		
0-6" 0-24"	14 lb/ac 480 +lb/ac					CI	15	Broadca	st	CI S	15	Broadcast	CI S	7	Band	(Trial)
Boron	1.2 ppm					В	0			В	0		В	0		
Zinc	1.36 ppm	*****	*****	*****	4.6	Zn	2	Broadca	est	Zn	2	Broadcast	-		Band	(Trial)
Iron	27.5 ppm	*****	*****		*****	Fe	0			Fe	0		Fe			(,
Manganese	3.8 ppm	*****	*****		****	Mn	0			Mn	0		Mr	0		
Copper	1.49 ppm	*****	*****	****					_			-	-	-		
Magnesium	742 ppm	*****	*****	*****	*****	Cu	0			Cu	0		C	0		
Calcium	3317 ppm				*****	Mg	0			Mg	0		Mg	0		
Sodium	42 ppm					Lime				Lime			Lim	e		
Org.Matter	4.6 %	*****					T		Cat	on Exc	hange	% Base	Satura	tion (T	ypical Ra	nge)
Carbonate(CCE)	14.9 %	*****	****	*****	*****	Soil	DH B	uffer pH	100	Capaci		% Ca	% Mg	% K	1	% H
0-6" 0-24"	0.27 mmho/cm 0.51 mmho/cm					0-6" 7	1			23.8 m	pq	(65-75) 69.6	(15-20)	(1-7)		(0-5)

General Comments: Fine Loams (CEC range 21 to 30) (Medium)

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P2O5 = 42 K2O = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR: **BLUMENGART COLONY**

Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID 116 SAMPLE ID FIELD NAME COUNTY TWP 3 RANGE

SECTION 35 QTR SW ACRES 153

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

N W E S

14018825 BOX # RFF # 0 LAB # NW66916

Date Sampled 09/22/2014

Date Received 09/23/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choice	2	2n	d Cro	p Choice		31	d Cr	op Cho	oice
		VLow	Low	Med	High		Beans	-Edible			Beans	-Edible			Bear	ns-Edible	
0-6" 6-24"	27 lb/ac 24 lb/ac						YIELD	GOAL			YIELD	GOAL			YIEL	D GOAL	
	2410/40	*****	****				2000	LBS			2500	LBS			300	0 LBS	
0-24"	51 lb/ac					SUGO	SESTED	GUIDELIN	ES	SUGO	SESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Broa	dcast			Broa	dcast				Band	
						LB/A	CRE	APPLICAT	ION	LB/A	CRE	APPLICAT	ION	LB/A	ACRE	APPLI	CATION
Phosphorus	20 ppm	*****	*****	*****		N	34			N	59			N	84		
Potassium	352 ppm					P ₂ O ₅	22	Broadca	st	P ₂ O ₅	28	Broadca	st	P ₂ O ₅	24	Bar	nd #
						K20	0			K20	0			K20	0	1	
Chloride						CI				CI			1	CI			
0-6" 6-24" Sulfur	20 lb/ac 78 lb/ac	*****	100000			s	10	Broadca (Trial)		s	10	Broadca (Trial)	- 11	s	5	Band	(Trial)
Boron						В				В			-	В		+	
Zinc	1.50 ppm	*****	*****	*****	***	Zn	2	Broadca	-	Zn	2	Broadca	-	Zn	2	Dane	(Trial)
Iron							-	broadca	St		-	Broauca	-		-	band	(Iriai)
Manganese						Fe		-	_	Fe			-	Fe		-	
Copper	1.34 ppm	*****	*****			Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Natter	4.1 %						T					06 824		uratio	n (Tv	pical Ra	ngel
Carbonate(CCE)	0.4 %	**				Soil pH	oH B	uffer pH		Capaci		% Ca	% M		6 K	% Na	% H
0-6" 6-24" Sol. Salts	0.4 mmho/cm 0.44 mmho/cm					0-6" 7 6-24" 8											

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 28 K2O = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 35 K2O = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 117 SAMPLE ID EAST 80 FIELD NAME

COUNTY

TWP

RANGE

SECTION 2 OTR NE ACRES 80

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 445

W E S

REF # 14018822 BOX #

LAB # NW66903

70.2

24.7

Date Sampled 09/22/2014

Date Received 09/23/2014

Date Reported 11/25/2014

n

0.9

4.2

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	rd Cr	op Cho	oice
		VLow	Low	Med	High		Corr	n-Grain			Corn	-Grain			Co	n-Grain	
0-6"	36 lb/ac						YIELI	D GOAL			YIELD	GOAL			YIE	D GOAL	
6-24"	36 lb/ac				1		120	BU			140	BU			15	0 BU	
0-24"	72 lb/ac					SUG	SESTE	GUIDELI	NES	SUG	GESTED	GUIDELINES	5	sug	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	adcast			1	Band	
						LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATION	ON	LB/	ACRE	APPLI	CATION
Olsen	20 ppm	*****				N	42			N	66			N	78		
Potassium	544 ppm					P2O5	28	Broadc	ast	P2O5	32	Broadcas	t P	205	15	Band	(2x2) *
0-24"	220 lb/ac		•••••			K ₂ O	0			K ₂ O	0		К	20	10	Band	(2×2) *
0-6" 6-24" Sulfur	120 +lb/ac 228 lb/ac					CI		Not		CI		Not Available		cı		Not A	vallable
Boron	1.3 ppm					S	0			S	0			s	0		
Zinc	1.66 ppm	*****	*****	*****	****	В	0			В	0			В	0		
Iron	23.2 ppm			*****		Zn	0			Zn	0			Zn	0		
Manganese	2.1 ppm	*****	*****			Fe	0			Fe	0			e	0		
Copper	1.68 ppm	*****	*****			Мп	0			Mn	0		1	4n	0	1	
Magnesium	990 ppm	*****	*****	*****		Cu	0			Cu	0		1	u	0		
Calcium	4681 ppm			*****		Mg	D			Mg	0		1	1g	0	-	
Sodium	68 ppm	*****	****			Lime				Lime			Li	me		+	
Org.Matter	5.1 %		*****				T	1				06 8			- / -	alas I S	
Carbonate(CCE)	0.8 %	****				Soil p	H B	uffer pH	1	on Exch Capacit	-	% Ca	% Mo	-	m (Ty	% Na	mge)
0-6" 6-24"	0.91 mmho/cm 0.61 mmho/cm					0-6* 7	.5			3.3 me	_	(65-75)	(15-20)	+	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 118
SAMPLE ID
FIELD NAME
COUNTY 3

TWP 4 RANGE

SECTION 11 QTRSE ACRES 79

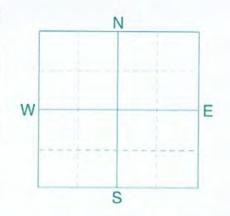
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14047004 BOX # 0
LAB # NW133311

Date Sampled 10/22/2014

Date Received 10/23/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	lon	15	t Cro	p Choic	e	2r	d Cro	p Choic	e	3	rd Cr	op Ch	olce
		VLow	Low	Med	High		Whea	t-Spring			Wheat	t-Spring			Whe	at-Spring	
0-6"	13 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
		*****					50	BU			60	BU			65	BU	
0-24"	36 lb/ac					SUG	GESTE	GUIDELIN	IES	SUG	GESTED	GUIDELIN	NES	SUG	GESTE	D GUIDI	LINES
Nitrate							Bro	adcast			Broz	adcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB//	ACRE	APPLICA	TION	LB/	ACRE	APPL	CATION
Phosphorus	48 ppm	******	•••••	*****	*****	N	99			N	126			N	140		
Potassium	606 ppm		*****	*****	*****	P ₂ O ₅	0			P ₂ O ₅	0			P2O5	15	The same	and rter)*
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	10		and ter)*
0-6" 0-24" Sulfur	18 lb/ac 152 lb/ac					CI				CI				CI			
Boron						S	0			S	0			S	0		
Zinc	3.94 ppm		*****			В				В				В			
Iron						Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper	1.62 ppm	*****	*****	*****		Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	4.5 %						T	1	G-11			06 80		watio	- (Tu	iest Da	>
Carbonate(CCE)	0.7 %	****				Soil p	H B	uffer pH		on Excl		% Ca	% M		6 K	oical Ra % Na	% H
0-6" 0-24"		•••••				0-6" 7						70 44	70 1	3 7		75 144	70 11

Crop 1: Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P2O5 = 41 K2O = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 119

SAMPLE ID G1-DARK GREEN

FIELD NAME

COUNTY

TWP

3

RANGE

SECTION 10 QTR NW

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB

R6W 4A5

ACRES 137

N W E S

REF # 17020621 BOX # G

LAB # NW149984

Date Sampled 10/29/2014

Date Received 10/30/2014

Date Reported 11/25/2014

Nutrient I	n The Soil	In	terp	retati	ion	1	st Cr	op Choic	e	21	nd Cr	op Choic	e	3	rd Ci	rop Ch	oice
		VLow	Low	Med	High		Cor	n-Grain			Cor	n-Grain			Co	rn-Grain	
0-6"	19 lb/ac						YIEL	D GOAL			YIFI	D GOAL				LD GOAL	
							120) BU			_		-				-
0-24"	64 lb/ac					-				-	140				15	-	
Nitrate	6000					SUG	GESTE	D GUIDELI	NES	SUG	GESTE	D GUIDELIN	ES	SUG	GEST	ED GUID	ELINES
							Bro	adcast			Bro	adcast				Band	
Olsen	29 ppm	*****					CRE	APPLICA	TION	LB//	ACRE	APPLICAT	TON	LB/	ACRE	APPL	ICATION
Phosphorus	25 pp			*****	*****	N	50			N	74			N	86		
Potassium	145 ppm	*****			****	P ₂ O ₅	0			P ₂ O ₅	0			P ₂ O ₅	15	Band	(2x2) 1
Chloride						K ₂ O	47	Broadc	est	K ₂ O	55	Broadca	st	K ₂ O	31	Ra	nd *
0-6" 0-24"	12 lb/ac 104 lb/ac	•••••				CI				CI				CI	-	100	···u
Boron						S	15	Broadca	est	5	15	Broadca	st	S	4	Band	(Trial)
Zinc	1.4 ppm	******				В	0			В	0			В	0		
Iron		*****				Zn	2	Broadca	ist	Zn	2	Broadca	st	Zn	2	Band	(Trial)
Manganese					****	Fe	0			Fe	0			Fe	0		
Copper	0.81 ppm					Mn	0			Mn	0			Mn	0	1	
Magnesium						Cu	0			Cu	0			Cu	0	-	
Calcium	4000					Mg	0			Mg	0		-			-	
Sodium		****				Lime								Mg	0	-	
Org.Matter	2.6 %					Line	_			Lime				Lime			
arbonate(CCE)	3.2 %					Soil p	H B	uffer pH		on Exch			e Sat	turation	(Ту	pical Ra	nge)
0-6" 0-24"	0.37 mmho/cm					0-6° 8, 6-24° 8.				0.5 me		% Ca (65-75) 80.1	(15-	20) (% K	% Na (0-5) 0.3	% H (0-5)

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

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 30 lbs for the previous crop. Nitrogen credite may need to be adjusted based on local conditions. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 140 SAMPLE ID FIELD NAME COUNTY 2

TWP 5 RANGE

SECTION 18 QTRSW/SE ACRES 320

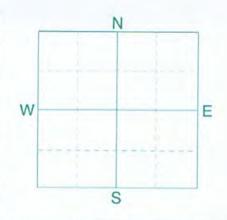
PREV. CROP Soybeans

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020937 BOX # 0

LAB # NW72282

63.3

31.8 | 4.2

0.7

Date Sampled 09/25/2014

Date Received 09/26/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	lon	15	t Cro	p Choice	e	2n	d Cro	p Choice		3rd C	rop Cho	oice
		VLow	Low	Med	High		0	ats			0	ats			Oats	
0-6" 6-24"	17 lb/ac 12 lb/ac						YIELD	GOAL			YIELD	GOAL		YI	ELD GOAL	
		*****					100	BU			110	BU		1	20 BU	
0-24"	29 lb/ac					SUGO	ESTED	GUIDELIN	NES	SUGO	GESTED	GUIDELINES	5	UGGES	TED GUIDE	LINES
Nitrate							Broa	dcast			Broz	dcast			Band	
		_				LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATIO	ON L	B/ACRE	APPLI	CATION
Phosphorus Olsen	15 ppm	*****	*****	*****	*****	N	56			N	66		N	78		
Potassium	690 ppm	*****	*****	*****	*****	P ₂ O ₅	30	Broadca	ast	P2O5	33	Broadcast	P ₂ ()5 18	Bar	nd *
0-24"	184 lb/ac					K ₂ O	0			K ₂ O	0		K ₂	10		and rter)*
0-6" 6-24"	66 lb/ac 360 +lb/ac					CI	0			CI	0		С			
Sulfur						S	0			S	0		S	0		
Boron	1.5 ppm	*****	******	*****	****	В	0			В	0		В	0		
Zinc Iron	0.94 ppm		*****			Zn	2	Broadc (Trial		Zn	2	Broadcas (Trial)	t Z	2	Band	(Trial)
Manganese	27.0 ppm 2.6 ppm			*****		Fe	0			Fe	0		Fe	0		
Copper	1.67 ppm					Mn	0			Mn	0		M	0		
Magnesium	1607 ppm	*****	*****	*****	*****	Cu	0			Cu	0		C	0		
Calcium	5328 ppm	*****		*****	*****	Mg	0			Mg	0		M	0		
Sodium	64 ppm					Lime				Lime			Lin	ne l		
Org.Matter	6.4 %						T		Cali	on Excl	anac	% Base	Satura	tion (T	ypical Ra	nge)
Carbonate(CCE)	8.4 %	*****	*****		****	Soil	H B	uffer pH	1	Capacit	-	% Ca	% Mg	% N		% H
0-6" 6-24"	0.72 mmho/cm 1.75 mmho/cm					0-6" 7	.6			42.1 me	q	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

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

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 25 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24 8.1

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 28 K2O = 21 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

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



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 150-S SAMPLE ID

FIELD NAME
COUNTY 73
TWP 2

TWP 2 RANGE
SECTION 20 QTRSE/SW ACRES 164

PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14047012 BOX #

LAB # NW133300

68.6

28.1

2.3

1.0

Date Sampled 10/22/2014

Date Received 10/23/2014

Date Reported 11/25/2014

0

Nutrient In	The Soil	In	terp	retati	on	15	t Cro	op Choic	e	2r	d Cre	op Choice		3rd C	crop C	hoice
		VLow	Low	Med	High		Bean	s-Edible			Bean	s-Edible		Ве	ans-Edit	le
0-6" 6-24"	14 lb/ac 18 lb/ac						YIEL	D GOAL			YIEL	GOAL		YI	ELD GO	AL
		*****					2000	LBS			2500	LBS		30	000 LE	S
0-24"	32 lb/ac					sugo	ESTE	D GUIDELI	NES	SUG	GESTEC	GUIDELINE	5 5	UGGES	TED GUI	DELINES
Nitrate							Bro	adcast			Bro	adcast			Band	
Olsen	29 ppm					LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATI	ON L	B/ACR	API	LICATION
Phosphorus	29 ppm		*****			N	68			N	93		N	11	8	
Potassium	338 ppm	*****	*****	*****		P ₂ O ₅	0			P2O5	0		P ₂ (05 0		
0-24"	212 lb/ac					K20	0			K ₂ O	0		K ₂	0 0		
0-6" 6-24" Sulfur	22 lb/ac 360 +lb/ac					CI S	10	Broade		CI	10	Broadca	it s			d (Trial)
Boron	1.5 ppm						•	(Trial	,			(Trial)	-			
Zinc	0.72 ppm		*****			В	0			В	0		В	-		
Iron	18.1 ppm					Zn	5	Broadc	ast	Zn	5	Broadcas	Z	2		Band
Manganese	3.4 ppm	*****	*****	*****	***	Fe	0			Fe	0		Fe	0		
Opper	1.95 ppm	*****	*****			Mn	0			Mn	0		Mi	0		
Magnesium	1249 ppm	*****	*****		*****	Cu	0			Cu	0		C	0		
alcium	5076 ppm		*****		*****	Mg	0			Mg	0		Me	0		
Sodium	84 ppm	*****	*****			Lime				Lime			Lim	e		
Org.Matter	4.0 %	*****		****					Cati	on Exch	nange	% Base	Satura	tion (T	ypical F	tange)
Carbonate(CCE)		*****	**			Soil p	B	uffer pH		Capacit	У	% Ca	% Mg	% K	1	
0-6" 6-24"	1.0 mmho/cm					0-6" 7.	1		3	37.0 me	q	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

6-24" 8.4



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 150-N

SAMPLE ID FIELD NAME

COUNTY

TWP 3 RANGE

SECTION 20 QTR NE ACRES 236

PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB

R6W 4A5

W E S

REF # 14020639 BOX #

NW44895

69.4

26.9

3.1

0.6

LAB #

Date Sampled 08/30/2014

Date Received 09/04/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	1:	st Cro	p Choic	e	2n	d Cro	p Choice	:	Brd Cr	op Cho	olce
		VLow	Low	Med	High		Soy	beans			Soy	beans		So	ybeans	-
0-6"	5 lb/ac						YIEL	D GOAL			YIELD	GOAL		YIE	LD GOAL	
		**					40	BU			50	BU		60	BU	
0-24"	8 lb/ac					SUG	GESTE	GUIDELI	NES	SUG	GESTED	GUIDELINES	SU	GGESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	dcast			Band	
Olsen	19 ppm		1000			LB/A	ACRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Phosphorus	23 ppm	•••••	*****	*****	*****	N	***			N	***		N	***		
Potassium	418 ppm	*****	*****	*****	*****	P2O5	0			P ₂ O ₅	24	Broadcast	P2O:	22	Bar	nd *
0-24"	60 lb/ac					K ₂ O	0			K ₂ O	0		K20	0		
0-6" 0-24" Sulfur			100000			CI S	10	Broade (Trial		CI S	10	Broadcas (Trial)	CI	5	Band	(Trial)
Boron	1.5 ppm		*****		****	В	0	(11101	_	В	_	(Iridi)	-		-	
Zinc	1.01 ppm	*****	*****	*****			0	-	-	_	0		В	0	-	
Iron	42.3 ppm	*****	*****	*****		Zn		-	_	Zn	0		Zn	0		
Manganese	3.1 ppm	*****	*****	*****		Fe	0			Fe	0		Fe	0		
Copper	1.89 ppm	*****	*****	*****	**	Mn	0			Mn	0		Mn	0		
Magnesium	1113 ppm		*****	*****		Cu	0			Cu	0		Cu	0		
Calcium	4796 ppm		*****	*****		Mg	0			Mg	0		Mg	0		
Sodium	47 ppm					Lime				Lime			Lime		1	
Org.Matter	5.2 %	*****			***		T		Cati	on Excl	nanac	% Base	Saturati	on (Ty	nical Pa	nge)
Carbonate(CCE)	1.0 %	*****				Soil pH B		uffer pH	100	Capacit		% Ca	% Mg	% K	% Na	% H
0-6" 0-24"	0.43 mmho/cm 0.65 mmho/cm	******				0-6" 7	.1		:	34.5 me	q		(15-20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 35 K20 = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited

6-24- 7.9

Crop 2: The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 53 K20 = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 152 SAMPLE ID FIELD NAME COUNTY 02

TWP RANGE

SECTION 8 QTR SE ACRES 162

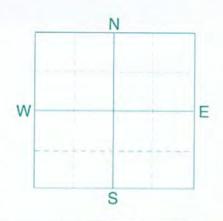
PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020640 BOX #

LAB # NW44891

70.0

26.5

Date Sampled 08/30/2014

Date Received 09/04/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2r	d Cro	p Choice	3	Brd Ci	op Ch	oice
		VLow	Low	Med	High		Soy	beans			Soy	beans		S	ybeans	
0-6"	4 lb/ac						YIELD	GOAL			YIELI	GOAL		YIE	LD GOAL	
							40	BU			50	BU		6	0 BU	
0-24"	8 lb/ac					SUGO	ESTED	GUIDELI	NES	SUG	GESTE	GUIDELINES	SU	GGEST	ED GUIDE	LINES
Nitrate							Broa	dcast			Broa	adcast			Band	
Olsen	18 ppm					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICATIO	N LB	/ACRE	APPLI	CATION
Phos phorus	19 ppm	******	*****	******	*****	N	***			N	***		N	***		
Potessium	419 ppm	*****	*****	*****	*****	P ₂ O ₅	22	Broadc	ast	P2O5	28	Broadcast	P2O:	24	Bai	nd *
0-24"	212 lb/ac		•••••	•••••	•••••	K ₂ O	0			K ₂ O	0		K ₂ O	0		
0-6" 0-24" Sulfur	26 lb/ac 192 lb/ac		Van Cali			CI S	10	Broade (Trial		CI S	10	Broadcas	CI	5	Band	(Trial)
Boron	1.4 ppm					В	0	(i i i a	,	В	0	(Trial)	-		-	
Zinc	1.03 ppm		*****					-	-		_		В	0		
Iron	37.0 ppm		*****	*****		Zn	0			Zn	0		Zn	0		
Manganese	3.3 ppm		*****	*****		Fe	0			Fe	0		Fe	0		
Copper	1.69 ppm	*****	*****	*****		Mri	0			Mn	0		Mn	0		
Magnesium	1086 ppm	*****	*****	*****		Cu	0			Cu	0		Cu	0		
Calcium	4785 ppm	*****	*****	*****		Mg	0			Mg	0		Mg	0		
Sodium	27 ppm					Lime				Lime			Lime			
Org.Matter	5.4 %	*****	*****		***		T		Cati	on Exch		% Base	Saturati	on (Tv	nical Pa	nga)
Carbonate(CCE)	1.2 %	*****				Soil p	H B	uffer pH	100	Capacit	-	% Ca	% Mg	% K	% Na	% H
0-6" 0-24"	0.47 mmho/cm 0.6 mmho/cm					0-6" 7.				34.2 me	-		(15-20)	(1-7)	(0-5)	(0-5)

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

Sol. Salts

Crop 1: The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited

6-24 8.0

Crop 2: The risk of the development of iron chlorosis on soybeans on this field is low based on the saft and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * The risk of the development of iron chlorosis on soybeans on this field is low based on the salt and carbonate levels. Crop Removal: P205 = 53 K20 = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



SUBMITTED FOR:

SOIL TEST REPORT

SUBMITTED BY:

FIELD ID 153
SAMPLE ID
FIELD NAME
COUNTY 2

TWP 3 SECTION 15

RANGE

QTRSE ACRES 65

R6W 4A5

KR3239

PREV. CROP Soybeans

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE W

REF #

14018819 BOX #

LAB # NW66893

BLUMENGART COLONY

Date Sampled 09/22/2014

BOX 240 WINKLER, MB

Date Received 09/23/2014

Date Reported 11/25/2014

E

Nutrient In	The Soil	In	terp	retat	on	15	t Cr	op Choic	e	21	d Cro	p Choice	3	rd Cr	op Cho	oice
		VLow	Low	Med	High		Con	rn-Grain			Corr	-Grain		Co	rn-Grain	
0-6"	15 lb/ac						YIE	LD GOAL			YIELI	GOAL		YIE	LD GOAL	
							12	0 BU			140	BU		15	0 BU	
0-24"	28 lb/ac					SUG	GESTE	D GUIDELI	NES	SUG	GESTE	GUIDELINES	SU	GGESTE	ED GUIDE	LINES
Nitrate							Bro	padcast			Broa	adcast			Band	
						LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLICATION	LB	/ACRE	APPLI	CATION
Phosphorus Oisen	12 ppm	*****	*****	*****		N	86			N	110		N	122		
Potassium	571 ppm	*****		*****		P ₂ O ₅	62	Broado	ast	P ₂ O ₅	73	Broadcast	P ₂ O ₅	37	Bar	nd *
0-24"	48 lb/ac					K ₂ O	0			K20	0		K ₂ O	10	Band	(2x2) *
0-6" 0-24"						СІ		No.		CI		Not Available	CI		Not A	vailable
Boron	1.2 ppm		*****			5	10	Broadc	ast	s	10	Broadcast	S	0		
Zinc	0.56 ppm	*****	****			В	0			В	0		В	0		
Iron	16.5 ppm		*****	*****	*****	Zn	6	Broadc	ast	Zn	6	Broadcast	Zn	2	Ba	nd
Manganese	1.6 ppm		*****	***		Fe	0			Fe	0		Fe	0		
Copper	1.38 ppm	*****	*****	*****		Mn	0			Mn	0		Mn	0		
Magnesium	1317 ppm		*****	*****	*****	Cu	0			Cu	0		Cu	0		
Catcium	5409 ppm		*****	*****	*****	Mg	0			Mg	0		Mg	0		
Sodium	51 ppm					Lime				Lime			Lime			
Org.Matter	5.4 %			*****	***		T		0-11			0/ Bac- 6		- / -	-11-	
Carbonate(CCE)	0.9 %	*****				Soil p	HE	Buffer pH		on Excl Capacit		% Base S	6 Mg	% K	% Na	% H

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

0.52 mmho/cm

0.49 mmho/cm

0-6"

0-24"

Sol. Salts

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

39.7 meg

(65-75)

68.1

(15-20)

27.6

(1-7)

3.7

10-51

0.6

(0-5)

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

0-6" 7.7

6-24" 8.1

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 154
SAMPLE ID
FIELD NAME
COUNTY 2

TWP 3 RANGE

SECTION 8 QTR NE/SE ACRES 178

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14018821 BOX #

LAB # NW66899

67.6

28.2

3.4

0.8

Date Sampled 09/22/2014

Date Received 09/23/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	t Cro	op Choic	e	2n	d Cro	p Choice		31	rd Cr	op Cho	ice
		VLow	Low	Med	High		Cor	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6" 6-24"	24 lb/ac 24 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
	2,10,45	*****	••••				120	BU			140	BU			150	BU BU	
0-24"	48 lb/ac					SUG	SESTE	D GUIDELIN	NES	SUG	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	dcast			E	Band	
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICATI	ON	LB/	ACRE	APPLI	CATION
Olsen Phosphorus	16 ppm	*****	*****	*****	*****	N	66			N	90			N	102		
Potassium	529 ppm		*****			P2O5	45	Broadca	ast	P2O5	52	Broadcas	t F	205	22	Bar	d *
0-24"	1112 lb/ac					K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 6-24"	18 lb/ac 360 +lb/ac					CI		Not Availab		CI		Not Available		CI		Not Av	allable
Boron	1.4 ppm					S	0			5	0			s	0		
Zinc	0.92 ppm	*****	*****	****		В	0			В	0			В	0		
Iron	24.5 ppm	*****				Zn	3	Broadca	ast	Zn	3	Broadcas	t	Zn	0		
Manganese	3.1 ppm		*****			Fe	0			Fe	0			Fe	0		
Copper	1.59 ppm	*****	*****	*****		Mn	0			Mn	0			Mn	0		
Magnesium	1362 ppm	*****			*****	Cu	0			Cu	0			Cu	0		
Calcium	5430 ppm					Mg	0			Mg	0			Mg	0		
Sodium	74 ppm		****			Lime				Lime			ı	ime			
Org.Matter	5.7 %	*****	*****	*****		-11			rati	on Excl	hange	% Bas	e Satu	ratio	n (Tv	pical Ra	nge)
Carbonate(CCE)	0.6 %	****				Soil p	H	Buffer pH		Capacil	-	% Ca	% M		% K	% Na	% H
0-6" 6-24"	0.38 mmho/cm 0.9 mmho/cm					0-6" 7	.6			40.2 me	eq	(65-75)	(15-20)	(1-7)	(0-5)	(0-5)

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

Crop 1: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

6-24" 8.2

Crop 2: ** Chloride yield data is limited for this crop. Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: ** Chloride yield data is limited for this crop. * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 155

SAMPLE ID NORTH OF PC

FIELD NAME

COUNTY :

TWP 3

RANGE

3 RANGE

SECTION 30 QTRSW ACRES 78

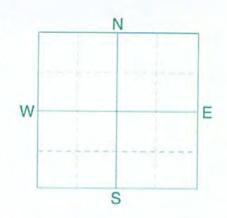
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240

WINKLER, MB R6W 4A5



REF # 14047013 BOX #

LAB # NW133306

Date Sampled 10/22/2014

Date Received 10/23/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terpi	retati	on	15	t Cro	op Choic	e	2r	nd Cro	p Choic	e	3	rd Cr	op Ch	oice
		VLow	Low	Med	High		Bean	s-Edible			Bean	s-Edible			Bea	ns-Edible	
0-6" 6-24"	18 lb/ac 15 lb/ac						YIEL	D GOAL			YIELU	GOAL			YIE	D GOAL	
		*****					2000	LBS			2500	LBS			300	0 LBS	X.
0-24"	33 lb/ac					sug	SESTE	D GUIDELI	NES	sug	GESTED	GUIDELIN	IES	suc	GESTE	D GUIDE	ELINES
Nitrate							Bro	adcast			Broa	adcast			1	Band	
Olsen	10 ppm					LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICA"	TION	LB/	ACRE	APPLI	CATION
Phosphorus						N	67			N	92			N	117		
Potassium	263 ppm	*****	*****	*****	******	P2O5	54	Broadc	ast	P ₂ O ₅	68	Broadca	est	P ₂ O ₅	45	Ba	nd *
Chloride						K ₂ O	0			K ₂ O	Ó			K ₂ O	0		
0-6" 6-24"	10 lb/ac	100				CI				CI				CI			
Sulfur G-24	282 lb/ac	*****	*****	•••••	*****	5	15	Broadc	ast	5	15	Broadca	st	S	7	Band	(Trial)
Boron						В				В				В			
Zinc	0.40 ppm	*****	**			Zn	10	Broadc	ast	Zn	10	Broadca	st	Zn	4	Ba	end
Iron						Fe				Fe				Fe			
Manganese													_		-	-	
Copper	0.96 ppm	*****	*****	*****		Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	3.1 %						1					0/ 0-			- (=	1-15	
Carbonate(CCE)	2.9 %	*****	*****			Soil p	H B	uffer pH	The last	on Excl Capacit		% Ca	% N		6 K	oical Ra % Na	mge)
0-6" 6-24"	0.47 mmho/cm 0.73 mmho/cm					0-6" 8				- aperuli	,	70 La	70 P	19 9	OR	70 NA	% H

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 157 SAMPLE ID FIELD NAME COUNTY 2

TWP 4 RANGE

SECTION 10 QTR NW ACRES 151.1

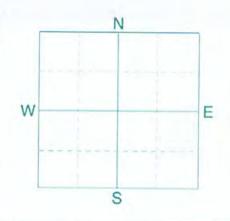
PREV. CROP Soybeans

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020938 BOX #

LAB # NW72287

Date Sampled 09/25/2014

Date Received 09/26/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choice		21	d Cro	p Choic	e	31	d Cr	op Cho	olce
		VLow	Low	Med	High		Corr	n-Grain			Corn	-Grain			Cor	n-Grain	
0-6" 6-24"	13 lb/ac 12 lb/ac						YIEL	GOAL			YIELD	GOAL			YIEL	D GOAL	
							120	BU			140	BU			150	BU	
0-24"	25 lb/ac					sug	GESTE	GUIDELINE	es	SUG	GESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Broa	adcast			Broz	dcast			E	Band	
-						LB/A	CRE	APPLICATI	ION	LB/A	ACRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Phosphorus	12 ppm	*****	*****	*****		N	89			N	113			N	125		
Potassium	678 ppm	*****				P2O5	62	Broadcas	st	P ₂ O ₅	73	Broadca	st	P ₂ O ₅	37	Bar	nd *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 6-24"	38 lb/ac 222 lb/ac		1000			CI				CI				CI			
Sulfur						S	0			S	0			S	0		
Zinc	0.77 ppm					В				В				В			
Iron	олу ррш	*****	*****			Zn	3	Broadcas	st	Zn	3	Broadca	st	Zn	0		
Manganese						Fe				Fe				Fe			
Copper	2.0 ppm	*****	*****			Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	6.3 %	*****	*****				T	T				D/ D-	6-		- /		
Carbonate(CCE)	11.3 %		*****			Soil p	H B	uffer pH		on Excl Capacit	-	% Ca	% N		n (1y	% Na	mge)
0-6" 6-24"	0.64 mmho/cm 0.73 mmho/cm					0-6" 8						70 60	70 1	.9 7		70 Ita	7011

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 158 SAMPLE ID FIELD NAME COUNTY

TWP SECTION 16

RANGE QTR SE

ACRES 160

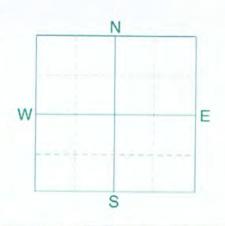
PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14002250 BOX #

LAB # NW44888

Date Sampled 08/30/2014

Date Received 09/04/2014

Date Reported 11/25/2014

Nutrient Ir	The Soil	In	terp	retati	ion	1	st Cro	p Choic	ce	2r	d Cro	p Choice		31	rd Cr	op Ch	oice
		VLow	Low	Med	High		Soy	beans			Soy	beans			So	ybeans	
0-6"	4 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIEL	D GOAL	
							40	BU			50	BU			60	BU	
0-24"	12 lb/ac					sug	GESTE	GUIDELI	NES	SUG	GESTED	GUIDELINE	s	SUG	GESTE	D GUID	ELINES
Nitrate							Bro	adcast			Broa	adcast			E	Band	
Olsen						LB/	ACRE	APPLICA	ATION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPL	ICATION
Phosphorus	17 ppm	*****	*****	*****	*****	N	***			N	***			N	***		
Potassium	721 ppm	*****	*****			P2O5	26	Broadc	ast	P2O5	32	Broadcas	st	P ₂ O ₅	26	Ba	nd *
						K20	0			K ₂ O	0			K20	0		
Chloride 0-6"	30 lb/ac	*****				CI				CI				CI			
0-24" Sulfur	136 lb/ac					s	10	Broade (Tria		S	10	Broadca (Trial)	- 11	s	5	Band	(Trial)
Baron						В				В				В		1	
Zinc	1.21 ppm	*****	*****	*****		Zn	0			Zn	0		-	Zn	0	-	
Iron													-		U	-	
Manganese						Fe		-		Fe			_	Fe			
Copper	2.33 ppm		*****	*****	**	Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime		-	
Org.Matter	6.0 %									Linie							
Carbonate(CCE)	0.8 %					Soil p	H B	uffer pH	1 2 00.00	on Exch	-	% Bas					
0-6" 0-24"	0.53 mmho/cm					0-6" 7				Capacit	У	% Ca	% M	g %	K	% Na	% Н

Crop 1: The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.

Crop 2: The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P205 = 44 K20 = 75
AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * The risk of the development of iron chlorosis on soybeans on this field is moderate based on the salt and carbonate levels. Crop Removal: P2O5 = 53 K2O = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 210 SAMPLE ID NORTH 60

FIELD NAME COUNTY

SECTION 23

TWP 1 RANGE

QTRNE ACRES 60

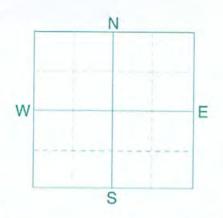
PREV. CROP Wheat-Spring

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020928 BOX # 0

LAB # NW48277

Date Sampled 09/06/2014

Date Received 09/09/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	lon	1.9	st Cre	op Choic	e	2r	d Cre	op Choic	e	3	rd Cr	op Ch	olce
		VLow	Low	Med	Hìgh		Bear	s-Edible			Bean	s-Edible			Bea	ns-Edible	1
0-6"	11 lb/ac						YIEL	D GOAL			YIELI	D GOAL			YIE	LD GOAL	
		*****	****				2000	LBS			2500	LBS			300	0 LBS	
0-24"	56 lb/ac					SUG	GESTE	D GUIDELI	NES	SUG	GESTE	GUIDELIN	NES	SUG	GESTE	D GUID	ELINES
Nitrate							Bro	adcast			Bro	adcast				Band	
Olsen	13 ppm		*****		**	LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATION
Phosphorus						N	44			N	69			N	94		
Potassium	234 ppm	*****	*****	*****	*****	P2O5	44	Broadc	ast	P ₂ O ₅	56	Broadc	ast	P ₂ O ₅	39	Ba	nd *
Chloride						K ₂ O	0			K20	0			K20	Ó		
0-6" 0-24"	120 +lb/ac					CI				CI				CI			
Sulfur	480 +lb/ac		*****	*****	*****	s	0			s	0			S	0		
Boron						В				В				В			
Zinc	2.11 ppm		*****			Zn	0			Zn	0			Zn	0		
Iron						Fe							-		0		
Manganese						re				Fe				Fe		_	
Copper	1.28 ppm					Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	4.6 %						_										
Carbonate(CCE)						Soil p	H B	uffer pH		on Exch	_					oical Ra	_
0-6" 0-24"						0-6" 7				Capacit	y	% Ca	% N	g %	o K	% Na	% H

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 35 K20 = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P2O5 = 42 K2O = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 211 SAMPLE ID FIELD NAME COUNTY 3

TWP 1 RANGE

SECTION 19 QTR NW ACRES 160

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020665 BOX # 0

LAB # NW56692

Date Sampled 09/15/2014

Date Received 09/16/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	lon	15	st Cro	p Choic	e	2n	d Cro	p Chok	e	3	rd Cı	op Ch	olce
		VLow	Low	Med	High		Whea	t-Spring			Whea	t-Spring			Whe	at-Sprin	g
0-6" 6-24"	20 lb/ac 24 lb/ac						YIEL	D GOAL			YIELI	GOAL			YIE	LD GOAL	
0-24	24 10/ 40	*****	***				50	BU			60	BU			6.	5 BU	
0-24"	44 lb/ac					SUG	GESTE	GUIDELIN	VES	SUG	GESTED	GUIDELI	NES	SUG	GESTI	D GUID	ELINES
Nitrate							Bro	adcast			Broz	adcast				Band	
						LB/A	CRE	APPLICA	TION	LB/A	ACRE	APPLICA	TION	LB/	ACRE	APPL	ICATION
Olsen Phosphorus	15 ppm	*****	•••••	*****	•••••	N	76			N	103			N	117		
Potassium	272 ppm	*****	*****			P ₂ O ₅	33	Broadca	est	P ₂ O ₅	39	Broadc	ast	P ₂ O ₅	23	Ba	nd *
Chloride						K20	0			K ₂ O	0			K ₂ O	10		land rter)*
0-6" 6-24"	120 +lb/ac 360 +lb/ac					CI				CI				CI			
Boron						S	0			S	0			S	0		
Zinc	3.40 ppm	*****				В				В				В			
Iron	этчо рриг					Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper	1.63 ppm	*****		*****		Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg	-			Mg			
Sodium						Lime				Lime			-	Lime		+	-
Org.Matter	4.9 %						T	1									
Carbonate(CCE)	1.5 %					Soil p	H B	uffer pH		on Exch	-					pical Ra	_
0-6" 6-24"	1.12 mmho/cm					0-6" 7				capacit	7	% Ca	% N	19 9	o K	% Na	% H

Crop 1: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 31 K2O = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 38 K2O = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Nitrogen is credited 15 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 212 SAMPLE ID FIELD NAME COUNTY 3

TWP 1 RANGE

SECTION 19 QTR NE ACRES 160

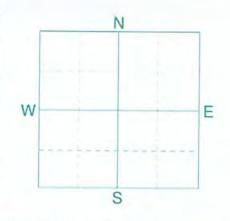
PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14020664 BOX # 0

LAB # NW56695

Date Sampled 09/15/2014

Date Received 09/16/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	lon	15	t Cr	op Choic	ce	21	d Cro	op Choic	e	3	rd Cr	op Ch	oice
		VLow	Low	Med	High		Cor	n-Grain			Corr	n-Grain			Cor	n-Grain	
0-6" 6-24"	19 lb/ac 24 lb/ac						YIEL	D GOAL			YIELI	GOAL			YIE	D GOAL	
		*****	**				120	BU			140	ви			150) BU	
0-24"	43 lb/ac					SUG	GESTE	D GUIDELI	NES	SUGI	GESTE	GUIDELIN	ES	SUG	GESTE	D GUID	ELINES
Nitrate							Bro	adcast			Broa	adcast			1	Band	
-						LB/A	CRE	APPLICA	MOITA	LB/A	ACRE	APPLICAT	ION	LB/	ACRE	APPL	CATION
Phosphorus	9 ppm	*****	*****	**		N	71			N	95			N	107		
Potassium	258 ppm		*****	*****	*****	P ₂ O ₅	75	Broado	ast	P ₂ Ōs	88	Broadca	st	P ₂ O ₅	49	Ba	nd *
Chloride						K20	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 6-24"						CI				CI				CI			
Boron						5	0			S	0			S	0		
Zinc	0.07					В				В				В			
Iron	0.97 ppm	*****	*****	*****		Zn	3	Broadc	ast	Zn	3	Broadca	st	Zn	0		
Manganese						Fe				Fe				Fe			
Copper	1.2 ppm	*****	*****	*****		Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime		1	
Org.Matter	5.1 %						-										
Carbonate(CCE)	2.0 %					Soil p	H B	uffer pH	10000	on Exch	-	1				ical Ra	
0-6" 6-24"	1.74 mmho/cm 2.45 mmho/cm					0-6" 7				apacit	7	% Ca	% M	9 %	K	% Na	% Н

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 213

SAMPLE ID Z1-DARK GREEN

FIELD NAME

COUNTY 2

TWP 1

RANGE

SECTION 19 OTRSW

PREV. CROP Corn-Grain

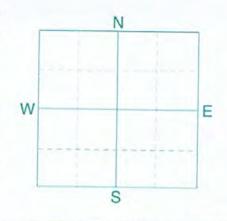


KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

ACRES 80



REF # 16953096 BOX # 0

LAB # NW137626

Date Sampled 10/23/2014

Date Received 10/24/2014

Date Reported 11/25/2014

Nutrient I	n The Soil	In	terp	retati	ion	1	st Cro	p Choice	e	21	d Cre	op Choice		3rd Cr	op Che	olce
		VLow	Low	Med	High		Whea	t-Spring			Whea	t-Spring		Whe	at-Spring	1
0-6"	19 lb/ac						YIEL	D GOAL			YIELI	D GOAL		YIE	LD GOAL	
		*****					50	BU			60	BU		6	BU	
0-24"	24 lb/ac					SUG	GESTE	D GUIDELIN	ES	SUG	GESTE	GUIDELINES	St	GGESTI	D GUIDE	LINES
Nitrate							Bro	adcast			Bro	adcast			Band	
Olsen	8 ppm					LB/	ACRE	APPLICAT	TION	LB/A	ACRE	APPLICATIO	N LE	/ACRE	APPLI	CATION
Phosphorus	Орри		*****			N	111			N	138		N	152		
Potassium	218 ppm	*****	*****			P ₂ O ₅	57	Broadca	st	P ₂ O ₅	68	Broadcast	P2O:	38	Bai	nd *
Chloride						K20	0			K ₂ O	0		K20	10		and ter)*
0-6" 0-24"	120 +lb/ac 480 +lb/ac		•••••			CI				CI			CI		1	,
Boron	2.0 ppm					S	0			5	0		S	0		
Zinc						В	0			В	0		В	0		
Iron		*****				Zn	0			Zn	0		Zn	0		
Manganese						Fe	0			Fe	0		Fe	0		
Copper						Mn	0			Mn	0		Mn	0		
Magnesium	686 ppm	*****	*****	*****		Cu	0			Cu	0	-	Cu	0		
Calcium	6150 ppm					Mg	0			Mg	0		Mg	0		
Sodium	52 ppm					Lime				Lime			Lime		1	
Org.Matter	5.1 %		*****				T					04.7				
Carbonate(CCE)	1.1 %	*****				Soil p	H B	uffer pH		apacit		% Base	% Mg			
0-6" 0-24"						0-6" 8	35071011			7.3 me	_		15-20) 15.3	% K	% Na (0-5) 0.6	% H (0-5)

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

Crop 1: Crop Removal: P205 = 31 K20 = 19 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P205 = 38 K20 = 23 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 41 K20 = 24 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 214
SAMPLE ID
FIELD NAME
COUNTY 3

TWP 1 RANGE

SECTION 30 QTRSE ACRES 40

PREV. CROP Beans-Edible

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5

W E

REF # 14020666 BOX # 0

LAB # NW56688

Date Sampled 09/15/2014

Date Received 09/16/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	lon	15	t Cro	p Choic	e	2n	d Cro	p Choice		31	d Cr	op Ch	oice
		VLow	Low	Med	High		Corr	-Grain			Corn	-Grain			Co	rn-Grain	
0-6"	34 lb/ac						YIELI	GOAL			YIELD	GOAL			YIE	LD GOAL	
			*****	-			120	BU			140	BU			15	0 BU	7
0-24"	64 lb/ac					SUG	GESTEL	GUIDELII	NES	SUGI	GESTED	GUIDELINE	s	SUG	GESTE	D GUIDI	ELINES
Nitrate							Broa	adcast			Broz	adcast				Band	
Olsen	42					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICAT	ION	LB/	ACRE	APPL	CATION
Phos phorus	12 ppm	******	*****	*****		N	50			N	74			N	86		
Potassium	243 ppm	*****				P ₂ O ₅	62	Broadc	ast	P ₂ O ₅	73	Broadcas	st	P ₂ O ₅	37	Ва	nd *
Chloride						K20	0			K ₂ O	0			K ₂ O	10	Band	(2x2) *
0-6" 0-24" Sulfur	120 +lb/ac 480 +lb/ac					CI				CI				CI			
Boron						5	0			5	0			S	0		
Zinc	1.24 ppm	*****				В				В				В			
Iron						Zn	0			Zn	0			Zn	0		
Manganese						Fe				Fe				Fe			
Copper	1.46 ppm		*****			Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	4.5 %		*****	*****			T	1				- N. F					
Carbonate(CCE)	1.3 %					Soil p	H B	uffer pH		on Exch Capacit		% Ca	% Mo		к (Ту	% Na	
0-6" 0-24"	The second second second	*****				0-6" 7				- 3,700 015	,	70 Ca	-70 141	9		70 NA	% H

Crop 1: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 48 K2O = 32 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Nitrogen is credited 30 lbs for the previous crop. Nitrogen credits may need to be adjusted based on local conditions. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * 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. Crop Removal: P205 = 60 K20 = 41 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

SUBMITTED FOR:

BLUMENGART COLONY

SOIL TEST REPORT

FIELD ID 215 SAMPLE ID FIELD NAME

COUNTY TWP

RANGE

SECTION 30 QTR NW ACRES 83

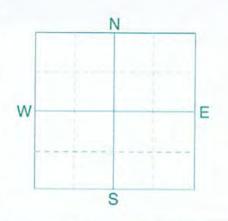
PREV. CROP Corn-Grain

SUBMITTED BY: KR3239

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14047009 BOX # LAB # NW137616

Date Sampled 10/23/2014

Date Received 10/24/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retati	ion	15	st Cro	p Choic	e	2n	d Cro	p Choic	e	31	rd Cr	op Ch	olce
		VLow	Low	Med	High		Soy	beans			Soy	beans			So	beans	
0-6" 6-24"	39 lb/ac 45 lb/ac						YIEU	D GOAL			YIELD	GOAL			YIEL	D GOAL	
			*****	*****			40	BU			50	BU			60	BU	
0-24"	84 lb/ac					sug	GESTE	GUIDELI	NES	SUG	SESTED	GUIDELIN	ES	SUG	GESTE	D GUIDE	LINES
Nitrate							Bro	adcast			Broa	dcast			E	land	
Olsen	45					LB//	ACRE	APPLICA	TION	LB/A	CRE	APPLICA	TION	LB/	ACRE	APPLI	CATION
Phosphorus	16 ppm	*****	*****	*****	******	N	***			N	***			N	***		
Potassium	367 ppm	*****		*****	*****	P ₂ O ₅	29	Broadc	ast	P ₂ O ₅	36	Broadca	ast	P2Ô5	29	Ba	nd *
Chloride						K ₂ O	0			K20	0			K ₂ O	0		
0-6"	26 lb/ac					CI				CI				CI			
6-24" Sulfur	360 +lb/ac		•••••	•••••	•••••	s	10	Broade (Trial		s	10	Broadc (Trial		s	5	Band	(Trial)
Boron						В		1		В				В		1	
Zinc	1.67 ppm	*****	*****	*****	****	Zn	0			Zn	0			Zn	0	-	-
Iron						Fe				Fe			$-\parallel$	Fe		-	
Manganese								-	_	-			$-\parallel$			-	
Copper	3.06 ppm	*****	*****	*****	***	Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	5.4 %	*****	*****	*****	***		1					D/ P-					
Carbonate(CCE)	4.3 %	*****		****		Soil p	H B	uffer pH		on Exch Capacit	-	% Ca	% M			% Na	
0-6" 6-24"			0.00	200		0-6" 7	1			- Operation	,	70 La	70 M	y y	n n	70 Na	% H

Crop 1: The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P2O5 = 35 K2O = 60 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: = Caution: Seed Placed Fertilizer Can Cause Injury * The risk of the development of iron chlorosis on soybeans on this field is high based on the salt and carbonate levels. Crop Removal: P205 = 53 K20 = 90 AGVISE Band guidelines will build P & K test levels to the medium range over many years.



Benson: (320) 843-4109

BLUMENGART COLONY

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID 216 SAMPLE ID FIELD NAME

COUNTY TWP

2 RANGE

SECTION 6 QTRSE ACRES 55

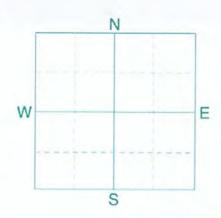
PREV. CROP Corn-Grain

SUBMITTED BY: **KR3239**

KR CROP CHECK LIMITED 12085 RD 23 W (DICKE

BOX 240 WINKLER, MB

R6W 4A5



REF # 14047006 BOX #

LAB # NW137618

Date Sampled 10/23/2014

Date Received 10/24/2014

Date Reported 11/25/2014

Nutrient In	The Soil	In	terp	retat	ion	15	t Cro	p Choic	e	2n	d Cro	p Choic	e	31	rd Cr	op Ch	olce
		VLow	Low	Med	High		Bean	s-Edible			Beans	s-Edible			Bea	ns-Edible	
0-6" 6-24"	56 lb/ac 36 lb/ac						YIEL	D GOAL			YIELD	GOAL			YIE	D GOAL	
			*****	*****			2000	LBS			2500	LBS			300	0 LBS	
0-24"	92 lb/ac					SUG	SESTE	D GUIDELL	NES	SUG	GESTEC	GUIDELIN	ES	SUG	GESTE	D GUID	LINES
Nitrate							Bro	adcast			Broa	dcast			(Band	
Olsen	15 ppm					LB/A	CRE	APPLICA	TION	LB/A	CRE	APPLICA"	TION	LB/	ACRE	APPL	CATION
Phosphorus	20 pp					N	8			N	33			N	58		
Potassium	377 ppm		*****	*****		P ₂ O ₅	38	Broadc	ast	P2O5	48	Broadca	est	P ₂ O ₅	35	Ba	nd *
Chloride						K ₂ O	0			K ₂ O	0			K ₂ O	0		
0-6"	34 lb/ac	*****				CI				CI				CI			
6-24"	360 +lb/ac	*****	•••••	•••••	•••••	5	0			s	0			5	0		
Boron						В				В				В			
Zinc	1.35 ppm		*****			Zn	2	Broadc	ast	Zn	2	Broadca	et	Zn	2	Band	(Trial)
Iron						Fe					_	Di Gade	-		-	Dania	(IIIII)
Manganese						re				Fe				Fe			
Copper	2.41 ppm		*****			Mn				Mn				Mn			
Magnesium						Cu	0			Cu	0			Cu	0		
Calcium						Mg				Mg				Mg			
Sodium						Lime				Lime				Lime			
Org.Matter	4.4 %						-	1									
Carbonate(CCE)	1.9 %					Soil p	H B	uffer pH		on Exch Capacit		% Ca	se Sa		T	% Na	nge)
0-6" 6-24"						0-6* 7				- Special	,	70 Cd	70 P	ig o	N N	70 Na	% H

Crop 1: Crop Removal: P205 = 28 K20 = 28 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Crop Removal: P2O5 = 35 K2O = 35 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: * Caution: Seed Placed Fertilizer Can Cause Injury * Crop Removal: P205 = 42 K20 = 42 AGVISE Band guidelines will build P & K test levels to the medium range over many years.

In "certain areas" it is Manitoba Conservation and Water Stewardship policy to consider a manure storage facility permit if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to one times the crop removal rate of phosphorus.

Is the live	estock o	peration	located	in	"certain	areas	"?
yes	X no						

In areas which are not considered to be "certain areas", Manitoba Conservation and Water Stewardship may issue a manure storage facility permit, if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to two times the crop removal rate of phosphorus.

For more information on obtaining a manure storage facility permit, please contact Manitoba Conservation and Water Stewardship, Environmental Approvals branch at (204) 945-5081.

Use the <u>Land Base Calculator</u> to calculate the minimum area required for manure application.

Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie	3028 acres
Total minimum area required for manure application at one times crop removal, for operations within Hanover and La Broquerie AND	6057 acres
For the long-term sustainability of operations outside of Hanover and La Broquerie	

For more information on completing land base calculations, call Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at (204) 945-3869 in Winnipeg.

X Land Base Calculator attached

Land Base Requirement Summary

By comparing the land available for manure application with the land required for manure application, state whether sufficient suitable land for manure application:

has not been identified	
kas been identified for two times the crop removal rate of phosphorus (for	
operations outside of the RMs of Hanover or La Broquerie)	
has been identified for one times the crop removal rate of phosphorus (for operat	ions
within the RMs of Hanover and La Broquerie)	

Туре	Storage Type	Volatilization	Animal Numbers	Weight In	Weight Out	Average Animal Wt	Days on Feed per Cycle (days)	Number of Cycles per Year	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P205 Excreted per Herd Per Year ((b)/yr/herd)
Lactating Cows	Solid Stock Pile	40%	5	1400	1440	1420	365	1	1058	729
Dry Cows	Liquid Uncovered Earthen	30%	0	1440	1440	1440	365	1	0	0
Calves, 0-3 months	Liquid Uncovered Earthen	30%	0	90	275	183	365		0	0
Calves, 4-13 months	Manure Pack	20%	22	275	810	543	365		1036	555
Replacements, >13 months	Manure Pack	20%	10	810	1250	1030	365	i	948	381
Mature Cows, plus associated livestock	Liquid Uncovered Earthen	30%	0	n/a	n/a	n/a	n/a	n/a	0	0

Pig/Operation Type	Storage Type	Volatilization	Animal Numbers	Days per Cycle (days)	Number of Cycles per Year	N Excreted Per Herd Adjusted for Storage N Loss (lb/yr/herd)	P2O5 Excreted Per Herd Per Year (lb/yr/herd)
Gestating Sow	Liquid Uncovered Earthen	30%	0	365	1	0	0
Nursing Sow	Liquid Uncovered Earthen	30%	0	365	4	0	0
Gilts	Liquid Uncovered Earthen	30%	0	365	1	0	0
Boars	Liquid Uncovered Earthen	30%	0	365		0	0
Weanlings	Liquid Uncovered Steel/Concrete	10%	2270	57	6.4	14066	6970
Growers/Finishers	Liquid Uncovered Steel/Concrete	10%	4430	125	2.9	104463	51236
Sows, farrow to 5 kg	Liquid Uncovered Steel/Concrete	10%	600	365		21865	19091
Sows, farrow to 23 kg	Liquid Uncovered Earthen	30%	0	365	1	0	19091
Sows, farrow to finish	Liquid Uncovered Earthen	30%	0	365	1	0	0

Species / Commodity	Type of Operation	Storage Type	Volatilization	Bird Places	Weight in	Weight Out	Average Weight	Days on Feed	Cycles per Year	N Excreted Adjusted for N Less Ib/flock/yr	P205 Excreted
Chickens	Broilers	Field Storage	40%	0	0.05	4.36	2.20	33	7.4	0	0
Chickens Chickens	Broiler Breeder Pullets	Field Storage	40%	0	0.05	4.40	2.23	140	2	0	0
Chickens	Broiler Breeder Hens	Field Storage	40%	0	4.40	8.67	6.53	273	1	0	0
Eggs	Layer Pullets	Solid Stock Pile	40%	9500	0.05	201					
Eggs	Layer Hens	Solid Stock Pile	40%	18500	3.03	3.04	1.54	133	2	2573	2947
Eggs	Breeder Pullets	Liquid Covered	10%	0	0.05	3.74	3,38	355	1	15138	17333
Eggs	Breeder Hens	Liquid Covered	10%	0	3.03	3.04	1,54	133	2	0	0
			10%	0	3.03	3.14	3.38	351	1	0	0
Turkey	Broiler Hens (0-9 wks)	Field Storage	40%	30000	0.06	12.39	6.22	63	4	20324	245.42
Turkey	Hens (0-11 wks)	Field Storage	40%	0	0.06	16.46	8.26	77	3.5	0	21547
Turkey	Heavy Hens (0-14 wks)	Field Storage	40%	51800	0.06	21.19	10.62	98	2.8108	65481	0 69422
Turkey	Light Toms (0-12 wks)	Field Storage	40%	0	0.06	21.19	10.62	84	3	0	0
Turkey	Toms (0-13 wks)	Field Storage	40%	0	0.06	26.84	13.45	91	3	0	0
Turkey	Heavy Toms (0-15 wks)	Field Storage	40%	0	0.06	30.29	15.18	105	2.5	o	0
Turkey	Breeding Hen Growers (0-30 wks)	Field Storage	40%	0	0.06	26.95	13.51	210	1	0	0
Turkey	Breeding Hens (30-60 wks)	Field Storage	40%	0	26.95	24.95	25.95	210	4	0	0
Turkey	Breeding Torn Grower (0-18 wks)	Field Storage	40%	0	0.06	33.92	16.99	126	2	0	0
Turkey	Breeding Tom Grower (0-30 wks)	Field Storage	40%	0	0.06	50.89	25.47	210	1	ů .	0
Turkey	Breeding Torn (30-60 wks)	Field Storage	40%	0	50.89	61.86	56.38	210	4-	0	0

	Rem	oval	Uptake					Ren	noval	Uptake
Crop	P205	N	N	Units	Yield	Units	Acreage	P205	N	N
								(lb)	(lb)	(lb)
Alfalfa	13.8	58	58	lb/ton		ton/ac		-	-	
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac				
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac				-
Canola	1.04	1.93	3.19	lb/bu		bu/ac				
Corn Grain	0.44	0.97	1.53	lb/bu	106.3	bu/ac	2352	110008	242517	382527
Corn Silage	12.7	31.2	31.2	lb/ton		tons/ac			II . who	
Dry Edible Beans	1.39	4.17		lb/cwt	12	cwt/ac	1830	30524	91573	
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac				
Flax	0.65	2.13	2.88	lb/bu		bu/ac		1		
Grass Hay	10	34.2	34.2	lb/ton		tons/ac				
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac			The second	
Oats	0.26	0.62	1.07	lb/bu		bu/ac				
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac				
Peas	0.69	2.34	3.06	lb/bu		bu/ac		-		
Potatoes	0.09	0.32	0.57	lb/cwt	187.48	cwt/ac	380	6412	22798	40608
Rye	0.45	1.06	1.67	lb/bu		bu/ac				
Soybeans	0.84	3.87	5.2	lb/bu	34.6	bu/ac	1000	29064	133902	179920
Sunflower	1.1	2.8		lb/cwt		cwt/ac				
Wheat - Spring	0.59	1.5	2.11	lb/bu	51.7	bu/ac	1480	45144	114774	161449
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac				
						Total	7042	221152.4	605563.8	764503.9
					Dam	aval (lb/ac)		24	96	100

Removal (lb/ac) 109

Species	Animal Category/Operation type	N	P205
		(lb/year)	(lb/year)
Pigs	Gestating Sow	0	0
	Nursing Sow	0	0
	Gilts	0	0
	Boars	0	0
	Sows, farrow to 5 kg	21865	19091
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
	Weanlings	14066	6970
	Growers/finishers	104463	51236
Beef	Cows	0	0
	Bred Heifers	0	0
	Calves		
	Bulls	0	0
		0	0
	Cows, plus associated livestock	0	0
	Feedlot Cattle - grain based diet	0	0
	Pasture Cattle	0	0
	Backgrounders	0	0
Dairy	Lactating cow	1058	729
	Dry cow	0	0
	Calf, 0-3 months	0	0
	Calf, 4-13 months	1036	555
	Replacements, >13 months	948	381
	Mature Cows, plus assoc livestock	0	0
Sheep	Ewes	0	0
	Replacement Ewes	0	0
	Rams	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	0	0
Chickens	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
Layers	Layer Pullets	2573	2947
	Layer Hens	15138	17333
	Breeder Pullets	0	0
	Breeder Hens	0	0
Turkeys	Broiler Hens (0-9 wks)	20324	21547
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	65481	69422
	Light Toms (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
	Breeding Tom Grower (0-30 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
	Total		190212

10tai 240554 190212

Note: Be sure all livestock species on your farm are represented in this table. Not just the proposed expansion.

Nutrients Excreted	lbs
Nitrogen	246954
P2O5	190212
Crop Nutrient Use	lb/ac
Nitrogen Uptake	108.6
P2O5 Removal	31.4
Land Base Requirements	acres
Acres Available	7042
Acres for Nitrogen Uptake	2275
Acres for 2 x P2O5 Removal	3028
Acres for 1 x P2O5 Removal	6057

CROP ROTATION TABLE

A	8	D	0	E
Expected Crops in the Rotation	Acreage	Historical Yield	Units	Source of Yield Information
Corn grain	2352	106.3	bu/ac	MMMP crop variety vields average
Dry edible beans	1830	1211	lbs/ac	MMMP crop variety yields average
Potatoes	380	187.5	cwt/ac	MMMP crop variety yields average
Soybeans	1000	34.6	bu/ac	MMMP crop variety vields average
Spring wheat	1480	51.7	bu/ac	MMMP crop variety vields average
Total Net Acresge for Manure Application	7042 acres			

A. List all of the crop(s) to be grown in the rotation on the acreage that will receive manure.

B. Indicate the average acreage for each crop over the rotation. For example, if there are 720 suitable acres available for manure and approximately 40 these acress will be used to grow canola, enter 288.

The total of column B should add up to Total Net Acreage for Manure Application provided in the Manure Application Field Characteristic Table.

C. Enter the historical yield average for each crop. Long-term yield averages can be determined using MASC data (http://www.masc.mb.ca/masc.nsf/index.html?OpenPage)

or on-farm yield records. If on-farm yield average provide copies.

D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).



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Search

MMPP Variety Yield Data Browser

(Variety Query Help)

(+ quick links) (help) (font -) (font +) (print)

Save Raw Data

New Search

Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: RHINELAND

Crop(s) Selected: GRAIN CORN

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 296 records from the MASC database, summarized below:

Sum of Farm

Varieties: 2,259 farms

Total Acres:

296,519 acres

Yield per Acre:

106.3 Bushels / acre

(2.699 tonnes / acre)

View Raw Data

Save Raw Data

New Search

Canada



Manitoba 🗪



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Search

Search

[x]

MMPP Variety Yield Data Browser

(Variety Query Help)

(+ quick links) (help) (font -) (font +) (print)

Save Raw Data

New Search

Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: RHINELAND

Crop(s) Selected: WHITE PEA BEANS

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 78 records from the MASC database, summarized below:

Sum of Farm Varieties:

405 farms

Total Acres:

43,499 acres

Yield per Acre:

1,211 Pounds / acre

(0.549 tonnes / acre)

View Raw Data

Save Raw Data

New Search

Canada



Manitoba 🗪



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Search

Search

[X]

MMPP Variety Yield Data Browser

(Variety Query Help)

(+ quick links) (help) (font -) (font +) (print)

Save Raw Data

New Search

Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: RHINELAND

Crop(s) Selected: PROC POTATOES-DRYLND

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 46 records from the MASC database, summarized below:

Sum of Farm Varieties:

159 farms

Total Acres:

17,382 acres

Yield per Acre:

187.48 CWT / acre

(8.504 tonnes / acre)

View Raw Data

Save Raw Data

New Search

Canada







MMPP Home | MASC Home | Online Services | Insurance | Lending | Other Programs | Management Plus | Employment | Contact | Site Map

Search

Search

MMPP Variety Yield Data Browser

(Variety Query Help)

(+ quick links) (help) (font -) (font +) (print)

Save Raw Data

New Search

Summary

Search Summary

Raw Data

Your selected search:

Region(s) Selected: RHINELAND

Crop(s) Selected: SOYBEANS

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 295 records from the MASC database, summarized below:

Sum of Farm Varieties:

1,715 farms

Total Acres:

244,643 acres

Yield per Acre:

34.6 Bushels / acre

(0.943 tonnes / acre)

View Raw Data

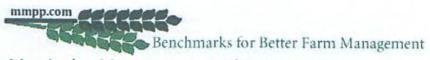
Save Raw Data

New Search

Canada



Manitoba 🗪



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Search

Search

MMPP Variety Yield Data Browser

(+ quick links) (help) (font -) (font +) (print)

Save Raw Data

New Search

(Variety Query Help)

Summary

Raw Data

Search Summary

Your selected search:

Region(s) Selected: RHINELAND

Crop(s) Selected: RED SPRING WHEAT

Variety(s) Selected: All

Period Selected: 2003 to 2013

This search returned 96 records from the MASC database, summarized below:

Sum of Farm Varieties:

2,301 farms

Total Acres:

418,966 acres

Yield per Acre:

51.7 Bushels / acre

(1.407 tonnes / acre)

View Raw Data

Save Raw Data

New Search

Canada



Maniloba 🗪

Long-Term Environmental Sustainability

The Government of Manitoba has included phosphorus as a nutrient by which applications of manure, synthetic fertilizer and municipal waste sludge to agricultural lands may be limited.

Over the short-term for fields with low phosphorus, regulations allow manure to be applied to meet the nitrogen requirements of the crop. This often results in overapplication of phosphorus and a build-up of phosphorus in soils. When soil test phosphorus levels reach 60 ppm Olsen P, manure application rates must consider how much phosphorus will be removed in the harvested portion of the crop. At 60 to 119 ppm Olsen P, the amount of phosphorus that can be applied cannot exceed twice (two times) what the crop can remove in order to slow the build-up of soil phosphorus. Once soil test phosphorus levels reach 120 ppm Olsen P, applications of phosphorus are restricted to no more than what the crop can remove (one times) in order to stop further soil test phosphorus build-up. At 180 ppm Olsen P, no additional phosphorus may be applied.

It should be noted that soil-test phosphorus levels of 60 ppm Olsen P or greater are agronomically very high and at these levels most crops will not benefit from additional phosphorus beyond starter phosphorus. As phosphorus levels build up in soils, the concentration of phosphorus in runoff increases.

Therefore, to remain environmentally sustainable over a long-term planning horizon of 25 years or more, phosphorus applications from applied manure and other nutrient sources such as commercial fertilizers must be balanced with crop removal to avoid further build-up in soils. Consequently, sufficient land must be available in relatively close proximity to the operation to balance phosphorus applications with crop phosphorus removals (one times) so that manure treatment and export of phosphorus from the region is not required.

I acknowledge that up to 6057 acres acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

10.0 Mortalities (Dead Animal) Disposal

The <u>Livestock Manure and Mortalities Management Regulation</u> sets requirements for the use, management and storage of livestock mortalities in agricultural operations. It helps ensure livestock mortalities are handled in an environmentally sound manner. Winter application of composted mortalities is prohibited.

Type of disposal:	 X rendering X composting ☐ incineration (in approved incinerator only)
Mass Mortalities	
A plan for mas	ss mortalities is in place.
	taken in the case of mass mortalities?
	y would be sent for rendering at Rothsay, in keeping with s. Dairy and beef cattle mortalities are/would be composted.
In the event of n	nass mortalities, deadstock will be disposed as instructed asservation's environmental officer.

11.0 Project Site Description: Land Use Planning Considerations
For assistance contact your Community and Regional Planning Regional Office.

Development Plan and Zoning Bylaw

The Planning District or Municipal Development Plan and Zoning By-law adopted under *The Planning Act*, set policy and regulations for the use and development of land. A proposed livestock operation must comply with the requirements of this bylaw. In the absence of a By-law, the <u>Provincial Planning Regulation</u> under <u>The Planning Act</u> applies.

Development Plan

Every Development Plan must contain a livestock operation policy (LOP) that identifies areas where new or expanded livestock operations may be allowed. It must also set general standards for the location and setback of livestock operations. Identifying the Development Plan's land use designation and policies (for the planning district or municipality that affect the site) will help confirm the project site's compliance. The Development Plan designations for the spread fields (if something other than agricultural) will indicate the potential loss of the fields in the future due to possible development.

Name of Planning District	RM of Rhineland
Development Plan by-law number	Zoning by-law 3-2011
Land use designation of project site	AG - Agricultural General
Livestock operation policies – quote supportive policy numbers	2.3.10, 2.3.20, 2.3.21
Other Development Plan policies – quote supportive policy numbers	Zoning Map 2000/10
Non-supportive Development Plan policies	Subject to Conditional Use

The Development Plan livestock operation policies support the size and location of the proposed operation.

X The Development Plan designations support the long term use of the proposed spread fields.

Zoning By-law

Identifying the zoning for the project site, the proposed spread fields and the related zoning provisions, helps determine the project's compliance and the minimum separation distances needed between the operation and property boundaries and other natural features and land uses. The zoning bylaw contains specific regulations that govern location and setback of livestock operations.

What are the minimum project site requirements stated in the Zoning By-law?

	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area		none
Minimum site width	2640 ft	300 ft
Minimum front yard	2640 ft	125 ft
Minimum side and rear yard	2640 ft	25 ft

If any project (front, side or rear) yard site dimensions are less than the Zoning By-law minimum, a Variation Order from the Municipality will be required.

Separation Distances (Zoning Bylaw or Provincial Planning Regulation)



Using the proposed size of the operation (see Animal Units Calculation Table) and the type of animal housing and manure storage facility, complete the following table.

Indicate the distance from:

- a. earthen manure storage facility or b. feedlot and
- c. animal confinement facility or d. non-earthen manure storage facility...

to the following land use features (if applicable)	Indicate minimum separation distance required in the zoning bylaw or Provincial Planning Regulation (Check appropriate box(es)		If land use feature is less than the minimum separation distance			
	☐ a. ☐ b.	X c.	Provide actual distance	Provide location or name of feature (e.g. Red River)		
Residence/ dwelling		1,148 ft	5 410 ft	Neighbour on NW14-2-3W		
Designated area (non-agricultural)		6,135 ft	9 500 ft	Town of Gnadenthal		
Surface water	n/a		180 ft	SELF CONTAINED POND AREA		
Surface watercourse	r	n/a	566 ft	HUNICIPAL DRAIN TO SOUTH EAST		
Crown land	r	n/a	NOT IN IM	MEDIATE AREA		
Wildlife Management Area	n	u/a	אסד וט ואו	MEDIATE AREA		
Livestock operation	n	la	> HILE	NW14-02-03W		
Other significant features/land uses	50 ft 1 320 ft		164 ft 10 miles	from property lines from the town of Altona		

If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the <u>Manitoba</u>
<u>Legislative Library</u> or contact Manitoba Conservation and Water Stewardship at (204) 619-2230.

If undesignated Crown Lands will be used for manure spreading purposes, including the laying of pipe or clearing activity, and use will require a Crown Lands General Permit disposition for the use and access of the subject Crown Lands Parcel(s).

In cases where minimum separation distances are not stated in the Zoning By-law or Development Plan, the minimum separation distances in the Provincial Planning Regulation apply.

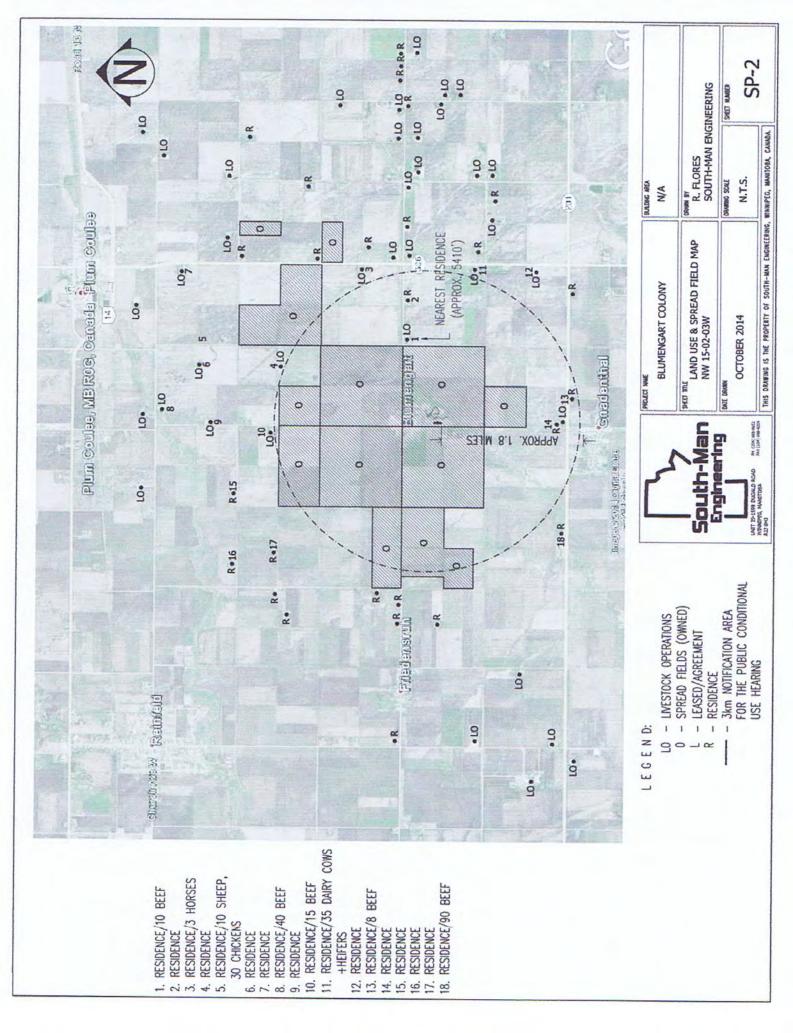
Note: If any separation distance is less than the zoning by-law minimum, a Variation Order will be required from the Municipality.

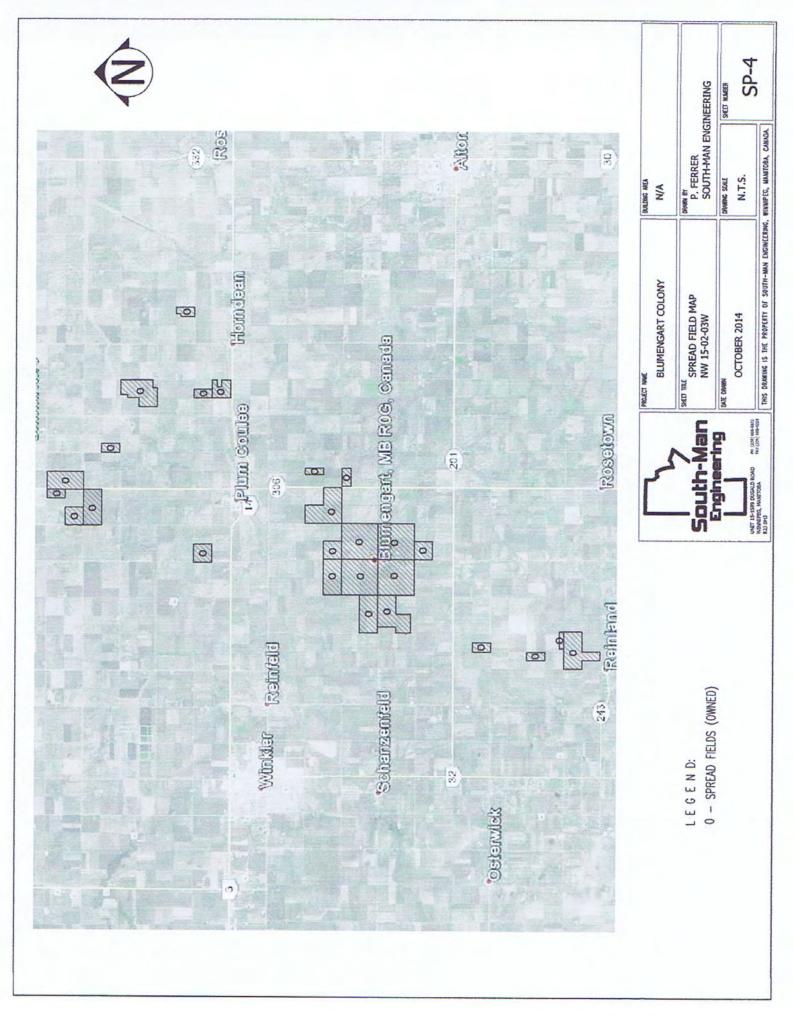
Setback Distances (Livestock Manure and Mortalities Management Regulation) Using the following table to indicate the distance from:

Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
Surface watercourse, sinkhole, spring, or well	Manure storage facility	100 m	n/a	FIELD STORAGE
	Field storage	100 m	>100 m	Locations change annually
	Composing site	100 m	158 m (519 Ft)	Municipal Drain
	Confined livestock area	100 m	nja	
Property Line	Manure storage facility	100 m	nja	Field Storage
	Composing site	100 m	376 m (1233 FT)	WEST PROPERTY LINE.
	Confined livestock area	100 m	n/a	

If any setback distances have not been met, please provide explanation below:

Show: a) location of the project site, location and ownership of spread fields and b) land uses and significant features including dwellings (i) within a 1 mile radius of the project site and (ii) within and adjacent to each spread field on a Land Use & Spread Field Map. (See Land Use & Spread Field Map Example).





12.0 Truck Haul Routes and Access Points

One consideration with new or expanding livestock operations is the potential impact on existing public roads (municipal and provincial), access and the need for improvements or mitigation. Complete the following table.

	Num	d Average aber of ay accessing		and the same of th		ght Hand				light Hand
Vehicle Type	Provincial Trunk Highway	Provincial Road	Trunk I	vincial Highway TH)		cial Road PR)	Hig	cial Trunk hway PTH)	1	ncial Road (PR)
	(PTH)	(PR)	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck										
Tractor Trailer	1	1	х			Х	X	х		
Other - Specify										

Identify what roads and access points will be used for the proposed operation? (See <u>Truck Haul Routes and Access Points Map</u> for an example).

For help with mapping, contact your <u>Community and Regional Planning Regional Office</u>.

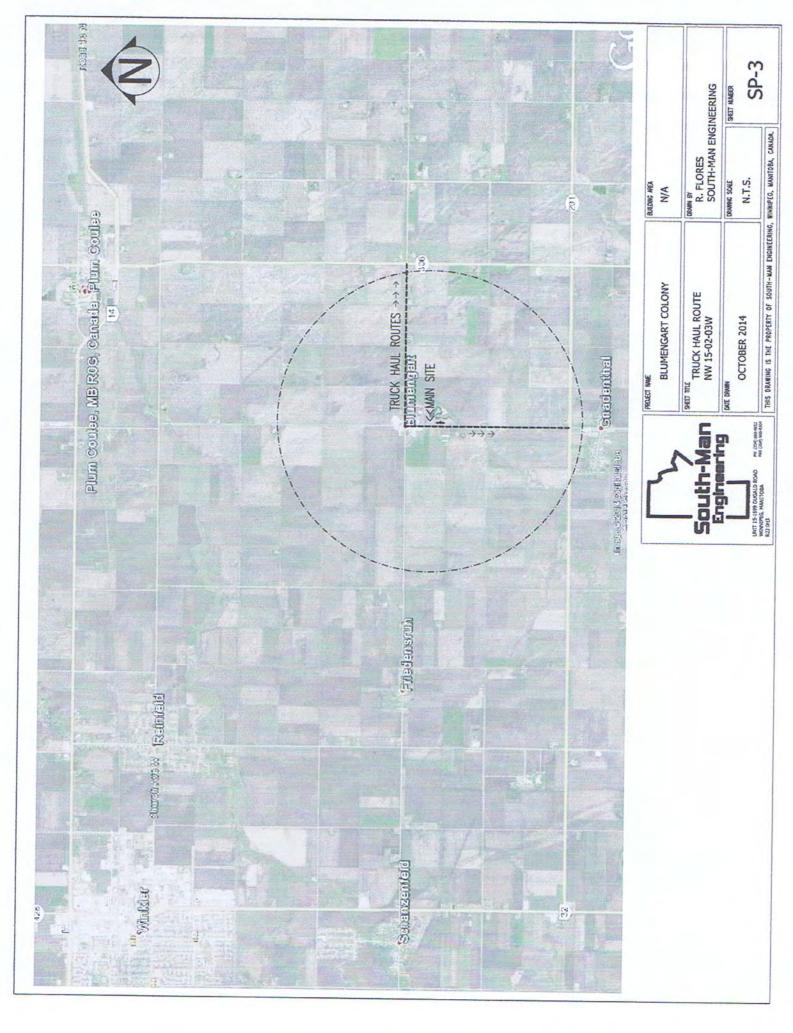
X Truck Haul Routes and Access Points Map attached

13.0 Conservation Data Centre Report

A Conservation Data Centre Report must be requested and the response attached to this site assessment. The request may be submitted electronically at:

www.gov.mb.ca/conservation/cdc

Were rare species id	tified in the Conservation Data Centre Rep	ort?
Yes		
X No		



14.0 Supporting Documents

Check o	If the supporting documents included in this submission:
X Con	tact Information and Privacy and Publication Notice
-	ation Map (shows proposed project within rural municipality)
	nal Units Calculation Table
X Wate	er Requirement Calculation Table
X Man	ure Production Calculator Table
	ting and Proposed Manure Storage Facility Dimensions Tables oplicable)
X Man	ure Application Field Characteristics Table
X Crop	Rotation Table
inc	th depths, Phosphorus – ppm at 0-6 inch depth)
	Base Calculator
	ect Site Plan (proposed operation showing current and proposed structures)
loc	Use and Spread Field Map (location and ownership of operation, spread fields, ation and distance to non-agricultural uses, development plan designation, zoning project site and spread fields)
	k Haul Routes and Access Points Map (with routes and access points on nicipal/provincial roads and/or provincial trunk highways)
TWEET .	onse from the Conservation Data Centre
Othe	r, please specify:
15.0 Dec	laration
I do here required	eby verify that the information contained in the Site Assessment and all Supporting Documents is accurate and complete to my knowledge
Date:	Feb 2/2015
Signatur	e: /£ A

From:

Friesen, Chris (CWS) < Chris.Friesen@gov.mb.ca>

Sent:

Friday, October 31, 2014 2:03 PM

Subject:

Expansion of a livestock operation - Blumengart Colony

Sylvio

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and others who have shared their data, and reflect our current state of knowledge. An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present; in many areas, comprehensive surveys have never been completed. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments.

Because the Manitoba CDC's Biotics database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request. Please contact the Manitoba CDC for an update on this natural heritage information if more than six months pass before it is utilized.

Third party requests for products wholly or partially derived from Biotics must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data contributors on any map or publication using Biotics data, as follows as: Data developed by the Manitoba Conservation Data Centre; Wildlife Branch, Manitoba Conservation and Water Stewardship.

This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information please contact me directly at (204) 945-7747.

Chris Friesen
Biodiversity Information Manager
Manitoba Conservation Data Centre
204-945-7747
chris.friesen@gov.mb.ca
http://www.gov.mb.ca/conservation/cdc/

----Original Message-----

From:

Sent: October-24-14 9:35 AM To: Friesen, Chris (CWS)

Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Friday, October 24, 2014 at 09:34:51

DocumentID: Manitoba_Conservation

Project Title: Expansion of a livestock operation - Blumengart Colony

Date Needed: 2014/11/07

Name: Sylvio Tessier

Company/Organization: Ssouthman Engineering

City: Winnipeg

Province/State: Manitoba

Phone: 204-290-7797

Email: sylvio.tessier@mymts.net

Project Description: Blumengart Colony is proposing to expand their turkey operations located at NE16-2-3W by adding a new covered turkey barn at NW15-2-3W.

Information Requested: We would like to know whether the area is known as a habitat for endangered species, and if so, what mitigation procedures would be required to minimize any impacts. At the same time, we need to know if there would be any protected habitats in the RM of Rhineland.

Format Requested: MS Word, Excell, or maps are acceptable formats

Location: MW15-2-3W inm RM of Rhineland

action: Submit

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

					3061	Total Net Acreage for Manure Application:					
A40	AG	29	32	2W	146	Prop. Lines, Surf Water	240	0	Rhineland	S20-3-2W	150S
A40	AG	33	60	2W/3I	158	Prop. Lines, Surf Water	160	0	Rhineland	NE21-2-3W	뚌
A40	AG	28	48	1/3!	55	Prop. Lines, Surf Water	50	0	Rhineland	SW20-2-3W	2W
A40	AG	41	60	2W/3I	158	Prop. Lines, Surf Water	160	0	Rhineland	SE28-2-3W	æ
A40	AG	14	28	1	120	Prop. Lines, Surf Water	120	0	Rhineland	SW16-2-3W	19₩
A40	AG [52	32	2W/1	65	Prop. Lines, Surf Water	80	0	Rhimeland	SW22-2-3W (N)	15N
A40	AG	19	8	2W/1	230	Prop. Lines, Surf Water	240	0	Rhineland	NE20-3-2W	150N
A40	AG	16	48	2₩	178	Prop. Lines, Surf Water	240	0	Rhineland	E8-3-2W	15 <u>4</u>
A40	A6]	12	28	3W/2W	65	Prop. Lines, Surf Water	80	0	Rhineland	SE15-3-2W	153
AG	ÁG	15	29	2W/3W	317	Prop. Lines, Surf Water	320	0	Morris	S18-5-2W	140
AG	AG	48	36	2W/3W	79	Prop. Lines, Surf Water	80	0	Roland	SE11-4-3W	118
A40	AG	19	16	1/2W	160	Prop. Lines, Surf Water	160	0	Rhineland	SW27-2-3W	115
A40	AG	12	76	2W/1	320	Prop. Lines, Surf Water	320	0	Rhineland	W36-3-3W	114
A40	AG	11	95	1	160	Prop. Lines, Surf Water	160	0	Rhineland	NE26-2-3W	110
A40	A6	18	52	1	79	Prop. Lines, Surf Water	80	0	Rhineland	NW24-2-3W	27
A40	AG	26	1 2	1/31	160	Prop. Lines, Surf Water	160	٥	Rhineland	SE26-2-3W	1 3
A40	AG	31	88		160	Prop. Lines, Surf Water	160	0	Rhineland	SW26-2-3W	10
A40	AG	23	9 6	2W/1	306	Prop. Lines, Surf Water	320	0	Rhineland	S21-2-3W	ω
A40	AG	37	116	î	150	Prop. Lines, Surf Water	150	0	Rhineland	S20-2-3W	Ź
Zoning	Development Plan Designation	Soil Phosphorus (ppm Olsen P) 0-6 inches	Soil Nitrate (tb/acre) 0-24	Agriculture Capability Class and Subclass	Net Acreage for Manure Application	Setbacks, including features	Total Acreage	O/L/A	Rural Municipality	Legal Description	Field
Τ.	_		Н	9	71		D	င	0		

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).

Manure Application:

Identify the Rural Municipality in which the parcel is located.

Indicate how the land has been secured for manure application: O – Own / L – Lease / A – Agreement

Enter the total acreage for the parcel.

Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3

≭Θυπποα≽ Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.

Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-Provide soil test results for nitrate-N in Ib/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field Please indicate the Development Plan and its by-law number in addition to the map designation for each field

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

			:		2347	Total Net Acreage for					
A40	A6	54	40	2W/1	65	Prop. Lines, Surf Water	80	0	Rhineland	SW22-2-3W	15S
A40	AG	15	92	2W/1	53	Prop. Lines, Surf Water	80	0	Rhineland	SE6-2-3W	216
A40	AG	16	84	2W/31	75	Prop. Lines, Surf Water	80	0	Rhineland	NW30-1-3W	215
A40	AG	12	64	1	40	Prop. Lines, Surf Water	40	0	Rhineland	SE30-1-3W	214
A40	AG	9	43	1/2W	160	Prop. Lines, Surf Water	160	0	Rhineland	NE19-1-3W	212
A40	AG	15	44	1/2W	160	Prop. Lines, Surf Water	160	0	Rhineland	NW19-1-3W	211
A40	A6 1	10	33	1/2W	78	Prop. Lines, Surf Water	80	0	Rhineland	SW30-3-2W	155
AR40	A6 (29	\$	2W/1	137	Prop. Lines, Surf Water	160	0	Rhineland	NW10-3-3W	119
AG	AG	20	72	2W/3W	80	Prop. Lines, Surf Water	80	0	Roland	NE2-4-3W	117
A40	AG I	20	51	2W	150	Prop. Lines, Surf Water	160	0	Rhineland	SW35-3-3W	116
A40	AG	30	24	2W/1	78	Prop. Lines, Surf Water	80	0	Rhineland	NE35-3-3W	112
A40	A6	9	41	1/2W	150	Prop. Lines, Surf Water	160	0	Rhineland	NW26-3-3W	111
A40	AG	43	44	1	170	Prop. Lines, Surf Water	160	0	Rhineland	SE16-2-3W	19E
A40	AG J	12	40	1/2W	52	Prop. Lines, Surf Water	52	0	Rhineland	NW25-2-3W	28
A40	AG	34	52	2M/3M	79	Prop. Lines, Surf Water	80	0	Rhineland	NW10-2-3W	26
A40	AG	42	4 8	2M/3M	79	Prop. Lines, Surf Water	80	0	Rhineland	NW10-2-3W	25
A40	AG	39	66	_	118	Prop. Lines, Surf Water	118	0	Rhineland	NW17-2-3W	24
A40	AG	51	108	1/2W	231	Prop. Lines, Surf Water	240	0	Rhineland	N16-2-3W	20
A40	AG	34	48	2M/1	238	Prop. Lines, Surf Water	320	٥	Rhineland	W15-2-3W	18
AG	AO	26	16	2W	154	Prop. Lines, Surf Water	160	0	Roland	SW3-4-3W	9
Zoning	Development Plan Designation	Soli Phosphorus (ppm Olsen P) 0-6 inches	Soil Nitrate (Ib/acre) 0-24	Agriculture Capability Class and Subclass	Net Acreage for Manure Application	Setbacks, including features	Total Acreage	O/L/A	Rural Municipality	Legal Description	Field
*	J		Ŧ	G	*	3	D	C	В	A	

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).

Manure Application:

Identify the Rurat Municipatity in which the parcel is located.

indicate how the land has been secured for manure application: 0 - Own / L - Lease / A - Agreement

Enter the total acreage for the parcel.

 ± 0 \pm 0 \pm 0Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3 Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.

Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

Provide soil test results for nitrate-N in lb/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

Please indicate the Development Plan and its by-law number in addition to the map designation for each field

Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

					1634	Total Net Acreage for					
A40	AG	8	24	2W	86	Prop. Lines, Surf Water	80	0	Rhineland	S19-1-2W	213
AG	AG	13	56	1/31	153	Prop. Lines, Surf Water	160	0	Stanley	NE23-1-4W	210
AG	AG	17	12	MZ/ME	160	Prop. Lines, Surf Water	160	0	Morris	SE16-4-2W	158
AG	AG	12	25	3W	151	Prop. Lines, Surf Water	160	0	Morris	NW10-4-2W	157
AG	AG [18	œ	3W/2W	152	Prop. Lines, Surf Water	160	0	Morris	SE8-4-2W	152
A40	AG	21	32	1/3M	120	Prop. Lines, Surf Water	120	0	Rhineland	SW17-2-3W	23
A40	AG]	57	60	3M/1	160	Prop. Lines, Surf Water	160	0	Rhineland	NE17-2-3W	22
A40	AG	22	24	1/2W	188	Prop. Lines, Surf Water	320	0	Rhineland	E15-2-3W	17
A40	AG	99	32	1/2W	160	Prop. Lines, Surf Water	160	0	Rhineland	NW22-2-3W	16
A40	AG	39	76	2W/1	150	Prop. Lines, Surf Water	160	0	Rhineland	SE22-2-3W	14
A40	AG	36	48	W2/1	160	Prop. Lines, Surf Water	160	0	Rhineland	NE22-2-3W	11
Zoning	Development Plan Designation	Soil Phosphorus (ppm Olsen P) 0-6 inches	≘ -	Agriculture Capability Class and Subclass	Net Acreage for Manure Application	Setbacks, including features	Total Acreage	ОЛЈА	Rural Municipality	Legal Description	Field
*	j		Н	G	71		D	C	В	A	

Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish)

Manure Application:

<u>इ</u>

Identify the Rural Municipality in which the parcel is located.

Indicate how the land has been secured for manure application: 0 - 0wn / L - Lease / A - Agreement

Enter the total acreage for the parcel.

Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3

∓⊎uuboa⊳ Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.

Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-Provide soil test results for nitrate-N in take at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

Please indicate the Development Plan and its by-law number in addition to the map designation for each field

Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field