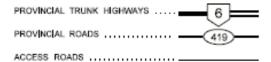
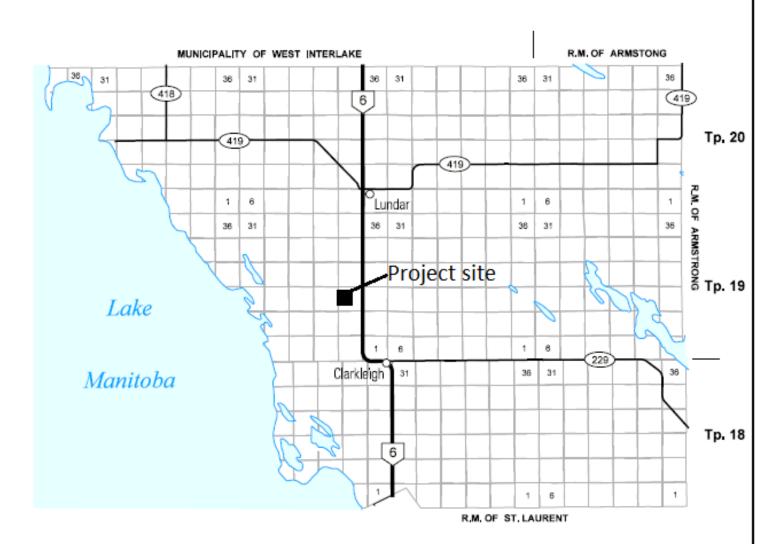


R.M. OF COLDWELL

PROVINCE OF MANITOBA
INFRASTRUCTURE
HIGHWAY PLANNING AND DESIGN BRANCH
GEOGRAPHIC & RECORDS MANAGEMENT SECTION
WINNIPEG
JANUARY 1, 2015

LEGEND





Rge. 7W. Rge. 6W. Rge. 5W. Rge. 4W. Rge. 3W.

Animal Units Calculator

| | | • | Operation | Proposed Operation | | |
|---|---|---|--|---|---------------------------------------|--|
| В | С | D | E | F | G | |
| Animal Categories | Animal Units per Head | Current Number of Animals ¹ | Current Animal Units | Proposed Number of Animals ² | Proposed Number of Animal Units | |
| Mature cows (lactating and dry) including associa | 2 | | - | | - | |
| Mature cows (lactating and dry) | 1.35 | | - | | - | |
| Heifers (0 to 3 months) | 0.16 | | - | | - | |
| Heifers (4 to 13 months) | 0.41 | | - | | - | |
| Heifers (> 13 months) | 0.87 | | - | | - | |
| Bulls | 1.35 | | - | | - | |
| Veal calves | 0.13 | | - | | - | |
| Beef cows including associated livestock | 1.25 | | - | | - | |
| Backgrounder | 0.5 | | - | | - | |
| 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) | 0.25 | | - | | - | |
| Sows - farrow to nursery (51 lbs) | 0.313 | | - | | - | |
| Boars (artificial insemination units) | 0.2 | | - | | - | |
| Weanlings, Nursery (11-51 lbs) | 0.033 | | - | | - | |
| Growers / Finishers (51-249 lbs) | 0.143 | | - | | - | |
| Broilers | 0.005 | | - | | - | |
| Roasters | 0.01 | | - | | - | |
| Layers | 0.0083 | | - | | - | |
| Pullets | 0.0033 | | - | | - | |
| Broiler breeder pullets | 0.0033 | | - | | - | |
| Broiler breeder hens | 0.01 | | - | | - | |
| Broilers | 0.01 | | - | | - | |
| Heavy Toms | 0.02 | | - | | - | |
| Heavy Hens | 0.01 | | - | | - | |
| Mares | 1.333 | | - | | - | |
| Ewes | 0.2 | | - | | - | |
| Feeder lambs | 0.063 | | - | | - | |
| Type: | | | - | | - | |
| Type: | | | - | | - | |
| | Animal Categories Mature cows (lactating and dry) including associa Mature cows (lactating and dry) Heifers (0 to 3 months) Heifers (4 to 13 months) Heifers (> 13 months) Bulls Veal calves Beef cows including associated livestock Backgrounder Summer pasture / replacement heifers Feeder cattle Sows - farrow to finish (234-254 lbs) Sows - farrow to nursery (51 lbs) Boars (artificial insemination units) Weanlings, Nursery (11-51 lbs) Growers / Finishers (51-249 lbs) Broilers Roasters Layers Pullets Broiler breeder pullets Broiler breeder hens Broilers Heavy Toms Heavy Hens Mares Ewes Feeder lambs Type: | Animal Units per Head Mature cows (lactating and dry) including associ: 2 Mature cows (lactating and dry) 1.35 Heifers (0 to 3 months) 0.16 Heifers (4 to 13 months) 0.41 Heifers (> 13 months) 0.87 Bulls 1.35 Veal calves 0.13 Beef cows including associated livestock 1.25 Backgrounder 0.5 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) 0.25 Sows - farrow to nursery (51 lbs) 0.313 Boars (artificial insemination units) 0.2 Weanlings, Nursery (11-51 lbs) 0.033 Growers / Finishers (51-249 lbs) 0.143 Broilers 0.005 Roasters 0.01 Layers 0.003 Pullets 0.0033 Broiler breeder hens 0.01 Broilers 0.01 Heavy Toms 0.02 Heav | Animal Current Number of Head Units per U | Mature cows (lactating and dry) including associa 2 | Animal Categories | |

Footnotes:

For all other livestock or operation types please inquire with the Manitoba Agriculture Contacts

Manitoba 🗩

Alternate estimate of animal units (AU) for the livestock inventories:

| 1 AU = 6 ewes (in c | onsultation with MAFRD) | |
|---------------------|-------------------------|----------|
| | Existing | Proposed |
| AU | 833 | 5000 |

¹Enter the current number of animals on the farm based on the operation's capacity (animal places) or previous Conditional Use Approval.

² Enter the total number of animals associated with the operation post construction or expansion.

³ 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.



Desalegn Edossa <desalegn.southmaneng@gmail.com>

Canada Sheep and Lamb - Lundar

1 message

Friesen, Chris (SD) < Chris.Friesen@gov.mb.ca> Fri, Apr 7, 2017 at 2:42 PM To: "desalegn.southmaneng@gmail.com" <desalegn.southmaneng@gmail.com>

Deslagn

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 & Fisheries Branch, Manitoba Sustainable Development.

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 Coordinator Manitoba Conservation Data Centre 204-945-7747 chris.friesen@gov.mb.ca http://www.manitoba.ca/conservation/cdc/

----Original Message----

From:

Sent: April-06-17 8:29 AM To: Friesen, Chris (SD)

Subject: WWW Form Submission

Below is the result of your feedback form. It was submitted by WWW Information Request () on Thursday, April 6, 2017 at 08:28:37

DocumentID: Manitoba Conservation

Project Title: Canada Sheep and Lamb - Lundar

Date Needed: 2017/04/13

Name: Desalegn Edossa

Company/Organization: Soth-Man Engineering

Address: 15-1599 Dugald Rd

City: Winnipeg

Province/State: MB

Phone: (204) 668-9652

Email: desalegn.southmaneng@gmail.com

Project Description: The information will be used to determine the impacts on species by a proposed livestock operation - expansion of sheep production to 20,000 ewes.

Information Requested: Would like to know if there are any species at risk or endangered in region that may be impacted by the livestock operation.

Format Requested: Microsoft Word Document as email attachment.

Location: NW 14-19-5W in the RM of Coldwell.

action: Submit

CROP ROTATION TABLE



| Α | В | С | D | E |
|--|---------|------------------|-------|-----------------------------|
| Expected Crops in the Rotation | Acreage | Historical Yield | Units | Source of Yield Information |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total Net Acreage for Manure Application | | | | |

- 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 acres 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 records are used, please provide copies.
- D. Enter the units for the yields provided (e.g. bu/acre, tons/acre).E. Enter the source of the historical yield average provided.

Manitoba Agriculture Food and Rural Development Land Base Calculator

Colour Conventions:

Farm specific data can be entered in the yellow cells of each tab. Where appropriate, default values have been provided but can be change fixed data are provided in the grey cells of each tab.

Calculated values are shown in the green cells of each tab.

The land base requirements for nitrogen (N) and phosphorus (P2O5) are provided in the amber cells on tab 4.

Data Entry and Tab Information:

Enter all of the livestock for your farm and associated data in the yellow cells under tabs 1a to 1e.

Enter all of the crop rotation data on tab 2. Long-term crop yield averages using MASC records are required for Provinical Technical Review Site Asses Total nitrogen (N) and total phosphorus (P2O5) excreted by the livestock are summarized on tab 3.

Nutrient excretion, crop nutrient use and acres required for nitrogen (N) and phosphorus (P2O5) are summarized on tab 4.

For assistance, contact:

Clay Sawka, Nutrient Management Specialist, MAFRD, (204) 750-3066 Petra Loro, Livestock Environment Specialist, MAFRD, (204) 945-3869

Last revised January 27, 2016

| Sheep/Operation Type | Storage Type | Volatilization | Animal Numbers | Weight In | Weight Out | Ave Weight | Days on Feed | Cycles per Year | N Excreted per Flock adjusted for Loss lb/flock/yr | P2O5 Excreted Per Flock Ib/flock/yr |
|----------------------------|---------------|----------------|-------------------|-----------|---------------|---------------|-----------------|--------------------|---|--|
| Ewes | Field Storage | 40% | 30000 | 120 | 170 | 145 | 365 | 1 | 428615 | 254470 |
| Replacement Ewes | Field Storage | 40% | 0 | 45 | 80 | 63 | 210 | 1 | 0 | 0 |
| Rams | Field Storage | 40% | 375 | 100 | 200 | 150 | 365 | 1 | 5542 | 3291 |
| Lambs | Field Storage | 40% | 17091 | 8 | 45 | 27 | 70 | 1.4 | 11982 | 7114 |
| | | | | | | | | | | |
| Ewes, plus assoc livestock | Field Storage | 40% | 0 | n/a | n/a | n/a | n/a | n/a | 0 | 0 |
| Feeder | Field Storage | 40% | 0 | 45 | 100 | 73 | 365 | 1 | 0 | 0 |

| The state of the s | r referred to as "Livestock Operator" |
|--|--|
| And: Kev. nB D States "Lan | r referred to as: downer" or d Renter" |
| Date: Ppr. L 2 2017 The duration of this agreement is of | finning at the above date. Itoms implicit to this agreement are presented on page 2. |
| Responsibilities of the Landowner or the Land Re- Land Parcels selected as potential fields to receive manure | nter |
| | ble for spreading copping Intentions Preferred Application Time Soy Brands After Hay |
| The Landowner or Land Renter: (Check where applicable/proposed will keep this document and any other related records in his files; Will notify the Livestock Operator of the dates those fields will be available agrees to purchase manure nutrient at a rate of \$ per _ 1 being applied with the method and time as specified below by the Live Will incorporate manure within 48 hours of broadcast applications if ag (below). | able for spreading; 000 gal or 1 tonne, conditional to manure stock Operator; |
| Responsibilities of the Livestock Operator | |
| Field Application Details | |
| Time of Application | ₽ Fall |
| Application method G Broadcast G Broadca G Injection G Irrigatio | st and incorporate within 48 hours on/sprinkler |
| Applicator Livestock Operator Custom applicator Anticipated Manure Application Starting Date: | |
| The Livestock Operator: (Check where applicable/proposed) will keep track of these records, but will not disclose them without the will pay all costs for soil testing and these results will be made available will carry a manure analysis test and the results will be made available will calculate the manure application rate for each field on the basis of the soil test recommendations for plant nitrogen requirements or the soil test recommendations for plant phosphorus requirements. general soil fertility recommendations as per the Soil Fertility Guin Practices Guidelines for Beef/Dainy/Hog/Poultry Producers in Manite will provide a proof of calibration for the manure spreading equipment; will notify the Landowner and the Land Renter of changes in anticipate crop nutrient (N, P, K); will have a manure management plan prepared by a professional agrolousetbacks to observe; will provide a copy overall manure management plan to the Landowner | le to both the Landowner and the Land Renter; to both the Landowner and the Land Renter; (check only one): de (Manitoba Agriculture and Food) or the Farm toba series d dates and rates of application in volume and gist, along with field map(s) highlighting |

| | LIVESTO | CK MAN | URE S | PREADING AGE | EEMENT | |
|--|--|--|---|---|--|--|
| | Please print Please print Please print | Cus Mall | arturé | Hereafter referred to as Hereafter referred to as "Landowner" or "Land Renter" | "Livestock Opera | tor* |
| Addition | of this agreemer | al agreement for agric | ultural inputs an | years, beginning at the a | thove date. greement ore presented or | ı page 2. |
| Responsi | bilities of the selected as pos | e Landowno | er or the | Land Renter | | |
| Field | Legal location | (Check one) Owned Rented | Nominal size (acres) | Area available for spreading (acres; exclusive of setbacks see p. 2 | Cropping Intentions | Preferred Application Time |
| | Nw 24-195W 5w 16-194W pw 9-194W | | | | | |
| agrees to being app will incor (below). | purchase manure n lied with the meth porate manure with | utrient at a rate od and time as s in 48 hours of b | of \$ pecified belo roadcast app | s will be available for spreadi per © 1000 gal or © bw by the Livestock Operator; lications if agreed to as part | Lonne, Conditional | |
| | ibilities of th | ie Livestoci | K Uperau | LP B. | | |
| | ication Details | | Carina | ☐ Summer ☐ Fall | | |
| | F Application ation method | | Broadcast Injection | Broadcast and incorpor | ate within 48 hour | 5 |
| Applicator Livestock Op Custom appl Anticipate | perator U | Name of appliation Starting | cator: | | | |
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| And: Michael Destarias William Please print Signature | | | | "Land Renter" | | Witness Free Comments | | | |
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| D | ch 23/20 | 17 | | | | a de la companya de l | | | |
| Date: ///a/ | E ship a graph | nd to ref | < | years, beginning at the al | pove date. | | | | |
| The duration of | terms of this contracts | al agreement for agri | icultural inputs and | years, beginning at the are Acts and regulations implicit to this egr | eement ore presented or | page 2. | | | |
| | | | | Land Renter | | | | | |
| Kesponsio | selected as poi | C Lanuven Fential fields | to receive n | nanure | | | | | |
| The second secon | Transfer of the second | (Check one) | Nominal size | Area available for spreading | Cropping Intentions | Preferred | | | |
| Field | Legal location | Owned Rented | (acres) | (acres; exclusive of setbacks see p. 2) | | Application Time | | | |
| | NW 20-19-4W | | | | | | | | |
| | 5W 20-194W | / | | | | | | | |
| | SE 20-1444 | | | | | | | | |
| | WE 30-18 An | to Charles | show another | hts/nronoced) | | | | | |
| The Landown | er or Land Ren is document and | HEIL (LINKLA M | od racords in | nic files: | | | | | |
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| | dea as marries of | emmont at a rate | a of S | Der Li 1000 der di 🐸 u | onne, conditional | to manure | | | |
| | | | | | | | | | |
| wall income | wate manure with | in 48 hours of | broadcast app | lications if agreed to as part o | f the manure appl | ication method | | | |
| (below). | 1 2 Me Oct. 111 Me 1 - M. | | | | | | | | |
| Pecnancil | pilities of th | ne Livestoc | k Operate | 3 9 | | | | | |
| | ation Details | | | | | | | | |
| | Application | 0 | Spring | ☐ Summer | | | | | |
| 1 | | 13 | Broadcast | Broadcast and incorpora | te within 48 hour | S | | | |
| Applicat | ion method | The state of the s | Injection | | | | | | |
| Applicator | | | | | | | | | |
| Livestock Ope | rator 💣 | | | | | | | | |
| Custom applic | | Name of appl | icator: | | and the second section of the second second section of the second | | | | |
| | Manure Applic | | | | | | | | |
| Rititheren | MERCHE LEPERIE | Theres wherein | 2 | | | | | | |
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| | | and a four from | at disclose the | m without the consent of the | Landowner and the | e Land Kenter; | | | |
| I man al | I anne for onthe | effine and those | rachite will fi | a made available to butti one i | TOURNAMED SING THE | processo separaments | | | |
| will carry | a manure analysis | test and the m | ASULTS WILL DE 1 | made available to both the Lar on the basis of (check only on | ie): | design experiences | | | |
| Will Calcul | soit test recomme | ppications for ob | ant nitrogen n | equirements or | | | | | |
| 5 5 La | - all back casemma | endetione for al | ent photohom | c requirements | | | | | |
| □ mene | eral soil fertility r | recommendation | is as per the b | on terriory curve (Manitoba N | griculture and Foo | a) or the Farm | | | |
| Prac | rices Guidelines fi | or Beef/Dairy/Hi | og/Pouttry Pro | ducers in manitopu series | | | | | |
| **** | 1 2 2 2 | auntion the the | montion coreso | ing equipment; es in anticipated dates and rai | res of application | in volume and | | | |
| THE PARTY OF LAND | comp / N D Will | | | | | | | | |
| LIUP HUUI | ient (N, P .K); a manure manada | ement plan prep | ared by a prof | essional agrologist, along with | n field map(s) high | ılighting | | | |
| t systems ! | ta aheania: | | | | | | | | |
| will provi | de a copy overall | manure manage | ement plan to | the Landowner and the Land F | tenter, it applicabl | Take 1 | | | |

| 5.000 | LIVESTO ALL SLEOP! Please print Please print Please print | is allele | URE SE | | reafter referred to as reafter referred to as: "Landowner" or "Land Renter" | "Livestock Opera | tor" |
|---|---|--|--|---|---|--|---|
| Additions | of this agreeme | al agreement for agi | Editorial reports the | addinations of the contract | irs, beginning at the a | bove date. | n poge Z. |
| Responsit | ilities of the selected as po | e Landown tential fields (Check one) | to receive n | nanu | re trea available for spreading ts; exclusive of setbacks see p. 2) | Cropping Intentions | Preferred. |
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| Field Application Applicator Livestock Op | erator 💇 | Name of app | Spring Broadcast Injection licator: | 0 | Summer Fail Broadcast and incorpor Irrigation/sprinkler | | 5 |
| The Livesta will keep will pay a will carry will carry the the pro will prov will noti crop nut | track of these recall costs for soil to a manure analysi late the manure as soil test recomm a soil test recomm a soil test recommunities of fertility ordices guidefines fifty the Landowner | Check where a cords, but will nesting and these stest and the repplication rate endations for plendations for plecommendation or Beef/Dainy/H bration for the and the Land Rement plan presents. | pplicable/protection disclose the results will be soults will be for each field and nitrogen read and phosphorus as per the Sog/Poultry Promanure spreadenter of change pared by a protection. | roposem wie made on the equirus requirus requirus requirus requirus requirus requirus requirus requirus requirus fession fession requirus | thout the consent of the de available to both the available to both the Lame basis of (check only or ements or uirements entility Guide (Manitoba As in Manitoba series | indowner and the lane): Agriculture and Footetes of application In field map(s) high | and Renter: d) or the Farm in volume and hlighting |

| LIVESTOCK | MANURE | SPREADING | AGREEMENT | _{gener} deservices è sense |
|--|---|--|--|---|
| Between: Canala Shespi Lam Please print And: Michael Asser Please print De 53 | - Whigh | // | ed to as "Livestock Opera ed to as: " or | itor* |
| Date: The duration of this agreement is Additional terms of this contractual agr | eement for agricultural inf | NE SULL STATE OF THE SULL STAT | at the above date. | n page 2. |
| Responsibilities of the L | andowner or | the Land Renter | | |
| 1 11000 | heck one) Nomina ned Rented (acn | I size Area available for sp | cks see p. 2) Cropping Intentions | Preferred Application Time |
| SW 19-19 4W SE 19-194W | | | | |
| NW 19-194W NE 19-19-4W | | | | |
| agrees to purchase manure nutrice being applied with the method a will incorporate manure within 4 (below). Responsibilities of the limited and the limited are likewith the method as the limited and the limited are likewith the like | nd time as specified 8 hours of broadcas | t applications if agreed to | 7U@101U1; | |
| Field Application Details Time of Application Application method | Spring Broad | cast Broadcast and | Fall incorporate within 48 hou nkler | rs |
| Applicator Livestock Operator Custom applicator Anticipated Manure Application | me of applicator: _ | | and the second s | |
| The Livestock Operator: (Chec. will keep track of these records, will pay all costs for soil testing will carry a manure analysis test will calculate the manure applic the soil test recommendat the soil test recommendat general soil fertility recorn Practices Guidelines for Be will provide a proof of calibratic will notify the Landowner and the crop nutrient (N, P, K); will have a manure management setbacks to observe; | but will not disclo- g and these results wi t and the results wi tation rate for each tions for plant nitro tions for plant phos nmendations as per ref/Dairy/Hog/Poulti- on for the manure's the Land Renter of the t plan prepared by | se them without the conse will be made available to be ill be made available to bot field on the basis of (chec gen requirements or phorus requirements the Soil Fertility Guide (Ma y Producers in Manitoba se preading equipment; changes in anticipated data a professional agrologist, a | th the Landowner and the lick only one): anitoba Agriculture and Foceries es and rates of application | and Renter; d) or the Farm in volume and |

| LIVESTOCK | | | | |
|--|--|---|--------------------------|-------------------------------|
| | MANURE S | PREADING AGI | REEMENT | |
| Between: Canala Sherpilam | | | | |
| Please print | Signature | Hereafter referred to as Hereafter referred to as | "Livestock Oper | ator" |
| And: Farrell Pott | Janel Po | "Landowner" or | | |
| 204. 739 - 3078 | Signature | "Land Renter" | | |
| , | | | | |
| Date: march 23/2017 | - | | | |
| The duration of this agreement is (Additional terms of this contractual agree | ment for agricultural inputs and | years, beginning at the a | bove date. | |
| Responsibilities of the La | ndowner or the | E and Dank- | ncement are presented of | n page 2. |
| Land Parcels selected as potentia | I fields to receive o | Land Kenter | | |
| | ck one) Naminal size | Area available for spreading | Cropping Intentions | 2.6.1 |
| | Rented (acres) | (acres; exclusive of setbacks see p. 2) | Cropping Intentions | Preferred Application Time |
| NW 12 19 5W SE 24 19 5W | 100 | | 65 to 50 | |
| NE 25195W | 70 | | 40 Paster 30 | Fain land |
| The Landowner or Land Renter: (| 113 | | inted Land |). |
| agrees to purchase manure nutrient being applied with the method and will incorporate manure within 48 h | time as specified below | by the Livestock Operator: | | |
| will incorporate manure within 48 h (below). | ours of broadcast applic | by the Livestock Operator; cations if agreed to as part of | | |
| will incorporate manure within 48 h | ours of broadcast applic | by the Livestock Operator; cations if agreed to as part of | | |
| will incorporate manure within 48 h (below). Responsibilities of the Live Field Application Details Time of Application | ours of broadcast applic | by the Livestock Operator; cations if agreed to as part of | | |
| will incorporate manure within 48 h (below). Responsibilities of the Live Field Application Details | ours of broadcast applie estock Operator Spring Broadcast | tations if agreed to as part of Summer Fall Broadcast and incorporate | the manure applic | |
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| will incorporate manure within 48 h (below). Responsibilities of the Live Field Application Details Time of Application Application method Applicator Livestock Operator Custom applicator Custom applicator Custom applicator | ours of broadcast applic /estock Operator Spring Broadcast Injection of applicator: | tations if agreed to as part of Summer Fall Broadcast and incorporate | the manure applic | |
| will incorporate manure within 48 h (below). Responsibilities of the Live Field Application Details Time of Application Application method Applicator Livestock Operator | ours of broadcast applie /estock Operator Spring Broadcast Injection of applicator: tarting Date: | Summer Fall Broadcast and incorporate Irrigation/sprinkler | the manure applic | |

| LIVESTOCK | MANURE SI | PREADING AGR | EEMENT | |
|---|---|--|----------------------|-------------------------------|
| Between: Canala Sheapi Land | . /////- | Hereafter referred to as Hereafter referred to as: | "Livestock Opera | itor" |
| no r Coull . | | "Landowner" or | | |
| And: Mark For Thing | Signaturé | "Land Renter" | | |
|) tease prine | | well Latin Metrica | | |
| Date: March 20/201 The duration of this agreement is of Additional terms of this controctual agreement. | f 5 | years, beginning at the a | bove date. | n poge 2. |
| Responsibilities of the La Land Parcels selected as potentia | | | | |
| Field Legal location (Chec | ck one) Nominal size Rented (acres) | Area available for spreading (acres; exclusive of setbacks see p. 2) | Cropping Intentions | Preferred Application Time |
| SE11195W | 0.8 | 160 | 110 | |
| SW 11 195W | 100 | 160 | 100 | |
| We 11 1954 | | 160 | 90 | |
| The Landowner or Land Renter: (| | 160 | | |
| will keep this document and any of will notify the Livestock Operator or agrees to purchase manure nutrient being applied with the method and will incorporate manure within 48 h (below). | f the dates those fields at a rate of \$ time as specified below | will be available for spreading per 1000 gal or 1000 by the Livestock Operator; | nne, conditional 1 | |
| Responsibilities of the Liv | vestock Operato | ľ | | |
| Field Application Details | | | | |
| Time of Application | Spring | ☐ Summer ● Fall | | |
| Application method | Broadcast Injection | Broadcast and incorporat Irrigation/sprinkler | e within 48 hours | |
| Applicator | | | | |
| Livestock Operator | | | | |
| | of applicator: | | | |
| Anticipated Manure Application | | | | |
| Anticipated Plantic Application | rectang bottom | | | |
| The Livestock Operator: (Check W | here applicable/pro | posed) | | |
| will keep track of these records, bu will pay all costs for soil testing ar will carry a manure analysis test an will calculate the manure application | nd these results will be and the results will be ma | made available to both the La ade available to both the Land | ndowner and the la | Land Renter; |
| the soil test recommendation the soil test recommendation qeneral soil fertility recommendation | s for plant nitrogen req s for plant phosphorus endations as per the <i>Soi</i> | uirements or requirements I Fertility Guide (Manitoba Agr | | or the Farm |
| Practices Guidelines for Beef/I will provide a proof of calibration f will notify the Landowner and the crop nutrient (N, P, K); | or the manure spreadin | g equipment; | s of application in | volume and |
| will have a manure management pl setbacks to observe; | | | | |
| will provide a copy overall manure | management plan to th | e Landowner and the Cand Ke | nter, 11 applicable. | |

| ETVI | STOCK | MANURE S | PREADING AGR | EEMENT | |
|--|--------------------|---------------------------|--|--|------------------|
| E. | Leopilamb | /////- | Hereafter referred to as | | ator" |
| Between: Canada J | | Signature | Hereafter referred to as: | Livestock open | 1101 |
| and mark | Farthing | W Faith | "Landowner" or | | |
| Vonie | print Farthin | Signaturé | "Land Renter" | | |
| | Oala | y | | | |
| Date: OC+ | 7017 | | | | |
| The duration of this a | greement is o | f | years, beginning at the all d Acts and regulations implicit to this aga | bove date. | n none 2 |
| | | British Colon Co. | | terrain are prevented a | ii pogu a. |
| Responsibilities Land Parcels selecte | | | | | |
| | | k one) Nominal size | Area available for spreading | Cropping Intentions | Preferred |
| | Owned | | (acres; exclusive of setbacks see p. 2) | | Application Time |
| | 1-195W 3-195W | 159.5 | 120 | | |
| | | 100 | | | |
| lonie LE 15 | | 160 | /30 | | |
| The Landowner or L will keep this docum | and Renter: (| Check where applica | ible/proposed) | | |
| | | | s will be available for spreading | 3: | |
| | | | per 1000 gal or 1 to | | to manure |
| being applied with I | the method and | time as specified belo | w by the Livestock Operator; | | |
| will incorporate mar (below). | ure within 48 h | ours of broadcast appl | ications if agreed to as part of | the manure appli | ication method |
| Responsibilities | of the Liv | estock Operato | or at | | |
| Field Application De | etafis | | | | |
| Time of Application | m | Spring | Summer Fall | | |
| Application method | od | ☐ Broadcast ☐ Injection | Broadcast and incorporat Irrigation/sprinkler | e within 48 hours | |
| Applicator | | | | | |
| Livestock Operator | ⊗ | -611b | | | |
| Custom applicator | | of applicator: | | | |
| Anticipated Manure | Application 3 | starting pate: | | | |
| The Livestock Opera | | | | | |
| will keep track of the | ese records, but | will not disclose then | n without the consent of the L | andowner and the | Land Renter; |
| will pay all costs to | soli testing an | d these results will be m | made available to both the La ade available to both the Land | howner and the La | and Renter: |
| will calculate the m | anure applicatio | n rate for each field o | n the basis of (check only one |): | |
| | | s for plant nitrogen re | | | |
| the soil test i | ecommendations | s for plant phosphorus | reguirements il Fertility Guide (Manitoba Agr | iculture and Food |) or the Farm |
| Practices Guid | elines for Beef/L | Dairy/Hog/Poultry Prod | ucers in Manitoba series | TO T | , |
| will provide a proof | of calibration for | or the manure spreading | ng equipment; | a of applicables is | a unlume and |
| erop nutrient (N, P | | and Renter of change | s in anticipated dates and rate | s or application if | онь эншоч |
| will have a manure | management pla | an prepared by a profe | ssional agrologist, along with | field map(s) highl | ighting |
| setbacks to observe | overall manure | management plan to t | he Landowner and the Land Re | nter, if applicable | |
| - will brovide a copy | Attender manning | menegeniene puni so s | | | |

| | LIVESTO | CK | MA | NURE S | PREADING AG | REEMENT | |
|--|--|------------------|---------------------|-------------------------|--|--------------------------|------------------|
| Between: | enala Sherpi | 1 | 1 / | | | | |
| 0.00110.0111 | Please print | N/Inda | 4 | Signature | Hereafter referred to | as "Livestock Ope | erator" |
| And KEN | is Gudmund | Land | K2 | raignature | Hereafter referred to a | 15: | |
| Mid. MCL | Please print | 100 | 1 | Stansburg | - X "Landowner" or | | |
| | russe princ | | | Signature | Land Renter" | | 0 14 |
| Date: Mon | 22-17 | | | | | | 3-13 |
| | of this agreeme | nt is of | F | _ | reason benjantan at the | | |
| Addition | of terms of this contractu | al agreem | ent for ag | gricultural inputs an | years, beginning at the d Acts and regulations implicit to this | above date. | |
| | | | | | | ogretiment die presenteo | on page 2. |
| Land Parcels | selected as poi | e Ldi tential | fields | ner or the to receive n | Land Renter | | |
| Field | Legal location | (Check | | Nominal size | Area available for spreading | Cropping Intention | But |
| | | | Rented | (acres) | (acres; exclusive of setbacks see p. 2 | Copping Intention: | Application Time |
| | Sw 24-195W | | | 160 | 130 | Hayhard | |
| | NE 15-19-5W NW15-19-5W | × | | 160 | 80 | Pasture Tam | ie Hay |
| | 5W 15-19-5W | Ŷ | | 160 | 80 | Porting | |
| The Landown | or or Land Davi | | f | 166 | 10 | Posting | |
| will keen th | ner or Land Rent ris document and a | my oth | or rolete | mere appaca | ole/proposea) | | |
| will notify t | the Livestock One | stor of | the det | eu recuras in n | is mes; will be available for spreadi | | |
| agrees to pr | urchase manure nu | triont a | t a man | es uiose neigs | will be available for spreadi | ng; | |
| being applie | ed with the methor | i and t | ima ac | engrified holou | per \(\) 1000 gal or \(\) the Livestock Operator; | conne, conditional | to manure . |
| will income | rate manure within | 48 ho | ttre of l | specified below | by the Livestock Operator; | | |
| (below). | rese monere michi | 1 40 110 | mia di F | nonucast appti | cations if agreed to as part of | of the manure appl | ication method |
| Perponeih | distinct of the | 12 | | . 0 | | | |
| | ilities of the | LIVE | STOC | K Uperator | 1945 | | |
| Field Applica | | | | | | | |
| | application | | | Spring | Summer 🐷 Fall | | |
| Application | on method | | | Broadcast | Broadcast and incorpora | te within 48 hours | |
| | | | | Injection | ☐ Irrigation/sprinkler | | |
| Applicator | | | | | | | |
| Livestock Opera | | | | | | | |
| Custom applica | tor 🔲 N | ame of | f applic | ator: | | | |
| Anticipated I | Manure Applicat | ion St | arting | Date: Och | H 17 2017 | | |
| The Livestoci | c Operator: (Che | ele who | one and | nttenhlo/nenn | acad) | | |
| will keen tra | ick of these record | e but a | ere upp vill not | disclose them | without the server of the | | |
| will pay all | costs for soil testing | ag and | these n | aculte will ha m | without the consent of the Lande available to both the La | andowner and the | Land Renter; |
| will carry a | manure analysis te | st and ' | the resi | ults will be mad | de available to both the land | lowner and the La | nd Postor |
| MUT CHECOTOR | e the manure appl | cation | rate for | r each field on | the basis of (check only one |); | nu menuer, |
| Lue 20 | il test recommend: | ations i | or plan | t nitrogen regu | rirements or | | |
| the so | il test recommend | ations f | or plan | t phosphorus re | equirements | | |
| Q genera Practic | it sail refullty reco | mmend | ations a | as per the Soil | Fertility Guide (Manitoba Agr ers in Manitoba series | iculture and Food) | or the Farm |
| will provide | a proof of calibrat | inn for | the ma | nura sprandina | ers in Manitoba series | | |
| will notify the | he Landowner and | the Lar | nd Rent | er of changes i | n anticipated dates and rate | s of application in | volume and |
| crop nutrien will have a resetbacks to | manure managemen | nt plan | prepare | ed by a profess | ional agrologist, along with | field map(s) highli | ghting |
| SELLIGILIS IU | UDSELVE; | | | | Landowner and the Land Re | | |
| | | | | | | | |

| LIVESTOCK | MANURE S | PREADING AGR | EEMENT | |
|---|---|---|-------------------------------------|-------------------------------|
| Between: Canala Sheepi Lan Please print And: Sason Olasson Please print | . /////- | Hereafter referred to as ' Hereafter referred to as: "Landowner" or | | itor" |
| Please print | / Signature/ | Land Renter" | | |
| Date: March 15 20 The duration of this agreement is Additional terms of this controctual agreement | s of S | _ years, beginning at the all Acts and regulations implicit to this agr | pove date. | n page 2. |
| Responsibilities of the L Land Parcels selected as potent | | | | |
| Ow | Check one) Nominal size ned Rented (acres) | Area available for spreading (acres; exclusive of setbacks see p. 2) | Cropping Intentions | Preferred Application Time |
| NF 22-19-5W | 160 | 100 | | |
| SE 22-19-5W | 135 | 110 | | |
| The Landowner or Land Renter | | | | |
| will incorporate manure within 40 (below). Responsibilities of the l | | | ше напите арри | cation metrico |
| | ivestory obeign | 1 | | |
| Field Application Details | acina a | Summer Fall | | |
| Time of Application Application method | Spring Broadcast Injection | Broadcast and incorporate Irrigation/sprinkler | e within 48 hours | |
| Applicator | | | | |
| Livestock Operator | | | | |
| Custom applicator Nar | ne of applicator: | | | |
| Anticipated Manure Application | n Starting Date: | | | |
| The Livestock Operator: (Check | whom annitentio/pm | nacad) | | |
| will keep track of these records, will pay all costs for soil testing will carry a manure analysis test will calculate the manure applica the soil test recommendati | but will not disclose them and these results will be and the results will be many atton rate for each field on the for plant nitrogen res | m without the consent of the La made available to both the La ade available to both the Land in the basis of (check only one) juirements or | ndowner and the owner and the La | Land Renter; |
| the soil test recommendati general soil fertility recom Practices Guidelines for Bee will provide a proof of calibration will notify the Landowner and the crop nutrient (N, P, K); | mendations as per the Soi of/Dairy/Hog/Poultry Product of for the manure spreading | il Fertility Guide (Manitoba Agri ucers in Manitoba series ng equipment; | | |
| will have a manure management setbacks to observe; | plan prepared by a profes | ssional agrologist, along with t | field map(s) highl | ighting |

| | | | | AC | DEEMENT | |
|--|--|--|---|---|---|---|
| Å | LIVESTO | <u>CK MAI</u> | NURE S | PREADING AG | | |
| Between: Ca | nada Sherpi | Lamb of | 181 | Hereafter referred to a | s "Livestock Ope | erator" |
| | Please print | 50 | Signature | Thereafter referred to a | s: | |
| And: <u>F</u> | arrel Pot | _ <u>U</u> | nell | U 🔲 "Landowner" or | | |
| | Please print | - | Signature | "Land Renter" | | |
| Date: | | | | | | |
| The duration | of this agreement towns of this controcts | nt is of of agreement for ag | S pricultural inputs an | years, beginning at the | above date. | on page 2. |
| | | Photo and the state of the stat | | Land Renter | | |
| Land Parcels | selected as poi | tential fields | to receive | manure | | |
| Reld | Legal location | (Check one) | Nominal size | Area available for spreading | Cropping Intentions | Preferred |
| | SE 25-195W | Owned Rented | (acres) | (acres; exclusive of setbacks see p. 2) | | Application Time |
| | DE 36 19 5W | | | | | |
| | SE 36 19 5h | | | | | |
| ■ will notify □ agrees to p being appli | urchase manure nu ed with the metho | ator of the dat strient at a rate d and time as | es those fields of \$ specified below | will be available for spreadin per 1000 gat or 10 to w by the Livestock Operator; ications if agreed to as part of | onne, conditional to | |
| | rilities of the | e Livestoc | k Operato | r | | |
| Field Applica | | | | | | |
| | Application | | Spring | | | |
| Application | on method | | Broadcast Injection | Broadcast and incorporat Irrigation/sprinkler | e within 48 hours | |
| Applicator | | | | | | |
| Livestock Opera | | lama af namiti | nton. | | | |
| | tor 🔲 N Nanure Applicat | | | | | |
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| will keep trail will pay all company and c | osts for soil testinanure analysis ter the manure appli test recommenda l test recommenda soil fertility recor sold fertility recor proof of calibratic Landowner and t (N, P, K); anure management | s, but will not ag and these rest and the rest cation rate for those for plant mmendations are f/Dairy/Hog/on for the maithe Land Rente | disclose them esults will be alts will be ma each field or t nitrogen req t phosphorus as per the Soil Poultry Product nure spreading er of changes | without the consent of the Lamade available to both the Lamade available to check only one uirements or requirements Fertility Guide (Manitoba Agrees in Manitoba series | andowner and the Lar a): riculture and Food) s of application in | and Renter; ad Renter; or the Farm volume and |
| | | ure manageme | nt plan to the | Landowner and the Land Re | antas if analoshla | |

| Name of Persons and | LIVESTOCK MANURE SPREADING AGREEMENT |
|--|---|
| | Between: Canala Shespi Lamb Hereafter referred to as "Livestock Operator" Hereafter referred to as: Hereafter referred to as: And: KEVIN GUIDMANDOS ASSIGNATURE Please print Signature "Landowner" or Please print Signature "Land Renter" |
| Charman activities in president property | Date: The duration of this agreement is of |
| | Responsibilities of the Landowner or the Land Renter Land Parcels selected as potential fields to receive manure |
| | Field Legal location (Check one) Nominal size Area available for spreading Cropping Intentions Preferred Application Time St. 16 19 5tb St. 14 19 5tb |
| | The Landowner or Land Renter: (Check where applicable/proposed) will keep this document and any other related records in his files; will notify the Livestock Operator of the dates those fields will be available for spreading; agrees to purchase manure nutrient at a rate of \$ per 1000 gal or 1000 tonne, conditional to manure being applied with the method and time as specified below by the Livestock Operator; will incorporate manure within 48 hours of broadcast applications if agreed to as part of the manure application method (below). |
| The management of the street o | Responsibilities of the Livestock Operator Field Application Details Time of Application |
| | The Livestock Operator: (Check where applicable/proposed) will keep track of these records, but will not disclose them without the consent of the Landowner and the Land Renter; will pay all costs for soil testing and these results will be made available to both the Landowner and the Land Renter; will carry a manure analysis test and the results will be made available to both the Landowner and the Land Renter; will calculate the manure application rate for each field on the basis of (check only one): the soil test recommendations for plant nitrogen requirements or the soil fertility recommendations for plant phosphorus requirements general soil fertility recommendations as per the Soil Fertility Guide (Manitoba Agriculture and Food) or the Farm Practices Guidelines for Beef/Dainy/Hog/Paultry Producers in Manitoba series will provide a proof of calibration for the manure spreading equipment; will notify the Landowner and the Land Renter of changes in anticipated dates and rates of application in volume and crop nutrient (N, P, K); will have a manure management plan prepared by a professional agrologist, along with field map(s) highlighting setbacks to observe; will provide a copy overall manure management plan to the Landowner and the Land Renter, if applicable. |

| LIVESTOCK MANURE SP | READING AGREEMENT |
|---|--|
| Between: Canala Sheaps Lamb Please print And: Kevin Gadmundson Bull Kevien Please print Signature | Hereafter referred to as "Livestock Operator" Hereafter referred to as: "Landowner" or "Land Renter" |
| Date: The duration of this agreement is of Additional terms of this contractual agreement for agricultural inputs and A | years, beginning at the above date. |
| Responsibilities of the Landowner or the L Land Parcels selected as potential fields to receive ma | and Renter |
| Field Legal location (Check one) Nominal size | Area available for spreading Cropping Intentions Preferred Application Time |
| The Landowner or Land Renter: (Check where applicable will keep this document and any other related records in his will notify the Livestock Operator of the dates those fields was agrees to purchase manure nutrient at a rate of \$ being applied with the method and time as specified below to will incorporate manure within 48 hours of broadcast applications). | files; ill be available for spreading; per 🗆 1000 gal or 🔘 tonne, conditional to manure by the Livestock Operator; |
| Application method Applicator Livestock Operator | |
| Anticipated Manure Application Starting Date: | |
| The Livestock Operator: (Check where applicable/proposed will keep track of these records, but will not disclose them we will pay all costs for soil testing and these results will be made will carry a manure analysis test and the results will be made will calculate the manure application rate for each field on the soil test recommendations for plant nitrogen required the soil test recommendations for plant phosphorus required general soil fertility recommendations as per the Soil For Practices Guidelines for Beef/Dairy/Hog/Poultry Producer will provide a proof of calibration for the manure spreading each will notify the Landowner and the Land Renter of changes in crop nutrient (N, P, K); will have a manure management plan prepared by a profession setbacks to observe: | ithout the consent of the Landowner and the Land Renter; de available to both the Landowner and the Land Renter; available to both the Landowner and the Land Renter; ne basis of (check only one): ements or quirements or quirements eartility Guide (Manitoba Agriculture and Food) or the Farm is in Manitoba series equipment; anticipated dates and rates of application in volume and |
| Will provide a copy overall manure management plan to the L | andowner and the Land Renter, if applicable. |

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| | M | Please print | | 1 | | the | | | | |
| And | | at chri | | | W | | | ndowner" or | | |
| * | Lon | Dy Far | this | 4 | 1.8 | ighature / | lai" ليا ح | nd Renter" | | |
| Dat | | | (| | | | | | | |
| Th | | of this agre | | | | ficultural inputs an | _ years, be of Acts and regula | ginning at the a | above date. greement are presented | on page 2. |
| | | | | | | er or the | | nter | | |
| | Field | Legal locati | ion | (Check Owned | one) Rented | Nominal size (acres) | | able for spreading re of setbacks see p. 2) | Cropping Intentions | Preferred Application Time |
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| - | | | | | | | | | | |
| | agrees to being app | purchase man hed with the | metho | utrient od and | at a rat time as | e of \$ specified belo | per 🔾 1 w by the Live | stock Operator; | nne, conditional to the manure applica | |
| | Responsi | ibilities o | of th | e Liv | esto | k Operato | 20 | | | |
| Mary Control of the | | ication Deta | | | | | | _/ | | |
| | Time o | f Application | | | | Spring | ☐ Summer | | | |
| | Applica | ation method | | | | Broadcast Injection | | est and incorporate on/sprinkler | e within 48 nours | |
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| | will keep will pay a will carry will calcu the the gen Proc will provid will notify crop nutri will have setbacks t | track of these oll costs for so a manure and late the manusoil test recoveral soil fertile ctices Guideling the Landown lent (N, P, K); a manure manusco observe; | e recordictes of the second se | ds, but ting and test and plication dations dations commer Beef/D ation fo d the L | will not these of the re n rate for plantations or the n and Rein prepared to the n and Rein prepared to the n and Rein prepared to the n | results will be not sults will be not each field of the not nitrogen reach phosphorus as per the Song/Poultry Productive of change ared by a professional profess | m without the made available nade available on the basis of the property of th | ble to both the Lan of (check only one of its iide (Manitoba Aq itoba series it; ted dates and rat logist, along with | Landowner and the andowner and the downer and the Lie): priculture and Food tes of application in field map(s) hig | tand Renter; and Renter; d) or the Form in volume and hlighting |

| Between: Ca | with the first of the first of the | | Triving 46 | INTERPLIED AN | J II Valley Res E * E New E * | |
|--|---|--|---|--|--|------------------|
| Shares Call France. | nada Shespi | Lamb s | WHL | Hereafter referred to | as "Livestock () | nerator* |
| | Please print | 不 | Signature | Hereafter referred to | | |
| And: | James lai | V 4- | ニム | = "Landowner" or | | |
| | Please print | | Signature | "Land Renter" | | |
| | | | | ves Land Nelicel | | |
| Date: | | | | | | |
| The duration | of this agreeme of terms of this contracts | nt is of | ogricultural Inputs ar | years, beginning at the | above date. | on powe 2. |
| Responsil | <u>pilities of the</u> s selected as po | e Landov | uner or the | Land Danter | | |
| Field | Legal location | (Check one) | Nominal size | Area available for spreading | Cropping Intentions | Preferred |
| | SE 27-19 W | Owned Renb | 1 | (acres; exclusive of setbacks see p. 2) | | Application Time |
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| being appl will incorp (below). Responsi Field Applic | purchase manure n ied with the metho | utrient at a n od and time a in 48 hours o | ate of \$ \(\frac{\partial}{\partial}\) Is specified below If broadcast applied OCK Operato OSpring OSpring OSpring OSpring | will be available for spreading per 1000 gal or 1 to w by the Livestock Operator; ications if agreed to as part of Summer Fall Broadcast and incorporate Irrigation/sprinkler | nne, conditional to the manure applica | |
| Livestock Oper | ator 🖭 | | | | | |
| | | Nama of ann | | | | |
| Custom applica | | value of app | licator: | | | |
| | Manure Applicat | | | | | |

Manure Management and Planning in Manitoba

Manure Spreading Agreement - 1

| | | LTVFSTO(| K MAN | URE SE | READING AGE | daylayn | |
|--|------------------|--|---|--|---|------------------------|------------------|
| 0 | etween: Can | | | 1///- | Hereafter referred to as | "Livestock Oper | rator" |
| 61 | ermeeu: _aw | ala Sherpil | these managed the party of the | 1 Francisco | Hereafter referred to as: | | |
| 4 | and: T | Please print James Lau | 112 | ignature, | a "Landowner" or | | |
| * | ena: | | / | ignature | a "Land Renter" | | |
| - | | Please print | | | AND COMO MONOCO | | |
| | Date: | | | | | | |
| | The duality | of this agreemer | at in of | | years, beginning at the at | ove date. | |
| | Additional | or erns of this contractor | el agreement for ag | ricultural inputs and | Acts and regulations implicit to this ego | eament are presented o | n page 2. |
| | | The state of the s | | A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO | Land Renter | | |
| - Marine | Land Parcels | selected as poi | tential fields | to receive n | anure | | |
| Parente Parent | Field | Legal location | (Check one) | Nominal size | Area available for spreading | Cropping Intentions | |
| - | | 10.115 10.26 | Owned Rented | (acres) | (acres; exclusive of setbacks see p. 2) | | Application Time |
| Section 20 | | NW 17-19-70 | 160 | | 760 | | 079 417 |
| disease. | | | | | | | |
| and a state of | <u> </u> | <u> </u> | | | | | |
| | | ner or Land Res | | | | | |
| | LEF WILL Keep to | his document and | any other retai | tec those fields | is tiles; will be available for spreading | | |
| | D agrees to | ourchase manure r | outrient at a rat | te of \$ | per @ 1000 gal or @ tor | | manure |
| opposite the same | being appl | ied with the meth | od and time as | specified belo | w by the Livestock Operator; | | |
| | | orate manure with | nin 48 hours of | broadcast appl | ications if agreed to as part of | the manure applica | ation method |
| - | (below). | | | 5.0 | | | |
| | Responsi | bilities of t | ne Livesto | ck uperato | | | |
| and the same | Field Applic | cation Details | n | Spring | Summer S Fall | | |
| 1 | | Application | | | Broadcast and incorporate | within 48 hours | |
| - | Applica | tion method | | Injection | | | |
| | Applicator | | | | | | |
| 1 | Livestock Ope | erator 🖫 | | | | | |
| 1 | Custom appli | cator 🛛 | | icator: | | | |
| 1 | Anticipated | Manure Applica | cation Starting | Date: | | | |
| | | ck Operator: (0 | herir where a | mitcable/nm | nosed) | | |
| | | week of those rect | ands but will no | t disclose then | without the consent of the La | indowner and the t | and Renter; |
| - | 770 - m m | Il carte for coil te | sons and these | ractific will he | made available to both the lat | loominer and the re | min venter? |
| - | De all more | · manuro analysis | test and the re- | sults will be m | ade available to both the Land | owner and the rest | d Kenter; |
| | Will calcul | ate the manure as soft test recomme | ppecations for his | or each netd o | n the basis of (check only one) | | |
| | 130 tha | coil tost recomme | endations for pla | nt nhosphorus | requirements | | |
| - Street - | O gene | eral soil fertility r | ecommendations | as per the So | il Fertility Guide (Manitoba Agr | iculture and Food) | or the Farm |
| Continue | Prac | tices Guidelines Jo | or seet/Dairy/Hou | a/Poultry Produ | icers in Manitoba series | | |
| - Contractor | I will provid | le a proof of calib | and the land o- | anure spreadir | g equipment; in anticipated dates and rate | s of application in | volume and |
| 1 | cron putd | ent (N, P,K); | are contracted | her or changes | in anticipated dates and fate | a or abbacteriou n | |
| Applement of the Party of the P | Carwill have | a manure manage | ment plan prepa | red by a profe | sional agrologist, along with | field map(s) high | lighting |
| - | CONTRACTO I | O OUSPINE | | | | | |
| 1 | will provid | se a copy everen | manage: | ment plan to ti | se Landowner and the Land Re | enter, if applicable | |

| LIVESTOCK MA | NURE SPI | READING A | GREEMENT |
|--|---|--|--|
| Jane Fohrson | n My | | to as "Livestock Operator" o as: |
| ter: se duration of this agreement is of Additional thouse from contracted gramment for | S VI | ars, beginning at the | he above date. |
| ende service en | da tar rucelyn war | | |
| 5w 30-20 - 5w 160 NW 30 20 5W 160 SE 25-20 6w 160 NW 15-20 5w 160 | 160 160 160 | 160 160 160 | Grand Alexander Committee |
| The Lavelourner or Land Remiers (Check Carwill heap this document and my other or Carwill netlify the Livestock Operator of the Chagrens to purchase manual outsignt at a | dates those Rolds wil | he available for sum | |
| Self incorporate season whom as hours | | Pia Likas III in 1997 one if agree in 1990 | eri of the harme application that |
| Responsibilities of the Livesi | ork Obermi | | |
| Freid Application Details | C) Spring C) | Summer @ | Fail |
| Time of Application Application method | | Broadcact and incom Imigation/sprinkler | porate within 48 hours |
| Applicator Livestock Operator Custom applicator Anticipated Manure Application Star | pplicator: | | |
| and a second some second some | e apelicable/aropa | sad) | |
| TO COME STORY STOCK OF CHESS TECHNIS, 449, 779 | | | the Languages and the Land ha |
| The carry a natural state of the state of | to reside the back | andreas of control of | and the last factor |
| The will be accommendations to | te repulse the district of the court of the | amaliada de Codo do Na facile en Caldeda est Nobelha es | e Lectures and the Land Rotte of the |
| The country are mount 1, 100 and to the second and the commence of the commenc | ta repues viru de parece ta fre soci diami en e plant plossitiones de tions as own des 2011 pulling Reporty Paperso | and leave to the to the to the to the total and the total | and the last section with the last section w |
| The sale of the mount of the sale of the s | a repues villa pale to fir soch dan t plank phosphorus tea thors as one dis 2011 o ling/ Redby Prounce to essence speeding dientes of charges in | MATERIAL CONTROL OF THE STATE O | and the last the last to the l |

| LIVESTOCK MA | ANURE S | PREADING | AGREEME | NT |
|--|--|---|--|----------------------------|
| Between: Canada Shier Di Lamb | | | | |
| And: Same Tehrkon | 1 | Hereafter refen | red to as "Livestock" red to as: | uperator |
| Please print | for ffy | Landowner | | |
| Date: | / | Land Renta | | |
| The duration of this arranged is as | | | | |
| to the second se | AND ADDRESS OF THE PARTY OF THE | years, beginning Aux and regulations implies | at the above date. | forger 2 |
| Responsibilities of the Lando Land Parcels selected as potential fie | SECRETARISM NO AND AND ADDRESS. | | | |
| Field Legal location (Check one | me to receive u | Aten available for spri | | |
| Corn NW18-20-5W - | ted (actes) | (acres; exclusive of satharts | (See (s. 2)) | Preferred Application Time |
| Corn 5526-20-64 - | 160 | 160 | Coin | THE OF |
| Corn 51/32-20-5W / | 160 | 160 | 7 | iles Iles |
| The Landowner or Land Renters (Checi las will keep this document and any other re | dampel nonnerie in lei | r Gines | | |
| I will notify the Livestock Operator of the | dates those Reids | will be susilable for a | preading; | |
| Dagrees to purchase manure nutrient at a being applied with the method and time | COLOR DE MEDIT OF STREET | | | |
| a will incorporate manure within 48 hours (below). | of broadcast applic | nations if agreed to an | s part of the manure app | lication method |
| Responsibilities of the Livesto | ock Operator | | | |
| Field Application Details | | | | |
| | | | Fall | |
| | | Irrigation/sprink | corporate within 48 hot ler | 115 |
| Applicator | | | | |
| Livestock Operator | liantar. | | | |
| Anticipated Manure Application Startin | | | | |
| | | - Int | | |
| The Livestock Operator: (Check where it will keep track of these records, but will n | | | of the Landowner and | The Land Renter |
| D will nav all costs for soil testing and these | e results will be n | rade available to bor | th the Landowner and | the Land Renter: |
| I will carry a manure analysis test and the r I will calculate the manure application rate | results will be made for each field on | de available to both | the Landowner and the | e Land Renter: |
| the soil test recommendations for pl | lant nitrogen requ | irements or | T. 1.5 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | |
| The soil test recommendations for pl | ant phosphorus n | equirements | Shaha Bartardinan 4 | |
| general soil fertility recommendation Proctices Guidelines for Beef/Dairy/Hi | is as per use soit og/Paultry Produc | remmy value (man ers in Memitobo seri | ez Irona väitrarrate alm i | rood) of the raim |
| If will provide a proof of calibration for the o | manure spreading | equipment | | |
| To will notify the Landowner and the Land Re crop nutrient (N, P, K); | inter or changes i | n autripaced oates | and rates or appacabl | on in volume and |
| Will have a manure management plan prepared | ared by a profess | ional agro <mark>logist, al</mark> c | ong with field map(s) | highlighting |
| setbacks to observe; I will provide a copy overall manage manage | ment plan to the | Landowner and the | Land Rapto 37 and | irable |
| | | | | |

| LIVESTULK | MANUMENT | <u>KEALUING A</u> | | |
|--|--|---|--------------------------------|---------------------------|
| Between: Coxala Shespilan | L MASS | Hereafter referred i | to as "Livestock Opel | ator |
| Sony, Fohrson | 1/1/1/ | Hereafter referred I | | |
| And: | I'm ffan | "Landowner" or | | |
| Please print | Si Grature | Land Renter* | | |
| Date: | | | | |
| The duration of this agreement is | To the second | years, beginning at t | the above date. | |
| Additional turns of this contraction of | | els and regulations implicit to | this agreement are presented a | n pago Z. |
| Responsibilities of the I | | | | |
| Land Parcels selected as poten | and the second s | | | Preferred |
| | Check one) Nominal size med Rented (acres) | Area evallable for spreadi acres; entireive of setbacks se | e 6. 20 | Asplication Time |
| SW \$10 18-20-5V | | 160 | Corn, | Fall |
| SW 33-20 5W | 1 COR 160 | 160 | Alfacl | 11 |
| 5 SENE 37-20- | .6W 160 | 160 | Alfactor | |
| The Landowner or Land Renter | | | | |
| Will keep this document and any Carwill notify the Livestock Operato | | | ariine. | |
| agrees to purchase manure nutri | | | | to manure |
| being applied with the method : | and time as specified below | by the Livestock Operat | IOT) | |
| El will incorporate manure within | 18 hours of broadcast applica | itions if agreed to as p | art of the manure appli | ication method |
| (below). | | | | 10.2012.00 E-06.212.E-0.3 |
| Responsibilities of the | Livestock Operator | | | |
| Field Application Details Time of Application | m como c | · - ~ . | | |
| Application method | 수 없는 이 아니는 그는 나는 사람들이 없는 것이 없는 것이 없는 것이 없는데 없는데 없는데 없다면 | Summer Q | | |
| | Q injection 5 | a eroaucast and incor l Irrigation/sprinkler | porate within 48 hours | |
| Applicator | | | | |
| Livestock Operator (2) | | | | |
| | me of applicator: | | | |
| Anticipated Manure Applicatio | n Starting Date: | | | |
| The Livestock Operator: (Checi | t where applicable/propo | cod's | | |
| | | | | |
| will pay all costs for soil testing will carry a manufe analysis test will calculate the manufe analysis | and these results will be mi | ide available to both ti | the Landowner and the | Land Renter; |
| · · · · · · · · · · · · · · · · · · · | (1) 10 · 10 · 10 · 10 · 10 · 10 · 10 · 10 | | Landowner and the 1- | Land Renter; |
| The state of the s | | | one): | an weatter: |
| The soil test recommendati | ons for plant phosphorus rea | unrements | | |
| general soil fertility recommendation Practices Guidelines for Beej will provide a proof of calibration | nendations as per the Soil F | ertility Guide (Manitoba | Agriculture | |
| will provide a proof of calibration | for the manus, consider | s in Manitaba series | Artement & 910 LOOG |) or the Form |
| Will notify the Landowner and the | E Land Renter of changes in | antining a s | | |
| G will provide a proof of calibration G will notify the Landowner and the clop nutrient (N, P,K); G will have a manure management postbacks to observe; Setbacks to observe; Will provide a copy overall manual | | an burses nates god | rates of application is | Volume and |
| setbacks to observe; | man prepared by a professio | nal agrologist, along v | with Sald marks | |
| a will bearige a cobh oneight mauntu | e management plan to the (| andovener and it. | ample 1 might | ighting |
| | | was the Lan | d Renter, if applicable | |

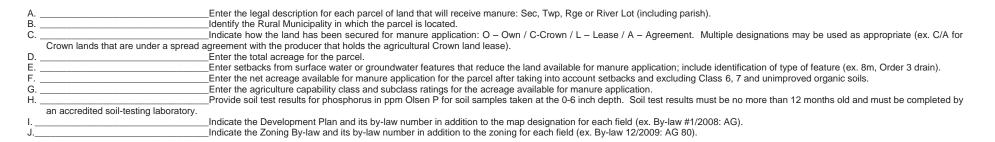


MANURE APPLICATION FIELD CHARACTERISTICS TABLE

| | A | В | С | D | Е | F | G | Н | 1 | J |
|-------|-------------------|-----------------------|-------------|------------------|-----------------------------------|--|--|---|---------------------------------|---------------------|
| Field | Legal Description | Rural Municipality | O/C/L/ A | Total Acreage | Setbacks, including features | Net Acreage for Manure Application | Agriculture Capability Class and Subclass | Soil Phosphorus (ppm Olsen P) 0-6 inches | Development Plan Designation | Zoning |
| 1 | SE 11-19-5W | Coldwell | А | 89 | 3m; Roadside ditch, property line | 87 | 4DP-5W-7W | 3 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 2 | SW 11-19-5W | Coldwell | А | 74 | 3m; Roadside ditch, property line | 72 | 4DP-5W-7W; 5W-7W | 7 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 3 | NE 11-19-5W | Coldwell | А | 28 | 8m; Watercourse, Roadside ditch | 23 | 4DP-5W-7W | 2 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 4 | NW 11-19-5W | Coldwell | А | 73 | 8m; Watercourse, Roadside ditch | 68 | 4DP-5W-7W; 5W-7W | 4 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 5 | NW 23-19-5W | Coldwell | А | 89 | 3m; Property line | 87 | 4DP-5W-7W | 4 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 6 | NW 12-19-5W | Coldwell | А | 78 | 3m; Roadside ditch | 76 | 4DP-5W-7W; 5W; 4DP-5W | 4 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 7 | SE 24-19-5W | Coldwell | А | 67 | 3m; Roadside ditch | 65 | 4DP-4DP-5W; 7W; 4DP-5W-7W; 5W-7W | 21 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 8 | NE 25-19-5W | Coldwell | А | 101 | 3m; Roadside ditch | 100 | 4DP-5W-7W; 5W-7W; 7W | 6 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 9 | NW 25-19-5W | Coldwell | А | 112 | 8m; Watercourse, Roadside ditch | 107 | 3D-3D-5W; 5W-7W | 8 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 10 | SE 25-19-5W | Coldwell | А | 114 | 3m; Roadside ditch | 113 | 5W-7W; 4DP-5W-7W; 7W | 12 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 11 | SW 25-19-5W | Coldwell | А | 90 | 3m; Roadside ditch | 89 | 3D-3D-5W; 5W-7W; 4DP-5W-7W | 5 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 12 | NE 36-19-5W | Coldwell | А | 125 | 3m; Roadside ditch | 123 | 5W; 3W | 17 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 13 | SE 36-19-5W | Coldwell | А | 115 | 8m; Watercourse, Roadside ditch | 112 | 5W;3D-5W; 5W-7W; 4D-5W-7W | 24 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 14 | NE 14-19-5W | Coldwell | А | 106 | No feature | 106 | 4DP-4DP-5W | 34 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 15 | NE 22-19-5W | Coldwell | А | 95 | 3m; Roadside ditch | 94 | 5W-7W; 4DP-4DP-5W; 4DP-5W-7W | 6 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 16 | SE 22-19-5W | Coldwell | А | 121 | 3m; Roadside ditch | 120 | 4DP-4DP-5W; 4DP-5W-7W | 10 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 17 | SW 22-19-5W | Coldwell | А | 98 | 3m; Roadside ditch | 97 | 7W; 5W-7W; 4DP-4DP-5W | 5 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 18 | NW 15-19-5W | Coldwell | А | 86 | 3m; Roadside ditch | 85 | 5W-7W; 4DP-4DP-5W; 7W | 5 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 19 | SW 15-19-5W | Coldwell | А | 104 | 3m; Roadside ditch | 103 | 7W; 5W-7W | 7 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 20 | SE 16-19-5W | Coldwell | А | 100 | 8m; Watercourse, Roadside ditch | 97 | 7W; 5W-7W; 4DP-4DP-5W | 6 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |

Total Net Acreage for Manure Application: 4

Parcels with agricultural capability class 7W have been deducted while delineating useable areas online



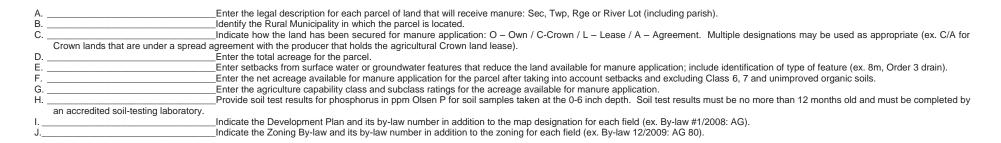


MANURE APPLICATION FIELD CHARACTERISTICS TABLE

| | Α | В | С | D | E | F | G | Н | I | J | |
|-------|-------------------|-----------------------|-------------|------------------|------------------------------|--|--|---|---------------------------------|---------------------|--|
| Field | Legal Description | Rural Municipality | O/C/L/ A | Total Acreage | Setbacks, including features | Net Acreage for Manure Application | Agriculture Capability Class and Subclass | Soil Phosphorus (ppm Olsen P) 0-6 inches | Development Plan Designation | Zoning | |
| 1 | SW 16-19-5W | Coldwell | А | 82 | No feature | 82 | 7W; 5W-7W | 8 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |
| 2 | SW 24-19-5W | Coldwell | Α | 86 | 3m; Roadside ditch | 84 | 7W; 5W-7W; 4DP-5W-7W | 5 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |
| 3 | NW 24-19-5W | Coldwell | А | 86 | 3m; Roadside ditch | 85 | 7W; 4DP-4DP-5W; 4DP-5W-7W | 7 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 4 | SW 16-19-4W | Coldwell | А | 78 | 8m; Watercourse | 76 | 4DP-5W-7W | 11 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |
| 5 | NE 16-19-4W | Coldwell | А | 95 | 8m; Watercourse | 91 | 4DP-5W-7W | 7 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 6 | NW 16-19-4W | Coldwell | А | 101 | 3m; Roadside ditch | 100 | 100 4DP-5W-7W 9 BY-LAW No. 2/04: AG | | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |
| 7 | NW 19-19-4W | Coldwell | А | 77 | 3m; Roadside ditch | 76 | 7W; 5W-7W; 4DP-5W; 4DP-5W-7W | 17 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 8 | NE 19-19-4W | Coldwell | А | 126 | No feature | 126 | 5W; 5W-7W; 4DP-5W | 8 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 9 | SW 19-19-4W | Coldwell | А | 29 | 3m; Roadside ditch | 29 | 7W; 5W-7W; 4DP-5W; 4DP-5W-7W | 6 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 10 | SE 19-19-4W | Coldwell | А | 80 | 3m; Roadside ditch | 79 | 7W; 4DP-5W; 4DP-4DP-5W | 5 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 11 | NW 9-19-4W | Coldwell | А | 58 | No feature | 58 | 4DP-5W; 4DP-5W-7W | 8 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 12 | NW 20-19-4W | Coldwell | А | 84 | No feature | 84 | 5W; 4DP-5W-7W; 4DP-5W | 12 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 13 | SW 20-19-4W | Coldwell | А | 99 | 3m; Roadside ditch | 98 | 5W; 4DP-4DP-5W; 4DP-5W-7W | 7 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 14 | SE 20-19-4W | Coldwell | А | 67 | 3m; Roadside ditch | 67 | 4DP-4DP-5W; 4DP-5W-7W | 12 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 15 | NE 20-19-4W | Coldwell | А | 83 | No feature | 83 | 4DP-5W; 4DP-5W-7W | 20 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 16 | SE 30-19-4W | Coldwell | А | 147 | No feature | 147 | 4DP-5W-7W; 4DP-5W; 5W | 41 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 17 | SW 30-19-4W | Coldwell | А | 105 | 3m; Roadside ditch | 104 | 4DP-5W-7W; 4DP-5W; 5W-7W; 5W | 38 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |
| 18 | SE 27-19-5W | Coldwell | А | 56 | No feature | 56 | 4DP-4DP-5W; 4DP-5W-7W; 5W-7W | 16 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 19 | NE 10-19-5W | Coldwell | А | 75 | No feature | 75 | 4DP-5W-7W; 5W-7W; 7W | 5 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG | |
| 20 | SW 35-19-5W | Coldwell | А | 88 | No feature | 88 | 3D-3D-5W; 5W-7W | 6 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG | |

Total Net Acreage for Manure Application: 1,688

Parcels with agricultural capability class 7W have been deducted while delineating useable areas online





MANURE APPLICATION FIELD CHARACTERISTICS TABLE

| | Α | В | С | D | E | F | G | Н | I | J |
|-------|-------------------|-----------------------|-------------|------------------|------------------------------------|--|--|---|---------------------------------|---------------------|
| Field | Legal Description | Rural Municipality | O/C/L/ A | Total Acreage | Setbacks, including features | Net Acreage for Manure Application | Agriculture Capability Class and Subclass | Soil Phosphorus (ppm Olsen P) 0-6 inches | Development Plan Designation | Zoning |
| 1 | SW 30-20-5W | Coldwell | Α | 128 | 3m; Propery line, bush | 125 | 4DP; 5W | 30 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 2 | NW 30-20-5W | Coldwell | Α | 145 | 3m; Propery line, bush | 143 | 4DP; 4DP-5W; 5W | 5 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 3 | SE 25-20-6W | Coldwell | Α | 160 | 3m; Propery line | 158 | 4DP; 5W | 7 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 4 | NW 15-20-5W | Coldwell | Α | 137 | 3m; Propery line, PTH, watercourse | 88 | 4DP-5W; 5W | 14 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 5 | NW 18-20-5W | Coldwell | Α | 143 | 3m; Propery line, bush | 140 | 4DP-4DP-5W; 5W | 28 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 6 | SE 26-20-6W | Coldwell | Α | 98 | 3m; Propery line, residence | 97 | 4DP-5W; 5W | 20 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 7 | NW 32-20-5W | Coldwell | Α | 133 | 3m; Propery line, field drain | 114 | 4DP-5W; 5W | 12 | BY-LAW N0. 2/04: AG | BY-LAW N0. 5/05: AG |
| 8 | SW 32-20-5W | Coldwell | Α | 157 | 3m; Propery line, bush | 142 | 4DP-5W; 5W | 6 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 9 | SW 18-20-5W | Coldwell | А | 152 | 3m; Propery line, bush | 116 | 4DP-4DP-5W; 5W | 8 | BY-LAW N0. 2/04: AG | BY-LAW No. 5/05: AG |
| 10 | SW 26-20-6W | Coldwell | Α | 141 | 3m; Propery line, bush | 139 | 4DP; 4DP-5W | 18 | BY-LAW N0. 2/04: AG | BY-LAW N0. 5/05: AG |
| 11 | SW 33-20-5W | Coldwell | Α | 141 | 3m; Propery line, bush | 139 | 4DP; 4DP-5W | 13 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 12 | NE 27-20-6W | Coldwell | Α | 143 | 3m; Propery line, residence, bush | 111 | 4DP | 38 | BY-LAW N0. 2/04: AG | BY-LAW N0. 5/05: AG |
| 13 | SW 10-19-5W | Coldwell | Α | 95 | No feature | 95 | 5W | 6 | BY-LAW No. 2/04: AG | BY-LAW No. 5/05: AG |
| 14 | NE 29-19-5W | Coldwell | Α | 77 | No feature | 77 | 4DP-4DP-5W; 5W | 8 | BY-LAW N0. 2/04: AG | BY-LAW N0. 5/05: AG |
| 15 | SW 6-20-5W | Coldwell | Α | 140 | No feature | 140 | 4DP-4DP-5W | 5 | BY-LAW No. 2/04: AG | BY-LAW N0. 5/05: AG |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Total Net Acreage for Manure Application:

| A. | Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish). | |
|----|---|--|
| B. | Identify the Rural Municipality in which the parcel is located. | |
| C. | Indicate how the land has been secured for manure application: O – Own / C-Crown / L – Lease / A – Agreement. Multiple designations may be used as appropriate (ex. C/A for | |
| | crown lands that are under a spread agreement with the producer that holds the agricultural Crown land lease). | |
| D. | Enter the total acreage for the parcel. | |
| E. | Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (ex. 8m, Order 3 drain). | |
| F. | Enter the net acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils. | |
| G. | Enter the agriculture capability class and subclass ratings for the acreage available for manure application. | |
| H. | Provide soil test results for phosphorus in ppm Olsen P for soil samples taken at the 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by | |
| | n accredited soil-testing laboratory. | |
| l | Indicate the Development Plan and its by-law number in addition to the map designation for each field (ex. By-law #1/2008: AG). | |
| J | Indicate the Zoning By-law and its by-law number in addition to the zoning for each field (ex. By-law 12/2009: AG 80). | |

| | | | Daily N | lanure Production | | Production Period | Number of | | Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gal) | |
|--|--|-------------------------------------|--|--|---|---------------------------------------|---|--|---|--|
| Animal Type (A) | Animal Sub-type (B) | References (C) | Manure Type (D) | Default Manure Production (ft ³ /animal/day) (E) | Operation Manure Production ¹ (ft ³ /animal/day) (F) | ² (Days) (G) | Animals ³ (Capacity) (H) | Total Manure Volume (ft³) (FxGxH) | | |
| • | | | Semi-Solid 5 | 3.5 | | | | - | 0.0 | |
| | Free Stall | | Solid | 3.4 | | | | - | | |
| D | | T-bl- 0 50 | Liquid ⁵ | 3.5 | | | | - | 0.0 | |
| Dairy (milking cows ⁴ and associated | | Table 6, pg 59, FPGs for Dairy | Semi-Solid 5 | 3.6 | | | | - | 0.0 | |
| livestock) | Tie Stall | 1995 | Solid | 3.5 | | | | - | | |
| , | | .000 | Liquid ⁵ | 3.6 | | | | - | 0.0 | |
| | Loose Housing | | Solid | 3.0 | | | | - | | |
| | Milking Parlour Manure and Washwater | | Liquid | 0.5 | | | | | | |
| | Beef cows including associated livestock | | Solid | 1.2 | | | | - | | |
| Beef | Backgrounder (200 day) | pg 117, FPGs | Solid | 0.73 | | | | - | | |
| Deel | Summer pasture / replacement heifers | for Hogs 1998 | Solid | 0.85 | | | | - | | |
| | Feeder cattle | | Solid | 1.1 | | | | - | | |
| | Sows - farrow to finish (234 - 254 lbs) | | Liquid | 2.3 | | | | - | 0.0 | |
| | Sows - farrow to wean (up to 11 lbs) | MAFRI website, | Liquid | 0.8 | | | | - | 0.0 | |
| | Sows - farrow to nursery (51 lbs) | FPGs for Pigs | Liquid | 1 | | | | - | 0.0 | |
| | Weanlings, Nursery (11 - 51 lbs) | 2007 | Liquid | 0.1 | | | | - | 0.0 | |
| | Grower / Finisher (51 - 249 lbs) | | Liquid | 0.25 | | | | - | 0.0 | |
| | | | | Yearly Manure Production | | | | Total Manure | Total Manure Volume | |
| Animal Type | Type of Operation | | Default Manure Production (ft ³ /year/bird space) | | Operation Manure Production ¹ (ft ³ /year/bird space) | Production Period ² (Days) | Number of Birds ° (Capacity) | Volume (ft ³) (F/365xGxH) | for Semi-Solid and Liquid Manure (Imp Gal) | |
| | Broilers – floor ⁶ | | | 1.23 | | | | - | | |
| | Broiler breeder hens 7 | | | 2.3 | | | | - | | |
| | Broiler breeder pullets ⁶ | | | 0.99 | | | | - | | |
| | Roasters – floor ⁶ | | | 1.16 | | | | - | | |
| Chickens | Layers – cage ⁸ | Table 3, pg 85, FPGs for Poultry | | 2.33 | | | | - | 0.0 | |
| Cilicketts | Layers – floor ⁷ | 2000 | | 1.68 | | | | - | | |
| | Layers – solid pack ⁹ | 2000 | | | | | | - | | |
| | Pullets – cage ⁸ |] | | 0.71 | | | | - | 0.0 | |
| | Pullets – floor ⁶ |] | | 0.75 | | | | - | | |
| | Pullets – solid pack 9 | <u> </u> | | | | | | - | | |
| | Broilers ⁶ | Table 3, pg 85, | | 2.83 | | | | - | | |
| Turkeys | Heavy toms ⁶ | FPGs for Poultry | | 5.58 | | | | - | | |
| | Heavy hens ⁶ | 2000 | | 3.32 | | | | - | | |

Sizing 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:

This spread sheet does not account for sheep. Based on historical manure handlings, the annual manure production (feces and straw) is estimated to be 0.95 tons/ewe.

¹ ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in colum E. References for default daily and yearly manure production are provided in column C.

² ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is

³ ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).

⁴ Milking cows includes all lactating and dry cows.

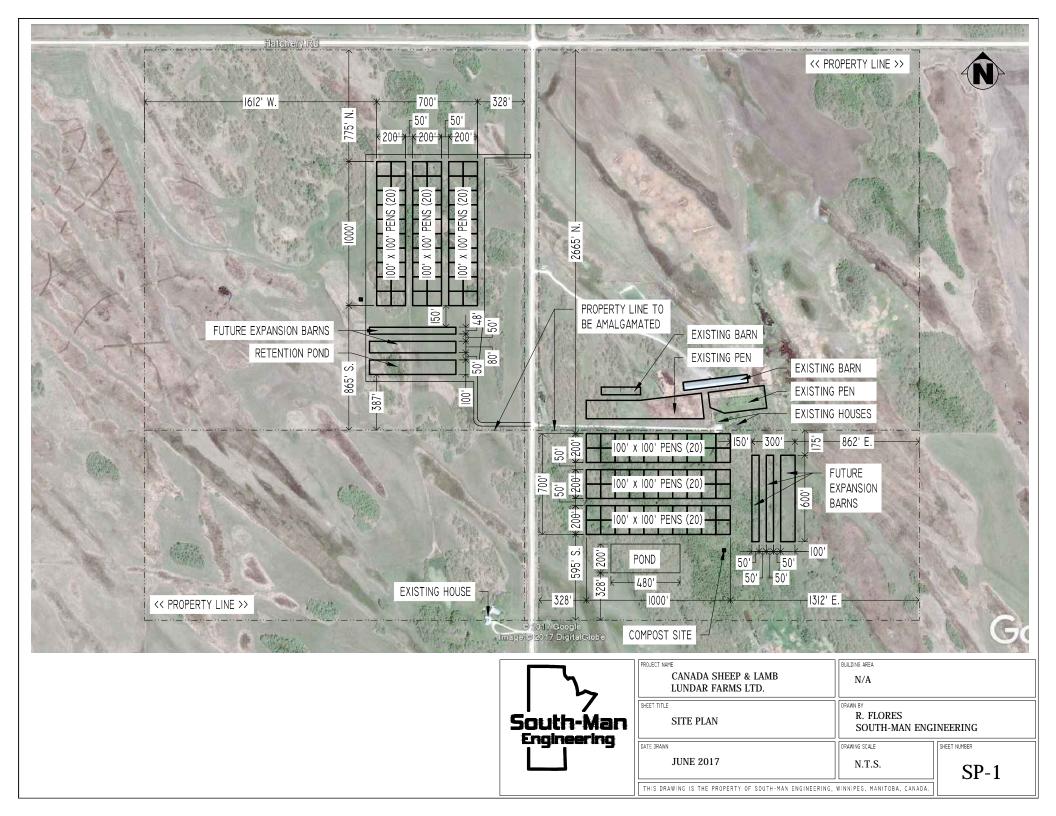
⁵ Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.

^{6 2} inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft

One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/fd

⁸ Manure removed from barn at 90% moisture content with a density of 59 lb/ft³

⁹ Poultry operations using litter (solid pack) must provide an estimate of yearly manure production





- LIVESTOCK OPERATIONS L0

- SPREAD FIELDS (AGREEMENT)

- RESIDENCE

- NEAREST NEIGHBOR (APPROX 945')

- 3km NOTIFICATION AREA FOR THE PUBLIC CONDITIONAL USE HEARING



| ROJECT | NAME | | |
|--------|--------|-------|--------|
| | CANADA | SHEEP | & LAMI |
| | LUNDAR | FARMS | LTD. |

LAND USE & SPREAD FIELD MAP

R. FLORES

SOUTH-MAN ENGINEERING

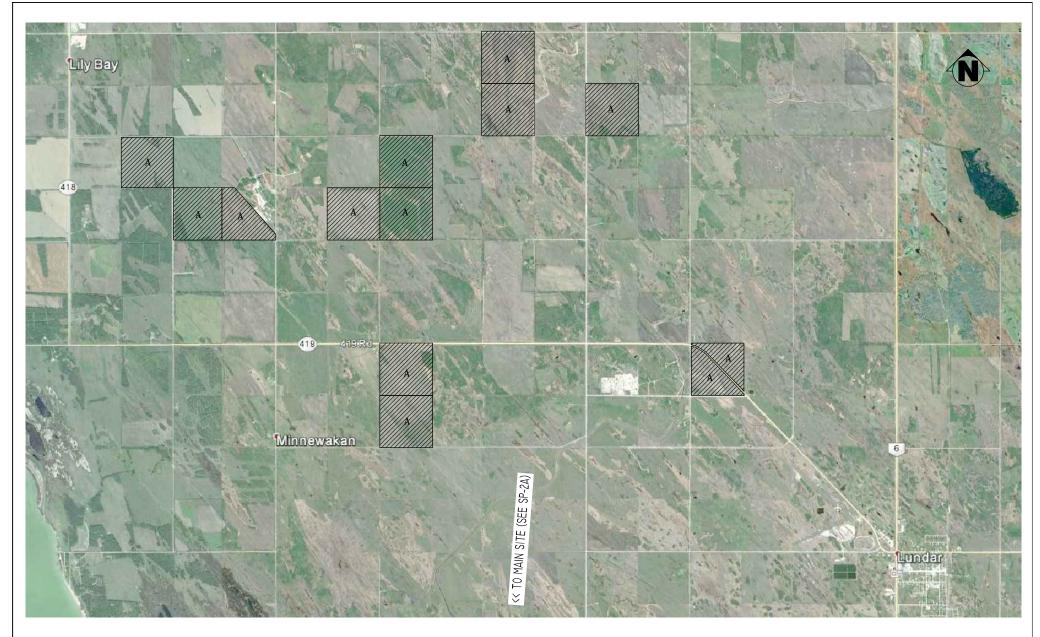
DATE DRAWN

JUNE 2017

DRAWING SCALE N.T.S. SHEET NUMBER

THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.

SP-2A



LEGEND:

- LIVESTOCK OPERATIONS

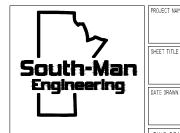
- SPREAD FIELDS (AGREEMENT)

- RESIDENCE

- NEAREST NEIGHBOR (APPROX 945')

- 3km NOTIFICATION AREA

FOR THE PUBLIC CONDITIONAL USE HEARING



| PROJECT NAME | BUILDING AREA |
|--|---------------|
| CANADA SHEEP & LAMB LUNDAR FARMS LTD. | N/A |
| OUEST TITLE | DO ANNA DV |

LAND USE & SPREAD FIELD MAP

R. FLORES SOUTH-MAN ENGINEERING SHEET NUMBER

DRAWING SCALE JUNE 2017 N.T.S.

SP-2B THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.





| PROJECT NAME CANADA SHEEP & LAMB LUNDAR FARMS LTD. | BUILDING AREA N/A | |
|--|------------------------|--------------------|
| TRUCK HAUL ROUTE | R. FLORES SOUTH-MAN | I ENGINEERING |
| JUNE 2017 | DRAWING SCALE N.T.S. | SHEET NUMBER SP-3 |

THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, WINNIPEG, MANITOBA, CANADA.



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

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID NW 09-19-04W1

SAMPLE ID

FIELD NAME **NW 09-19-04W1**

COUNTY

TWP

SECTION QTR ACRES 58

PREV. CROP **Grass/Pasture**

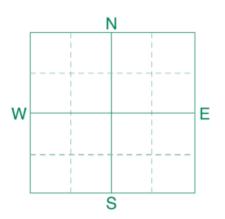
SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # **1889406** BOX # **0**

LAB # **NW24524**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

Date Reported 5/2/2017

| Nutrient In | Interpretation | | | | 1st Crop Choice | | 2nd Crop Choice | | | е | 3rd Crop Choice | | | | | | | |
|---|-----------------------------|-------|-------|--------|-----------------|-------------------------------|-----------------|---------|----------------------|-------------------------------|-----------------|---------|----------------------|-------------------------------|---------------------------|-------------|-----|--|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | | |
| 0-6" 6-24" | 18 lb/ac 33 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | | |
| 6-24 | 33 lb/ac | ***** | **** | | | 5 Tons SUGGESTED GUIDELINES | | | | | | | | | | | | |
| 0-24'' | 51 lb/ac | | | | | | | | SUGGESTED GUIDELINES | | | | SUGGESTED GUIDELINES | | | | | |
| Nitrate | | | | | | Broadcast | | | | | | | | | | | | |
| | | | | | | LB/ACRE APPLIC | | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | RE APPLICAT | | |
| Olsen Phosphorus | 8 ppm | ***** | ***** | k | | N | 99 | | | N | | | | N | | | | |
| Potassium | 272 ppm | **** | ***** | ***** | * ***** | P ₂ O ₅ | 46 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | | |
| 0-6" 6-24" | 20 lb/ac 360 +lb/ac | | | | * ***** | S | 0 | | | S | | | | S | | | | |
| Sulfur | - | | | | | В | | | | В | | | | В | | | | |
| Boron | | | | | | | | Broado | ast | | | | | | | | | |
| Iron | 0.69 ppm | ***** | ***** | ** | | Zn | 2 | (Trial | | Zn | | | | Zn | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | | |
| Copper | 1.36 ppm | | ***** | | | Mn | | | | Mn | | | | Mn | | | | |
| Magnesium | 1.50 pp | ***** | ***** | ****** | * * | Cu | 0 | | | Cu | | | | Cu | | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | | |
| Org.Matter | 6.1 % | **** | **** | **** | ***** | | | | 0-1 | | | 0/a Ba | 0/- Br C- | | ituration (Typical Range) | | | |
| Carbonate(CCE) | | | | | | Soil p | Soil pH Buffer | | Suffer pH | | nange ty | % Ca | % N | | 6 K | % Na | % H | |
| 0-6" 6-24" Sol. Salts | 0.8 mmho/cm 2.35 mmho/cm | | ***** | | * * * * * * * | 0-6" 8 | | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 16-19-04W1**

SAMPLE ID

FIELD NAME **SW 16-19-04W1**

COUNTY

TWP RANGE

SECTION QTR ACRES **78**

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889407** BOX # **0**

LAB # **NW24522**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|--------|--------|--------|-------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 14 lb/ac 21 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 21 15/40 | ***** | ** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 35 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 11 ppm | **** | ***** | ***** | ĸ | N | 115 | | | N | | | | N | | | |
| Potassium | 302 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 34 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 400 . 11 4 | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.01 ppm | **** | ***** | * **** | k | | | | | | | | | | | | |
| Iron | 2102 pp | | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.54 ppm | **** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.8 % | **** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | Capacit | _ | % Ca | % N | 4g % | 6 K | % Na | % Н |
| 0-6" 6-24" Sol. Salts | 0.81 mmho/cm 0.78 mmho/cm | | | ***** | | 0-6" 8 | | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID NE 16-19-04W1

SAMPLE ID

FIELD NAME **NE 16-19-04W1**

COUNTY

TWP

RANGE

SUBMITTED BY: DU4426

SECTION ACRES 95 QTR

PREV. CROP Grass/Pasture

Ε W

S

REF # **1889408** BOX # 0

LAB# NW24526

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017 Date Received **04/28/2017** Date Reported 5/2/2017

| Nutrient I | n The Soil | In | terp | retati | on | 1s | t Cro | p Choic | е | 2n | d Cro | p Choice | е | 3 | rd C | rop Cho | ice |
|-------------------------|--------------------------|-------|-------|--------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|-----------|--------|
| | | VLow | Low | | High | | | Pasture | | | | | | | | | |
| 0-6" | 20 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | ELD GOAL | |
| 6-24" | 15 lb/ac | ***** | * | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 35 lb/ac | | | | | SUG | GESTED | GUIDELI | NES | SUGO | GESTED | GUIDELIN | ES | SUC | GEST | ED GUIDE | LINES |
| Nitrate | | | | | | | Broa | ndcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICAT | ΓΙΟΝ | LB/ | 'ACRE | APPLI | CATION |
| Olsen Phosphorus | 7 ppm | ***** | ***** | k | | N | 115 | | | N | | | | N | | | |
| Potassium | 281 ppm | ***** | **** | ***** | ***** | P ₂ O ₅ | 51 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 420 . 11. / | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | | S | 0 | | | S | | | | S | | | |
| Sulfur Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.77 ppm | ***** | **** | * ** | | Zn | 2 | Broado | | Zn | | | | Zn | | | |
| Iron | | | | | | | | (Trial |) | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.4 ppm | ***** | **** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.2 % | ***** | **** | ***** | ***** | Soil p | H B | uffer pH | | ion Excl | _ | % Ba | se Sa | turatio | on (T | ypical Ra | nge) |
| Carbonate(CCE) | 0.99 mmho/cm | **** | *** | ***** | * | | | and pil | | Capacit | ty | % Ca | % I | Mg | % K | % Na | % H |
| 6-24" Sol. Salts | 2.57 mmho/cm | | | ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 16-19-04W1**

SAMPLE ID

FIELD NAME **NW 16-19-04W1**

COUNTY

TWP

SECTION QTR ACRES 101

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

N W _____E

REF # **1889409** BOX # **0**

LAB # **NW24527**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | n The Soil | In | iterpi | retati | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|--------|-----------|------------|-------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 12 lb/ac 9 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEl | D GOAL | |
| 0-24 | 9 lb/ ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 21 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGG | SESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 9 ppm | ***** | ***** | *** | | N | 129 | | | N | | | | N | | | |
| Potassium | 347 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 42 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.89 ppm | **** | ***** | L + + + + | | Zn | 2 | Broado | ast | Zn | | | | Zn | | | |
| Iron | 0.05 ррш | **** | ***** | **** | | 211 | | (Trial |) | 211 | | | | 211 | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.6 ppm | ***** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.9 % | ***** | ***** | ***** | ***** | | | - | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | Capacit | _ | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.19 mmho/cm 1.45 mmho/cm | | ***** | | | 0-6" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 19-19-04W1**

SAMPLE ID

FIELD NAME **NW 19-19-04W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 77

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889410** BOX # **0**

LAB # **NW24544**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choice | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|-------|--------|-----------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 27 lb/ac 39 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 5 24 | 33 15/40 | ***** | ***** | * * | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 66 lb/ac | | | | | SUGO | GESTED | GUIDELII | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICAT | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 17 ppm | **** | **** | ***** | ***** | N | 84 | | | N | | | | N | | | |
| Potassium | 217 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 46 lb/o.c | | | | | CI | | | | CI | | | | CI | | | |
| 6-24" | 46 lb/ac 72 lb/ac | | | | ****** ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.14 ppm | ***** | ***** | * **** | * * | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | 2.2.7 FF | | | | | | U | | | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 0.98 ppm | **** | ***** | * **** | k | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.8 % | **** | ***** | ***** | ***** | C-'' | 5 | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | ĸ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.44 mmho/cm 0.29 mmho/cm | ***** | | | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 19-19-04W1**

SAMPLE ID

FIELD NAME **NE 19-19-04W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 126

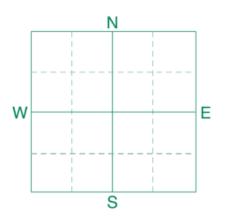
PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # **1889411** BOX # **0**

LAB # **NW24808**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **05/01/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 1 s | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cro | op Cho | ice |
|---|------------------------------|-----------|-------|-------|---------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 24 lb/ac 72 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 72 15/40 | ***** | ***** | ***** | * * | | 5 | Tons | | | | | | | | | |
| 0-24'' | 96 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | SESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 8 ppm | ***** | ***** | * | | N | 54 | | | N | | | | N | | | |
| Potassium | 285 ppm | ***** | ***** | ***** | * ***** | P ₂ O ₅ | 46 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 45 11 4 | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 46 lb/ac 186 lb/ac | | | | * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.02 ppm | ***** | ***** | ***** | * | | _ | | | | | | | | | | |
| Iron | 2102 pp | 4-1-1-1-1 | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.06 ppm | **** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.1 % | ***** | ***** | ***** | ***** | 0-11 | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | oical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | он В | uffer pH | | Capacit | _ | % Ca | % N | 4g % | o K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.61 mmho/cm 0.56 mmho/cm | | ***** | | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 19-19-04W1**

SAMPLE ID

FIELD NAME **SW 19-19-04W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 29

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889412** BOX # **0**

LAB # **NW24530**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terp | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|-----------------------------|-------|-------|--------|-------|-------------------------------|--------|-----------------|------|-------------------------------|--------|----------|--------------|-------------------------------|-------|----------|-------------|
| | | VLow | Low | Med | High | | Grass/ | Pasture Pasture | | | | | | | | | |
| 0-6" 6-24" | 12 lb/ac 18 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 2. | 10 15, 40 | ***** | k | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 30 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 120 | | | N | | | | N | | | |
| Potassium | 266 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 55 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 60 lb/ac | ***** | ***** | ***** | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 360 +lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.10 ppm | ***** | ***** | ***** | ** | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 1.34 ppm | ***** | ***** | ***** | * | Cu | 0 | | | Cu | | | | Cu | | | |
| Magnesium Calcium | | | | | | Mg | - | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.8 % | **** | ***** | k***** | **** | Linie | | | | | | | | | | | |
| Carbonate(CCE) | 2.0 // | | | | | Soil | н в | uffer pH | | ion Excl | | % Ba | se Sa % N | | n (Ty | pical Ra | nge) % H |
| 0-6" 6-24" Sol. Salts | 0.59 mmho/cm 0.9 mmho/cm | | ***** | ****** | ** | 0-6" 8 | | | | | , | 70 Ca | 70 1 | ·9 7 | | 70 140 | 70 11 |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 19-19-04W1**

SAMPLE ID

FIELD NAME**SE 19-19-04W1**

COUNTY

TWP

SECTION QTR ACRES 80

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889413** BOX # **0**

LAB # **NW24541**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retati | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|--------|--------|----------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 7 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24 | 12 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 19 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | **** | ** | | | N | 131 | | | N | | | | N | | | |
| Potassium | 218 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 34 lb/ac 252 lb/ac | | | | * * * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Boron Zinc | | | | | | | | Broado | ast | | | | | | | | |
| Iron | 0.86 ppm | ***** | ***** | **** | | Zn | 2 | (Trial | 1) | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.0 ppm | **** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | FF ··· | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.7 % | **** | ***** | ***** | ***** | | | | Cati | on Excl | anco | % Ba | se Sa | turatio | n (Tv | pical Ra | nae) |
| Carbonate(CCE) | | | | | | Soil | Н В | uffer pH | | Capacit | _ | % Ca | % I | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.45 mmho/cm 0.59 mmho/cm | ***** | ***** | ** | | 0-6" 8 6-24" 9 | | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID NW 20-19-04W1

SAMPLE ID

FIELD NAMENW 20-19-04W1

COUNTY

SECTION

TWP

RANGE QTR

SUBMITTED BY: DU4426

ACRES 84

PREV. CROP Grass/Pasture

REF # **1889414** BOX #

S

LAB# NW24534

W

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017

Date Received **04/28/2017**

Date Reported 5/2/2017

0

Ε

| Nutrient Ir | n The Soil | In | iterp | retat | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | e | 3r | d Cro | op Cho | ice |
|---|------------------------------|-------|-------|---------------------------------------|-----------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 12 lb/ac 15 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24" | 15 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 27 lb/ac | | | | | SUG | GESTED | GUIDELI | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 12 ppm | **** | **** | ***** | * | N | 123 | | | N | | | | N | | | |
| Potassium | 291 ppm | ***** | ***** | ***** | * ***** | P ₂ O ₅ | 30 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.55 ppm | ***** | ***** | | | Zn | 3 | Broado | | Zn | | | | Zn | | | |
| Iron | | | | | | | | (Trial |) | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 2.43 ppm | ***** | ***** | ***** | * ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| O rg.Matter | 5.5 % | ***** | ***** | * **** | * **** | - " | | | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | oical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | в В | uffer pH | | Capacit | _ | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.14 mmho/cm 2.17 mmho/cm | | | * * * * * * * * * * * * * * * * * * * | * ** * ***** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID SW 20-19-04W1

SAMPLE ID

FIELD NAMESW 20-19-04W1

COUNTY

TWP

SECTION ACRES 99 QTR

RANGE

PREV. CROP Grass/Pasture

W

REF # **1889415** BOX # 0

S

LAB# NW24532

SUBMITTED FOR:

Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426 **FOUR OAK AG SOLUTION**

31119 RD 27E

BOX 131

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017

Date Received **04/28/2017**

Date Reported 5/2/2017

Ε

| Nutrient I | n The Soil | In | terp | retati | ion | 1s | t Cro | p Choic | e | 2nd | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|------------------------|------------------------------|-------|-------|---------------|-------|-------------------------------|--------|----------|------|-------------------------------|-------|----------|------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass, | /Pasture | | | | | | | | | |
| 0-6" 6-24" | 8 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 0 2 1 | 12 13, 40 | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 20 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGG | ESTED | GUIDELIN | ES | SUG | GESTI | ED GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | | | | | | | |
| | _ | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 7 ppm | ***** | **** | k | | N | 130 | | | N | | | | N | | | |
| Potassium | 212 ppm | ***** | **** | ***** | ***** | P ₂ O ₅ | 51 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 54 lb/ac | ***** | ***** | * * * * * * * | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 96 lb/ac | | | | ***** | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.92 ppm | ***** | ***** | * **** | | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 0.94 ppm | ***** | **** | ***** | k | Cu | 0 | | | Cu | | | | Cu | | | |
| Magnesium Calcium | | | | | | | | | | | | | | | | | |
| Sodium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Org.Matter | 0.3.0/ | | | | | Lime | | | | Lime | | | | Lime | | | |
| Carbonate(CCE) | 9.3 % | ***** | **** | ***** | ***** | Soil p | н в | uffer pH | | ion Exch | _ | | | | | pical Ra | |
| 0-6" 6-24" | 0.52 mmho/cm 0.35 mmho/cm | | ***** | * | | 0-6" 8 | - 1 | | | Capacit | У | % Ca | % N | 1g % | % K | % Na | % H |



SUBMITTED FOR:

FIELD ID **SE 20-19-04W1**

SAMPLE ID

FIELD NAMESE 20-19-04W1

COUNTY

TWP RANGE

SECTION QTR ACRES 67

SOIL TEST REPORT

PREV. CROP **Grass/Pasture**

DU4426

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W E

REF # **1889416** BOX # **0**

LAB # **NW24525**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terp | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|-------|--------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 16 lb/ac 15 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 13 15/40 | ***** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 31 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 12 ppm | ***** | **** | ***** | k | N | 119 | | | N | | | | N | | | |
| Potassium | 342 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 30 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 420 JH / | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ***** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | • | | | В | | | | В | | | |
| Zinc | 1.23 ppm | ***** | ***** | k***** | k * | | _ | | | | | | | | | | |
| Iron | 1120 pp | | | | ,,, | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.4 ppm | ***** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.6 % | ***** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | 6 K | % Na | % Н |
| 0-6" 6-24" Sol. Salts | 0.83 mmho/cm 1.27 mmho/cm | | | ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID NE 20-19-04W1

SAMPLE ID

FIELD NAME **NE 20-19-04W1**

COUNTY

TWP

SECTION

RANGE ACRES 83 QTR

Date Received **04/28/2017**

PREV. CROP **Grass/Pasture**

W

Ε

REF # **1889417** BOX # 0

S

Date Reported 5/2/2017

LAB# NW24537

SUBMITTED FOR:

Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426 **FOUR OAK AG SOLUTION**

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017

0-6"

6-24"

1.21 mmho/cm

2.44 mmho/cm

Nutrie

Nitrate

Phosphorus Potassium

Chloride

Sulfur Boron Zinc Iron Manganese Copper Magnesium Calcium Sodium Org.Matter Carbonate(CCE)

Sol. Salts

| ent Ir | The Soil | In | iterp | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choice | 2 | 3 | 3rd C | rop Cho | ice |
|--------|------------|-------|-------|--------|-------|-------------------------------|-------|------------|------|-------------------------------|--------|----------|-------|-------------------|--------|-----------|--------|
| | | VLow | Low | Med | High | | Grass | /Pasture | | | | | | | | | |
| 0-6" | 9 lb/ac | | | | | | YIEL | D GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 6-24" | 12 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 21 lb/ac | | | | | SUGO | GESTE | D GUIDELII | NES | SUGO | GESTED | GUIDELIN | ES | SU | JGGEST | ED GUIDE | LINES |
| | | | | | | | | adcast | | | | | | | | | |
| | | | | | | IR/A | CRE | APPLICA | TION | IR/A | CRE | APPLICAT | TON | LE | 3/ACRE | A DDI 1 | CATION |
| Olsen | 20 ppm | **** | ***** | ***** | ***** | N N | 129 | AFFEICA | TION | N N | CKL | AFFEICAT | ION | N | DIACKE | Arre | CATION |
| | | | | | | | | | | | | | | | | | |
| | 219 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O: | 5 | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O |) | | |
| 0-6" | 120 +lb/ac | **** | ***** | ***** | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" | 360 +lb/ac | **** | ***** | ***** | ***** | S | 0 | | | S | | | | S | | | |
| | | | | | | В | | | | В | | | | В | | | |
| | 0.52 ppm | **** | **** | | | Zn | 3 | Broade | | Zn | | | | Zn | | | |
| | | | | | | | | (Tria | 1) | | | | | | | | |
| | | | | | | Fe | | | | Fe | | | | Fe | | | |
| | 1.64 ppm | ***** | ***** | ***** | k * | Mn | | | | Mn | | | | Mn | | | |
| | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| | | | | | | Mg | | | | Mg | | | | Mg | | | |
| | | | | | | Lime | | | | Lime | | | | Lime | е | | |
| | 5.6 % | ***** | ***** | ***** | **** | | | | Cati | on Excl | nange | % Ba | se Sa | turat | ion (T | ypical Ra | nge) |
| | | | | | | Soil p | OH E | Buffer pH | | Capacit | _ | % Ca | % I | | % K | % Na | % H |
| | | | | | | | | | | | | | | | | | |

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

0-6" 8.5

6-24" **8.4**



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 30-19-04W1**

SAMPLE ID

FIELD NAME **SE 30-19-04W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 147

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889418** BOX # **0**

LAB # **NW24538**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|-----------------------------|-------|--------|---------|---------|---------------------------------|--------|----------|-------|-------------------------------|--------|----------------------|--------------|-------------------------------|--------------|----------|-------------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 18 lb/ac 45 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24 | 45 lb/ac | ***** | ***** | * | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 63 lb/ac | | | | | SUGO | GESTED | GUIDELII | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB// | ACRE | APPLI | CATION |
| Olsen Phosphorus | 41 ppm | ***** | ***** | ***** | ***** | N | 87 | | | N | | | | N | | | |
| Potassium | 357 ppm | **** | ***** | * **** | * ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S | | | |
| Sulfur | , | | | | | В | | | | В | | | | В | | | |
| Boron | | | | | | | | Broado | raet. | 5 | | | | | | | |
| Zinc | 0.91 ppm | ***** | ***** | ***** | | Zn | 3 | (Trial | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese Copper | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.41 ppm | ***** | ***** | ***** | * * | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.6 % | **** | ***** | * **** | ***** | Line | | | | | | | | | | | |
| Carbonate(CCE) | 2.0 /0 | | | | | Soil p | он В | uffer pH | | ion Exch | _ | % Ba | se Sa % I | | n (Ty 6 K | pical Ra | nge) % H |
| 0-6" 6-24" Sol. Salts | 0.81 mmho/cm 2.0 mmho/cm | | | * ***** | * ***** | 0-6" 8 6-24" 8 | | | | Сарасп | •• | 70 Ca | -70 I | 1g 9 | UK | 70 Na | 70 FI |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 30-19-04W1**

SAMPLE ID

FIELD NAME **SW 30-19-04W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 105

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

N W _____E

REF # 1889419 BOX # 0

LAB # **NW24539**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choice | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-----------|-------|-----------------|-----------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 16 lb/ac 30 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | D GOAL | |
| 0 24 | 30 15/ 40 | ***** | *** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 46 lb/ac | | | | | SUG | GESTED | GUIDELII | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICAT | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 38 ppm | ***** | ***** | ***** | ***** | N | 104 | | | N | | | | N | | | |
| Potassium | 370 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 422 . 11 4 | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** ***** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.24 ppm | ***** | **** | * **** | ** | | | | | | | | | | | | |
| Iron | 212 1 pp | 4-1-1-1-1 | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.4 ppm | **** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.7 % | ***** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | ьΚ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.86 mmho/cm 1.31 mmho/cm | | | ****** ***** | | 0-6" 8 6-24" 8 | _ | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 11-19-05W1**

SAMPLE ID

FIELD NAME**SE 11-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 89

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # 1889423 BOX # 0

LAB # **NW24521**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terpi | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|--------|-------|---------|-------|-------------------------------|--------|----------|------|-------------------------------|--------|----------|--------------|-------------------------------|-------|----------|-------------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 7 lb/ac 9 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 2. | 3.5,40 | *** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 16 lb/ac | | | | | SUG | GESTED | GUIDELI | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | _ | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 3 ppm | ***** | | | | N | 134 | | | N | | | | N | | | |
| Potassium | 306 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 67 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 120 +lb/ac | ***** | ***** | ***** | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 360 +lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.09 ppm | ***** | ***** | ***** | k | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 1.98 ppm | ***** | ***** | ***** | ** | Cu | 0 | | | Cu | | | | Cu | | | |
| Magnesium Calcium | | | | | | Mg | - | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.9 % | **** | ***** | ***** | ***** | Linie | | | | | | | | | | | |
| Carbonate(CCE) | 2.5 70 | ****** | | ******* | | Soil | н в | uffer pH | | on Excl | | % Ba | se Sa % N | | n (Ty | pical Ra | nge) % H |
| 0-6" 6-24" Sol. Salts | 1.47 mmho/cm 2.24 mmho/cm | | ***** | | | 0-6" 8 | | | | Сирисп | -, | 70 Ca | -70 I | 19 7 | U K | 70 ING | 70 11 |



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

Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SW 11-19-05W1

SAMPLE ID

FIELD NAME **SW 11-19-05W1**

COUNTY

TWP

SECTION ACRES 74 QTR

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Ε W S

REF # **1889424** BOX # 0

LAB# NW24523

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|--------|-------|--------------------|-------------------------------|--------|----------|------|-------------------------------|--------|----------|--------------|-------------------------------|-------|----------|-------------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 10 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0-24 | 12 ID/ aC | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 22 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 7 ppm | ***** | ***** | k | | N | 128 | | | N | | | | N | | | |
| Potassium | 284 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 51 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | * ***** * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | - | | | | | В | | | | В | | | | В | | | |
| Boron | | | | | | | | Broado | ast | | | | | | | | |
| Iron | 0.83 ppm | ***** | ***** | *** | | Zn | 2 | (Trial | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.74 ppm | | ***** | | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.74 pp | **** | ***** | ***** | 1 | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.6 % | ***** | ***** | **** | * ***** | | | | | | | 0/s D= | so 65 | turatia | n /Tu | pical Ra | ngo) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | on Excl | _ | % Ca | se sa % N | | o K | % Na | mge) % H |
| 0-6" 6-24" Sol. Salts | 1.72 mmho/cm 2.33 mmho/cm | | ****** | | ***** | 0-6" 8 | | | | • | | 70 03 | | , | - 12 | | 70 11 |



SUBMITTED FOR:

FIELD NAME **NE 11-19-05W1**

COUNTY

FIELD ID

SAMPLE ID

TWP **RANGE**

SECTION ACRES 28 QTR

SOIL TEST REPORT

NE 11-19-05W1

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Ε W S

REF # **1889425** BOX # 0

LAB# NW24514

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terpi | retati | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|-----------------|--------------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|--------------|-------------------------------|-------|----------|-------------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 8 lb/ac 21 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | D GOAL | |
| 0-24 | 21 ID/ aC | ***** | : | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 29 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 2 ppm | *** | | | | N | 121 | | | N | | | | N | | | |
| Potassium | 298 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 72 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 300 lb/ac | ***** | | | * ***** * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | - | | | | | В | | | | В | | | | В | | | |
| Boron | | | | | | | | Broado | ast | | | | | | | | |
| Zinc | 0.76 ppm | ***** | ***** | ** | | Zn | 2 | (Trial | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.72 ppm | | | k***** | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.72 ppiii | ***** | ***** | ***** | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.1 % | **** | ***** | ***** | * ***** | | | | | | | 0/s D= | 50.50 | turatio | n (Tu | pical Ra | ngo) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | ion Excl | _ | % Ca | se Sa % N | | 6 K | % Na | nge) % H |
| 0-6" 6-24" Sol. Salts | 1.11 mmho/cm 0.82 mmho/cm | | | ****** ***** | | 0-6" 8 6-24" 8 | _ | | | • | | 70 03 | ,,,, | | | | 70.1 |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 11-19-05W1**

SAMPLE ID

FIELD NAME **NW 11-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 73

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889426** BOX # **0**

LAB # **NW24517**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | n The Soil | In | terpi | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|--------|---------|---------------------------------|--------|------------------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture Pasture | | | | | | | | | |
| 0-6" | 8 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | D GOAL | |
| 6-24" | 15 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 23 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 4 ppm | ***** | | | | N | 127 | | | N | | | | N | | | |
| Potassium | 335 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 63 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | | S | 0 | | | S | | | | S | | | |
| Sulfur | 300 +1B/ ac | ***** | ***** | ***** | ****** | | | | | | | | | | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.95 ppm | ***** | ***** | ***** | | Zn | 2 | Broado (Trial | | Zn | | | | Zn | | | |
| Iron | | | | | | F- | | (IIIai | , | F- | | | | F- | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.78 ppm | ***** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.8 % | ***** | ***** | ***** | * ***** | | | | Cati | on Evel | | % Ra | se Sa | turatio | n (Tv | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | Н В | uffer pH | | ion Excl Capacit | _ | % Ca | % I | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.65 mmho/cm 3.02 mmho/cm | | ***** | | ***** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 12-19-05W1**

SAMPLE ID

FIELD NAME **NW 12-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 78

PREV. CROP Grass/Pasture

SUBMITTED BY: **DU4426**

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889427** BOX # **0**

LAB # **NW24518**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------------|---------|-------|--------------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|-----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 6 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24 | 12 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 18 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 4 ppm | ***** | k | | | N | 132 | | | N | | | | N | | | |
| Potassium | 343 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 63 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | ***** | | | * ***** * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | - | | | | | В | | | | В | | | | В | | | |
| Boron | | | | | | | | Broado | ast | | | | | | | | |
| Zinc | 0.95 ppm | ***** | ***** | ***** | | Zn | 2 | (Trial | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 2.6 ppm | *** | ***** | | L + + + | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 2.0 ppiii | ~ ~ ~ ~ * * | ******* | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.8 % | ***** | ***** | ***** | ***** | | | | | | | 0/a P.a | SA SA | turatio | n (Tv | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | on Exch | _ | % Ca | % N | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 3.88 mmho/cm 1.47 mmho/cm | | ***** | | | 0-6" 8 6-24" 8 | | | | • | | | | | | 0 1 1 1 1 | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 14-19-05W1**

SAMPLE ID

FIELD NAME **NW 14-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 78

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889428** BOX # **0**

LAB # **NW24519**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | The Soil | In | iterp | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|-----------------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | /Pasture | | | | | | | | | |
| 0-6" 6-24" | 9 lb/ac 9 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| | | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 18 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | | | | | | | |
| Olana | 46 | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 16 ppm | **** | ***** | ***** | ***** | N | 132 | | | N | | | | N | | | |
| Potassium | 381 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 13 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 120 +lb/ac | **** | | | | CI | | | | CI | | | | CI | | | |
| 6-24" | 360 +lb/ac | | | ****** | | S | 0 | | | S | | | | S | | | |
| Sulfur Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.90 ppm | **** | ***** | k***** | **** | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | 2022 | | | | | | 0 | | | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.7 ppm | **** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 10.3 % | **** | ***** | ***** | ***** | | | ! | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | Capacit | _ | % Ca | % 1 | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.49 mmho/cm 2.53 mmho/cm | | | ****** ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 14-19-05W1**

SAMPLE ID

FIELD NAME **SW 14-19-05W1**

COUNTY

COUNTY

TWP RANGE

SECTION QTR ACRES 23

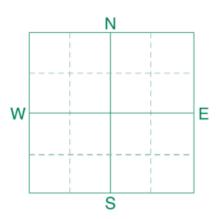
PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # 1889429 BOX # 0

LAB # **NW24511**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received 04/28/2017

| Nutrient In | The Soil | In | terpi | retati | ion | 1 s | t Cro | p Choic | е | 2nc | d Cro | p Choic | e | 3r | d Cr | op Cho | ice |
|-----------------------------|-----------------------------|-------|-------|--------|-------|-------------------------------|--------|----------|------|-------------------------------|-------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass, | /Pasture | | | | | | | | | |
| 0-6" 6-24" | 8 lb/ac 9 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 0 2. | 3.5,40 | *** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 17 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGG | ESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | | | | | | | |
| | _ | | | | | LB/A | CRE | APPLICA | TION | LB/A0 | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 4 ppm | ***** | | | | N | 133 | | | N | | | | N | | | |
| Potassium | 296 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 63 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 120 +lb/ac | ***** | | ***** | ***** | CI | | | | CI | | | | CI | | | |
| 6-24 " | 360 +lb/ac | | | ***** | | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.08 ppm | ***** | ***** | ***** | k | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 1.8 ppm | ***** | ***** | ***** | ** | | | | | | | | | | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium Org.Matter | | | | | | Lime | | | | Lime | | | | Lime | | | |
| | 8.4 % | ***** | ***** | ***** | ***** | Soil p | AH R | uffer pH | Cati | ion Exch | ange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | 3011 | ,,, , | инег рп | | Capacity | У | % Ca | % N | 1g % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 2.8 mmho/cm 2.58 mmho/cm | | | ***** | | 0-6" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 14-19-05W1**

SAMPLE ID

FIELD NAME **NE 14-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 106

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889430** BOX # **0**

LAB # **NW24520**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terp | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cro | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|---------------------------------------|-------|-------------------------------|--------|-----------------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture Pasture | | | | | | | | | |
| 0-6" 6-24" | 20 lb/ac 27 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 27 15/40 | ***** | *** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 47 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 34 ppm | **** | ***** | ***** | ***** | N | 103 | | | N | | | | N | | | |
| Potassium | 775 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 86 lb/ac | **** | ***** | * **** | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 360 +lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.35 ppm | **** | ***** | ***** | ***** | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| C opper Magnesium | 1.8 ppm | **** | **** | ***** | k * | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.3 % | **** | ***** | ***** | ***** | | | | | | | 0/a P.a | 50 S2 | | n (Tv | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | н в | uffer pH | | on Excl Capacit | | % Ca | % N | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.88 mmho/cm 1.77 mmho/cm | | | * * * * * * * * * * * * * * * * * * * | | 0-6" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 15-19-05W1**

SAMPLE ID

FIELD NAME **NE 15-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 78

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

N W _____E

REF # 1889431 BOX # 0

LAB # **NW24546**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | The Soil | In | iterpi | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|--------|--------|------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 26 lb/ac 33 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | LD GOAL | |
| 0 24 | 33 15/40 | ***** | ***** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 59 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 91 | | | N | | | | N | | | |
| Potassium | 259 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 44 lb/ac 132 lb/ac | | | | ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.83 ppm | ***** | ***** | *** | | Zn | 2 | Broado | | Zn | | | | Zn | | | |
| Iron | | | | | | | | (Trial |) | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.21 ppm | ***** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.8 % | ***** | ***** | ***** | ***** | Sail - | ш | 660 | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | _ | | | | | Soil p | оп В | uffer pH | | Capacit | ty | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.56 mmho/cm 0.58 mmho/cm | | ***** | | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



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

Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID NW 15-19-05W1

SAMPLE ID

FIELD NAME **NW 15-19-05W1**

COUNTY

TWP

RANGE

SECTION ACRES 86 QTR

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Ε W S

REF # **1889432** BOX # 0

LAB# NW24528

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-----------|--------|-------|-----------------|-------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 15 lb/ac 15 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 13 15/40 | ***** | k | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 30 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 120 | | | N | | | | N | | | |
| Potassium | 294 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 74 lb/ac 360 +lb/ac | | | | ****** ***** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.17 ppm | ***** | ***** | ***** | ** | | | | | | | | | | | | |
| Iron | 2127 pp | 4-1-1-1-1 | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.64 ppm | **** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.0 % | ***** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.79 mmho/cm 1.63 mmho/cm | | ***** | | | 0-6" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 15-19-05W1**

SAMPLE ID

FIELD NAME **SW 15-19-05W1**

COUNTY

LOUNTY

TWP RANGE

SECTION QTR ACRES 104

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

N W _____E

REF # **1889433** BOX # **0**

LAB # **NW24516**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terp | retati | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|-----------------------------|-------|-------|--------|--------|-------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 11 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 5 24 | 12 15/40 | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 23 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 7 ppm | ***** | ***** | k | | N | 127 | | | N | | | | N | | | |
| Potassium | 274 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 51 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 400 !! (| | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 100 lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.21 ppm | ***** | ***** | k***** | k * | | | | | | | | | | | | |
| Iron | IIII ppiii | | | | 1 | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 2.0 ppm | ***** | ***** | ***** | k** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 10.2 % | ***** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.9 mmho/cm 1.29 mmho/cm | | | ***** | | 0-6" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 16-19-05W1**

SAMPLE ID

FIELD NAME **SE 16-19-05W1**

COUNTY

TWP RANGE

SECTION QTR ACRES 100

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889434** BOX # **0**

LAB # **NW24515**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|--------|--------|---------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 10 lb/ac 15 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 13 15/40 | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 25 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 125 | | | N | | | | N | | | |
| Potassium | 263 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 55 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 422 . !! (| | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.15 ppm | ***** | ***** | k **** | k * | | _ | | | | | | | | | | |
| Iron | 1110 pp | | | | 1 | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 2.06 ppm | ***** | ***** | ***** | k** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.0 % | ***** | ***** | ***** | ***** | | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | bΚ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.35 mmho/cm 2.31 mmho/cm | | ****** | | **** ***** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 16-19-05W1**

SAMPLE ID

FIELD NAME **SW 16-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 82

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889435** BOX # **0**

LAB # **NW24508**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received 04/28/2017

| Nutrient Ir | The Soil | In | terpi | retati | on | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|--|--------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | /Pasture | | | | | | | | | |
| 0-6" 6-24" | 9 lb/ac 12 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| | | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 21 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 8 ppm | ***** | ***** | k | | N | 129 | | | N | | | | N | | | |
| Potassium | 194 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 46 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 120 115/ | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | ***** | | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.51 ppm | **** | ***** | ****** | ***** | | | | | | | | | | | | |
| Iron | 2.02 pp | | 1, | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.73 ppm | **** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | _ |
| Org.Matter | 12.3 % | ***** | ***** | ***** | ***** | | | - | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | НВ | uffer pH | | Capacit | _ | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 2.94 mmho/cm 3.82 mmho/cm | | | ***** | | 0-6" 8 6-24" 8 | - | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 22-19-05W1**

SAMPLE ID

FIELD NAME **NE 22-19-05W1**

COUNTY

TWP

WP RANGE

SECTION QTR ACRES **95**

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

N W _____E

REF # **1889436** BOX # **0**

LAB # **NW24545**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|---|------------------------------|-------|-------|-----------------|-------------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 10 lb/ac 21 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0-24 | 21 ID/ aC | ***** | k | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 31 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 119 | | | N | | | | N | | | |
| Potassium | 283 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 55 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | ***** | | | * ***** * **** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | | | | | | | | Broado | ast | | | | | | | | |
| Iron | 0.82 ppm | ***** | ***** | *** | | Zn | 2 | (Trial | 1) | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.52 ppm | ***** | ***** | * **** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 2.02 | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.1 % | **** | ***** | ***** | ***** | | | | Cati | on Excl | anco | % Ba | se Sa | turatio | n (Tv | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | Н В | uffer pH | | Capacit | _ | % Ca | % I | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.94 mmho/cm 1.12 mmho/cm | | | ****** ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 22-19-05W1**

SAMPLE ID

FIELD NAME **SE 22-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 121

PREV. CROP **Grass/Pasture**

SUBMITTED BY: **DU4426**

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889437** BOX # **0**

LAB # **NW24547**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 15 | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|-----------------------------|-------|--------|--------|-----------------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 14 lb/ac 15 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 5 24 | 13 15/40 | ***** | k | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 29 lb/a c | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 10 ppm | ***** | ***** | **** | | N | 121 | | | N | | | | N | | | |
| Potassium | 327 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 38 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 120 +lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| 6-24" | 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S | | | |
| Sulfur Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 3.91 ppm | ***** | ***** | * **** | ***** | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | | | | | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.6 ppm | ***** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.1 % | ***** | ***** | * **** | * ***** | Sail | | 660 | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | рн В | uffer pH | | Capacit | ty | % Ca | % N | 1 g % | bΚ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.2 mmho/cm 2.24 mmho/cm | | | ***** | * ** * ***** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 22-19-05W1**

SAMPLE ID

FIELD NAME **SW 22-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 98

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W E

REF # **1889438** BOX # **0**

LAB # **NW24543**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|--------|-------|--------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|-----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 14 lb/ac 33 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 33 15/ 40 | ***** | *** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 47 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 103 | | | N | | | | N | | | |
| Potassium | 340 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | | U | | | | | | | | | | |
| Zinc | 1.06 ppm | | ***** | | | В | _ | | | В | | | | В | | | |
| Iron | 1.00 ppiii | ***** | ***** | ***** | K | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.52 ppm | **** | ***** | **** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.0 % | ***** | ***** | ***** | ***** | | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Rai | nge) |
| Carbonate(CCE) | | | | | | Soil | Н В | uffer pH | | Capacit | _ | % Ca | % N | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.42 mmho/cm 1.73 mmho/cm | | ****** | | | 0-6" 7 6-24" 8 | _ | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID NW 23-19-05W1

SAMPLE ID

FIELD NAME **NW 23-19-05W1**

COUNTY

TWP

SECTION ACRES 89 QTR

RANGE

SUBMITTED BY: DU4426

PREV. CROP Grass/Pasture

W

Ε

REF # **1889439** BOX # 0

S

LAB# NW24542

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017

Date Received **04/28/2017** Date Reported 5/2/2017

| Nutrient I | 1 The Soil | In | terp | retati | on | 1 s | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 31 | d Cr | op Cha | ice |
|---|-----------------------------|-------|-------|--------------------|-------|---------------------------------|--------|------------------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | /Pasture | | | | | | | | | |
| 0-6" | 7 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 6-24" | 12 lb/ac | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 19 lb/ac | | | | | SUG | GESTED | GUIDELI | NES | SUGG | SESTED | GUIDELIN | ES | SUG | GESTE | ED GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 4 ppm | ***** | : | | | N | 131 | | | N | | | | N | | | |
| Potassium | 245 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 63 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.78 ppm | ***** | ***** | *** | | Zn | 2 | Broado (Trial | | Zn | | | | Zn | | | |
| Iron | | | | | | Го. | | (IIIai | ') | F0. | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.43 ppm | ***** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.7 % | ***** | ***** | ***** | ***** | Soil p | h R | uffer pH | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | 3011 [| ,,,, | uner pri | | Capacit | У | % Ca | % I | Mg º | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.5 mmho/cm 1.74 mmho/cm | | | * ***** * ***** | | 0-6" 8 6-24" 8 | _ | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 24-19-05W1**

SAMPLE ID

FIELD NAME **SW 24-19-05W1**

COUNTY

TWP RANGE

SECTION QTR ACRES **86**

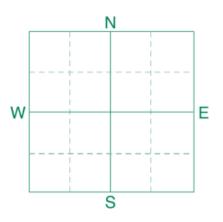
PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # 1889440 BOX # 0

LAB # **NW24531**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterpi | retati | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|---------------|--------|--------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 12 lb/ac 9 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 310/40 | **** | | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 21 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ndcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 129 | | | N | | | | N | | | |
| Potassium | 299 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 422 . 11 4 | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ***** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 3.65 ppm | ***** | ***** | k***** | ***** | | _ | | | | | | | | | | |
| Iron | 5.05 pp | 1.1.1.1.1.1.1 | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.73 ppm | ***** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.4 % | ***** | ***** | ***** | ***** | 6 :: | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 1.03 mmho/cm 1.88 mmho/cm | | | ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SOIL TEST REPORT

FIELD ID NW 24-19-05W1

SAMPLE ID

FIELD NAME **NW 24-19-05W1**

COUNTY

TWP

RANGE

SECTION ACRES 86 QTR

PREV. CROP Grass/Pasture

W

REF # **1889441** BOX #

S

LAB# NW24513

SUBMITTED FOR:

Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426 **FOUR OAK AG SOLUTION**

31119 RD 27E

BOX 131

KLEEFELD, MB **ROA 0V0**

Date Sampled 04/26/2017

Date Received **04/28/2017**

Date Reported 5/2/2017

0

Ε

| Nutrient Ir | n The Soil | In | iterp | retat | ion | 15 | t Cro | p Choice | e | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|-----------------------------|-------|--------|--------|-------------------|---------------------------------|--------|----------------------|------|-------------------------------|--------|----------|------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" | 13 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | D GOAL | |
| 6-24" | 18 lb/ac | ***** | k | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 31 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA [*] | TION | LB/A | CRE | APPLICA | ΓΙΟΝ | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 7 ppm | ***** | ***** | k | | N | 119 | | | N | | | | N | | | |
| Potassium | 225 ppm | ***** | ***** | k***** | * **** | P ₂ O ₅ | 51 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | - 7. | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 68 lb/ac 360 +lb/ac | | | | * ***** * **** | S | 0 | | | S | | | | S | | | |
| Sulfur | 300 115/40 | ***** | ***** | ****** | * * * * * * * * | В | | | | В | | | | В | | | |
| Boron | | | | | | В | | Broado | | В | | | | | | | |
| Zinc | 0.76 ppm | ***** | ***** | ** | | Zn | 2 | (Trial | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| C opper Magnesium | 1.31 ppm | ***** | ***** | ***** | * * | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | | | | | | | | | | | | |
| Org.Matter | 6.9 % | | | | | Lime | | | | Lime | | | | Lime | | | |
| Carbonate(CCE) | 6.9 % | ***** | ***** | ***** | * ***** | Soil p | он В | uffer pH | | ion Exch | _ | | | | | pical Ra | |
| 0-6" 6-24" Sol. Salts | 0.7 mmho/cm 1.49 mmho/cm | | ****** | | **** | 0-6" 8 6-24" 8 | | | | Capacit | y | % Ca | % I | Mg º | % K | % Na | % H |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 24-19-05W1**

SAMPLE ID

FIELD NAME **SE 24-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 67

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889442** BOX # **0**

LAB # **NW24512**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | The Soil | In | iterp | retati | ion | 1s | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|--------|-------|-------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 25 lb/ac 33 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| | | **** | ***** | k | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 58 lb/ac | | | | | SUGO | SESTED | GUIDELI | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| Olsen | 21 nnm | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | ACRE | APPLI | CATION |
| Phosphorus | 21 ppm | **** | ***** | ***** | ***** | N | 92 | | | N | | | | N | | | |
| Potassium | 186 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride 0-6" | 60 lb/ac | **** | | | | CI | | | | CI | | | | CI | | | |
| 6-24 " | 102 lb/ac | | | ****** | | S | 0 | | | S | | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.79 ppm | **** | ***** | *** | | Zn | 0 | | | Zn | | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | | | | | | | | | | | | |
| Copper | 0.94 ppm | **** | ***** | ***** | k | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.3 % | **** | ***** | ***** | ***** | | | | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | НВ | uffer pH | | Capacit | _ | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.57 mmho/cm 0.49 mmho/cm | | ***** | | | 0-6" 8 | _ | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 25-19-05W1**

SAMPLE ID

FIELD NAME **NE 25-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 101

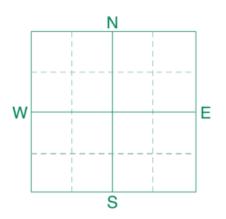
PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # **1889443** BOX # **0**

LAB # **NW24540**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | terp | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|---------------|-------|--------|---------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|------------------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 23 lb/ac 102 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | LD GOAL | |
| 0-24 | 102 15/ 40 | ***** | ***** | ***** | ***** | | 5 | Tons | | | | | | | | | |
| 0-24'' | 125 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 25 | | | N | | | | N | | | |
| Potassium | 418 ppm | ***** | ***** | * **** | * ***** | P ₂ O ₅ | 55 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 32 lb/ac 360 +lb/ac | | | | * ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.90 ppm | **** | ***** | **** | | Zn | 2 | Broado | ast | Zn | | | | Zn | | | |
| Iron | ото ррш | 1.1.1.1.1.1.1 | | | | 211 | | (Trial |) | 211 | | | | 211 | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.64 ppm | ***** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.5 % | ***** | ***** | * **** | * ***** | - " | - | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | н В | uffer pH | | Capacit | _ | % Ca | % I | Mg % | ′ ₆ К | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.54 mmho/cm 1.23 mmho/cm | | ***** | ****** | *** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NW 25-19-05W1**

SAMPLE ID

FIELD NAME **NW 25-19-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 112

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889444** BOX # **0**

LAB # **NW24510**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient Ir | The Soil | In | iterp | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|-----------------------------|------------------------------|------|-----------------|--------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 25 lb/ac 27 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| | | **** | **** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 52 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | idcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA [*] | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 8 ppm | **** | ***** | k | | N | 98 | | | N | | | | N | | | |
| Potassium | 269 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 46 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 48 lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 360 +lb/ac | | | | ***** | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.95 ppm | **** | ***** | ***** | | Zn | 2 | Broado | | Zn | | | | Zn | | | |
| Iron | | | | | | | | (Trial |) | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.2 ppm | **** | ***** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.2 % | **** | ***** | ***** | ***** | Coll | 5 | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | н В | uffer pH | | Capacit | ty | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.58 mmho/cm 1.18 mmho/cm | | ****** ***** | | ** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 25-19-05W1**

SAMPLE ID

FIELD NAME **SE 25-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 114

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

REF # **1889445** BOX # **0**

LAB # **NW24533**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

| Nutrient In | The Soil | In | iterp | retat | ion | 15 | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|-------|-----------------|--------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 14 lb/ac 27 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0 24 | 27 10/40 | ***** | ** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 41 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 12 ppm | ***** | ***** | ***** | k | N | 109 | | | N | | | | N | | | |
| Potassium | 333 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 30 | Broadc | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 440 !! / | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 110 lb/ac 246 lb/ac | | | | ****** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | _ | | | В | | | | В | | | |
| Zinc | 1.11 ppm | **** | **** | * **** | ** | | _ | | | | | | | | | | |
| Iron | 2122 pp | | | | | Zn | 0 | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.34 ppm | **** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.7 % | **** | ***** | ***** | ***** | | | | Cati | on Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | bΚ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.91 mmho/cm 1.07 mmho/cm | | | ****** ***** | | 0-6" 8 6-24" 9 | _ | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 25-19-05W1**

SAMPLE ID

FIELD NAME **SW 25-19-05W1**

COUNTY

TWP RANGE

SECTION QTR ACRES 90

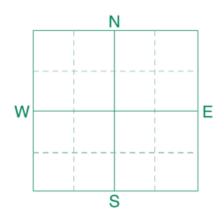
PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # **1889446** BOX # **0**

LAB # **NW24536**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

Date Reported 5/2/2017

| Nutrient Ir | The Soil | In | iterpi | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|--------|---------------------------------------|-------|---------------------------------|--------|----------|------|-------------------------------|--------|----------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 21 lb/ac 33 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEI | LD GOAL | |
| 0 24 | 33 15/40 | ***** | ***** | | | | 5 | Tons | | | | | | | | | |
| 0-24'' | 54 lb/ac | | | | | SUGO | SESTED | GUIDELIN | NES | SUGG | SESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 96 | | | N | | | | N | | | |
| Potassium | 353 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 59 | Broadca | ast | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 34 lb/ac 360 +lb/ac | | | ***** | | S | 0 | | | S | | | | S | | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.83 ppm | ***** | ***** | k*** | | Zn | 2 | Broado | ast | Zn | | | | Zn | | | |
| Iron | 999 | | | | | 211 | | (Trial |) | 2.11 | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.21 ppm | ***** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 7.4 % | ***** | ***** | ***** | ***** | C-11 | | | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | н В | uffer pH | | Capacit | _ | % Ca | % I | Mg 9 | 6 K | % Na | % Н |
| 0-6" 6-24" Sol. Salts | 0.57 mmho/cm 1.63 mmho/cm | | ***** | * * * * * * * * * * * * * * * * * * * | **** | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 36-19-05W1**

SAMPLE ID

FIELD NAME **NE 36-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 125

PREV. CROP Grass/Pasture

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # 1889447 BOX # 0

LAB # **NW24535**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

Date Reported 5/2/2017

| Nutrient In | The Soil | In | iterp | retat | ion | 1 s | t Cro | p Choic | е | 2nd | d Cro | p Choic | е | 31 | d Cro | op Cho | ice |
|---|-----------------------------|-------|-------|--------|--------|---------------------------------|--------|----------|------|-------------------------------|-------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | Pasture | | | | | | | | | |
| 0-6" 6-24" | 36 lb/ac 81 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0-24 | 81 ID/ aC | | ***** | ***** | ***** | | 5 | Tons | | | | | | | | | |
| 0-24'' | 117 lb/ac | | | | | SUG | GESTED | GUIDELII | NES | SUGG | ESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ndcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB// | ACRE | APPLIG | CATION |
| Olsen Phosphorus | 17 ppm | ***** | ***** | ***** | ***** | N | 33 | | | N | | | | N | | | |
| Potassium | 256 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 420 Hb/ | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** | S | 0 | | | S | | | | S | | | |
| Sulfur Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.31 ppm | ***** | ***** | * **** | *** | Zn | 0 | | | Zn | | | | | | | |
| Iron | | | | | | | U | | | | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.0 ppm | ***** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.0 % | ***** | ***** | ***** | ***** | Call | 5 | | Cati | ion Exch | ange | % Ba | se Sa | turatio | n (Ty | oical Ra | nge) |
| Carbonate(CCE) | _ | | | | | Soil p | рн В | uffer pH | | Capacit | У | % Ca | % I | Mg 9 | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.8 mmho/cm 0.94 mmho/cm | | | ***** | | 0-6" 8 6-24" 8 | | | | | | | | | | | |



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SE 36-19-05W1**

SAMPLE ID

FIELD NAME **SE 36-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 115

PREV. CROP **Grass/Pasture**

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # **1889448** BOX # **0**

LAB # **NW24509**

Date Sampled 04/26/2017

Canada Sheep & Lamb Farms

Date Received **04/28/2017**

Date Reported 5/2/2017

| Nutrient In | The Soil | In | iterp | retat | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cr | op Cho | ice |
|---|------------------------------|-------|-------|---------------|---------|---------------------------------|--------|----------|------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Grass/ | 'Pasture | | | | | | | | | |
| 0-6" 6-24" | 30 lb/ac 66 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEl | D GOAL | |
| 0 24 | 00 15/ 40 | ***** | ***** | ***** | * * | | 5 | Tons | | | | | | | | | |
| 0-24'' | 96 lb/ac | | | | | SUG | GESTED | GUIDELII | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | | | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 24 ppm | ***** | **** | ***** | ***** | N | 54 | | | N | | | | N | | | |
| Potassium | 276 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 0 | | | P ₂ O ₅ | | | | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 0 | | | K ₂ O | | | | K ₂ O | | | |
| Chloride | 72 15 / | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 72 lb/ac 360 +lb/ac | | | | * ***** | S | 0 | | | S | | | | S. | | | |
| Sulfur | | | | | | В | • | | | В | | | | В | | | |
| Zinc | 1.34 ppm | ***** | ***** | * **** | *** | | 0 | | | | | | | | | | |
| Iron | pp | | | | | Zn | U | | | Zn | | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 0.94 ppm | ***** | ***** | * **** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.9 % | **** | ***** | ***** | ***** | | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | он В | uffer pH | | Capacit | _ | % Ca | % N | 1g % | ьΚ | % Na | % Н |
| 0-6" 6-24" Sol. Salts | 0.66 mmho/cm 1.01 mmho/cm | | ***** | **** ***** | * * | 0-6" 8 6-24" 8 | _ | | | | | | | | | | |



Benson: (320) 843-4109

SUBMITTED FOR: Canada Sheep & Lamb Farms

SE 27-19-05W1 FIELD ID

SAMPLE ID

FIELD NAME SE 27-19-05W1

COUNTY

TWP

SECTION ACRES 0 QTR

SOIL TEST REPORT

PREV. CROP

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0** W Ε S

1908802 BOX # REF # 0

LAB# NW32611

Date Sampled 05/25/2017

Date Received 05/31/2017

Date Reported 5/31/2017

| Nutrient In | The Soil | In | terp | retat | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cro | p Cho | ice |
|---|------------------------------|-------|-------|----------------|---------|---------------------------------|-------|----------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|----------|---------|--------|
| | | VLow | Low | Med | High | | Corr | n-Grain | | | Corn- | Silage | | | Soy | beans | |
| 0-6" 6-24" | 34 lb/ac 21 lb/ac | | | | | | YIEL | GOAL | | | YIELD | GOAL | | | YIEL | O GOAL | |
| 0-24 | 21 10/ 40 | **** | ***** | | | | 160 | BU | | | 18 | Tons | | | 50 | BU | |
| 0-24'' | 55 lb/ac | | | | | SUGO | GESTE | GUIDELII | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | Broa | dcast | | | Bro | adcast | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA [®] | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 16 ppm | ***** | ***** | ***** | ***** | N | 137 | | | N | 132 | | | N | *** | | |
| Potassium | 476 ppm | ***** | ***** | * **** | * ***** | P ₂ O ₅ | 60 | Broadc | ast | P ₂ O ₅ | 67 | Broadca | ast | P ₂ O ₅ | 36 | Broa | dcast |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | 0 | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | ***** | ***** | ***** | CI | | | | CI | | | | CI | | | |
| Sulfur | 360 +10/40 | **** | ***** | ***** | ***** | S | 0 | | | S | 0 | | | S | 0 | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 4.87 ppm | **** | ***** | ***** | * ***** | Zn | 0 | | | Zn | 0 | | | Zn | 0 | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | | | | | | | | | | | | |
| Copper | 1.6 ppm | **** | ***** | ***** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | 0 | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 13.9 % | **** | ***** | ***** | ***** | | | <u> </u> | Cat | ion Excl | nange | % Ba | se Sa | turatio | n (Tvr | ical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | Cat | Capacit | | % Ca | % I | | <u> </u> | % Na | % H |
| 0-6" 6-24" Sol. Salts | 2.82 mmho/cm 2.58 mmho/cm | | | ***** ***** | ****** | 0-6" 8 6-24" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 65 K2O = 149 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. 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.



SUBMITTED FOR:

Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID NE 10-19-05W1

SAMPLE ID

FIELD NAME NE 10-19-05W1

COUNTY

TWP **RANGE**

SECTION ACRES 0 QTR

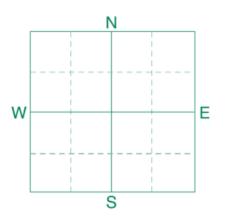
PREV. CROP

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB ROA OVO



1908803 BOX # REF # 0

LAB# NW32626

Date Sampled 05/25/2017

Canada Sheep & Lamb Farms

Date Received 05/31/2017

Date Reported 5/31/2017

| Nutrient Ir | The Soil | In | terpi | retati | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cro | p Cho | ice |
|-----------------------------|------------------------------|-------|-------|--------|-------|---------------------------------|--------|-----------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|--------|----------|--------|
| | | VLow | Low | Med | High | | Corn | -Grain | | | Corn- | Silage | | | Soy | beans | |
| 0-6" 6-24" | 22 lb/ac 18 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0-24 | 10 10/ 40 | ***** | ** | | | | 160 | BU | | | 18 | Tons | | | 50 | BU | |
| 0-24'' | 40 lb/ac | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | Broa | dcast | | | Bro | adcast | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/A | ACRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 152 | | | N | 147 | | | N | *** | | |
| Potassium | 281 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 123 | Broadca | ast | P ₂ O ₅ | 122 | Broadca | ast | P ₂ O ₅ | 80 | Broa | dcast |
| Chloride | | | | | | K ₂ O | 10 | Band (2: | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | 0 | | |
| 0-6" | 120 +lb/ac | | | | ***** | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 360 +lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | 0 | | | S | 0 | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 0.83 ppm | ***** | ***** | *** | | Zn | 7 | Broadca | ast | Zn | 7 | Broadca | ast | Zn | 4 | Broad | dcast |
| Iron | | | | | | Fe | - | 2.000 | | Fe | - | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 1.89 ppm | ***** | ***** | ***** | ** | | _ | | | | _ | | | | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | 0 | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.1 % | ***** | ***** | ***** | ***** | Call - | ,u P | uffor all | Cati | ion Excl | nange | % Ba | se Sa | turatio | n (Typ | oical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | рн В | uffer pH | | Capacit | ty | % Ca | % I | Mg % | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 3.71 mmho/cm 3.17 mmho/cm | | ***** | | | 0-6" 8 6-24" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. 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.



SOIL TEST REPORT

FIELD ID **SE 15-19-05W1**

SAMPLE ID

FIELD NAME **SE 15-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 0

RANGE

SUBMITTED BY: DU4426

PREV. CROP

W _____E

S

REF # **1908804** BOX # **0**

LAB # **NW32624**

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION 31119 RD 27E

BOX 131 KLEEFELD, MB

KLEEFELD, MB ROA 0V0

Date Sampled **05/25/2017**

Date Received **05/31/2017**

Date Reported **5/31/2017**

| Nutrient In | n The Soil | In | iterp | retati | ion | 1 | .st Cı | rop Choic | :e | 2 | nd Cı | rop Cho | ice | 3rd | d Cro | p Cho | ice |
|-----------------------------|------------------------------|-------|-------|-----------------|-------|-------------------------------|--------|------------|---------|-------------------------------|-------|-----------|----------|-------------------------------|--------|---------|--------|
| | | VLow | Low | Med | High | | Co | orn-Grain | | | Coi | rn-Silage | | | Soy | beans | |
| 0-6" 6-24" | 30 lb/ac 24 lb/ac | | | | | | YIE | ELD GOAL | | | YIE | LD GOAL | | | YIELI | GOAL | |
| 0-24 | 24 lb/ ac | ***** | ***** | | | | 10 | 60 BU | | | 18 | Tons | | | 50 | BU | |
| 0-24'' | 54 lb/ac | | | | | SU | GGEST | ED GUIDELI | NES | SU | GGEST | ED GUIDEL | INES | SUGO | GESTE | GUIDE | LINES |
| Nitrate | | | | | | | В | roadcast | | | Br | oadcast | | | Broa | adcast | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ATION | LB/A | CRE | APPLIC | CATION |
| Olsen Phosphorus | 9 ppm | **** | ***** | k** | | N | 138 | | | N | 133 | | | N | *** | | |
| Potassium | 320 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 100 | Broadca | ast | P ₂ O ₅ | 102 | Broad | ast | P ₂ O ₅ | 64 | Broad | lcast |
| | | | | | | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 0 | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | ****** ***** | | S | 0 | | | S | 0 | | | S | 0 | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.39 ppm | | | k***** | | Zn | 4 | Broadcast | (Trial) | Zn | 4 | Broadcas | t(Trial) | Zn | 0 | | |
| Iron | 1.55 ррш | **** | ***** | ***** | *** | 211 | * | | | Δ11 | 4 | | | Z11 | Ů | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.77 ppm | **** | **** | ***** | ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | 0 | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.3 % | **** | ***** | ***** | ***** | | | 1 | Catio | n Exch | ange | % Ba | se Satu | ration | (Typic | cal Ran | ge) |
| Carbonate(CCE) | | | | | | Soil | рН | Buffer pH | | apacit | _ | % Ca | % Mg | | | Na Na | % H |
| 0-6" 6-24" Sol. Salts | 2.57 mmho/cm 2.09 mmho/cm | | | ****** | | 0-6" 6-24" | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 65 K2O = 149 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. 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.



SOIL TEST REPORT

SW 35-19-05W1 FIELD ID

SAMPLE ID

FIELD NAME **SW 35-19-05W1**

COUNTY

TWP

ACRES 0 SECTION QTR

RANGE

SUBMITTED BY: DU4426

PREV. CROP

W Ε S

1908805 BOX # REF # 0

LAB# NW32606

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION 31119 RD 27E

BOX 131

KLEEFELD, MB **ROA 0V0**

Date Sampled **05/25/2017**

Date Received 05/31/2017

Date Reported 5/31/2017

| Nutrient In | The Soil | In | terp | retati | ion | 1 | lst C | rop Choic | æ | 2 | nd C | rop Cho | ice | 3r | d Cro | p Cho | ice |
|-----------------------------|------------------------------|-------|-------|-----------------|----------------|-------------------------------|-------|------------|---------|-------------------------------|-------|-----------|----------|-------------------------------|--------|---------|-------|
| | | VLow | Low | Med | High | | Co | orn-Grain | | | Coi | rn-Silage | | | Soy | beans | |
| 0-6" 6-24" | 19 lb/ac 21 lb/ac | | | | | | YII | ELD GOAL | | | YIE | LD GOAL | | | YIELI | GOAL | |
| 0-24 | 21 lb/ ac | ***** | ** | | | | 1 | 60 BU | | | 18 | Tons | | | 50 | BU | |
| 0-24'' | 40 lb/ac | | | | | SU | GGEST | ED GUIDELI | NES | SU | GGEST | ED GUIDEL | INES | SUGO | SESTE | GUIDE | LINES |
| Nitrate | | | | | | | В | roadcast | | | Br | oadcast | | | Broa | adcast | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ATION | LB/A | CRE | APPLIC | ATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 152 | | | N | 147 | | | N | *** | | |
| Potassium | 290 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 117 | Broadca | ast | P ₂ O ₅ | 117 | Broade | ast | P ₂ O ₅ | 76 | Broad | cast |
| | | | | | | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 0 | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | ****** ***** | ****** **** | S | 0 | | | S | 0 | | | S | 0 | | |
| Sulfur | | | | | | В | | | | В | | | | В | | | |
| Zinc | 4.45 | | | | | | _ | Broadcast | (Trial) | | | Broadcas | t(Trial) | | _ | | |
| Iron | 1.45 ppm | ***** | ***** | ***** | *** | Zn | 4 | | | Zn | 4 | | | Zn | 0 | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.31 ppm | ***** | ***** | ***** | k* | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | 0 | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.0 % | ***** | ***** | ***** | ***** | | | | Catio | n Exch | ange | % Ba | se Satu | ration | (Typic | cal Ran | ge) |
| Carbonate(CCE) | | | | | | Soil | рН | Buffer pH | | apacit | | % Ca | % Mg | | 1 | Na Na | % H |
| 0-6" 6-24" Sol. Salts | 1.01 mmho/cm 1.94 mmho/cm | | | ****** ***** | ** ***** | 0-6" 6-24" | _ | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 64 K2O = 43 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 A GVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. 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.



SOIL TEST REPORT

FIELD ID **SW 30-20-05W1**

SAMPLE ID

FIELD NAMESW 30-20-05W1

COUNTY

TWP

RANGE

SUBMITTED BY: DU4426

SECTION QTR ACRES 0

PREV. CROP

S

REF # 1937280 BOX # 0

Ε

Date Reported 8/4/2017

LAB # **NW42037**

W

SUBMITTED FOR:

Canada Sheep & Lamb Farms

Sol. Salts

FOUR OAK AG SOLUTION 31119 RD 27E

BOX 131

KLEEFELD, MB ROA 0V0

Date Sampled **07/29/2017** Date Received **08/04/2017**

1st Crop Choice 2nd Crop Choice **Nutrient In The Soil** Interpretation **3rd Crop Choice** Corn-Grain Corn-Silage 0-6" 45 lb/ac YIELD GOAL YIELD GOAL YIELD GOAL 6-24" 48 lb/ac 140 BU 15 Tons SUGGESTED GUIDELINES 0-24" 93 lb/ac SUGGESTED GUIDELINES SUGGESTED GUIDELINES Broadcast Broadcast Nitrate APPLICATION APPLICATION LB/ACRE **APPLICATION** LB/ACRE LB/ACRE Olsen 50 ppm ***** 75 63 Phosphorus Phosphorus Band (2x2) * Band (2x2) * Potassium 511 ppm P_2O_5 15 P₂O₅ 15 P₂O₅ Band (2x2) * Band (2x2) * 10 K₂O 10 K_2O K_2O Chloride 0-6" 30 lb/ac 6-24' 66 lb/ac CI CI CI Sulfur S 0 S 0 S Boron В В В Zinc 2.14 ppm Zn 0 Zn 0 Zn Iron Fe Fe Fe Manganese Copper Mn Mn Mn 1.13 ppm Magnesium Cu 0 Cu 0 Cu Calcium Mg Mg Mg Sodium Lime Lime Lime Org.Matter 5.6 % Carbonate(CC

| CE) | | | Soil pH | Buffer pH | Cation Exchange Capacity | % Са | % Mg | % K | урісаі каі % Na | % H |
|---------------|--|--|-------------------------------------|-----------|--------------------------|------|------|-----|--------------------|-----|
| 0-6" 6-24" | | | 0-6" 8.0 6-24" 8.7 | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SOIL TEST REPORT

FIELD ID NW 30-20-05W1

SAMPLE ID

FIELD NAME **NW 30-20-05W1**

FOUR OAK AG SOLUTION

COUNTY

TWP

RANGE

SUBMITTED BY: DU4426

SECTION QTR ACRES 0

PREV. CROP

S

W

REF # **1937281** BOX # **0**

LAB # **NW42040**

SUBMITTED FOR:

Canada Sheep & Lamb Farms

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

Date Sampled **07/29/2017** Date Received **08/04/2017**

Date Reported 8/4/2017

Ε

| Nutrient In | The Soil | In | iterp | retati | ion | 1 s | t Cro | p Choice | : | 2 | nd Cr | op Choic | e | 3r | d Cro | p Cho | oice |
|---|------------------------------|-------|-------|--------|-----------|-------------------------------|--------|--------------------|--------|-------------------------------|----------------|-------------|---------|-------------------------------|-------|--------|--------|
| | | VLow | Low | Med | High | | Corn | ı-Grain | | | Corr | n-Silage | | | | | |
| 0-6" | 24 lb/ac | | | | | | YIELD | GOAL | | | YIEL | D GOAL | | | YIELD | GOAL | |
| 6-24" | 30 lb/ac | ***** | ***** | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 54 lb/ac | | | | | SUGO | SESTED | GUIDELIN | ES | SUC | GGESTE | D GUIDELIN | IES | SUGO | ESTED | GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | Bro | adcast | | | | | |
| | | | | | | LB/A | CRE | APPLICAT | ION | LB/A | CRE | APPLICAT | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen | 5 ppm | ***** | ** | | | N | 114 | | | N | 102 | | | N | | | |
| P otas sium | 162 nnm | | | | | P ₂ O ₅ | 108 | Broadcas | st | P ₂ O ₅ | 102 | Broadca | st | P ₂ O ₅ | | | |
| | 163 ppm | ***** | ***** | ***** | ***** | K ₂ O | 39 | Broadcas | st | K ₂ O | 60 | Broadca | st | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 18 lb/ac 30 lb/ac | | | | k | S | 10 | Broadca (Trial) | | S | 10 | Broadc | | S | | | |
| Sulfur | | | | | | В | | (11141) | | В | | (11141) | | В | | | |
| Zinc | 1.59 ppm | **** | **** | * **** | L + + + + | | | | | | | Broadcast | (Trial) | В | | | |
| Iron | 1.35 pp | ***** | ***** | ****** | r **** | Zn | 0 | | | Zn | 2 | Di Gaacast, | (11101) | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 0.82 ppm | **** | ***** | * **** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | \neg | Lime | | | | Lime | | | |
| Org.Matter | 6.1 % | ***** | ***** | * **** | ***** | | | | Cci | tion Fre | chance | % Ra | se Sat | uration | (Typi | cal Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | рН | Buffer pH | Ca | Capac | change city | % Ca | % M | | | ∕₀ Na | % H |
| 0-6" 6-24" Sol. Salts | 0.33 mmho/cm 0.27 mmho/cm | ***** | | | | 0-6" 6 | | | | | | | | | | | |

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SE 25-20-06W1

SAMPLE ID

FIELD NAMESE 25-20-06W1

COUNTY

TWP **RANGE**

ACRES 0 SECTION QTR

PREV. CROP

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0** W Ε S

REF # **1937282** BOX # 0

LAB# NW42045

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient In | The Soil | In | iterpi | retati | ion | 1 | .st C | rop Choic | :e | 2 | nd C | rop Cho | ice | 3rd | Cro | p Cho | ice |
|-----------------------------|------------------------------|-------|--------|---------------------------------------|-----------------|-------------------------------|-------|------------|---------|-------------------------------|-------|-----------|-----------------|-------------------------------|-------|--------|------------|
| | | VLow | Low | Med | High | | Co | orn-Grain | | | Со | rn-Silage | | | | | |
| 0-6" 6-24" | 19 lb/ac 30 lb/ac | | | | | | YII | ELD GOAL | | | YIE | LD GOAL | | | YIELD | GOAL | |
| 0-24 | 30 lb/ac | ***** | **** | | | | 1 | 40 BU | | | 15 | Tons | | | | | |
| 0-24'' | 49 lb/ac | | | | | SU | GGEST | ED GUIDELI | NES | SU | GGEST | ED GUIDEL | INES | SUGGI | ESTED | GUIDE | LINES |
| Nitrate | | | | | | | В | roadcast | | | Br | oadcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ATION | LB/A0 | CRE | APPLIC | CATION |
| Olsen Phosphorus | 7 ppm | ***** | ***** | k | | N | 119 | | | N | 107 | | | N | | | |
| Potassium | 268 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 98 | Broadca | ast | P ₂ O ₅ | 94 | Broado | ast | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 10 | Band (2: | x2) * | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | ****** ***** | S | 0 | | | S | 0 | | | S | | | |
| Sulfur | • | | | | | В | | | | В | | | | В | | | |
| Boron | | | | | | | | Broadcast | (Trial) | | | Broadcas | t(Trial) | | | | |
| Zinc | 1.25 ppm | ***** | ***** | ***** | k * | Zn | 2 | Dioducase | (11101) | Zn | 4 | Di Oducas | | Zn | | | |
| Iron Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.66 ppm | ***** | ***** | ***** | k * | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.4 % | **** | ***** | k **** | **** | Linie | | | | | | | | | | | |
| Carbonate(CCE) | 5.4 // | | | | | Soil | рН | Buffer pH | | n Exch apacit | _ | % Ba | se Satu % Mg | | + | al Ran | ge) % H |
| 0-6" 6-24" Sol. Salts | 0.94 mmho/cm 1.17 mmho/cm | | | * * * * * * * * * * * * * * * * * * * | | 0-6" 6-24" | | | | арасіс | 7 | % Ca | % Mg | 9/0 K | 9/0 | Na | -/0 H |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SOIL TEST REPORT

FIELD ID NW 15-20-05W1

SAMPLE ID

FIELD NAME **NW 15-20-05W1**

COUNTY

TWP

RANGE SECTION QTR

PREV. CROP

W Ε S

REF # **1937283** BOX # 0

LAB# NW42034

SUBMITTED FOR:

Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426 **FOUR OAK AG SOLUTION**

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 07/29/2017

Date Received 08/04/2017

ACRES 0

Date Reported 8/4/2017

| Nutrient Ir | n The Soil | In | terp | retati | ion | 1s | t Cro | p Choice | 2 | 2 | nd Cro | op Choic | e | 3rc | l Cro | p Cho | ice |
|-----------------------------|------------------------------|-------|-------|-----------------|-----------------|-------------------------------|-------|------------|------|-------------------------------|--------|----------------------|---------|-------------------------------|-------|---------|--------|
| | | VLow | Low | Med | High | | Cori | n-Grain | | | Corr | n-Silage | | | | | |
| 0-6" 6-24" | 15 lb/ac 18 lb/ac | | | | | | YIEL | D GOAL | | | YIEL | D GOAL | | | YIELD | GOAL | |
| 6-24 | 18 lb/ac | **** | k | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 33 lb/ac | | | | | SUGO | GESTE | O GUIDELIN | ES | SUC | GGESTE | D GUIDELIN | IES | SUGG | ESTED | GUIDE | LINES |
| Nitrate | | | | | | | Bro | adcast | | | Bro | adcast | | | | | |
| | | | | | | LB/A | ACRE | APPLICAT | ION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen | 14 ppm | ***** | ***** | ***** | **** | N | 135 | | | N | 123 | | | N | | | |
| P otas sium | 290 ppm | **** | **** | ***** | ***** | P ₂ O ₅ | 62 | Broadca | st | P ₂ O ₅ | 64 | Broadca | ıst | P ₂ O ₅ | | | |
| | 230 pp | | | | | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | | | |
| Chloride | | | | | | 1120 | | | | 1120 | 10 | Daria (Ex | -, | 1120 | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | ***** | ****** ***** | CI | | | | CI | | | | CI | | | |
| Sulfur | 300 +ID/ ac | **** | ***** | ***** | ***** | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 1.40 ppm | **** | ***** | ***** | * ** | Zn | 0 | | | Zn | 2 | Broadcast | (Trial) | Zn | | | |
| Iron | | | | | | | | | | | | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.9 ppm | **** | ***** | ***** | k ** | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 10.0 % | **** | ***** | ***** | ***** | | | <u> </u> | Cat | tion Ex | change | % Ba | se Sat | uration | (Typi | cal Raı | nge) |
| Carbonate(CCE) | | | | | | Soil | рН | Buffer pH | Sui | Capac | | % Ca | % M | | | ⁄o Na | % H |
| 0-6" 6-24" Sol. Salts | 1.02 mmho/cm 1.39 mmho/cm | | | ****** ***** | | 0-6" . 6-24" (| - | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



FIELD ID NW 18-20-05W1

SAMPLE ID

FIELD NAME NW 18-20-05W1

FOUR OAK AG SOLUTION

COUNTY

TWP

RANGE ACRES 0 SECTION QTR

SOIL TEST REPORT

PREV. CROP

31119 RD 27E

KLEEFELD, MB

BOX 131

W Ε S

REF # **1937263** BOX # 0

LAB# NW42049

SUBMITTED FOR:

Canada Sheep & Lamb Farms

Date Sampled 07/29/2017

Date Received 08/04/2017

ROA 0V0

SUBMITTED BY: DU4426

Date Reported 8/4/2017

| Nutrient Ir | n The Soil | In | terp | retati | ion | 1 s | t Cr | op Choic | e | 2n | d Cro | p Choic | e | 3 | rd Cı | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|-------------|-------|---------------------------------|-------|------------------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Cor | n-Grain | | | Corn- | Silage | | | | | |
| 0-6" | 180 lb/ac | | | | | | YIEI | LD GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 6-24" | 156 lb/ac | ***** | ***** | ***** | ***** | | 14 | 0 BU | | | 15 | Tons | | | | | |
| 0-24'' | 336 lb/ac | | | | | SUGO | GESTE | D GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GEST | ED GUIDE | LINES |
| Nitrate | | | | | | | Bro | oadcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/ | ACRE | APPLI | CATION |
| Olsen | 28 ppm | **** | ***** | ***** | ***** | N | 10 | | | N | 10 | | | N | | | |
| Phosphorus Potassium | 246 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 15 | Band (2 | x2) * | P ₂ O ₅ | 15 | Band (2) | (2) * | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| 0-6" 6-24" | 30 lb/ac 42 lb/ac | | | ****** | | CI | | | | CI | | | | CI | | | |
| Sulfur | | | | | | S | 10 | Broado (Trial | | S | 10 | Broadc (Trial | | S | | | |
| Zinc | 2.43 ppm | ***** | ***** | ***** | ***** | В | | | | В | | | | В | | | |
| Iron | | | | | | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 0.76 ppm | ***** | ***** | ***** | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.2 % | ***** | ***** | ***** | ***** | | | | Cati | ion Excl | nange | % Ba | se Sa | turatio | on (T | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н | Buffer pH | | Capacit | | % Ca | % I | | % K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.88 mmho/cm 0.53 mmho/cm | | | ****** * | ** | 0-6" 8 6-24" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SE 26-20-06W1

SAMPLE ID

FIELD NAMESE 26-20-06W1

COUNTY

TWP **RANGE**

ACRES 0 SECTION QTR

PREV. CROP

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0** W Ε S

REF # **1937264** BOX # 0

LAB# NW42036

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient Ir | The Soil | In | iterp | retati | ion | 1s | t Cr | op Choic | е | 2n | d Cro | p Choic | е | 3 | d Cr | op Cho | ice |
|-----------------------------|-----------------------------|-------|-------------|--------|-------|-------------------------------|-------|-------------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Со | rn-Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 26 lb/ac 21 lb/ac | | | | | | YIE | LD GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 0-24 | 21 10/40 | ***** | *** | | | | 14 | 0 BU | | | 15 | Tons | | | | | |
| 0-24'' | 47 lb/ac | | | | | SUGO | GESTI | ED GUIDELII | NES | SUG | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Br | oadcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 20 ppm | ***** | ***** | ***** | ***** | N | 121 | | | N | 109 | | | N | | | |
| Potassium | 402 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 32 | Broadc | ast | P ₂ O ₅ | 39 | Broadca | ast | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| 0-6" | 42 lb/ac | | | ***** | | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 48 lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.64 ppm | ***** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Iron | | | | | | | - | | | | 0 | | | | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.14 ppm | ***** | ***** | ***** | k | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.2 % | ***** | ***** | ***** | ***** | | | | C=: | ion Evel | | % Ra | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н | Buffer pH | Cat | ion Excl | | % Ca | % I | | % K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.57 mmho/cm 0.3 mmho/cm | | ****** * | k * | | 0-6" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID NW 32-20-05W1

SAMPLE ID

FIELD NAME **NW 32-20-05W1**

COUNTY

TWP

TWP RANGE SECTION QTR A

PREV. CROP

ACRES 0

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # 1937265 BOX # 0

LAB # **NW42046**

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received **08/04/2017**

Date Reported 8/4/2017

| Nutrient Ir | n The Soil | In | terp | retati | ion | 1s | t Cro | p Choice | • | 2 | nd Cr | op Choic | e | 3r | d Cro | p Cho | oice |
|---|------------------------------|-------|-------|--------|-------|-------------------------------|-------|--------------------|------|-------------------------------|--------|-------------------|---------|-------------------------------|-------|---------|--------|
| | | VLow | Low | Med | High | | Cori | n-Grain | | | Corr | n-Silage | | | | | |
| 0-6" | 130 lb/ac | | | | | | YIEL | D GOAL | | | YIEL | D GOAL | | | YIEL | D GOAL | |
| 6-24" | 315 lb/ac | ***** | ***** | ***** | ***** | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 445 lb/ac | | | | | SUGO | GESTE | O GUIDELIN | ES | SUC | GGESTE | D GUIDELIN | IES | SUG | GESTE | O GUIDE | ELINES |
| Nitrate | | | | | | | Bro | adcast | | | Bro | adcast | | | | | |
| | | | | | | LB/A | CRE | APPLICAT | ION | LB/A | CRE | APPLICAT | ΓΙΟΝ | LB/A | CRE | APPLI | CATION |
| Olsen | 12 ppm | **** | ***** | ***** | k | N | 10 | | | N | 10 | | | N | | | |
| Phosphorus Potassium | | | | | | P ₂ O ₅ | 73 | Broadca | st | P ₂ O ₅ | 73 | Broadca | st | P ₂ O ₅ | | | |
| Potassium | 270 ppm | ***** | ***** | ***** | ***** | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | | |
| 0-6" 6-24" Sulfur | 22 lb/ac 36 lb/ac | | ***** | | *** | S | 10 | Broadca (Trial) | | S | 10 | Broadc (Trial) | | S | | | |
| Boron | | | | | | В | | , , | | В | | | | В | | | |
| Zinc | 1.46 ppm | ***** | ***** | ***** | *** | | | | | | | Broadcast | (Trial) | | | | |
| Iron | | | | | | Zn | 0 | | | Zn | 2 | | , | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 0.92 ppm | ***** | ***** | ***** | k | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.4 % | ***** | ***** | ***** | ***** | | | · | Cat | tion Ex | change | % Ba | se Sat | uration | (Тур | ical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil | pH | Buffer pH | | Capac | | % Ca | % M | g % | K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.54 mmho/cm 0.48 mmho/cm | | ***** | | | 0-6" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

Canada Sheep & Lamb Farms

Date Sampled 07/29/2017

FIELD ID **SW 32-20-05W1**

SAMPLE ID

FIELD NAME **SW 32-20-05W1**

COUNTY

TWP

RANGE

SECTION QTR ACRES 0

SOIL TEST REPORT

PREV. CROP

26

W

REF #

1937266 BOX #

S

LAB # **NW42041**

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

Date Received **08/04/2017**

Date Reported 8/4/2017

0

Ε

| Nutrient In | The Soil | In | terpi | retati | on | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3r | d Cro | p Cho | ice |
|------------------------------|-----------------------------|-------|-------|--------|-------|-------------------------------|--------|----------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|--------|---------|--------|
| | | VLow | Low | Med | High | | Corn | -Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 73 lb/ac 129 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIELI | O GOAL | |
| 32. | 223 137 40 | ***** | ***** | ***** | ***** | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 202 lb/a c | | | | | SUGO | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA [*] | TION | LB/A | CRE | APPLI | CATION |
| Olsen Phosphorus | 6 ppm | ***** | **** | | | N | 10 | | | N | 10 | | | N | | | |
| Potassium | 328 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 103 | Broadca | ast | P ₂ O ₅ | 98 | Broadca | st | P ₂ O ₅ | | | |
| C hloride | | | | | | K ₂ O | 10 | Band (2: | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| 0-6" 6-24" | 68 lb/ac 360 +lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| Sulfur | | | | | | S | 0 | | | S | 0 | | | S | | | |
| Boron | 4.10 | | | | | В | | | | В | | | | В | | | |
| Iron | 4.19 ppm | ***** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.6 ppm | ***** | ***** | ***** | * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 19.6 % | ***** | ***** | ***** | ***** | | | | Cati | ion Exch | nange | % Ba | se Sa | turatio | n (Typ | ical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | Capacit | _ | % Ca | % I | Mg % | κ | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.77 mmho/cm 0.8 mmho/cm | | | ****** | | 0-6" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Benson: (320) 843-4109

SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID SW 18-20-05W1

SAMPLE ID

FIELD NAME **SW 18-20-05W1**

COUNTY

TWP

ACRES 0 SECTION QTR

PREV. CROP

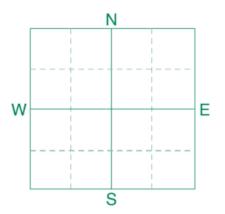
SUBMITTED BY: DU4426

RANGE

31119 RD 27E **BOX 131**

FOUR OAK AG SOLUTION

KLEEFELD, MB **ROA 0V0**



REF # **1937267** BOX # 0

LAB# NW42035

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient Ir | n The Soil | In | terp | retati | ion | 1 | st C | rop Choic | e | 2 | nd Cı | op Cho | ice | 3rd | Cro | Choice |
|-----------------------------|-----------------------------|-------|-------|--------------------|-------|-------------------------------|-------|-------------|---------|-------------------------------|--------|-----------|----------|-------------------------------|-------|-------------|
| | | VLow | Low | Med | High | | C | orn-Grain | | | Cor | n-Silage | | | | |
| 0-6" 6-24" | 130 lb/ac 84 lb/ac | | | | | | YII | ELD GOAL | | | YIE | LD GOAL | | | YIELD | GOAL |
| 0-24 | 84 ID/ aC | ***** | ***** | ***** | ***** | | 1 | 40 BU | | | 15 | Tons | | | | |
| 0-24'' | 21 4 lb/ac | | | | | SUC | GGES1 | TED GUIDELI | NES | SUC | GGESTE | ED GUIDEL | INES | SUGGE | STED | GUIDELINES |
| Nitrate | | | | | | | В | roadcast | | | Br | oadcast | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | ATION | LB/AC | RE | APPLICATION |
| Olsen Phosphorus | 8 ppm | ***** | ***** | k | | N | 10 | | | N | 10 | | | N | | |
| Potassium | 215 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 93 | Broadca | ast | P ₂ O ₅ | 89 | Broado | ast | P ₂ O ₅ | | |
| | | | | | | K ₂ O | 10 | Band (2x | 2) * | K ₂ O | 29 | Broado | ast | K ₂ O | | |
| Chloride | | | | | | CI | | | | CI | | | | CI | | |
| 0-6" 6-24" | 48 lb/ac 42 lb/ac | | | * ***** * ***** | | S | 0 | | | S | 0 | | | S | | |
| Sulfur | | | | | | В | | | | В | | | | В | | |
| Boron | | | | | | | | Broadcast | (Trial) | | | Broadcas | t(Trial) | | | |
| Zinc | 1.48 ppm | ***** | ***** | ***** | *** | Zn | 2 | | (, | Zn | 4 | | (| Zn | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | |
| Copper | 1.41 ppm | | | * ***** | | Mn | | | | Mn | | | | Mn | | |
| Magnesium | 1.41 pp | ***** | ***** | ****** | | Cu | 0 | | | Cu | 0 | | | Cu | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | |
| Org.Matter | 5.5 % | **** | **** | ***** | **** | | | | 6-1 | | | 0/o B a | se Satur | ration (| Typic | al Range) |
| Carbonate(CCE) | | | | | | Soil | рН | Buffer pH | | n Exch Capacit | | % Ca | % Mg | % K | 1 | Na % H |
| 0-6" 6-24" Sol. Salts | 0.8 mmho/cm 0.45 mmho/cm | | | ***** | k | 0-6" | | | | - | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **SW 26-20-06W1**

SAMPLE ID

FIELD NAMESW 26-20-06W1

COUNTY

TWP

RANGE

SECTION QTR ACRES 0

PREV. CROP

SUBMITTED BY: DU4426

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # 1937268 BOX # 0

LAB # **NW42042**

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient In | The Soil | In | terp | retati | ion | 1s | t Cro | p Choic | e | 2n | d Cro | p Choic | e | 31 | d Cro | p Cho | ice |
|-----------------------------|-----------------------------|-------|-------|----------------|-------|-------------------------------|--------|----------|-------|---|--------|----------------------|--------------|-------------------------------|---------|----------|-------------|
| | | VLow | Low | Med | High | | Corn | -Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 133 lb/ac 84 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24 | 84 ID/ aC | | ***** | ***** | ***** | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 217 lb/ac | | | | | SUGO | SESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 18 ppm | **** | ***** | ***** | ***** | N | 10 | | | N | 10 | | | N | | | |
| Potassium | 686 ppm | **** | **** | ***** | ***** | P ₂ O ₅ | 42 | Broadc | ast | P ₂ O ₅ | 47 | Broadca | ast | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| Chloride | 4411-7 | | | | | | | | | | | | | | | | |
| 0-6" 6-24" | 44 lb/ac 66 lb/ac | | | ****** **** | | CI | | | | CI | | | | CI | | | |
| Sulfur Boron | | | | | | S | 0 | | | S | 0 | | | S | | | |
| Zinc | | | | | | В | | | | В | | | | В | | | |
| Iron | 2.33 ppm | ***** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.24 ppm | | | ***** | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.24 ppiii | ***** | ***** | ***** | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 8.4 % | **** | ***** | ***** | ***** | | | | | | | 0/s D= | so 5- | turatia | n (Terr | oical Ra | ngo) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | ion Excl | | % Ca | se Sa % I | | n (Tyl | % Na | nge) % H |
| 0-6" 6-24" Sol. Salts | 0.9 mmho/cm 0.42 mmho/cm | | | ***** | k * | 0-6" 7 | | | | • | | , , , , | ,01 | -9 / | | | 7517 |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID SW 33-20-05W1

SAMPLE ID

FIELD NAME **SW 33-20-05W1**

FOUR OAK AG SOLUTION

COUNTY

TWP

RANGE ACRES 0 QTR

SUBMITTED BY: DU4426

SECTION PREV. CROP

31119 RD 27E

W Ε S

REF # **1937278** BOX # 0

LAB# NW42038

SUBMITTED FOR:

Canada Sheep & Lamb Farms

BOX 131

KLEEFELD, MB **ROA 0V0**

Date Sampled 07/29/2017 Date Received 08/04/2017 Date Reported 8/4/2017

| Nutrient I | n The Soil | In | iterpi | retati | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 3 | rd Cr | op Cho | ice |
|-------------------------|------------------------------|-------|---------|--------|-------|-------------------------------|-------|----------|-------|-------------------------------|--------|----------|--------------|-------------------------------|----------------|------------------|-------------|
| | | VLow | Low | Med | High | | Corr | n-Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 24 lb/ac 15 lb/ac | | | | | | YIELI | GOAL | | | YIELD | GOAL | | | YIEI | D GOAL | |
| 0-24 | 13 15/ 40 | **** | *** | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 39 lb/ac | | | | | SUGO | GESTE | GUIDELI | IES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | adcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA: | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 13 ppm | ***** | ***** | ***** | ** | N | 129 | | | N | 117 | | | N | | | |
| Potassium | 204 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 67 | Broadc | ast | P ₂ O ₅ | 68 | Broadca | ast | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | (2) * | K ₂ O | 35 | Broadca | ast | K ₂ O | | | |
| 0-6" 6-24" | 32 lb/ac 252 lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| Sulfur | 232 15/ 40 | | | | ***** | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.73 ppm | **** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| C opper Magnesium | 1.29 ppm | ***** | ***** | ***** | * | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | | | | | Lime | | | | Lime | | + | |
| Org.Matter | 8.5 % | *** | * ***** | *** | | Lime | | | | Lime | | | | | <u> </u> | | |
| Carbonate(CCE) | 6.5 % | **** | ****** | ***** | ***** | Soil p | н в | uffer pH | | ion Excl | _ | % Ba | se Sa % I | | on (Ty ⁄o K | pical Ra % Na | nge) % H |
| 0-6" 6-24" | 0.48 mmho/cm 0.35 mmho/cm | | ****** | k | | 0-6" 8 | _ | | | Сирисп | • | 70 Ca | 70 1 | 19 | JO K | 70 I4d | -70 11 |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 54 K20 = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 27-20-06W1**

SAMPLE ID

FIELD NAME NE 27-20-06W1

COUNTY

TWP

SECTION QTR ACRES 0

PREV. CROP

SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0

W _____E

REF # 1937279 BOX # 0

LAB # **NW42047**

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received **08/04/2017**

Date Reported 8/4/2017

| Nutrient I | n The Soil | In | iterp | retat | ion | 1 s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-----------------------------|------------------------------|-------|-------|---------|-----------------|-------------------------------|-------|-----------|-------|-------------------------------|--------|----------------------|-------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Corr | n-Grain | | | Corn- | Silage | | | | | |
| 0-6" | 26 lb/ac | | | | | | YIELI | O GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 6-24" | 39 lb/ac | ***** | ***** | * * | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 65 lb/ac | | | | | SUG | GESTE | GUIDELII | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Bro | adcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | ΓΙΟΝ | LB// | ACRE | APPLI | CATION |
| Olsen | 38 ppm | ***** | ***** | * **** | ***** | N | 103 | | | N | 91 | | | N | | | |
| P otassium | 241 ppm | ***** | ***** | * **** | ***** | P ₂ O ₅ | 15 | Band (2 | x2) * | P ₂ O ₅ | 15 | Band (2) | (2) * | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 13 | Broadca | ıst | K ₂ O | | | |
| 0-6" 6-24" | 32 lb/ac 84 lb/ac | | | | * * * * * * * * | CI | | | | CI | | | | CI | | | |
| Sulfur | | | | | | S | 0 | | | S | 0 | | | S | | | |
| Zinc | 2.22 ppm | | | | * **** | В | | | | В | | | | В | | | |
| Iron | 2.22 pp | ***** | ***** | * ***** | * ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 1.29 ppm | ***** | ***** | * **** | * * | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 6.5 % | ***** | **** | * **** | * ***** | | | | Conti | on Free | | % Ra | se Sa | turatio | n (Ty | pical Ra | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | Suffer pH | | ion Excl | | % Ca | % I | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 0.33 mmho/cm 0.27 mmho/cm | | | | | 0-6" 7 | _ | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SOIL TEST REPORT

FIELD ID SW 10-19-05W1

SAMPLE ID

FIELD NAME **SW 10-19-05W1**

FOUR OAK AG SOLUTION

COUNTY

TWP

RANGE

SUBMITTED BY: DU4426

ACRES 0 SECTION QTR

PREV. CROP

W Ε S

REF # **1937285** BOX # 0

LAB# NW42044

SUBMITTED FOR:

Canada Sheep & Lamb Farms

31119 RD 27E **BOX 131**

> KLEEFELD, MB **ROA 0V0**

Date Sampled 07/29/2017

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient I | n The Soil | In | iterpi | retati | ion | 1s | t Cro | p Choic | е | 2n | d Cro | p Choic | е | 31 | d Cr | op Cho | ice |
|-------------------------|----------------------|-------|--------|--------|-------|---------------------------------|--------|----------|-------|-------------------------------|--------|----------------------|------|-------------------------------|-------|----------|--------|
| | | VLow | Low | Med | High | | Corn | -Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 14 lb/ac 21 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 0-24 | 21 15/ 40 | **** | k* | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 35 lb/ac | | | | | SUG | GESTED | GUIDELIN | NES | SUGO | GESTED | GUIDELIN | IES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | ıdcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA [*] | TION | LB/ | ACRE | APPLI | CATION |
| Olsen Phosphorus | 6 ррт | ***** | k**** | | | N | 133 | | | N | 121 | | | N | | | |
| Potassium | 231 ppm | **** | ***** | ***** | ***** | P ₂ O ₅ | 103 | Broadca | ast | P ₂ O ₅ | 98 | Broadca | est | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2: | x2) * | K ₂ O | 19 | Broadca | ast | K ₂ O | | | |
| 0-6" | 120 +lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| 6-24" Sulfur | 360 +lb/ac | ***** | ***** | ***** | ***** | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.20 ppm | **** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Copper | 2.08 ppm | **** | ***** | ***** | *** | | 0 | | | Cu | 0 | | | | | | |
| Magnesium | | | | | | Cu | U | | | - | U | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Org.Matter | _ | | | | | Lime | | | | Lime | | | | Lime | | | |
| Carbonate(CCE) | 9.5 % | **** | ***** | ***** | ***** | Soil p | он В | uffer pH | Cat | ion Excl | _ | | | | | pical Ra | |
| 0-6" | 4.89 mmho/cm | **** | **** | **** | ***** | | | | | Capacit | у | % Ca | % I | Mg º | 6 K | % Na | % H |
| 6-24" Sol. Salts | 3.68 mmho/cm | | | | | 0-6" 8 6-24" 8 | | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P205 = 54 K20 = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SUBMITTED FOR:

SOIL TEST REPORT

FIELD ID **NE 29-19-05W1**

SAMPLE ID

FIELD NAME **NE 29-19-05W1**

COUNTY

TWP

SECTION QTR ACRES 0

PREV. CROP

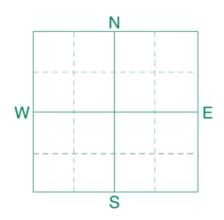
SUBMITTED BY: DU4426

RANGE

FOUR OAK AG SOLUTION

31119 RD 27E BOX 131

KLEEFELD, MB ROA 0V0



REF # 1937286 BOX # 0

LAB # **NW42048**

Date Sampled 07/29/2017

Canada Sheep & Lamb Farms

Date Received **08/04/2017**

Date Reported 8/4/2017

| Nutrient Ir | n The Soil | In | iterpi | retati | on | 1s | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3r | d Cro | p Cho | ice |
|------------------------------|------------------------------|-------|--------|--------|-------|---------------------------------|--------|----------|-------|-------------------------------|--------|----------|-------|-------------------------------|-------|-----------|--------|
| | | VLow | Low | Med | High | | Corn | -Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 30 lb/ac 24 lb/ac | | | | | | YIELD | GOAL | | | YIELD | GOAL | | | YIEL | D GOAL | |
| 0-24 | 24 ID/ ac | ***** | ***** | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 54 lb/ac | | | | | SUGO | GESTED | GUIDELI | NES | SUGO | GESTED | GUIDELIN | ES | SUG | GESTE | D GUIDE | LINES |
| Nitrate | | | | | | | Broa | dcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA | TION | LB/A | ACRE | APPLIC | CATION |
| Olsen Phosphorus | 8 ррт | ***** | ***** | k | | N | 114 | | | N | 102 | | | N | | | |
| Potassium | 307 ppm | ***** | ***** | ***** | ***** | P ₂ O ₅ | 93 | Broadc | ast | P ₂ O ₅ | 89 | Broadca | ıst | P ₂ O ₅ | | | |
| | | | | | | K ₂ O | 10 | Band (2 | x2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| Chloride | | | | | | K ₂ U | 10 | | | K ₂ U | 10 | | | K ₂ U | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | ***** | ***** | CI | | | | CI | | | | CI | | | |
| Sulfur | | | | | | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Iron | 2.05 ppm | ***** | ***** | ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Manganese | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Copper | 2.08 ppm | **** | ***** | ***** | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 2.00 pp | | | | | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.7 % | ***** | ***** | ***** | ***** | | | | 6-1 | ion Fuel | | % Ra | SA 53 | turatio | n (Tv | oical Rai | nge) |
| Carbonate(CCE) | | | | | | Soil p | Н В | uffer pH | | ion Excl Capacit | _ | % Ca | % I | | 6 K | % Na | % H |
| 0-6" 6-24" Sol. Salts | 3.65 mmho/cm 3.67 mmho/cm | | | ****** | | 0-6" 8 6-24" 8 | _ | | | | | | | | | | |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. High salt levels may decrease yields in portions of this field. Crop Removal: P2O5 = 54 K2O = 125 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



SOIL TEST REPORT

FIELD ID SW 06-20-05W1

SAMPLE ID

FIELD NAME **SW 06-20-05W1**

COUNTY

TWP

RANGE

SUBMITTED BY: DU4426

ACRES 0 SECTION QTR

PREV. CROP

W Ε S

REF # **1937287** BOX # 0

LAB# NW42039

SUBMITTED FOR:

Canada Sheep & Lamb Farms

FOUR OAK AG SOLUTION 31119 RD 27E **BOX 131**

KLEEFELD, MB **ROA 0V0**

Date Sampled 07/29/2017

Date Received 08/04/2017

Date Reported 8/4/2017

| Nutrient I | n The Soil | In | terp | retati | on | 1 s | t Cro | p Choic | e | 2n | d Cro | p Choic | е | 3 | rd C | rop Cho | ice |
|---|------------------------------|-------|-------|---|-------|-------------------------------|-------|------------|--------------|-------------------------------|--------|----------------------|--------------|-------------------------------|---------------|------------------|-------------|
| | | VLow | Low | Med | High | | Corr | n-Grain | | | Corn- | Silage | | | | | |
| 0-6" 6-24" | 20 lb/ac 24 lb/ac | | | | | | YIELI | D GOAL | | | YIELD | GOAL | | | YIE | LD GOAL | |
| 0-24 | 24 lb/ ac | ***** | *** | | | | 140 | BU | | | 15 | Tons | | | | | |
| 0-24'' | 44 lb/ac | | | | | SUG | GESTE | O GUIDELIN | NES | SUG | GESTED | GUIDELIN | IES | SU | GGEST | ED GUIDE | LINES |
| Nitrate | | | | | | | Bro | adcast | | | Broa | dcast | | | | | |
| | | | | | | LB/A | CRE | APPLICA | TION | LB/A | CRE | APPLICA ⁻ | TION | LB | /ACRE | APPLI | CATION |
| Olsen Phosphorus | 5 ppm | ***** | ** | | | N | 124 | | | N | 112 | | | N | | | |
| Potassium | 291 ppm | **** | **** | ***** | ***** | P ₂ O ₅ | 108 | Broadca | ast | P ₂ O ₅ | 102 | Broadca | est | P ₂ O ₅ | | | |
| Chloride | | | | | | K ₂ O | 10 | Band (2 | (2) * | K ₂ O | 10 | Band (2) | (2) * | K ₂ O | | | |
| 0-6" 6-24" | 120 +lb/ac 360 +lb/ac | | | | | CI | | | | CI | | | | CI | | | |
| Sulfur | | | | | | S | 0 | | | S | 0 | | | S | | | |
| Boron | | | | | | В | | | | В | | | | В | | | |
| Zinc | 2.98 ppm | ***** | **** | * ***** | ***** | Zn | 0 | | | Zn | 0 | | | Zn | | | |
| Iron | | | | | | Fe | | | | Fe | | | | Fe | | | |
| Manganese Copper | | | | | | Mn | | | | Mn | | | | Mn | | | |
| Magnesium | 1.73 ppm | ***** | ***** | * ***** | * | Cu | 0 | | | Cu | 0 | | | Cu | | | |
| Calcium | | | | | | Mg | | | | Mg | | | | Mg | | | |
| Sodium | | | | | | Lime | | | | Lime | | | | Lime | | | |
| Org.Matter | 9.9 % | ***** | **** | * ***** | ***** | Linie | | | | | | 0/ 5 | | | | | |
| Carbonate(CCE) | 2.2 70 | | | | | Soil p | он в | Buffer pH | Cat | ion Excl | | % Ba % Ca | se Sa % N | | on (Ty % K | pical Ra % Na | nge) % H |
| 0-6" 6-24" Sol. Salts | 1.55 mmho/cm 1.07 mmho/cm | | | * | | 0-6" 7 | _ | | | Cupucii | -1 | 70 Ca | -70 1 | 19 | 70 K | 70 Nd | 70 11 |

Crop 1: * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 56 K2O = 38 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

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 * | | | | | * For beef, dairy, bison and horse |
| Feeder/heifer/steer (600 lb.) | | 5 | 9 | - | enterprises: Use summer numbers if |
| Feeder (900 lb.) | | 7 | 12 | - | |
| Feeder (1250 lb.) | | 10 | 15 | - | appropriate for the operation. |
| Cow/calf pair | | 12 | 15 | - | Otherwise base projections on winter values. |
| Dry milking cow ** | | 10 | 12 | - | Always use the greater of the |
| Lactating cow ** | | 25 | 30 | - | two values. |
| Bison | | 8 | 10 | - | two values. |
| Horses | | | | | |
| Horses | | 8 | 11 | - | |
| Hogs | | | | | ** For intensive Dairy operations |
| Sow (Farrow/wean) | | 6 | .5 | - | please use the Dairy Barn Water |
| Dry Sow/Boar | | 4 | 4 | - | Requirement Estimator found on |
| Feeder | | ; | 3 | - | separate sheet. |
| Nursery (33 lb.) | | | 2 | - | |
| Chickens | | | | | |
| Broilers | | 0.0 | 35 | - | |
| Roasters/Pullets | | 0. | 04 | - | |
| Layers | | 0.0 |)55 | - | |
| Breeders | | 0. | 07 | - | |
| Turkeys | | | | | |
| Turkey Growers | | 0. | 13 | - | |
| Turkey Heavies | | 0. | 16 | - | |
| Sheep/Goats | | | | | |
| Sheep/Goats | 375 | | 2 | 750 | |
| Ewes/Does | 30,000 | | 3 | 90,000 | |
| Lambs/Kids (90 lb.) | 17,091 | 1 | .6 | 27,346 | Enter this number on page |
| | | TOTAL | (IG/day) | 118,096 | 7 of Application Form. |
| | *** | TOTAL with 10 | % wash water | 129,906 4 | |
| *** 10% of the total is added to allow | 1 ' | | | | |
| for wash water | | | | | |
| | ' | T I | nit Conversio | ne | |
| | | | int Conversion | 113 | |
| | | Total per day | Total per year | Unit | |
| Other consumption: | | 129,906 | 47,415,690 | IG | |
| Normal household consumption: | | | | litres | Enter this number on page |
| 60-75 IG/day per person or | | | | cubic | 7 of Application Form. |
| (272-340 l/day/person) | | | | decametres (dam³) | |

Conversion Factor: 1 IGPM = 4.546 I/m

LOCATION: NW14-19-5W

Well_PID: 20575 Owner: F EINARSON

Driller: FJELDSTED, RICHARD G.

Well Name:

PRODUCTION Well Use: Water Use: Domestic UTMX: 566536.952 UTMY: 5609745.19 Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1973 Mar 10

WELL LOG

From To Log

(ft.) (ft.)

0 20.0 GREY CLAY 20.0 35.0 GRAVEL& BOULDERS 35.0 64.0 BROWN CLAY& SAND

WELL CONSTRUCTION

To Casing Inside Outside Slot Type Material (ft.) Type Dia.(in) Dia.(in) Size(in) From

(ft.) (ft.) Type

64.0 casing

GALVANIZED

Top of Casing: ft. below ground

PUMPING TEST

Date:

Pumping Rate: 5.0 Imp. gallons/minute Water level before pumping: 10.0 ft. below ground Pumping level at end of test: 22.0 ft. below ground

Test duration: 2 hours, minutes

Water temperature: ?? degrees F

LOCATION: NE23-19-5W

Well_PID: 66815 Owner: R YOUNG

Driller: Manitoba Diamond Drillers Co. Ltd.

Well Name:

Well Use: PRODUCTION
Water Use: Domestic
UTMX: 567334.774
UTMY: 5611409.03
Accuracy XY: UNKNOWN

UTMZ:

Accuracy Z:

Date Completed: 1989 Apr 19

WELL LOG

From To Log

(ft.) (ft.)

0 4.0 SILT CLAY

4.0 18.0 HARDPAN SILT

18.0 68.0 SOLID WHITE LIMESTONE

68.0 126.9 LAYER LIME AND RED FORMATION

126.9 146.9 FRACTURED LIMESTONE

WELL CONSTRUCTION

From To Casing Inside Outside Slot Type Material (ft.) (ft.) Type Dia.(in) Dia.(in) Size(in)

0 42.0 casing 4.00 INSERT

GALVANIZED

42.0 146.9 open hole 4.00

Top of Casing: ft. below ground

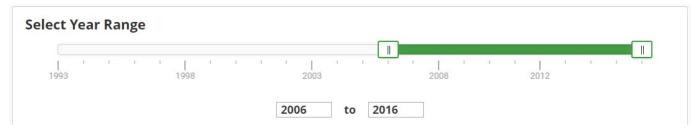
PUMPING TEST

Date: 1989 Apr 19

Pumping Rate: 14.0 Imp. gallons/minute Water level before pumping: 16.0 ft. below ground Pumping level at end of test: 16.0 ft. below ground

Test duration: 1 hours, minutes

Water temperature: ?? degrees F





| Year ÷ | Muni ÷ | Crop ÷ | Soil ÷ | Farms ÷ | Acres ÷ | Yield/acre _ (metric) | Yield/acre ≑ (imperial) | Nitrogen ≑ (lbs) | Phosphorus + (lbs) | Potassium ¢ (lbs) | Sulphur ¢ (lbs) |
|--------|----------|---------|--------|---------|---------|--------------------------|----------------------------|---------------------|--------------------|----------------------|--------------------|
| 2006 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | <u>:</u> | ; |
| 2006 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | ıum Tolerance | e *** | | |
| 2007 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2007 | Coldwell | Alfalfa | I | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2008 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2008 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2009 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2009 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | um Tolerance | 9 *** | | |
| 2010 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2010 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2012 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2014 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2014 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2015 | Coldwell | Alfalfa | Н | | | ** | * Below Minim | um Tolerance | 9 *** | | |
| 2015 | Coldwell | Alfalfa | ı | | | ** | * Below Minim | um Tolerance | e *** | | |
| 2016 | Coldwell | Alfalfa | 1 | | | ** | * Below Minim | um Tolerance | e *** | | |



Search Summary

10 records returned

15 farm varieties grown on 1,192.0 acres

Average Yield

10.102 Tonnes (11.133 Tons) per acre

Average Fertilizer Application

Nitrogen: 104.0 lbs per acre Phosphorus: 49.5 lbs per acre Potassium: 9.2 lbs per acre Sulphur: 5.9 lbs per acre

| Year ÷ | Muni ÷ | Crop ÷ | Soil ÷ | Farms ÷ | Acres + | Yield/acre _ (metric) | Yield/acre ≑ (imperial) | Nitrogen ≑ (lbs) | Phosphorus \$ (lbs) | Potassium + | Sulphur ¢ (lbs) | | | |
|--------|----------|-------------|--------|---------|---------------------------------|--------------------------|----------------------------|---------------------|---------------------|-------------|--------------------|--|--|--|
| 2007 | Coldwell | Silage Corn | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2008 | Coldwell | Silage Corn | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2011 | Coldwell | Silage Corn | I | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2012 | Coldwell | Silage Corn | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2013 | Coldwell | Silage Corn | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2013 | Coldwell | Silage Corn | ı | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2014 | Coldwell | Silage Corn | Н | | | ** | * Below Minim | um Tolerance | *** | | | | | |
| 2015 | Coldwell | Silage Corn | Н | | | ** | * Below Minim | um Tolerance | *** | | | | | |
| 2015 | Coldwell | Silage Corn | I | | | ** | * Below Minim | um Tolerance | *** | | | | | |
| 2016 | Coldwell | Silage Corn | Н | | | ** | * Below Minim | um Tolerance | *** | | | | | |



Search Summary 22 records returned

77 farm varieties grown on 8,744.0 acres

Average Yield

1.349 Tonnes (1.487 Tons) per acre

Average Fertilizer Application

Nitrogen: 18.1 lbs per acre Phosphorus: 40.5 lbs per acre Potassium: 12.0 lbs per acre Sulphur: 3.8 lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

| Year ÷ | Muni ÷ | Crop ÷ | Soil ÷ | Farms ÷ | Acres ÷ | Yield/acre _ (metric) | Yield/acre | Nitrogen ≑ (lbs) | Phosphorus ¢ | Potassium ¢ (lbs) | Sulphur ¢ (lbs) |
|--------|----------|-----------------------|--------|---------|---------|--------------------------|------------|---------------------|--------------|----------------------|--------------------|
| 2007 | Coldwell | Alfalfa/Grass Mix. | Н | 5 | 720.0 | 1.651 Tonnes | 1.820 Tons | 34.1 | 50.8 | 20.0 | 5.2 |
| 2014 | Coldwell | Alfalfa/Grass Mix. | I | 5 | 621.0 | 1.598 Tonnes | 1.761 Tons | 23.6 | 35.2 | 19.6 | 6.3 |
| 2007 | Coldwell | Alfalfa/Grass Mix. | I | 7 | 691.0 | 1.448 Tonnes | 1.596 Tons | 35.8 | 45.4 | 19.5 | 4.3 |
| 2010 | Coldwell | Alfalfa/Grass Mix. | I | 5 | 817.0 | 1.431 Tonnes | 1.576 Tons | 10.3 | 41.4 | 15.3 | 3.4 |
| 2006 | Coldwell | Alfalfa/Grass Mix. | Н | 5 | 628.0 | 1.396 Tonnes | 1.539 Tons | 14.4 | 44.3 | 9.9 | 1.8 |
| 2010 | Coldwell | Alfalfa/Grass Mix. | Н | 4 | 500.0 | 1.161 Tonnes | 1.279 Tons | 12.2 | 42.7 | 11.5 | 2.4 |
| 2013 | Coldwell | Alfalfa/Grass Mix. | I | 4 | 556.0 | 1.050 Tonnes | 1.157 Tons | 12.4 | 38.0 | 3.4 | 2.5 |
| 2012 | Coldwell | Alfalfa/Grass Mix. | I | 3 | 810.0 | 0.919 Tonnes | 1.013 Tons | 16.5 | 42.5 | 3.0 | 4.3 |



Search

Search Summary

16 records returned

31 farm varieties grown on 2,827.0 acres

Average Yield

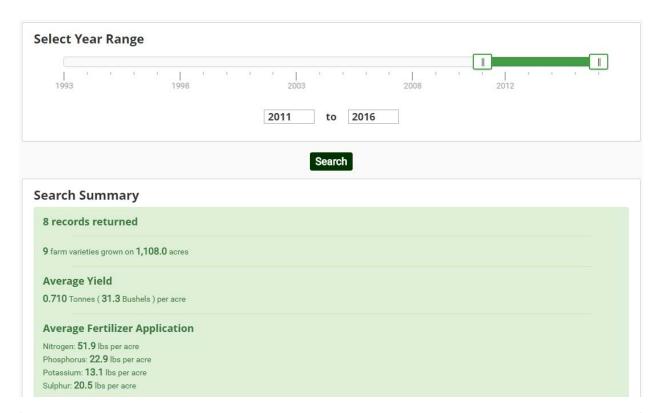
0.854 Tonnes (55.3 Bushels) per acre

Average Fertilizer Application

Nitrogen: 38.9 lbs per acre Phosphorus: 30.5 lbs per acre Potassium: 11.2 lbs per acre Sulphur: 3.5 lbs per acre

Summary includes aggregate data from 'below minimum tolerance' records

| Year + | Muni ÷ | Crop ÷ | Soil ÷ | Farms ÷ | Acres ÷ | Yield/acre _ (metric) | Yield/acre ≑ (imperial) | Nitrogen ≑ (lbs) | Phosphorus \$ (lbs) | Potassium ÷ (lbs) | Sulphur \$ (lbs) | | | |
|--------|----------|--------|--------|---------|---------------------------------|--------------------------|----------------------------|---------------------|---------------------|----------------------|---------------------|--|--|--|
| 2006 | Coldwell | Oats | ı | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2007 | Coldwell | Oats | Н | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2007 | Coldwell | Oats | ı | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2008 | Coldwell | Oats | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2008 | Coldwell | Oats | ı | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2009 | Coldwell | Oats | ı | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2010 | Coldwell | Oats | I | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2012 | Coldwell | Oats | Н | | *** Below Minimum Tolerance *** | | | | | | | | | |
| 2012 | Coldwell | Oats | ı | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2013 | Coldwell | Oats | I | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2014 | Coldwell | Oats | Н | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2015 | Coldwell | Oats | Н | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2015 | Coldwell | Oats | ı | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2016 | Coldwell | Oats | Н | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2016 | Coldwell | Oats | ı | | | ** | * Below Minim | num Tolerance | *** | | | | | |
| 2013 | Coldwell | Oats | Н | 3 | 510.0 | 1.421 Tonnes | 92.1 Bushels | 28.4 | 23.3 | 9.2 | 4.6 | | | |



| Year ÷ | Muni ÷ | Crop ÷ | Soil ÷ | Farms ÷ | Acres ÷ | Yield/acre _ (metric) | Yield/acre | Nitrogen + (lbs) | Phosphorus + | Potassium \$ (lbs) | Sulphur ¢ (lbs) | | | | |
|--------|----------|---------------------|--------|---------|---------------------------------|--------------------------|---------------|---------------------|--------------|--------------------|--------------------|--|--|--|--|
| 2012 | Coldwell | Argentine Canola | F | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2012 | Coldwell | Argentine Canola | Н | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2013 | Coldwell | Argentine Canola | F | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2013 | Coldwell | Argentine Canola | G | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2013 | Coldwell | Argentine Canola | Н | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2014 | Coldwell | Argentine Canola | Н | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2015 | Coldwell | Argentine Canola | F | | *** Below Minimum Tolerance *** | | | | | | | | | | |
| 2015 | Coldwell | Argentine Canola | G | | | ** | * Below Minim | um Tolerance | *** | | | | | | |