# Down To Earth Labs Inc.

The Science of Higher Yields

Nutrien Ag Solutions
Weyburn
Box 278
Weyburn, SK S4H 2K1

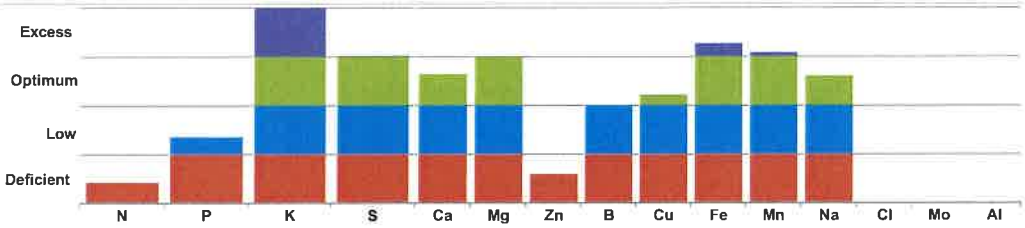
**Report # :** 95352
**Report Date:** 2020-10-27
**Received:** 2020-10-20
**Completed:** 2020-10-27
**Test Package:** SF8

**Project:**
**Grower:** Brown Family Grains
**Farm:**
**Field:** WH 5-10-20
**$H_2O$ Mgmt:** Dryland

3510 6th Ave North
Lethbridge, AB T1H 5C3
403-328-1133
www.downtoearthlabs.com
info@downtoearthlabs.com

## Soil Nutrients

| | | Macros | | | Secondary | | | Micros | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NO3-N | P | K | SO4-S | Ca | Mg | Zn | B | Cu | Fe | Mn | Na | Cl | Mo | Al |
| Lab ID | Depth | lbs/ac | lbs/ac | lbs/ac | lbs/ac | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 201020O003 | 0-12 | 13 | 34 | 1810 | 54 | 3312 | 1010 | 0.3 | 0.8 | 1.9 | 34.9 | 13.8 | 141.9 | | | |
| Available Total | | 13 | 34 | 1810 | 54 | 3312 | 1010 | 0.3 | 0.8 | 1.9 | 34.9 | 13.8 | 141.9 | | | |




## Soil Characteristics

| | | OM | Estimated N Release | pH 1:1 | Sol Salts 1:1 | Lime Req. | % Base Saturation | | | | | | ECEC | K/Mg Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID | Depth | % | lbs/ac | - | dS/m | tonne/ha | Ca | K | Mg | Na | H | Total | - | - |
| 201020O003 | 0-12 | 2.9 | 32 | 7.1 | 0.7 | 0 | 62.1 | 4.3 | 31.2 | 2.3 | 0 | 100 | 26.6 | 0.14 |

## Soil Texture Characteristics

| | Customer | Texture | Sand | Silt | Clay | CEC |
|---|---|---|---|---|---|---|
| Lab ID | Sample ID | Class | % | % | % | meq/100g |
| 201020O003 | | | | | | |

## Laboratory Guidelines

| | | | N | $P_2O_5$ | $K_2O$ | S | Zn | B | Cu | Fe | Mn |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop | Yield | Units | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre |
| Flax | 30 | Bushels | 80 | 25 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Peas, Field | 50 | Bushels | 20 | 35 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Canary Seed | 40 | Bushels | 80 | 35 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Canola, Commercial | 50 | Bushels | 140 | 35 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Lentils | 30 | Bushels | 10 | 30 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |

Notes: N rate is for canary seed following stubble. Reduce N by 35# if following grass or legume breaking.

Down to Earth Labs Ltd. Laboratory Fertilizer Guidelines are determined by subtracting the sum of the test results from the crop requirements as determined by Alberta Agriculture. Subtract nitrogen credits for legume crops from the guidelines if applicable. Estimated nitrogen release from organic matter is not considered in these guidelines.
Subtract out estimated remaining fertilizer in soil depths not tested through the root zone.
Starter fertilizers may be needed in the seed bed to assist seed development. Consult your Agronomist or Crop Advisor for a comprehensive analysis of your soil results for determining fertilizer applications.
Lime Requiremens are based on a tillage depth of 6" and are estimated based on lime with an ag index of 75. Adjust lime amount according to farming practices.
ECEC = Estimated Cation Exchange Capacity, Total %BS = Estimated Total % Base Saturation
BDL = Below Detection Limit. These results are not an endorsement of sampling methods.

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Weyburn
Box 278
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**Report # :** 67109
**Report Date:** 4/24/2019
**Received:** 4/18/2019
**Completed:** 4/24/2019
**Test Package:** SF14

**Project:**
**Grower:** Brown Family Grains
**Farm:**
**Field:** WH 5-10-20
**$H_2O$ Mgmt:** Dryland

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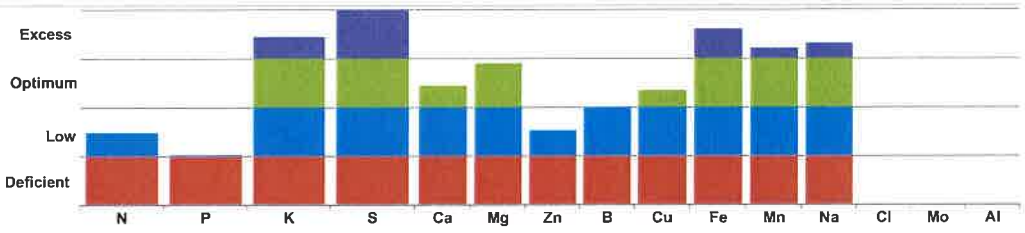
## Soil Nutrients

| | | Macros | | | Secondary | | | Micros | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NO3-N | P | K | SO4-S | Ca | Mg | Zn | B | Cu | Fe | Mn | Na | Cl | Mo | Al |
| Lab ID | Depth | lbs/ac | lbs/ac | lbs/ac | lbs/ac | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 190418N011 | 0-6 | 24 | 26 | 1005 | 65 | 2389 | 910 | 1.3 | 0.8 | 2.4 | 64.7 | 25.4 | 316 | | | |
| 190418N012 | 6-12 | 21 | | | 383 | | | | | | | | | | | |
| Available Total | | 45 | 26 | 1005 | 449 | 2389 | 910 | 1.3 | 0.8 | 2.4 | 64.7 | 25.4 | 316 | | | |

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| | | OM | Estimated N Release | pH 1:1 | Sol Salts 1:1 | Lime Req. | % Base Saturation | | | | | | ECEC | K/Mg Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab ID | Depth | % | lbs/ac | - | dS/m | tonne/ha | Ca | K | Mg | Na | H | Total | - | - |
| 190418N011 | 0-6 | 3.3 | 37 | 7 | 0.9 | 0 | 54 | 5.8 | 33.9 | 6.2 | 0 | 100 | 22.1 | 0.17 |
| 190418N012 | 6-12 | | | 7.8 | 1.7 | | | | | | | | | |

## Soil Texture Characteristics

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|---|---|---|---|---|---|---|
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| 190418N011 | | | | | | |
| 190418N012 | | | | | | |

## Laboratory Guidelines

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|---|---|---|---|---|---|---|---|---|---|---|---|
| Crop | Yield | Units | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre | lbs/acre |

Notes:

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