Farm:

Nutrien Ag Solutions

Weyburn Box 278 Weyburn, SK S4H 2K1 Report #: 95352

Report Date: 2020-10-27 Received: 2020-10-20 Grower: Brown Family Grains

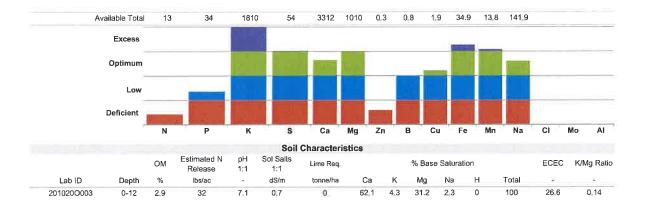
3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133

Completed: 2020-10-27 Test Package: SF8

Field: WH 5-10-20 H₂O Mgmt: Dryland

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					Soil	Nutrie	nts									
			Macros		Se	condary						Micros				
		NO3-N	Р	K	SO4-S	Ca	Mg	Zn	В	Cu	Fe	Mn	Na	CI	Мо	Al
Lab ID	Depth	lbs/ac	lbs/ac	1bs/ac	lbs/ac	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2010200003	0.12	13	3/	1810	54	3312	1010	0.3	0.8	1.0	34.0	13.8	141 9			



				Soil Tex	cture Char	acteristics
	Customer	Texture	Sand	Silt	Clay	CEC
Lab ID	Sample ID	Class	%	%	%	meq/100g

			L	aboratory	Guidelines	3					
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Zn	В	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 of applicable. Estimated introgen release from organic matter is not considered in these guidelines.
Subtract out estimated remaining fertilizer in soil dealths not tested through the coot 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 agrindex of 75. Adjust lime amount according to farming practices.
ECEC = Estimated Totals Pass Advantation

These results are not an endorsement of sampling methods.

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

Report #: 67109 Report Date: 4/24/2019 Received: 4/18/2019

Completed: 4/24/2019 Test Package: SF14

Project:

Grower: Brown Family Grains

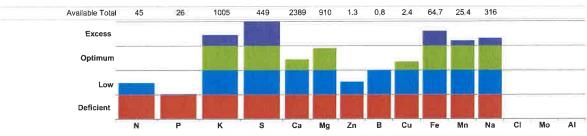
Farm:

Field: WH 5-10-20 H<sub>2</sub>O Mgmt: Dryland

3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133

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					Soil	Nutrie	nts									
			Macros		Se	condary						Micros				
		NO3-N	Р	K	SO4-S	Ca	Mg	Zn	В	Cu	Fe	Mn	Na	Cl	Мо	Al
Lab ID	Depth	lbs/ac	lbs/ac	lbs/ac	lbs/ac	ррп	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											



					Soil	Characterist	ics							
		ОМ	Estimated N Release	pH 1:1	Sol Salts 1:1	Lime Req			% Base	Satural	tion		ECEC	K/Mg Ratio
Lab ID	Depth	%	lbs/ac	-	dS/m	tonne/ha	Ca	K	Mg	Na	Н	Total	-	3
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 Tex	cture Char	acteristics		
	Customer	Texture	Sand	Silt	Clay	CEC		
Lab ID	Sample ID	Class	%	%	%	meq/100g		

190418N011

190418N012

			L	aboratory	Guidelines	3			5-4-6		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Zn	В	Cu	Fe	Mn
Crop	Yield	Units	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre

## Notes:

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.

Stater fertilizers may be needed in this seed bed to askist seed development. Cossist ty 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 Total % Base Saturation

ADL = Bellow Detection Limit.

These results are not an endorsement of sampling methods



Nutrien Ag Solutions Weyburn

Box 278 Weyburn, SK S4H 2K1 Report #: 95351

Report Date: 2020-10-27 Received: 2020-10-20

Project: Grower: Brown Family Grains

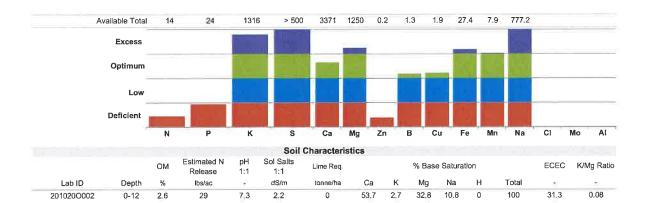
3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133 www.downtoearthlabs.com

Completed: 2020-10-27 Test Package: SF8

Field: NE 6-10-20 W2 H<sub>2</sub>O Mgmt: Dryland

info@downloearthlabs.com

					Soi	l Nutrie	nts									
			Macros		Se	condary						Micros				
		NO3-N	Р	K	SO4-S	Ca	Mg	Zn	В	Cu	Fe	Mn	Na	CI	Мо	Al
Lab ID	Depth	lbs/ac	lbs/ac	lbs/ac	lbs/ac	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2010200002	0.42	1.4	24	1216	> 600	2271	1250	0.2	1.3	1.0	27.4	7.0	777.2			



				Soil Tex	cture Char	acteristics	
	Customer	Texture	Sand	Silt	Clay	CEC	
Lab ID	Sample ID	Class	%	%	%	meq/100g	

			La	aboratory	Guidelines						
			N	$P_2O_5$	K₂O	S	Zn	В	Cu	Fe	Мл
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	35	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 rested 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,

Line Requiremens are based on a cillage depth of 6" and are estimated based on line with an ag index of 75. Adjust line amount according to farming practices.

ECEC = Estimated Tataly & Sax Statustion

BDL = Below Detection Limit

These results are not an endorsement of sampling methods.



Nutrien Ag Solutions

Weyburn Box 278

Weyburn, SK S4H 2K1

Report #: 67116

Report Date: 4/24/2019 Received: 4/18/2019

Completed: 4/24/2019 Test Package: SF14

Grower: Brown Family Grains

Farm:

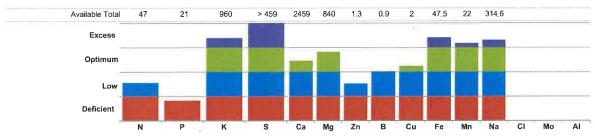
Field: NE 6-10-20 W2

H<sub>2</sub>O Mgmt: Dryland

3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133

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					Soil	Nutrie	nts									
			Macros		Se	condary						Micros				
		NO3-N	Р	K	SO4-S	Ca	Mg	Zn	В	Cu	Fe	Mn	Na	ÇI	Мо	Al
Lab ID	Depth	lbs/ac	lbs/ac	lbs/ac	lbs/ac	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
190418N025	0-6	24	21	960	59	2459	840	1.3	0.9	2	47_5	22	314_6			
190418N026	6-12	23			> 400											



					Soil	Characteris	tics							
		ОМ	Estimated N Release	рН 1:1	Sol Salts 1:1	Lime Req			% Base	e Satura	ion		ECEC	K/Mg Ratio
Lab ID	Depth	%	lbs/ac		dS/m	tonne/ha	Ca	K	Mg	Na	Н	Total	· 160	
190418N025	0-6	3.1	35	7.3	0.8	0	56.3	5.6	31.7	6.3	0	100	21.8	0.18
190418N026	6-12			7.7	2.1									

				Soil Tex	ture Char	acteristics
	Customer	Texture	Sand	Silt	Clay	CEC
Lab ID	Sample ID	Class	%	%	%	meq/100g

190418N025 190418N026

			L	aboratory	Guideline	3				7 7	
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Zn	В	Cu	Fe	Mn
Crop	Yield	Units	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre

## Notes:

Down to Earth Labs ttd. 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.

Subtract out estimated remaining fertilizer in soil depths not tested through the root zone.

Starter fertilizers may be needed in this 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 Totals Mass Sastruation

These results are not an endorsement of sampling methods.

Nutrien Ag Solutions Weyburn

Box 278

Weyburn, SK S4H 2K1

Report #: 67110

Report Date: 4/24/2019 Received: 4/18/2019

Completed: 4/24/2019

Grower: Brown Family Grains

Project:

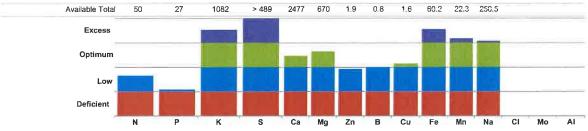
Field: NE 5-10-20 W2

3510 6th Ave North Lelhbridge, AB T1H 5C3 403-328-1133

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H<sub>2</sub>O Mgmt: Dryland Test Package: SF14

					Soil	Nutrie	nts										
			Macros	Se	Secondary			Micros									
		NO3-N	Р	K	SO4-S	Ca	Mg	Zn	В	Cu	Fe	Mn	Na	CI	Мо	Al	
Lab ID	Depth	lbs/ac	lbs/ac	lbs/ac	lbs/ac	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppn	
190418N013	0-6	27	27	1082	89	2477	670	1,9	0.8	1_6	60.2	22.3	250.5				
190418N014	6-12	23			> 400												



					Soil	Characteris	tics							
		ОМ	Estimated N Release	р <b>Н</b> 1:1	Sol Salls 1:1 Lime Req. % Base Saturation							ECEC	K/Mg Ratio	
Lab ID	Depth	%	lbs/ac	(*)	dS/m	tonne/ha	Ca	K	Mg	Na	Н	Total	*	*
190418N013	0-6	3,5	39	7.1	0,9	0	60.8	6.8	27.1	5.4	0	100	20.3	0.25
190418N014	6-12			7,4	3.1									

				Soil Tex	cture Chara	acteristics
	Customer	Texture	Sand	Silt	Clay	CEC
Lab ID	Sample ID	Class	%	%	%	meq/100g

190418N013 190418N014

		-	L	aboratory	Guideline	s	-			107	5
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Zn	В	Cu	Fe	Mn
Crop	Yield	Units	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre	lbs/acre

## Notes:

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 zons.

Starter fertilizers may be needed in this seed bed to askifs seed development. Consult your Agronomats 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 a gindex of 75. Adjust lime amount according to farming practices.

ECCE - Estimated Total & Base Saturation

These results are not an endorsement of sampling methods



Nutrien Ag Solutions

2010200011

Weyburn Box 278 Weyburn, SK S4H 2K1 Report #: 95360

Test Package: SF8

41

39

0-12

Report Date: 2020-10-27 Received: 2020-10-20 Completed: 2020-10-27 Project:

Grower: Brown Family Grains

Farm:

Field: SE 8-10-20 H₂O Mgmt: Dryland

2651

810

0.5

0.7

1.4

35.9

12.3

3510 6th Ave North Lelhbridge, AB T1H 5C3 403-328-1133

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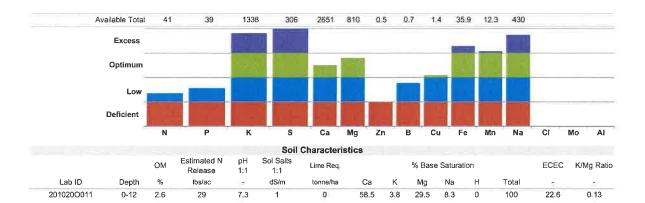
430

Мо

**Soil Nutrients** Macros Micros Secondary NO3-N Р CI Κ SO4-S Ca Zn Cu Mn Na Mg Lab ID Depth lbs/ac lbs/ac lbs/ac lbs/ac ppm ppm ppm ppm

306

1338



				Soil Tex	cture Chara	acteristics
	Customer	Texture	Sand	Sill	Clay	CEC
Lab ID	Sample ID	Class	%	%	%	meq/100g

			La	aboratory	Guidelines						
			N	$P_2O_5$	K <sub>2</sub> O	S	Zn	В	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	50	25	0	0	3	1	0	0	0
Peas, Field	50	Bushels	0	30	0	0	3	<b>ા</b>	0	0	0
Canary Seed	40	Bushels	50	35	0	0	3	1	0	0	0
Canola, Commercial	50	Bushels	110	35	0	0	3	849	0	0	0
Lentils	30	Bushels	0	30	0	0	3	1	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 ttd. 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 of applicable. Estimated mirrogen release from organic matter is not considered in these guidelines.

Subtract suit estimated remaining, fertilizer in said depths not tested through the roat zone.

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Lime Requiremens are based on a tillage depth of 6" and are estimated based on lime with an agindex of 75. Adjust lime amount according to farming practices.

ECEC = Estimated Totals (Asthon Exchange Capacity, Total 1485 = Estimated Totals 8 Base Saturation

Thisse results are not an endorsement of sampling methods.