

## Farm Soil Analysis

Bill To:	The Black Dirt Company	Grower Name:	THE BLACK DIRT COMPANY	Lot ID:	1810510
Address:	300 Saskatchewan Ave Spruce Grove, AB., Canada	Site ID:		Report Number:	3131690
		Field Name:	CW TOPSOIL EAST BFRM	Report Type:	Final Report
		Acres:		Date Received:	Apr 29, 2025
Agreement:	103185	Legal Location:		Date Reported:	May 01, 2025
		Previous Crop:	Crop not provided	Event Code:	

Nutrient analysis (ppm)														Soil Quality			
Depth	N*	P	K	S**	Ca	Mg	Fe	Cu	Zn	B	Mn	Cl	Na	pH	EC(dS/m)	OM(%)	Lot Ref #
0" - 6"	37	27	136	43	3000	313	53.9	0.3	2.2	0.8	2.0	37	83	7.5	0.92	4.7	25804
Excess														Alkaline	Extreme	High	
Optimum														Neutral	Very High	Normal	
Marginal														Acidic	High	Low	
Deficient														Very Acidic	Good	Very Low	
Total lbs/acre	74	55	271	85	Texture <u>Loam</u> Hand Texture <u>n/a</u>						BS 100 % CEC 18.3 meq/100 g						
					Sand 45.0 % Silt 38 % Clay 17 %						Ca 82.0 % Mg 14.1 % Na 2.0 % K 1.9 %						
Estimated lbs/acre	151	55	271	174	Ammonium n/a						TEC 18.3 meq/100 g						
					Lime n/a Buffer pH n/a						K/Mg Ratio 0.13						

\*Nitrate-N \*\*Sulfate-S n/a = not analysed

### RECOMMENDATIONS FOR BALANCED CROP NUTRITION

Crop not provided					
Macro-nutrients	Yield	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S
Growing Condition	To be added (lbs/acre)				
Excellent					
Average					
Your Goal					
Removal Rate (Seed/Total)					
Micro-nutrients	Iron	Copper	Zinc	Boron	Manganese
To be added (lbs/ac)					

Comments:

Element uses nutrient extraction and analytical methods specifically developed for western Canadian soils.

The modified Kelowna extractant used to analyze key nutrients in this Farm Soil Analysis report is the standard method used in soil fertility research in western Canada. It is used in developing crop response curves to fertilizer in the prairies. The Element "RECOMMENDATIONS FOR BALANCED CROP NUTRITION" are based on those research data. Element recommendations are accurate but should not replace responsible judgement.

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Bill To:	The Black Dirt Company	Grower Name:	THE BLACK DIRT COMPANY	Lot ID:	1810510
Address:	300 Saskatchewan Ave Spruce Grove, AB., Canada	Site ID:		Report Number:	3131691
		Field Name:	CW TOPSOIL WEST BFRM	Report Type:	Final Report
		Acres:		Date Received:	Apr 29, 2025
Agreement:	103185	Legal Location:		Date Reported:	May 01, 2025
		Previous Crop:	Crop not provided	Event Code:	

Nutrient analysis (ppm)														Soil Quality			
Depth	N*	P	K	S**	Ca	Mg	Fe	Cu	Zn	B	Mn	Cl	Na	pH	EC(dS/m)	OM(%)	Lot Ref #
0" - 6"	22	45	77	8	1600	152	49.7	0.2	0.8	0.3	2.8	7.2	32	6.8	0.31	2.0	25805
Excess														Alkaline	Extreme	High	
Optimum														→ Neutral	Very High	→ Normal	
Marginal														Acidic	High	Low	
Deficient														Very Acidic	→ Good	Very Low	
Total lbs/acre	44	89	153	16	Texture <u>Sandy Loam</u> Hand Texture <u>n/a</u>						BS   100 %      CEC 9.6 meq/100 g						
					Sand   60.0 %		Silt   28.0 %		Clay   12.5 %		Ca   83.4 %      Mg   13.1 %      Na   1.5 %      K   2.1 %						
Estimated lbs/acre	89	89	153	32	Ammonium                      n/a						TEC   9.6 meq/100 g						
					Lime   n/a		Buffer pH   n/a		K/Mg Ratio   0.16								

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### RECOMMENDATIONS FOR BALANCED CROP NUTRITION

Macro-nutrients	Crop not provided				
	Yield	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S
Growing Condition		To be added (lbs/acre)			
Excellent					
Average					
Your Goal					
Removal Rate (Seed/Total)					
Micro-nutrients	Iron	Copper	Zinc	Boron	Manganese
To be added (lbs/ac)					

Comments:

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Bill To:	The Black Dirt Company	Grower Name:	THE BLACK DIRT COMPANY	Lot ID:	1810510
Address:	300 Saskatchewan Ave Spruce Grove, AB., Canada	Site ID:		Report Number:	3131692
		Field Name:	CW TOPSOIL PRESCOTT	Report Type:	Final Report
		Acres:		Date Received:	Apr 29, 2025
Agreement:	103185	Legal Location:		Date Reported:	May 01, 2025
		Previous Crop:	Crop not provided	Event Code:	

Nutrient analysis (ppm)														Soil Quality			
Depth	N*	P	K	S**	Ca	Mg	Fe	Cu	Zn	B	Mn	Cl	Na	pH	EC(dS/m)	OM(%)	Lot Ref #
0" - 6"	21	10	97	166	5850	376	78.7	0.8	2	1.6	6.2	19	95	8.1	1.8	5.3	25806
Excess	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>													Alkaline	Extreme	High	
Optimum														Neutral	Very High	Normal	
Marginal														Acidic	High	Low	
Deficient														Very Acidic	Good	Very Low	
Total lbs/acre	42	21	193	332	Texture <i>Loam</i> Hand Texture <i>n/a</i>						BS 100 % CEC 32.9 meq/100 g						
					Sand 39.0 %	Silt 36.0 %	Clay 25.2 %	Ca 88.6 % Mg 9.4 % Na 1.3 % K 0.8 %									
Estimated lbs/acre	85	21	193	675	Ammonium <i>n/a</i>						TEC 32.9 meq/100 g						
					Lime <i>n/a</i>	Buffer pH <i>n/a</i>				K/Mg Ratio 0.08							

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### RECOMMENDATIONS FOR BALANCED CROP NUTRITION

Crop not provided					
Macro-nutrients	Yield	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S
Growing Condition	To be added (lbs/acre)				
Excellent					
Average					
Your Goal					
Removal Rate (Seed/Total)					
Micro-nutrients	Iron	Copper	Zinc	Boron	Manganese
To be added (lbs/ac)					

Comments:

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