

# Western Laboratories, Inc.

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Methods: [www.westernlaboratories.com/soil.htm](http://www.westernlaboratories.com/soil.htm)

## AGRICULTURAL SOIL REPORT

PAP-Accredited



Dealer: 2-22

Reported: 4-15-2019

Test #: 1

Grower: CHS

Field ID: Kansas

Lab #:

16064

ELEMENT	YOUR RESULTS	INTERP	SHOULD BE		NO3 ppm	NH4 ppm	CATION BASES	IDEAL	YOUR % BASES
pH-Your Soil	7.5	Slightly Basic		1 Ft	17	3	CALCIUM % of CEC	65-80	107
pH-Buffer*				2 Ft			MAGNESIUM % of CEC	10-20	13
Soluble Salts Ec-mmhos/cm	0.83	Optimum	< 1.5	3 Ft			POTASSIUM % of CEC	2-6	5
% Lime Ca CO3	M	3.1 to 5.5 % lime		Total PPM		20	SODIUM % of CEC	< 5	4
% Organic Matter-LOI	1.78	Low		Lbs N / Acre*		60	HYDROGEN % of CEC	< 15	
Nitrates-ppm NO3-N	17	Optimum	10 - 35	Your Texture					
Ammonium-ppm NH4-N	3	Low	5 +	Silt Loam			CEC		20
Phosphorus-ppm Olsen-P	25	Low	25 - 40	% Base Saturation		128	P Index		100
Phos-ppm Bray-P*			50 - 100	<b>FERTILIZER SUGGESTIONS IN POUNDS/ACRE BASED ON YOUR CROP &amp; YIELD GOAL</b>					
Potassium-ppm K	393	Optimum	300 +	Crop	Hemp				
Sulfates-ppm SO4-S	182	Very High	20 +	Yield Goal	35	Tons			
Calcium-ppm Ca	4275	High	1,800 +	Past Crop	Hemp				
Magnesium-ppm Mg	311	Optimum	250 +	Acres			Your Notes		
Sodium-ppm Na	162	Optimum	< 225	Nitrogen	168				
Zinc-ppm Zn	4.5	High	1.0 - 3.0	Phosphate	57				
Copper-ppm Cu	1.8	Optimum	0.8 - 2.5	Potash					
Manganese-ppm Mn	3	Very Low	6 - 30	Sulfate					
Iron-ppm Fe	15	Optimum	7 +	Elem-S	268				
Boron-ppm B	0.4	Low	0.7 - 1.5	Gypsum					
Ratio	Yours	Ideal	Watch	Lime					
Ca:P pH >7	171:1	100:1	Watch P	Dolomite					
Ca:Mg	14:1	6-20:1		Magnesium					
Ca:P pH <7	:1	40:1		Zinc					
P:Zn	6:1	15:1		Manganese	6				
				Copper					
				Boron	2				

-LOI: Loss of Ignition

\*CEC-Cation Exchange Capacity

\*For acid soils pH <6.5

\*Phosphate-P205 / Potash-K20

-Split apply Nitrogen fertilizer

\*Add 15 pounds N/Ton Stubble

-Nitrogen (N) Sulfates and Boron (B) recs are for this crop year at your yield

-Other nutrient recs can be split over 2- years. Work with your crop advisor

Elemental Sulfur = Reclamation Sulfur P.F. Sulfur = Plant Food Sulfur

PPM K / 390 = Meg

PPM Mg / 120 = Meg

PPM Ca / 200 = Meg

PPM Na / 230 = Meg

*"Always practice the laws of Agronomy" - John P. Taberna, Soil*