

Interpreting Soil Reports

pH – Optimum range for most crops is 6.0 to 7.5, where most nutrients have highest availability

Buffer pH – the ‘reserve’ acidity. Lime recs are based on BpH

P – building and maintaining near 40 ppm is optimal

K- building and maintaining near 150 ppm is optimal

Mg – maintain at >100 ppm or 2x potassium

Ca – usually adequate when pH is in range



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Report # 368430

AgTest Farm Soil Report

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Zn & Mn Index – a calculated value that considers pH, as these 2 nutrients are less available as pH rises. Less than 15 is generally too low

Cu, Fe, B – often adequate for most rotational crops. Beware toxicity

K:Mg - <0.5 is optimum, >1 inhibits Mg uptake

Sample ID	Lab #	pH	BpH	Total Salts (mmhos/cm)	Organic Matter (%)	Nitrogen NO3-N (ppm)	Phosphorus - P (ppm)		Potassium K (ppm)	Magnesium Mg (ppm)	Calcium Ca (ppm)			
1	2465111	6.7			3.1		10 MR		124 LR	393 LR	2024			
2	2465112	6.3	6.7		3.2		14 MR		78 MR	246 MR	1575			
3	2465113	6.2	6.7		3.0		36 RR		195 RR	106 RR	874			
Sample ID	Zinc Zn (ppm)	Zn Index	Manganese Mn (ppm)	Mn Index	Copper Cu (ppm)	Iron Fe (ppm)	Boron B (ppm)	Texture	Cation Exchange MEQ/100g	K%	Base Saturation Mg% Ca% H%			
1	0.7 D	15.9	27.8 H	19.7	0.8 H	112.9 E	0.37 L	M	14.9	2.1	22.0 67.9 8.0			
2	0.6 D	18.5	11.4 MH	20.3	1.1 H	55.1 H	0.35 L	M	11.3	1.8	18.1 69.5 10.6			
3	1.3 LM	22.5	13.6 H	22.5	0.7 H	47.2 H	0.35 L	C	7.0	7.2	12.7 62.8 17.3			
Sample ID	Sodium Na (ppm)	Sulphate SO4 (ppm)	Chloride Cl (ppm)	Aluminum Al (ppm)	K/Mg Ratio	Exchangeable Acidity								
1					0.3									
2					0.3									
3					1.8									
Sample ID	Crop to be Grown	Yield Goal	N Rec	P2O5 Removal Rec	K2O Removal	Magnesium	Calcium	(lb/ha)	Zinc	Manganese	Copper	Iron	Boron	Lime (t/ha)
1	soybeans corn wheat, winter	65 bu/ac 150 bu/ac 80 bu/ac	155	27 55	38 91				6.0 3.0					
2	corn, sweet peas	5 ton/ha 1 ton/ha	150 14	36 7	74 25				5.0 5.0	1.0 1.0				
3	corn wheat, winter	150 bu/ac 80 bu/ac	150 75	61 47	42 32	19 19			1.0 1.0	1.0 1.0				

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These results pertain solely to the sample(s) received by the laboratory.

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Response Ratings
HR = high
MR = moderate
LR = low
RR = rare
NR = no response

CEC – the ability of a soil to attract and hold cations. Sand is low, clay is high, OM influences higher

OMAFRA Recommendations are a ‘Sufficiency’ approach, suggesting the best annual crop-specific rate.

AFL Recommendations are designed to build and maintain soil test values. Shown in 2 portions, ‘Removal’ (yield x removal factor) and ‘Rec’ which is a build rate when added to removal rate.

OMAFRA Recs are Kg/Ha of actual nutrient. Divide by guaranteed analysis of a product to calculate kg of product to apply per hectare. Multiply by 0.89 to convert to lbs/acre.

AFL/SGS Recommendations are Lbs/Ac of actual nutrient. Divide by guaranteed analysis of a product to calculate pounds of product to apply per acre.