

## Quick Reference Sheet

This quick reference sheet will help you understand the NutriScan results; aiding you to easily develop solid nutrient recommendations for your customer or farm.

### Macronutrient Attention Levels

Parameter	Level	PPM
Phosphorus (P) - Olsen	Low	0 - 19
	Optimal	20 - 35
	High	36+
Phosphorus (P) - Bray <sup>1</sup>	Low	0 - 39
	Optimal	40 - 60
	High	61+
Potassium (K)	Low	0 - 199
	Optimal	200 - 400
	High	401+
Magnesium (Mg)	Low	0 - 212
	Optimal	213 - 320
	High	321+
Calcium (Ca)	Low	0 - 2945
	Optimal	2946 - 4419
	High	4420+

### Soil Texture as Estimated by CEC

Soil Texture	CEC
Sand	0-4
Loamy Sand	4-7
Sandy Loam	7-10
Silt	9-13
Loam	11-15
Sandy Clay Loam	12 - 25
Silt Loam	13 - 17
Sandy Clay	13 - 25
Clay Loam	14 - 24
Silty Clay Loam	15 - 25
Silty Clay	19 - 27
Clay	25 - 34

### Conversion to Pounds Per Acre:

NutriScan Phosphorus (P) Olsen PPM x **2.48** = #/ac P<sub>2</sub>O<sub>5</sub> (Alkaline Soils)

NutriScan Phosphorus (P) Bray PPM x **1.36** = #/ac P<sub>2</sub>O<sub>5</sub> (Acidic Soils)

NutriScan Potassium -(exch.) PPM x **1.85** = #/ac K<sub>2</sub>O

NutriScan Total-S PPM x **0.6** = #/ac of available Sulphate-S

### Micronutrient Attention Levels

Micronutrient	Attention Level (ppm)
Zinc (Zn)	Low: 0 - 2.0
	Optimal: 2.1 - 6.0
	High: 6.1+
Manganese (Mn)	Low: 0-39.9
	Optimal: 40 - 78
	High: 78.1+

Micronutrient	Attention Level (ppm)
Copper (Cu)	Low: 0 - 1.0
	Optimal: 1.1 - 1.9
	High: 2.0+
Boron (B)	Low: 0 - 0.9
	Optimal: 1.0 - 2.0
	High: 2.1+

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### K/Mg Attention Levels

Parameter	Level	PPM
K/Mg	Low	<0.30
	Optimal	0.31 - 0.40
	High	0.41+

### Base Saturation (% Cations) Attention Levels for Given CEC

	CEC			
	0 - 5	6 - 13	14 - 21	22+
% K Saturation	6 - 9	5 - 8	3 - 6	3 - 5
% Mg Saturation	10 - 21	8 - 21	5 - 21	5 - 21
% Ca Saturation	65 - 86	65 - 86	65 - 86	65 - 86

### Optimal Ca:Mg Ratio for Given CEC

	CEC		
	< 6	6 - 21	> 21
Ca:Mg Ratio	3:1	5:1	6:1

### Soil Optimum Nutrient Treshhold Based on g/kg

Parameter	Level	g/kg
Total Aluminum (Al)	Low	0 - 93
	Optimal	94 - 115
	High	116+

Parameter	Level	g/kg
Total Iron (Fe)	Low	0-3.7
	Optimal	3.8 - 7.5
	High	7.6+