

Low zinc movement, even though sufficient levels in base saturation. Form of manganese being chemical rather than enzyme from RoundUp

Soil Nutrient Parameters	Results (ppm)	Target Range (low)	Target Range (high)	Low	Target
pH	5.82				
Microbial Respiration	34	100.00	200.00		
<b>PLANT AVAILABLE NUTRIENTS</b>					
Nitrate Nitrogen	113.80	158.60	171.60		
Ammonium Nitrogen	6.40	5	7		
Total Nitrogen	133.00	90	140		
Inorganic Phosphorus	4.50	8	10		
Potassium	9.44	28	34		
Calcium	47.91	216	270		
Magnesium	19.14	20	35		
Sodium	7.02	8.00	10.00		
Sulfur	16.91	18	23		
Zinc	0.62	0.72	0.88		
Manganese	1.30	0.80	1.03		
Iron	14.30	4.05	4.95		
Copper	0.15	0.20	0.24		
Boron	0.13	0.31	0.39		
Molybdenum	0.000	0.04	0.06		
Silicon	9.09	9.99	12.21		
Chloride	2.35	5.97	7.63		
<b>ORGANIC FRACTIONS</b>					
Total Organic Carbon	175.00	200.0	400.0		
Root Exudate Nitrate Nitrogen	29.85	23.72	28.99		
Root Exudate Ammonium	7.90	5.00	7.00		
Total Organic Phosphorus	3.41	12.71	15.53		
Humic Acid (Oxidized)	0.18	0.80	2.20		
Fulvic Acid (Reduced)	0.81	2.20	3.20		

	Base Saturation	Target
K	5.3%	6-15
Mg	35.1%	20-25
Ca	52.8%	60-75
Na	6.7%	2-3
Mn <sup>3+</sup>	11.7%	5-6
Fe <sup>2+</sup>	84.4%	45-55
Fe <sup>3+</sup>	89.0%	55-60
Cu <sup>2+</sup>	0.8%	1-2
Zn <sup>2+</sup>	3.1%	3-4
Mo	0.00%	0.1-0.3