

Test: Veggie Garden Dec. 2017

Sample depth: 15 cm

Total Exchange Capacity (M.E): 26.28

pH: 6.9

Organic Matter %:11.32

			Current level in: p.p.m.	Current level in Kg/Ha (=2.24 x p.p.m.)	Target Level	Target Level in Kg/Ha	Deficit	Excess	Deficit in g/m ²		
Anions	Sulfur	S	48	108	pH<7, TCEC < 10 S= 50; TCEC >10 S=78	78	-	30			
	Mehlich III Phosphorous	P	P ₂ O ₅ : 506 P= 223	500	P=K	1630	1130	-			
Exchangeable	Calcium	Ca	3630	8131	TCEC x 400 x 0.68 = Target Level Minimum 2130 kg/ha	7148	-	938			
	Magnesium	Mg	522	1169	TCEC x 240 x 0.12 = Target Level	757	-	412			
	Potassium	K	728	1630	See chart	481	-	611			
	Sodium	Na	76	170	TCEC x 460 x 0.02 = Target	239	69	-			
	Boron	B	0.72	1.61	CEC below 10: 2.24 kg/ ha CEC above 10: 4.48 kg/ha ¹	4.48	2.87	-			
	Iron	Fe	218	488	Fe = 112/ha if TCEC below 10 Fe = 168/ha if TCEC above 10	168	-	329			
	Manganese	Mn	36	80.6	Mn = 61 kg/ha if TCEC below10 Mn = 112 kg/ha if TCEC above 10	112	31.4	-			
	Copper	Cu	2.49	5.6	If TCEC below 10 6.73 kg/ha if TCEC above 10 11.21 kg/ha	11.21	5.61	-			
	Zinc	Zn	50.57	113.28	Zn= 1/10 P	48.1	-	65.18			

3: 1 ppm = 2 lb/ac = 2 kg/ha = 2 gm/100 sq. ft = 2 gm/10m²

PPM – stands for Parts per Million, or the ratio 1/1,000,000.

Rationale: Value in kg/ha = Value in ppm x (1 kg/10⁶mg) x (1000 kg/m³, bulk density) x (0.15 m x 10⁴m²/ha)

Mehlich III Phosphorous: calculate using actual P not Phosphate: P=0.44 x P₂O₅

Sulfur Target Level: S= ½ MG until there are no more cation excesses; then S=1/3 P

Potassium Target Levels: include chart

)1 Boron: do not exceed 4.48 kg/ha