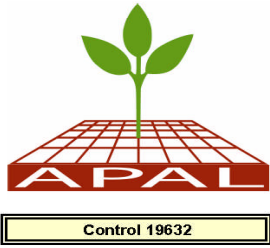


Premium Soil Test Advantages

All recommendations are based on exchange capacity so fertilisers are calculated for each particular soil

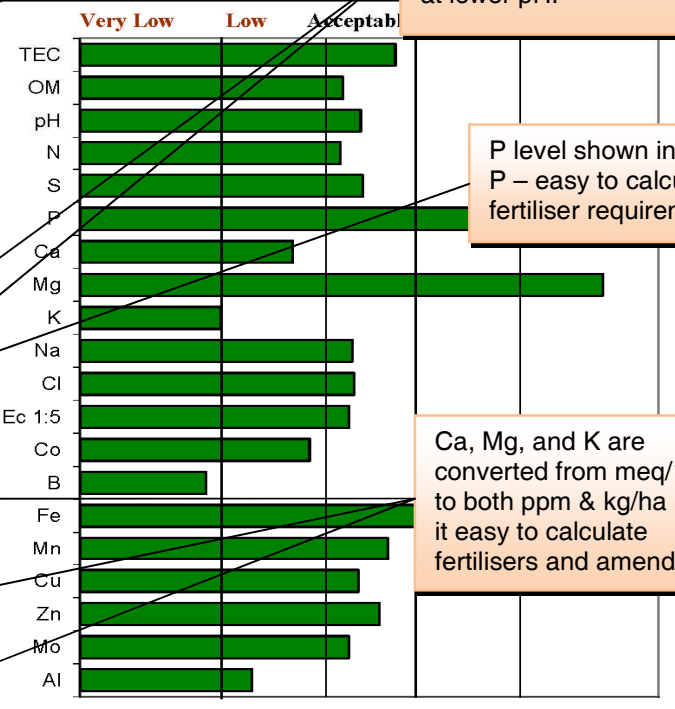


Premium Soil Analysis

Customer: ABC FARMS
Agent: TOP FERT
Sample Name: LUCERNE Paddock
Crop: LUCERNE/CHICORY
Lab No.: A0034
Date: 7-Dec

Two phosphorus tests give a good picture of available P – Olsen P at high pH and Bray2 at lower pH.

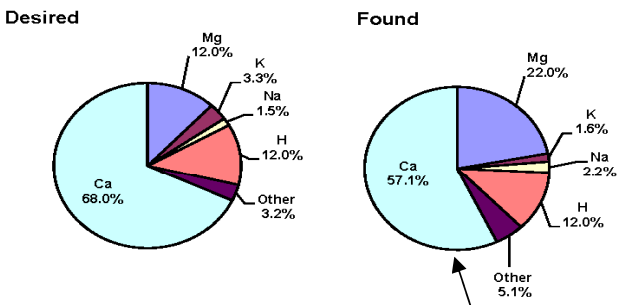
	Unit	Desired Level	Level Found
Total Exchange Capacity (TEC) 12-25			22.39
Colloidal Organic Matter %		4.0 - 6.0	4.40
PH (Water)		6.0 - 6.5	6.20
Anions			
Nitrogen (N)	kg/ha	90 - 120	95
NO 3	ppm		*
NH 3	ppm		*
Sulphate (S)	ppm	20 - 30	37
Total P	ppm		49
Olsen (P)	ppm	19-29	49
Phosphorus (Bray 2)	kg/ha	127	160
Deficit	kg/ha		0
Phosphate Recovery	%	100	56
Cations			
Calcium (Ca)	ppm	3043	6839
Found	kg/ha	2554	5739
Deficit	kg/ha		1100
Magnesium (Mg)	ppm	322	724
Found	kg/ha	590	1325
Deficit	kg/ha		0
Potassium (K)	ppm	288	647
Found	kg/ha	140	314
Deficit	kg/ha		333
Sodium(Na)	ppm	112	252
Found	kg/ha		
Chlorides (Cl)	ppm	<200	85.00
Salinity EC 1:5	dS/m	<0.15	0.17
Trace Elements			
Cobalt (Co)	ppm	>1.5	1.40
Boron (B)	ppm	>1.5	0.77
Iron (Fe)	ppm	100 - 400	650.00
Manganese (Mn)	ppm	80 - 140	160.00
Copper (Cu)	ppm	>2.0	3.50
Zinc (Zn)	ppm	>8.0	15.40
Molybdenum (Mo)	ppm	0.8 - 2.0	1.12
Aluminium (Al)	ppm	<2.0	0.14
Base Saturation %			
Ca:Mg RATIO		5.67	2.60
Calcium	% Ca	68.0	57.1
Magnesium	% Mg	12.0	22.0
Potassium	% K	3.3	1.6
Sodium	% Na	1.5	2.2
Other Bases	%	3.2	5.1
Exchangeable Hydrogen	% H	12.0	12.0



P level shown in kg/ha P – easy to calculate fertiliser requirements

Ca, Mg, and K are converted from meq/100g to both ppm & kg/ha making it easy to calculate fertilisers and amendments

Base Saturation Percentages



Additional Comments: Cobalt Limit of Detection 0.2 ppm

The following show the kg/ha of deficient elements required to bring the soil to the ideal level:

Element	Desired	Found	Deficiency
PHOSPHORUS	nd	1.5	COBALT
MAGNESIUM	nd	1.5	MO
POTASSIUM	333	1.5	
MANGANESE	nd		
CALCIUM	1100		
COPPER	nd		
SULPHUR	nd		
ZINC	nd		

Base Saturation Percentages (BSP) give a clear picture of the soil's nutrient balance

* This test is available but not requested by client.

nd = not deficient n req = required

The table is a summary of deficient elements in kg/ha useful for assessing total soil requirements when budgeting