Soil Analysis

Complete Soil Analysis with Recommendations

CROPNUTS Laboratory Services ISO17025 Accredited

Customer:	Crop Nutrition Laboratory Services	Crop:	Potatoes (Irish)	Date Received:	
Address:		Crop Stage:		Analysis Date:	
Farm Name:		Comments:		Report Date:	
Contact Person:		Condition:	Moist	Sample ID:	

Top Soil

To maintain the correct history ensure that the next sample sent from this Field is labelled: Kinale

History (Last 3 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Optimum	High	Symbol	Current				Method
pH (H2O)		5.29	5.50	7.00				pH	5.29				Potentiometric
*EC (Salts)	uS/cm	51.0		< 800				EC(S)	51.0				Potentiometric
Phosphorus	ppm	41.2	40.0	100				P	41.2				Spectroscopy
Potassium	ppm	140	182	607				K	140				Spectroscopy
Calcium	ppm	1420	1560	2180				Ca	1420				Spectroscopy
Magnesium	ppm	145	187	336				Mg	145				Spectroscopy
Sulphur	ppm	12.9	20.0	200				S	12.9				Spectroscopy
*Sodium	ppm	41.5		< 179				Na	41.5				Spectroscopy
Iron	ppm	221	50.0	350				Fe	221				Spectroscopy
Manganese	ppm	21.8	30.0	250				Mn	21.8				Spectroscopy
Boron	ppm	0.28	0.80	2.00				B	0.28				Spectroscopy
Copper	ppm	0.63	2.00	10.0				Cu	0.63				Spectroscopy
Zinc	ppm	49.0	2.00	20.0				Zn	49.0				Spectroscopy
*C.E.C	meq/100g	15.6	15.0	30.0				C.E.C	15.6				Calculated
*Total Nitrogen	%	0.21	0.20	0.50				N	0.21				Colorimetric
*Organic Matter	%	6.08	3.00	8.00				OM	6.08				Colorimetric
*C/N ratio		16.8	10.0	25.0				C:N	16.8				
*PERCENTAGES AND RATIOS													
Calcium %	%	45.6	50	70				Ca%	45.6				
Magnesium %	%	7.77	10	18				Mg%	7.77				
Potassium %	%	2.31	3	10				K%	2.31				
Sodium % (ESP)	%	1.16	0	5				Na%	1.16				
Other Bases %	%	6.82	3	10				OB%	6.82				
Hydrogen %	%	36.3	10	15				H%	36.3				
Total	%	100.00											
Ca:Mg Ratio	%	5.88	4	6				Ca:Mg	5.88				

COMMENTS #

>Low pH in this Top Soil>Low Potassium in this Top Soil>Low Calcium in this Top Soil>Very Low Magnesium in this Top Soil>Low Sulphur in this Top Soil>Low Manganese in this Top Soil>Very Low Boron in this Top Soil>Very Low Copper in this Top Soil>Very High Zinc in this Top Soil>Low Calcium % in this soil.>Very Low Magnesium % in this soil.>Low Potassium % in this soil.>Very High Hydrogen % in this soil.

Crop Nutrition Laboratory Services Ltd: Cooper Center, Kaptagat Road,
Off Kangemi Flyover, Waiyaki Way, P.O Box 66437, Nairobi (00800),
Kenya. Mobile: +254 (0) 736 839933 / (0) 720 639933
Email: support@cropnuts.com

www.cropnuts.com

RECOMMENDATIONS REPORT

SOIL FERTILITY CORRECTION AND CROP FERTILIZER PROGRAMS

CROPNUTS Laboratory Services ISO17025 Accredited

Customer:	Crop Nutrition Laboratory Services	Crop:	Potatoes (Irish)	Date Received:	
Address:		Crop Stage:		Analysis Date:	
Farm Name:		Comments:		Report Date:	
Contact Person:		Condition:	Moist	Sample ID:	

Crop	Potatoes (Irish)	Yield Target	30 t/Ha

SOIL FERTILITY CORRECTION & FERTILIZER PROGRAM

PROBLEM	SOLUTION /INPUT	RATE		COMMENTS	STAGE (Input Type)
		Kg/Ha	Kg/Acre		
Low magnesium /pH levels in the soil. Calcium :magnesium imbalance.	DOLOMITIC LIME (20 - 24% Ca, 10 - 14% Mg) Find Dolomitic Lime Suppliers	700	285	Apply dolomitic lime after harvest and incorporate to depth. Apply a maximum of 3 t/Ha (agricultural + dolomitic) in one season. Always check quality of lime before application.	SOIL CORRECTION (Soil Correction)
	GYPSUM (20 - 24% Ca, 18% S) Find Gypsum Suppliers	200	80	Very good source of calcium and sulphur for potato, if available and affordable.	PREPLANTING (Soil Correction)
	TRIPLE SUPER PHOSPHATE (TSP) Find Triple Super Phosphate (TSP) Suppliers	80	30	Work into ridge with other planting fertilizers	PLANTING (Soil Correction)
Potassium fertilization required.	MOP Find MOP Suppliers	90	35	Incorporate preplanting to supply potassium to the crop.	PREPLANTING (Fertilizers)
Starter phosphorus needed.	NPK (10.18.24) Find NPK Fertilizers (>20% K2O) Suppliers	380	155	Apply at planting.	PLANTING (Fertilizers)
Nitrogen fertilization required.	Urea Find Urea Suppliers	40	15	Apply during re-ridging to incorporate into soil.	TOP DRESS (Fertilizers)
Magnesium fertilization required.	Magnesium Sulphate Find Magnesium Sulphate Suppliers	90	35	Incorporate into ridge at planting.	TOP DRESS (Fertilizers)
Low sulphur in soil	Ammonium Sulphate Find Ammonium sulphate (AS) Suppliers	30	10	Apply during re-ridging to incorporate into soil.	TOP DRESS (Fertilizers)
Low potassium levels	Potassium Sulphate Find Potassium sulphate Suppliers	100	40	Apply at at tuber inititation	TOP DRESS (Fertilizers)

ADDITIONAL RECOMMENDATIONS

> Apply extra potassium at planting. > Apply high Mg foliar feeds. > Apply 20 kg/Ha copper sulphate and use copper foliar feeds. > Apply manganese foliar 2-3 times during crop > Apply boron + calcium foliar feed pre flowering and every 21 days thereafter. > Apply extra sulphur.

NEED HELP UNDERSTANDING THIS REPORT? Visit our Help Desk

NEED TO FIND FARM INPUTS? Search our Farm Inputs Directory

Crop Nutrition Laboratory Services Ltd: Cooper Center, Kaptagat Road,
Off Kangemi Flyover, Waiyaki Way, P.O Box 66437, Nairobi (00800),
Kenya. Mobile: +254 (0) 736 839933 / (0) 720 639933
Email: support@cropnuts.com

www.cropnuts.com