

Soil Analysis

Complete Soil Analysis with Recommendations



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 (H ₂ O)		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.

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RECOMMENDATIONS REPORT

SOIL FERTILITY CORRECTION AND CROP FERTILIZER PROGRAMS



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
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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 initiation	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.
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"Disclaimer: These fertilizer recommendations are only valid for the sample presented, specific crop type, yield target and estimated fertilizer recovery. However, please also note that the recommendations provide indicative rates only and should be validated at farm level through fertilizer trials. Whilst we have taken all reasonable care to ensure that our recommendations are accurate, we have not taken into account other factors that could greatly reduce crop nutrient uptake including but not limited to soil moisture, root diseases, nematodes, water logging, compaction, acidity, fertilizer placement and other management factors. Therefore, we accept no liability for any loss or damage arising directly or indirectly from the use of the fertilisers and under no circumstances whatsoever shall we be liable for any special, incidental or consequential damages which may arise therefrom. This document cannot be reproduced except in full, without prior written approval of the company."

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