



Kenya Agricultural & Livestock Research Organization
National Agricultural Research Laboratories
P. O. Box 14733, 00800 NAIROBI
Email: soil.labs@kalro.org

SOIL TEST REPORT

Name: Mtumizi Self Help Group
Address: c/o KALRO Matuga, P. O. Box 4 - 80406
Location of farm: Waa, Matuga, Kwale
Crop(s) to be grown: Rice, sorghum, groundnut
Date sample received: 6-Dec-2022
Date sample reported: 16-Dec-2022

	Soil Analytical Data							
Field	Block A							
Lab. No/2022	9183							
Soil depth cm	top							
Fertility results	value	class	value	class	value	class	value	class
Soil pH	6.79	slight acid						
Total Nitrogen %	0.08	low						
Total Org. Carbon %	0.91	low						
Phosphorus ppm	87	high						
Potassium meq%	0.50	adequate						
Calcium meq%	5.5	adequate						
Magnesium meq%	1.35	adequate						
Manganese meq%	0.11	adequate						
Copper ppm	0.48	low						
Iron ppm	9.32	low						
Zinc ppm	1.36	low						
Sodium meq%	0.24	adequate						

Interpretation and Fertilizer Recommendation

The soil reaction (pH) is satisfactory for crops growth. Nitrogen, copper, iron and zinc are deficient. Soil organic matter content is low. At land preparation apply 4 ton/acre of well decomposed manure or compost, 5 kg/acre of copper sulphate, 5 kg/acre of iron sulphate and 10 kg/acre of zinc sulphate. Mix well with the soil. **Rice:** At 43-58 days after transplanting (at panicle initiation stage) apply 75 kg/acre of ammonium sulphate (AS). **Sorghum:** Three weeks after sowing top dress with 75 kg/acre of CAN. **Groundnut:** At flowering (7 to 8 weeks after planting) broadcast over the plants 50 kg/acre of CAN and 50 kg/acre of gypsum.

NOTE: Test results are based on customer sampled sample(s).
Methods used: Information is given out on client's request.

Reporting officer (through Director NARL) A. Chek



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	Soil Analytical Data							
Field	Block B							
Lab. No/2022	9184							
Soil depth cm	top							
Fertility results	value	class	value	class	value	class	value	class
Soil pH	6.50	slight acid						
Total Nitrogen %	0.11	low						
Total Org. Carbon %	1.45	moderate						
Phosphorus ppm	21	low						
Potassium meq%	0.37	adequate						
Calcium meq%	9.8	adequate						
Magnesium meq%	1.11	adequate						
Manganese meq%	0.14	adequate						
Copper ppm	0.19	low						
Iron ppm	5.47	low						
Zinc ppm	0.30	low						
Sodium meq%	0.21	adequate						

Interpretation and Fertilizer Recommendation

The soil reaction (pH) is satisfactory for crops growth. Nitrogen, phosphorus, copper, iron and zinc are deficient. Soil organic matter content should be improved. At land preparation apply 2 ton/acre of well decomposed manure or compost, 5 kg/acre of copper sulphate, 5 kg/acre of iron sulphate and 10 kg/acre of zinc sulphate. Mix well with the soil. **Rice:** Before transplanting broadcast 100 kg/acre of N:P:K 23:23:0. At 43-58 days after transplanting (at panicle initiation stage) apply 50 kg/acre of ammonium sulphate (AS). **Sorghum:** At planting time apply 100 kg/acre of N:P:K 23:23:0. Three weeks after sowing top dress with 60 kg/acre of CAN. **Groundnut:** At planting time apply by incorporation into the soil along the ridges 100 kg/acre of N:P:K 23:23:0. At flowering (7 to 8 weeks after planting) broadcast over the plants 50 kg/acre of gypsum.

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