

AR-18-NU-060083-01 1 2



Contact	T CODE	AR-18-NU-060083	-01	REP Ferto 1556 KER NEW 80033 petert	PORT DATE co 2016 Limited Buisson Sd Springbank Road IKERI 0293 V ZEALAND 37826 D@fertco.co.nz	20/08/2018			
Sample Name Orotere									
Order Code:		EUNZAU-00109286		Soil Type		Sedimentary			
Sample Code: Sampling Date: Reception Date: Analysis ending date:		816-2018-00185305 10/08/2018 15/08/2018 20/08/2018		Land Use Depth (mm) Property Name		Sheep and Beef Pastoral 75 Orotere			
SOIL TE	ST RESULTS		Units	Results	Soil Range	Soil Fertility Desired			
NU015	pН		pН	6.9	5.8~6	•			
NU028	Anion Storage Ca	apacity	%	53	40~80				
♦ NUD09	9 Effective Cation Exchange Capacity		cmol+/kg	36	12~25				
♦ NU388	Volume Weight		g/ml	0.79					
ANIONS									
NU252	Olsen Phosphorus		mg/l	11	20~30 ●				
NU342	Sulfate Sulfur		mg/kg	9	10~12				
NU262	Extractable Organic Sulfur (EOS)		mg/kg	7	15~20 🛛 🔍				
CATIONS	S								
NU057	Calcium MAF QT		MAF QT	31	4~10				
♦ NUD04	Exchangeable Calcium		cmol+/kg	31.0					
NU189	Magnesium MAF	QT	MAF QT	37	8~10				
♦ NUD05	Exchangeable Magnesium		cmol+/kg	2.03	= .				
NU280	Potassium MAF QT		MAF QT	18	5~8				
♦ NUD06	Exchangeable Potassium		cmol+/kg	1.19	5 00				
	Sodium MAF QI			5	5~20				
♦ NUDU/ Exchangeable Sodium Cmol+/kg U.12									
BAGE SALUKATION									
♦ NU001 ▲ NU0017	Magnesium Base Saturation		70 0/2	56	6~15				
◆ NU171	Potassium Base Saturation		%	3.3	2~5				
◆ NU234	Sodium Base Sat	uration	%	0.3	1~2 ●				

CONCLUSION

Desired plot ranges refer to field calibrated tests: pH, Olsen P, QTCa, QTMg, QTK, QTNa, Sulfate S, Extractable Organic S & Total S. Biological optimums are defined as 97% of max pasture production across all relevant field trials. All other desired ranges are provided as an indication of qualitative low, medium or high values based on reference data available, these "text book" values may not reflect local soils, climate, or terrain and should therefore be used with caution.

Anion Storage Capacity is an inherent property of the soil, a plot is only provided to indicate if the soil is classified as low, medium, or high; rather than indicating an actual desired value. Typical values for different soil types: Volcanic soils >80%, pumice 50-70%, sedimentary 30-50%, most peats, podzols and fine textured soils are usually less than 20%. To reduce possible leaching losses of P and S fertilisers, it is advisable to apply slow release P and S fertilisers when the soil ASC < 40%.

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MAF Mg levels of 8-10 are adequate for pasture growth. MAF Mg levels of less than 25 may limit animal Mg supply and cause metabolic disorders during calving/lambing. For animal nutrition MAF Mg levels of 25-30 will generally provide plant Mg concentrations of 0.22% or higher.

Desired plots refer to ranges that are required to achieve near-maximum pasture production, economically these ranges may only apply to highly stocked, finishing farms (15 - 20 SU/ha) with favourable soils, climate and terrain. Sheep and beef farms are typically stocked at 8 - 10 SU/ha, in these cases a farm could possibly get away with lowered economic targets; for example Hills Olsen P of 12, Flats Olsen P of 20, MAF QT K 4 - 5 and sulphate-S 6 - 8. Farms stocked at 10 - 15 SU/ha could possibly have economic target soil test ranges between the near maximum and lower stocking range.

IANZ accreditation does not apply to comments or graphical representations.

LIST OF METHODS							
NU015	pH: 1:2.1 V/V Water Slurry: Electrode determination	NU028	Anion Storage Capacity: Potassium diHydrogen Phosphate Buffer				
NU051	Calcium Base Saturation: Calculated Value	NU057	Calcium MAF QT: NH4OAC pH7 Extraction: ICP_OES determination				
NU171	Potassium Base Saturation: Calculated Value	NU189	Magnesium MAF QT: NH4OAC pH7 Extraction: ICP_OES determination				
NU217	Magnesium Base Saturation: Calculated Value	NU234	Sodium Base Saturation: Calculated Value				
NU252	Olsen Phosphorus: Olsen Extraction: Colorimetry	NU262	Extractable Organic Sulfur (EOS): Calculation: Total phosphate extractable S less sulfate S				
NU280	Potassium MAF QT: NH4OAC pH7 Extraction: ICP_OES determination	NU326	Sodium MAF QT: NH4OAC pH7 Extraction: ICP_OES determination				
NU342	Sulfate Sulfur: Calculation. Phosphate Extraction: Ion Chromatography determination. Adjusted for Weight Volume	NU388	Volume Weight: Volume weight of air-dried & sieved soil				
NUD04	Exchangeable Calcium: NH4OAC pH7 Extraction: ICP_OES determination	NUD05	Exchangeable Magnesium: NH4OAC pH7 Extraction: ICP_OES determination				
NUD06	Exchangeable Potassium: NH4OAC pH7 Extraction: ICP_OES determination	NUD07	Exchangeable Sodium: NH4OAC pH7 Extraction: ICP_OES determination				
NUD09	Effective Cation Exchange Capacity: Calculated by summation (ECEC field pH)						

Signature

Brent Miller

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EXPLANATORY NOTE

test is not accredited

• test is subcontracted within Eurofins group and is accredited

Team Leader Agri Testing

- test is subcontracted within Eurofins group and is not accredited
- test is subcontracted outside Eurofins group and is accredited
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N/A means Not applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ) Eurofins General Terms and Conditions apply.

This document can only be reproduced in full; it only concerns the submitted sample. Results have been obtained and reported in accordance with our general sales conditions available on request.

The tests are identified by a five-digit code, their description is available on request.

END OF REPORT

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