

WAITANGI STATION LTD - SUTTON D
 C/- D SUTTON
 PO BOX 11
 KUROW
 Client Reference: 790578

NICKY HAND

Waitangi Proposed NB.ovp

Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
Inputs								
Fertiliser and lime	0	1	0	5	3	0	0	0.2
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	11	0	1	2	1	1	3	0.0
Irrigation	0	0	0	0	0	0	0	0.0
Slow release	0	3	21	11	1	2	3	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
Outputs								
Product	1	0	0	0	0	0	0	0.0
Effluent removed	0	0	0	0	0	0	0	0.0
Supplements removed	0	0	0	0	0	0	0	0.0
Atmospheric	1	0	0	0	0	0	0	0.0
Leaching/runoff	2	0	4	17	8	1	4	0.0
Net immobilisation/absorption	8	14	0	0	0	0	0	0.0
Change in inorganic soil pool	0	-9	18	0	-4	2	2	0.3

* Acidity - kg H+/ha

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Block maintenance fertiliser nutrient recommendations

For: Current farm

Maintenance fertiliser nutrient recommendations to maintain soil tests at current levels

Blockname	P	K	S	Ca	Mg	Na	Lime	Relative yield (%)
	(kg/ha/yr)							
Oversown Hill Country	13	0	0	1	0	0	60	75
Unimproved Hill Country	9	0	0	6	0	0	0	66
Lucerne	29	40	14	35	5	16	10	66
Paddocks	11	0	0	9	0	0	80	66
Unimproved Low Country	20	0	5	39	0	15	10	44
Irrigation	20	0	15	0	0	0	100	86

It is recommended that a fertiliser company representative or farm consultant with experience in nutrient management is consulted for advice on the types of fertiliser and on the timing of application of fertilisers.

These rates are to maintain soil test values only. If soil test values are above optimum, then less than maintenance can be applied to allow soil test values to fall. Conversely, if soil tests are below those required to maintain target pasture production levels, then capital dressings may be required. In both cases, it is recommended that a fertiliser company representative is consulted.

Also note that experienced fertiliser company representatives may advise rates that differ from these results based on local experience.

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Block nitrogen report

For: Current farm

Block name	N in drainage * (ppm)	N leached	N surplus (kg N/ha/yr)	Added N **	% reduction in wetland
Oversown Hill Country	na	2	12	0	0
Unimproved Hill Country	na	2	10	0	0
Lucerne	1.7	2	13	0	0
Paddocks	1.6	2	17	0	0
Unimproved Low Country	0.9	2	10	0	0
Irrigation	1.2	5	80	46	0
Overall farm	na	2	11		

* Estimated N concentration in drainage water at the bottom of the root zone. Maximum recommended level for drinking water is 11.3 ppm (note that this is not an environmental water quality standard).

** Sum of fertiliser and external factory effluent inputs.

na : N in drainage not calculated for easy and steep blocks.

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Block phosphorus report

For: Current farm

Block name	P loss factors				P lost (kg P/ha/yr)	% P removed by filter strip
	Soil	Fertiliser	Effluent	Overall		
Oversown Hill Country	Low	Low	n/a	Low	0.0	n/a
Unimproved Hill Country	Low	n/a	n/a	Low	0.0	n/a
Lucerne	Low	Low	n/a	Low	0.0	n/a
Paddocks	Low	Low	n/a	Low	0.0	n/a
Unimproved Low Country	Low	n/a	n/a	Low	0.0	n/a
Irrigation	Low	Low	n/a	Low	0.1	n/a
Overall farm	Low	Low	n/a	Low*	0.0 *	

* Includes P loss from ponds to waterways

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Block pasture report

For: Current farm

Block name	On-farm fresh pasture intake (kg DM/ha/yr)	Estimated utilisation (%)	Supplements removed (kg DM/ha/yr)	Pasture growth (kg DM/ha/yr)
Oversown Hill Country	1014	67	5	1520
Unimproved Hill Country	76	66	0	114
Lucerne	1835	66	2010	4770
Paddocks	1763	66	9	2661
Unimproved Low Country	761	67	3	1139
Irrigation	6650	71	1243	10649

This report gives an estimated animal intake for each block based on animal production and supplements brought on to farm information supplied. Estimated annual pasture growth is shown for the animal utilisation value shown. Note: the model is not sensitive to changes in utilisation.

It is recommended that a consultant or software such as StockPol is used to estimate farm pasture production.

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