

ESTATE MUNRO A H - ROSTRIEVER
 RUN

NICKY HAND

C/- IAN CARTER
 BARRISTER & SOLICITOR
 PO BOX 110
 DUNEDIN
 Client Reference: 552251

Rostriever Station OVP.ovp

Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
Inputs								
Fertiliser and lime	0	3	0	10	7	0	0	0.4
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	14	0	0	1	0	0	1	0.0
Irrigation	0	0	0	0	1	0	1	0.0
Slow release	0	3	20	6	1	2	3	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
Outputs								
Product	3	0	0	0	1	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	2	0	0	0	0	0	0	0.0
Leaching/runoff	2	0	0	16	13	1	1	0.0
Net immobilisation/absorption	7	11	0	0	0	0	0	0.0
Change in inorganic soil pool	0	-5	21	0	-4	2	3	0.4

* 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

Block name	P	K	S	Ca	Mg	Na	Lime	Relative yield (%)
	(kg/ha/yr)							
Unimproved Hill	7	0	0	9	0	0	0	49
Improved Hill	10	0	1	12	0	0	40	54
Cultivable	14	0	8	21	0	0	100	68
K-Line Irrigation	12	0	0	0	0	0	20	79

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
Unimproved Hill	na	2	10	0	0
Improved Hill	na	2	10	0	0
Cultivable	na	3	25	0	0
K-Line Irrigation	0.6	3	28	0	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		
Unimproved Hill	Low	n/a	n/a	Low	0.0	n/a
Improved Hill	Low	Low	n/a	Low	0.0	n/a
Cultivable	Low	Low	n/a	Low	0.0	n/a
K-Line 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)
Unimproved Hill	276	66	5	421
Improved Hill	1105	66	32	1694
Cultivable	3343	67	110	5095
K-Line Irrigation	3315	66	112	5097

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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