

Killermont  
 Omarama  
 Upper Waitaki

David Houlbrooke  
 Invermay Agriculture Centre  
 AgResearch

Killermont proposed with deer home and pebbly HD.ovp

## Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
<b>Inputs</b>								
Fertiliser, lime and DCD	22	11	26	2	5	2	11	0.0
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	12	0	1	1	0	1	2	0.0
Irrigation	1	0	1	2	6	1	5	0.0
Slow release	0	3	38	8	1	2	2	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
<b>Outputs</b>								
Product	5	1	0	1	1	0	0	0.0
Effluent removed	0	0	0	0	0	0	0	0.0
Supplements removed	16	2	15	1	3	2	1	0.1
Atmospheric	7	0	0	0	0	0	0	0.0
Leaching/runoff	4	0	3	11	0	1	1	-0.1
Net immobilisation/absorption	3	10	0	0	0	0	0	-0.1
Change in inorganic soil pool	0	1	47	0	7	3	19	0.1

\* 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)							
South face hills	7	0	5	2	0	0	20	45
North face hills	5	0	2	0	0	0	10	42
Irrigation	13	0	2	0	0	0	40	90
Pebbly	5	0	2	0	0	0	10	41
Block1								

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
South face hills	na	2	6	0	0
North face hills	na	2	8	0	0
Irrigation	3.1	12	40	101	0
Pebbly	na	2	8	0	0
Block1	na	17	24	50	0
Overall farm	na	4	14		

\* 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		
South face hills	Low	Low	n/a	Low	0.0	n/a
North face hills	Low	Low	n/a	Low	0.0	n/a
Irrigation	Low	Low	n/a	Low	0.1	n/a
Pebbly	Low	Low	n/a	Low	0.0	n/a
Block1	n/a	n/a	n/a	n/a	n/a	n/a
Overall farm	Low	Low	n/a	Low*	0.1 *	

\* 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)
South face hills	1337	50	19	2694
North face hills	669	50	8	1345
Irrigation	7780	75	3158	13531
Pebbly	669	50	7	1345
Block1	0	70	703	703

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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