

Lilybank Station  
 Tekapo  
 Lilybank V2.ovp

Jeff Morton  
 Ballance Agri-Nutrients

# Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
<b>Inputs</b>								
Fertiliser and lime	0	3	0	7	7	0	0	0.0
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	14	0	2	3	2	4	13	0.0
Irrigation	0	0	0	0	2	0	2	0.0
Slow release	0	3	21	6	3	5	6	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
<b>Outputs</b>								
Product	0	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	2	0	0	0	0	0	0	0.0
Leaching/runoff	3	1	10	17	3	7	36	-0.1
Net immobilisation/absorption	10	10	0	0	0	0	0	-0.1
Change in inorganic soil pool	0	-5	13	0	11	2	-16	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)							
Godley dryland	16	0	9	0	0	16	10	70
Home dryland	20	0	6	0	0	5	20	62
Station Stream	10	0	4	0	0	16	20	66
MacAuley irrigated	9	0	6	0	0	0	30	78
Pringle	7	0	1	0	0	14	10	56
Run	6	0	1	0	0	14	10	55
Godley irrigated	17	0	9	0	0	0	30	83
Home irrigated	17	0	9	0	0	0	30	83
MacAuley dryland	16	0	9	0	0	16	10	70

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
Godley dryland	0.6	5	27	0	0
Home dryland	0.5	5	32	9	0
Station Stream	na	4	19	0	0
MacAuley irrigated	0.5	6	73	11	0
Pringle	na	3	12	0	0
Run	na	3	11	0	0
Godley irrigated	0.7	8	52	0	0
Home irrigated	0.7	8	52	0	0
MacAuley dryland	0.6	5	27	0	0
Overall farm	na	3	15		

\* 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		
Godley dryland	Medium	Low	n/a	Medium	1.1	n/a
Home dryland	High	Low	n/a	Medium	1.9	n/a
Station Stream	High	Low	n/a	Medium	1.6	n/a
MacAuley irrigated	Medium	Low	n/a	Medium	1.2	n/a
Pringle	Low	Low	n/a	Low	0.6	n/a
Run	Low	n/a	n/a	Low	0.6	n/a
Godley irrigated	Medium	Low	n/a	Medium	1.3	n/a
Home irrigated	Medium	Low	n/a	Medium	1.3	n/a
MacAuley dryland	Medium	Low	n/a	Medium	1.1	n/a
Overall farm	Medium	Low	n/a	Low*	0.7 *	

\* 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)
Godley dryland	3200	81	86	4062
Home dryland	3200	81	86	4062
Station Stream	1948	70	48	2830
MacAuley irrigated	5565	70	172	8122
Pringle	404	70	6	584
Run	135	70	1	194
Godley irrigated	6400	81	197	8148
Home irrigated	6400	81	197	8148
MacAuley dryland	3200	81	86	4062

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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