

W & E Murray
 Glenmore Station Ltd
 PO Box
 Tekapo

Paul Johnston
 Ballance Agri Nutrients

old Glenmore Station V2 proposed corrected mr.ovp

Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
Inputs								
Fertiliser and lime	2	2	1	7	4	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	1	0	1	0.0
Slow release	0	3	21	11	2	3	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	2	0	0	0	0	0	0	0.0
Leaching/runoff	2	0	6	19	3	2	15	0.0
Net immobilisation/absorption	8	13	0	0	0	0	0	0.0
Change in inorganic soil pool	0	-8	17	0	4	3	-8	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)							
Pivots	18	0	0	0	1	0	20	75
Dryland Paddocks	17	0	0	29	0	0	0	90
Oversown HC	13	0	0	1	0	5	60	90
Unimproved HC	8	0	0	0	0	7	10	55

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
Pivots	0.5	5	52	58	0
Dryland Paddocks	1.1	4	37	39	0
Oversown HC	na	3	11	0	0
Unimproved HC	na	2	11	0	0
Overall farm	na	2	12		

* 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

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Block name	P loss factors				P lost (kg P/ha/yr)	% P removed by filter strip
	Soil	Fertiliser	Effluent	Overall		
Pivots	Low	Low	n/a	Low	0.1	n/a
Dryland Paddocks	Low	Low	n/a	Low	0.0	n/a
Oversown HC	Low	Low	n/a	Low	0.0	n/a
Unimproved HC	Low	n/a	n/a	Low	0.0	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

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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)
Pivots	3731	70	1571	6901
Dryland Paddocks	2107	70	1043	4052
Oversown HC	1075	70	14	1550
Unimproved HC	536	70	6	772

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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