

Otamatapaio Station Ltd  
 PO Box 421  
 Wanaka  
 Client Reference: 125146

Paul Johnston  
 Ballance Agri Nutrients

Otamatapaio Station Ltd (V2).ovp

## Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
<b>Inputs</b>								
Fertiliser and lime	4	7	0	34	17	1	0	1.4
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	13	0	1	1	0	1	1	0.0
Irrigation	1	0	1	1	4	1	4	0.0
Slow release	0	3	17	14	1	2	3	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
<b>Outputs</b>								
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	3	0	0	0	0	0	0	0.0
Leaching/runoff	2	0	22	50	44	1	9	0.0
Net immobilisation/absorption	12	19	0	0	0	0	0	-0.1
Change in inorganic soil pool	0	-9	-4	0	-22	3	-2	1.5

\* 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)							
Pivot	14	16	1	0	0	0	10	74
Border Dykes	16	0	0	0	0	0	10	85
Oversown H C	11	0	1	17	0	0	90	52
Dryland Pdks	26	21	0	85	0	8	130	96
Native Blocks	8	0	0	0	0	7	10	46
Glenburn Borders	14	0	0	0	0	0	10	88

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
Pivot	0.5	4	67	55	1
Border Dykes	0.6	5	100	97	1
Oversown H C	na	2	10	0	1
Dryland Pdks	0.9	3	16	0	1
Native Blocks	na	2	12	0	1
Glenburn Borders	0.4	4	65	55	1
Overall farm	na	2	17		

\* 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		
Pivot	Low	Low	n/a	Low	0.1	n/a
Border Dykes	Low	Low	n/a	Low	0.1	n/a
Oversown H C	Low	Low	n/a	Low	0.0	n/a
Dryland Pdks	Low	Low	n/a	Low	0.1	n/a
Native Blocks	Low	n/a	n/a	Low	0.0	n/a
Glenburn Borders	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)
Pivot	2840	71	529	4546
Border Dykes	2334	69	724	4092
Oversown H C	604	67	5	909
Dryland Pdks	1506	67	14	2273
Native Blocks	316	70	2	454
Glenburn Borders	2522	71	525	4092

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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