

SPITTLE G P & D J - QUAILBURN
 DOWNS
 QUAILBURNS DOWNS
 BELLFIELD
 RD 2
 TE ANAU
 Client Reference: 60817521
 G Spittle OVP File.ovp

NICKY HAND

Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
Inputs								
Fertiliser and lime	1	5	0	19	12	0	0	0.8
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	21	0	1	1	0	1	1	0.0
Irrigation	2	0	1	2	6	2	7	0.0
Slow release	0	3	20	5	2	4	4	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
Outputs								
Product	5	1	0	1	1	0	0	0.0
Effluent removed	0	0	0	0	0	0	0	0.0
Supplements removed	1	0	1	0	0	0	0	0.0
Atmospheric	3	0	0	0	0	0	0	0.0
Leaching/runoff	3	0	14	26	23	2	12	-0.1
Net immobilisation/absorption	10	12	0	0	0	0	0	0.0
Change in inorganic soil pool	0	-5	7	0	-3	4	0	0.9

* 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)							
Hill	11	0	0	14	0	2	80	66
Undeveloped Flat	7	0	5	24	0	7	50	56
Improved lowland	12	0	2	22	0	1	20	71
Quailburn Irrigation	30	93	3	19	5	0	80	88
Henburn Irrigation	16	0	6	0	0	0	130	87

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
Hill	na	3	14	0	0
Undeveloped Flat	0.8	3	25	0	0
Improved lowland	0.7	3	17	8	0
Quailburn Irrigation	0.4	4	15	5	0
Henburn Irrigation	0.8	5	52	5	0
Overall farm	na	3	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

Blockname	P loss factors				P lost (kg P/ha/yr)	% P removed by filter strip
	Soil	Fertiliser	Effluent	Overall		
Hill	Low	Low	n/a	Low	0.0	n/a
Undeveloped Flat	Low	Low	n/a	Low	0.0	n/a
Improved lowland	Low	Low	n/a	Low	0.0	n/a
Quailburn Irrigation	Low	Low	n/a	Low	0.7	n/a
Henburn Irrigation	Low	Low	n/a	Low	0.5	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)
Hill	1859	67	42	2816
Undeveloped Flat	1522	69	46	2265
Improved lowland	2438	68	51	3657
Quailburn Irrigation	3545	68	4293	9514
Henburn Irrigation	6592	68	155	9863

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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