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 North Otago

West Edge 09.ovp

Nutrient Budget

Farm Budget for: Current farm

	N	P	K	S	Ca	Mg	Na	H+
	(kg/ha/yr)							
Inputs								
Fertiliser and lime	0	2	0	6	6	0	0	0.2
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	21	0	1	1	1	1	2	0.0
Irrigation	2	0	2	2	9	2	9	0.0
Slow release	0	3	20	6	3	5	6	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
Outputs								
Product	2	0	0	0	1	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	4	0	13	15	1	3	13	-0.1
Net immobilisation/absorption	15	12	0	0	0	0	0	0.0
Change in inorganic soil pool	0	-7	9	0	16	4	3	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)							
Pivot 1 & 2	7	0	2	0	0	0	170	72
Boarder Dyke	19	0	1	0	7	12	150	73
K-Line	12	0	1	0	0	0	130	72
Dry Flat	13	0	9	2	0	9	10	49
Hill	9	0	0	0	0	0	10	56
Kale								

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 1 & 2	0.9	10	104	0	0
Boarder Dyke	1.1	10	74	0	0
K-Line	0.6	7	75	0	0
Dry Flat	1.3	3	24	0	0
Hill	na	2	12	0	0
Kale	na	41	53	46	0
Overall farm	na	4	21		

* 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 1 & 2	Low	Low	n/a	Low	0.2	n/a
Boarder Dyke	Low	Medium	n/a	Low	3.6	n/a
K-Line	Low	Low	n/a	Low	0.2	n/a
Dry Flat	Low	n/a	n/a	Low	0.0	n/a
Hill	Low	n/a	n/a	Low	0.0	n/a
Kale	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)
Pivot 1 & 2	8484	69	97	12341
Boarder Dyke	8484	69	77	12320
K-Line	8484	69	77	12320
Dry Flat	3442	67	1027	6149
Hill	823	67	3	1228
Kale	0	70	0	0

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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