

OD\_Alternative system\_animal weight\_HD.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	63	19	9	0	0	0	0	0.0
House block imports	0	0	0	0	0	0	0	0.0
Atmospheric/clover N	35	0	1	2	1	1	3	0.0
Irrigation	1	0	3	6	22	5	22	0.0
Slow release	0	3	26	8	3	5	6	0.0
Supplements imported	0	0	0	0	0	0	0	0.0
<b>Outputs</b>								
Product	13	3	1	2	7	0	0	0.0
Effluent removed	0	0	0	0	0	0	0	0.0
Supplements removed	11	2	11	1	2	1	1	0.0
Atmospheric	63	0	0	0	0	0	0	0.1
Leaching/runoff	11	0	10	13	21	11	33	-0.6
Net immobilisation/absorption	1	17	0	0	0	0	0	0.1
Change in inorganic soil pool	0	1	17	0	-4	-1	-3	0.4

\* 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)							
irrigated isolation	29	0	11	0	0	0	40	93
Wairepo irrigated	29	0	11	0	0	0	30	93
QE2	4	0	0	3	0	11	30	67
dryland pasture	11	0	0	2	0	10	20	74
Block1								
Block2								

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
irrigated isolation	3.6	19	69	95	0
Wairepo irrigated	3.3	17	64	75	0
QE2	0.4	3	15	3	0
dryland pasture	1.2	4	17	-6	0
Block1	na	8	33	100	0
Block2	na	32	47	70	0
Overall farm	na	11	75		

\* 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		
irrigated isolation	Medium	Medium	Low	Low	0.8	n/a
Wairepo irrigated	Low	Low	Low	Low	0.4	0
QE2	Low	Low	n/a	Low	0.0	n/a
dryland pasture	Low	Low	n/a	Low	0.0	n/a
Block1	n/a	n/a	n/a	n/a	n/a	n/a
Block2	n/a	n/a	n/a	n/a	n/a	n/a
Overall farm	Low	Low	Low	Low*	0.3 *	

\* 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)
irrigated isolation	7880	70	3172	14429
Wairepo irrigated	7880	70	3172	14429
QE2	795	60	142	1466
dryland pasture	2547	60	134	4378
Block1	2781	70	16	3988
Block2	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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