FARM NUTRITION TAS - GEOFF ROBERTSON - 0418 141 540

Prepared by Larry Palmer - Palm-Ag Services

Name:	Hectares	Date	Sample I D	Crop
G. ROBERTSON	**0.78**	**DEC 2017**	**HOME PADDOCK**	**PASTURE**

FILE NO. 1712131404 Sample Depth 0-10cm CEC 33

Soil Conditioner	**Tonnes / h**	**Approx. Cost /h**
Gypsum	100 to 200 Kgs	?
Ca - (89) Lime - Mole Creek - Cresswells	300 Kgs	?

Gypsum is to reduce the excess Magnesium and increase the Avail. Calcium
Lime to increase the Avail. & Exch. Calcium in the soil

Dry Fertilizer Elements - Annual Application	**Kilograms / h**	**Approx. cost /h**
Cresswell's - Pivot Deloraine - 6362 4700		
N - (11) From S.O.A.	50	$24
P - (32) F.M.P. Fert-Ag 0-8-0	400	$320
Ca - (89) From F.M.P.		
Mg - (48) From F.M.P.		
K - (31) Sulphate of Potash (S.O.P.)	75	$72
S - (12) From S.O.A. S - (13) From S.O.P.		
Carbohydrate White Sugar	5	$6

Dry Trace Elements - Annual Application	**Kilograms / h**	**Approx. cost /h**
Zinc Sulphate (36%) Monohydrate	8	$12
Moly Concentrate (0.4%)	12	$8
Iron Sulphate (20%)	10	$14
Manganese Sulphate (31%)	Up to 6	Up to $6
Granubor (Boron) (15%)	11	$21

Combine Dry T.E. with Fertilizer Elements above, just prior to spreading.

Liquid Biological Activators Autumn & Spring	**Litres / h**	**Approx. cost /h**
Apply morning or afternoon in moist conditions		
Worm Leachate	5	$13
Fish (Wild Ocean Fish)	5	$13
Kelp - Tassy Seaweed	2.5	$8
Liquid Humate 26%	2	$10
White Sugar	2 Kgs	$3

Comments : Costs are excluding GST, delivery, spreading and spraying.

The above amendments are suggested to supply sufficient nutrients to balance the soil requirements with grazing at moderate stocking rates for twelve months. Should this area be irrigated, cut for hay or silage, adjustments would need to be made, pre or post harvest.

THE PRODUCTS SUGGESTED ARE TO ENHANCE BIOLOGICAL ACTIVITY, INCREASE MACRO & MICRO NUTRIENT AVAILABILITY FOR SUSTAINABLE ANIMAL & SOIL HEALTH

As water quality varies in different areas it is adviseable to do a jar test for compatability between liquid products at recommended dilution rates, generally 200 L per hectare.