## PALM - AG SERVICES SOIL FERTILITY PROGRAMME

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| 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 - (200) Lime - Mole Creek - Cresswells | 0.6 | ? |

***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 - (15) From M.A.P. | | |
| P - (33) M.A.P. | 150 | $98 |
| K - (31) Sulphate of Potash (S.O.P.) | 75 | $72 |
| S - (13) From S.O.P. | | |
| S - (12) Sulphur Bentonite | 13 | $9 |
| 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.