

TECH-FLO TRACE MINERAL WEIGHT GAIN TRIALS 2011-2015.

SITE	Increased gain/day.	Length (days)	Animal Numbers	SR/ha	Extra Kgs/ha	Extra \$/ha	Statistical Significance
Lake Hawdon	300g	107	74	1.74	55.8	156.24	p<0.001
Mt. Gambier	250g	150	50	2.76	103.5	289.80	p<0.001
Western Vic	195g	105	38	3.3	67.56	189.16	p<0.006
Lindsay. Vic	224g	107	286	1.75	42.00	117.60	p<0.01
Mingbool. SA	150g	70	149	3.0	31.50	88.20	NS

- Financial gain calculated at \$2.80/kg live weight.

Debenham Australia Pty Ltd is a company based in Southern Victoria specializing in soil, plant and animal nutrition. The company provides technical advice and products into the grazing and dairy industries to overcome trace mineral deficiencies. The success of overcoming these deficiencies is recognising the correct nutrient levels and balances available to the animal in the pasture feed.

Inferior livestock performance caused by trace mineral deficiencies has an economic impact on farm profitability. Debenham Australia Pty Ltd over the past 25 years has undertaken practical trial work to assess the economic gains that can be achieved by correcting trace mineral deficiencies with the use of **Tech-Flo Foliar Nutrients**.

Results from trials undertaken from 2011-2015 are set out. The aim of all the trial work was to assess the economic gross margin when using **Tech-Flo Foliar Nutrients** to overcome trace mineral deficiencies.

Included are the initial plant tissue analysis taken prior to the start of each trial showing the levels of copper, cobalt and selenium (nutrients supplied in the trial). Also shown are the levels of iron, sulphur and molybdenum which when in excess either singularly or in combination are antagonistic to copper absorption in the animal.

PASTURE ANALYSIS

Nutrient	Lake Hawdon	Western Vic	Mt. Gambier.	Lindsay. Vic	Mingbool. SA	Ad. Levels.
Copper mg/kg	4.6	7.6	6.2	9.4	6.0	10 -12
Cobalt mg/kg	0.2	0.14	0.16	0.23	0.16	0.25
Selenium mg/kg	0.03	0.07	0.08	0.17	0.11	0.15-0.20
Antagonistic Factors						
Iron mg/kg	140	95	760	250	90	50-150
Sulphur %	0.24	0.23	0.12	0.22	0.2	0.22
Molybdenum mg/kg	1.11	1.07	0.53	0.17	0.79	0.25