Trial #	12
Location	Greta Valley
Province	North Canterbury
Farm Type	Beef and Sheep
Product Trial	FPF v/s Granular
Date	1996 - 1997

**Introduction:** Comparison of FPF and granular fertiliser was assessed based on dry matter produced and to test the affect of different amounts of Limeflour. Eight different treatments were applied to 2m x 2m plots. These were replicated 4 times. Fertiliser was applied on the 12 August 1996. A stock evaluation trial was also run concurrently to assess the difference in weaning weights achieved with the respective fertiliser systems. Soil samples were taken in June 1996. These formed the basis of the fertiliser recommendations made by Soil Testing Services.

<b>The granular fertiliser mix was:</b> 30% Potash Sulphur Superphosphate		e 350kg/ha	<b>The FF</b> DAP	PF mix was:	40%		
Copper Sulphate		4kg/ha	Elemen	tal Sulphur	10%		
Zinc Sulphate		4kg/ha	Sulphat	Sulphate of Potash 10%			
Cobalt Sulphate		100grams/ha	a Magnes	sium Sulphate	10%		
•			Limeflo	ur	25%		
			Trace e	lements	2.5kg/ha		
Treatments:							
				Cost(/Ha applied)			
1. Contr	ol		\$0.0	\$0.0			
2. GMM	/IM – Granular mineral mix						
<ol> <li>SSP125 – Sulphur Superphosphate at 125k</li> </ol>			kg/ha	\$25.66			
4. SSP250 – Sulphur Superphosphate at 250k			kg/ha	\$51.82			
5. FPF50 – 50kg/ha				\$64.40			
6. FPF35/15 – 35kg/ha + 15kg/ha Limeflour				\$60.53			
7. FPF50/25 – 50kg/ha + 25kg/ha Limef				\$80.91			
8. FPF1(	00/50 – 100kg/h	ia + 50kg/ha Limefioi	ur	\$132.96			
Results:	Dreduction (k)		07				
Total Dry Matter	Production (K	g/na) Aug 96-Sep	97				
Treatment	Dry Matter	Extra DM %		Cost			
Control	11213						
GMM	11600	3.0 <sup>b</sup>		120			
SSP125	11045	Nil <sup>c</sup>		n/a			
SSP250	11416	1.8 <sup>b</sup>		260			
FPF50	11928	6.4 <sup>a</sup>		8c			
FPF35/15	11919	6.3 <sup>a</sup>		9c			
FPF50/25	11433	2.0 <sup>b</sup>		37c			
FPF100/50	12159	8.4 <sup>a</sup>		14c			
Extra Dry Matter - % increase in dry matter compared to Control							
Cost - cents/extra kg of dry matter grown over Control							
The letters a,b & c are used to show the statistically significant differences between the							
treatments.							
Two treatments with the same letter were not found to be statistically different from each other.							
Those treatments with different letters were statistically different at a 95% confidence level (2 way							
ANOVA)							

Overall, the FPF treatments performed best in terms of dry matter produced. The cost differences with regard to growing the extra dry matter were dramatic.