



Earth Life Pty. Ltd.
RESEARCH REPORT

GREEN BEANS

AIM:	To establish the effect of different rates and methods of application of Bud Burst on the yield and quality of Green Beans.														
PROCEDURE:	<ol style="list-style-type: none"> 1. Soil Type: deep rich, Lockyer Creek Loam. 2. Area: selected at random across the paddock believed to be representative of an even soil type, drainage and cropping history. 3. Crop: Green Beans Variety: Simba 4. Planted: 25-2-98 5. Plot Size: - 4 blocks x 28 rows wide by length of field representing 0.65 hectares each. 														
TREATMENTS:	<p>Plot 1 Control Plot - no application of Bud Burst, water injected at planting. Followed by irrigation.</p> <p>Plot 2 500ml/ha of Bud Burst was applied in the water injection at planting only. No further application of Bud Burst.</p> <p>Plot 3 No Bud Burst was applied in the water injection at planting. 2 applications of Bud Burst at the rate of 500ml/ha were applied to the foliage of the beans on the 10-3-98 and 24-3-98 only.</p> <p>Plot 4 Bud Burst at the rate of 500ml/ha was applied in water injection at planting. 2 applications of Bud Burst at the rate of 500ml/ha were applied to the foliage of the beans on the 10-3-98 and 24-3-98.</p>														
GROWING CONDITIONS:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Planted</td> <td>25th February, 1998.</td> </tr> <tr> <td>Flowering commenced</td> <td>25th March, 1998.</td> </tr> <tr> <td>Fertiliser</td> <td>Nil at start.</td> </tr> <tr> <td>Previous Crop</td> <td>Potatoes - one month earlier.</td> </tr> <tr> <td>Water</td> <td>Watered by overhead irrigator as required.</td> </tr> <tr> <td>Temperatures</td> <td>Constant daily temperatures of up to 35 deg C from planting to flowering. Favourable temperatures from flowering to harvest on 1st March, 1998.</td> </tr> <tr> <td>Condition of crop</td> <td>Plant stress evident up to flowering. Leaf tips showing some burning.</td> </tr> </table>	Planted	25th February, 1998.	Flowering commenced	25th March, 1998.	Fertiliser	Nil at start.	Previous Crop	Potatoes - one month earlier.	Water	Watered by overhead irrigator as required.	Temperatures	Constant daily temperatures of up to 35 deg C from planting to flowering. Favourable temperatures from flowering to harvest on 1st March, 1998.	Condition of crop	Plant stress evident up to flowering. Leaf tips showing some burning.
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HARVEST:	Twenty (20) rows at random from the 28 rows treated were harvested on 1-5-98. Bud Burst treated areas were harvested first. Control about 3:00 p.m. same day.														

RESULTS:	RAW RESULTS				
		Treatment 1	Treatment 2	Treatment 3	Treatment 4
	Initial Packout kg	3390	3440	3510	3840
	Regrades kg	259	459	242	344
	Total kg	3649	3899	3752	4184
ANALYSIS:	<p><u>Control</u> 3649 kg</p> <p><u>Full Bud Burst Program</u> 4184 kg</p> <p><u>Increase</u> 545 kg per plot</p> <p><u>% increase of Control</u> 14.9%</p> <p><u>Total Increase per ha</u> 1184 kg</p>				
CONCLUSIONS:	<ol style="list-style-type: none"> The full program Bud Burst applied to green beans gave a 14.9% increase in saleable beans. <p>Bud Burst Full Program</p> <ol style="list-style-type: none"> Water injection at planting. Two (2) applications during the growth of the crop. All Bud Burst applications performed better than control with one application giving 2.8% increase; two applications giving 6.85% increase. The full program of Bud Burst increases the flower set and improves the evenness of maturity of the beans. Increased weights in treated plot can be linked to evenness of maturity. Fewer younger beans and fewer old beans were obvious in the ungraded sample. Cost effectiveness - 14.9% extra saleable beans. Extra Yield related to yield per hectare is 1184 kg 				