Earth Life Pty. Ltd. RESEARCH REPORT

Effect of Earthlife Minerals Plus on Sugar Cane

Trial conducted by D.E. & J.A. Gleeson, Agricultural Consultant

AIM:	To establish the effect of Earthlife Minerals Plus on the yield of "Plant" and "Ratoon" cane.										
PROCEDURE:	Treat soil prior to planting "Plant " cane and retreat each "ratoon".										
TREATMENTS:	Treatment 1 Treatment 2 Treatment 3 Treatment 4	Randomised Blocks 5 treatments x 6 replicates. Treatment 1 ELM PLUS 900 kg/ha Treatment 2 ELM PLUS 700 kg/ha Treatment 3 ELM PLUS 600 kg/ha Treatment 4 ELM PLUS 300 kg/ha Treatment 5 Control									
	RAW RESULTS										
ASSESSMENT:	TREATMENT - 1										
	7.68	7.39	Rep 3 7.53	7.14	Rep 5 6.87	Rep 6 6.81					
ASSESSMENT:			TREATM	ENT - 2							
	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6					
	7.33	6.96	6.8	7.49	8.25	7.66					
ASSESSMENT:			TREATM	FNT - 3							
AUDEDDITEIT 1	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5						
	7.47	7.94	7.71	6.55	6.27	6.31					

ASSESSMENT:	TREATMENT - 4									
continued	Rep 1	Rep 2		Rep 3		R	Rep 4	Rep 5		Rep 6
	6.8	6.44		6.51		6.5		6,37		6.49
ASSESSMENT:	TREATMENT - 5									
	Rep 1 Rep 2			Rep 3 Re			ep 4 Rep 5			Rep 6
	6.31	6.26		6.65		6.71		7.73		6.87
	Block	Treat 1		eat 2	Treat		Treat 4			<u>Total</u>
	1	7.68	/.	33	7.4	/	6.8	6.3	31	35.59
	2	7.39	6.	96	7.94		6.44	6.2	26	34.99
	3	7.53	6	.8	7.71		6.51	6.0	65	35.2
ANALYSIS:	4	7.14	7.	49	6.55		6.5	6.7	71	34.39
	5	6.87	8.	25	6.27		6.37	7.3	73	35.49
	6	6.01	7	66	6.31		6.49	6.9	27	33.34
								6.87 40.53		
	Total	42.62	44	.49	42.2	<i>i</i> 5	39.11	40.	<u> </u>	209
	SS		304.59	33	31.24	30	00.31	255.34		1466.67
	$CF = \frac{[209]2}{30} = 1456.03$									
	Block SS = $\frac{7283.76 - CF}{5}$ = 0.72									
	Treat. SS = $\frac{8753.15 - CF}{6}$ = 4.5									
	Total SS = 1466.67 - 1456.03 = 10.64									
	Analysis of Variance									
	Source	D.F.		SS MS		S	S F			
	Block	5	_	.72						
	Treatment	4	_	4.5	1.1		sig			
				3.42	0.271					
	Total	1 1(0.64							

										1
ANALYSIS Continued	S.E single yield		$\sqrt{0.271}$	<u>l</u>	=	0.52				
	CV	0.52 x 30 10 209	<u>0</u>	=	1560 209	=	7.46%			
	S.E. o	f single treatme	ent =	√6 x 0	.52	=	1.76			
	LSD	$= \qquad \sqrt{2} \times 6$	5 x 0.2(2	20 D.F.)	= =	1.8 x t 1.8 x		5%		
							2.947	1%		
					=	3.84 @	2 5%			
						5.3 @	1%			
	RESU	<u>LTS</u>					T2	vs	T4 ²	**
	S.E.	± 1.76 x T4,T5*	conve	rsion fac	tor		T2	vs		
	L.S.D.'s 3.84 x conversion factor @ 5%						T2	vs	T1,T3	NS
		5.3 x o	convers	ion facto	or @ 19	%	T1	vs	T4	NS
	** Sig	nificant @ 1%			* Sign	nificant	@ 5%			
	700 kg/ha of Earthlife Minerals Plus significantly improves yield in comparison to control or 300 kg/ha Earthlife Minerals Plus.									
CONCLUSIONS:	2. There is no significant difference between 600 kg/ha of Earthlife Minerals Plus and 700 kg/ha of Earthlife Minerals Plus.									
	3. 300 kg/ha of Earthlife Minerals Plus was not significantly different to control.									
	4. Trial to continue on ratoon cane.									