## Seed corm production techniques in elephant foot yam

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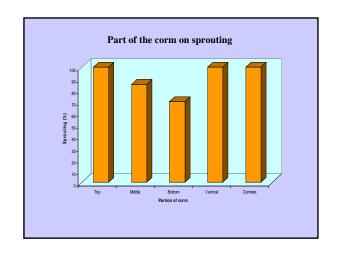


## Why seed corm?

- ➤ Whole seed corm
- ► High multiplication rate

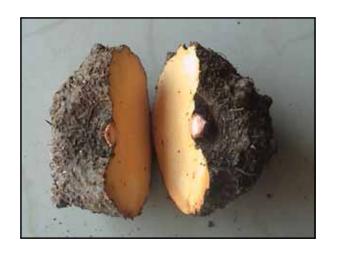


(g)  Yield (kg ha <sup>-1</sup> ) (kg ha <sup>-1</sup> ) (100 25480 22369 150 26721 23776
0 28270 25369
0 29807 27023
0 30863 28147
50 31727 29042
00 32572 29912
50 33023 30554
PD @ 5% 2746 2962



Size of cut corm on yield				
Size of the cut corm	Yield (g/plant)			
50	364.0			
100	692.5			
150	993.0			
200	1252.0			
250	1432.5			
300	1572.0			











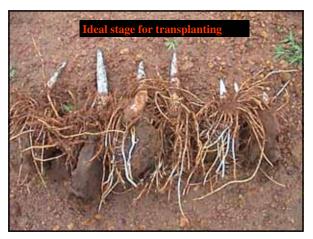




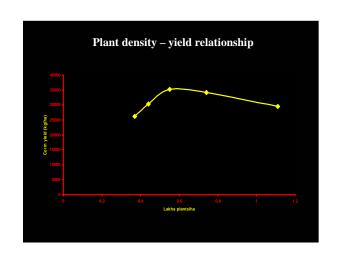
Corm sett size (g)	Sprouting (%)	
	Direct planting	Nursery
50	56.5	68.5
100	90.0	100.0
150	90.5	100.0
200	95.5	100.0
250	97.5	100.0
300	100.0	100.0
	1	







Effect of spacing on elephant foot yam corm yield				
Spacing	Population	Planting material	Yield	
	(Plants ha-1)	required (kg ha <sup>-1</sup> )	(kg ha-1)	
30 x 30 cm	111111	11111	29444	
45 x 30 cm	74074	7407	34152	
60 x 30 cm	55555	5555	35221	
75 x 30 cm	44444	4444	30310	
90 x 30 cm	37037	3704	26148	
CD @ 5%			1927	
90 x 30 cm			26	



Effect of graded doses of fertilizers on corm yield				
Lifect of grade	a doses of fertilizer.	on corm yier		
Fertilizer	Yield	Yield		
(N:P:K kg	(g plant <sup>-1</sup> )	(kg ha <sup>-1</sup> )		
ha-1)				
60:60:60	578	32124		
80:60:80	622	34536		
80:80:80	658	36547		
100:80:100	683	37920		
100:100:100	688	38214		
CD 5%	29	1626		













## Conclusions

- >35-38 t ha<sup>-1</sup> of elephant foot yam seed corm of 500-700 g size could be produced by planting vertically cut 100 g size tubers in the nursery and then transplanted in 60 x 30 cm spacing with the application of NPK @ 100:80:100 kg ha<sup>-1</sup> along with 25 t ha<sup>-1</sup> of FYM.
- >Store the corms in single layer keeping apical bud upward.
- >Corm treatment with fenitrothion (0.05%) and mancozeb (0.2%) prevents mealy bug and corm rotting during storage.



