## Air layering in cassia (Cinnamomum aromaticum

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## ABSTRACT

obtained when carried out during July and November, respectively, with 100% field establishment. is reported for the first time. A success of 87.5 and 50.0% rooting was Air layering in 2 year old cassia plants (Cinnamomum aromaticum)

Key words : air layering, cassia cinnamon, Cinnamomum aromaticum.

seeds; vegetative propagation has not propagation of a closely related species Kerala). Cassia is propagated through attempt was made to multiply the and for cultivation also. Hence an of planting material is a major handicap Peruvannamuzhi (Kozhikode district, Research Centre for the Experimental Farm of National existing collections of cassia available at in undertaking experiments in cassia other crops at present. Non availability the existing ones are being replaced by aromaticum are available in India and tional trade. Cassia is cultivated mainly commerce and are important in internaleaf oil and oleoresin are the products of true cinnamon. Cassia bark, bark and species of C. verum Bercht & Presl., the Presl.) (Lauraceae) is a closely related matic Nees.) (Syn. C. cassia Bercht & in China. Cassia cinnamon (Cinnamomum aro-Very few trees of C. However, vegetative Spices,

al. 1981; Rema & Krishnamoorthy 1993). (C. verum) has been reported (Vadivel et

secondary roots and length of primary percentage, number of primary and observations on rooting and survival were detatched after 2-3 months and roots were recorded experimental material, only 8 and 18 November, respectively. The air layers polythene sheet to prevent moisture moist coir dust and wrapped with commerical rooting hromone) was apvember, 1993. Lateral branches, 1.0-1.5 layers were done during July and plied at the girdle and covered with ing 5 cm of bark band. Seradix-B (a cm in diameter were girdled by removcassia seedlings during July and No-Air layers were made on 2 year old Due to limited availability of

12.1 secondary roots. But during No. July with an average of 6.4 primary and A success of 87.5% was obtained during

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Table 1. 1	Response	Table 1. Response of cassia to air layering	air layerin	14	
Month	Rooting	Rooting Field survival	1 No.	No. of roots	Length of primary
	(%)	(%)	Primary	Primary Secondary	٠, .
			Mean Range Mean Range	Mean Ray	nge Mean Range
July	87.5	100.0	6.4 5-7 12.1 12-13	12.1 12-1	13 6.2 3-8
November	50.0	100.0	4.0 2-8	6.2 1-15	15 4.8 5-9

muzhi (	muzhi (June - December 1993)	muzhi (June - December 1993)
Month	Rainfall(mm)	Month Rainfall(mm) No.of rainy days
June	771	26
July	1207	30
August	703	29
September	er 128	13
October	793	27
November	r 158	10
December	r 80	ယ

higher during July probably due to the during July and November respectively ary roots. The average lengths of average of 4.0 primary and 6.2 secondprimary roots were 6.2 and 4.8 cm vember, the success was 50.0% with an (Table 1). The success in layering was

> roots. All the air layers established in congenial for production of adventitious mosphere due to rain (Table 2) which is the field. higher humidity prevailing in the at-

ity and early maturity of planting since air layers ensure genetic uniformcassia. The method has great potential, This is the first report of air layering in

## Keferences

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