

# EFFECT OF DEPTH OF PLANTING ON SURVIVAL AND GROWTH OF *EUCALYPTUS CAMALDULENSIS*

—A not for tree planters

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To study the effect on survival, of root length, of 9 months old seedlings of *Eucalyptus camaldulensis* raised in polythene tubes, an experiment was laid out at Pakistan Forest Institute (average annual rainfall 300 mm on 28th February, 1978 in randomised complete block design with six replications and 12 plants in each plot, after 10 mm of rain had been received the previous day.

On 8th April, 1977, the number of survivals out of 12 plants planted in each plot were as follows:

Root length (cm)	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>	R <sub>5</sub>	R <sub>6</sub>
18	9	8	8	9	9	9
30	12	12	12	12	12	11
45	10	8	11	10	10	11
60	8	5	6	9	3	1

Thus maximum survival was obtained with a root length of 30 cm. Tubes of larger lengths were difficult to handle and this could be the reason for lower survival of plants raised in 60 cm long tubes.

The failures were replaced after another rain on April, 8, 1977 By 20th November, 1977 all the plants were surviving. Their average heights were as follows:

Root length (cm)	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub> (metres)	R <sub>5</sub>	R <sub>6</sub>	Total	Mean
18	1.6	1.6	1.8	1.9	1.1	2.1	10.1	1.68
30	1.8	1.7	1.8	1.6	2.5	1.5	10.9	1.82
45	1.3	1.8	1.2	1.4	1.4	1.1	8.2	1.37
60	1.3	1.9	2.2	2.2	1.2	1.4	10.2	1.70

The data are not significantly different.

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