

Research Note:

Influence of season of planting on propagation of pomegranate

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The investigation was carried out to study the effect of season on the sprouting percentage and shoot characters of pomegranate cuttings. The cuttings were planted in three seasons viz. July, November and January. January Plantings resulted in significantly higher sprouting percentage, plant height, shoots length and shoots number.

The Pomegranate is one of the most important fruit crops and much liked for its cool refreshing juice and also for its

on shoot characters 120 days after planting.

The data presented in Table 1 revealed that the season of planting influenced sprouting of cuttings significantly. The maximum sprouting percentage (70.60) was observed in January and minimum (64.70) in July planting. This might be due to accumulation of carbohydrates in dormant season and presence of suitable climatic conditions in spring for sprouting of cuttings. Similar results were reported by Navjot and

Table 1 : Influence of season of planting on sprouting and growth of cuttings in pomegranate cv. KANDHARI

Sr. No.	Season of planting	Sprouting % of cuttings	Plant height (cm)	Plant girth (cm)	Shoot length (cm)	Number of shoots	Shoot girth (cm)
1.	30 th July (P ₁)	64.70	38.62	3.80	9.52	3.22	1.10
2.	30 th November (P ₂)	68.38	36.82	3.83	10.51	2.61	1.07
3.	30 th January (P ₃)	70.60	42.20	3.85	12.42	3.81	1.13
4.	C.D. (P=0.05)	1.56	1.90	NS	0.68	0.36	NS

NS=Non significant

cool medicinal properties. Propagation by stem cutting is the rapid and simpler method than any other methods. Keeping in view the importance of fruit crop, an investigation was under taken to study the influence of season of planting on sprouting and growth of cuttings in Pomegranate cv. KANDHARI.

The trial was conducted at the experimental farm of SKUAST Jammu in the year 2007-2008. Uniform cuttings of about 20 cm in length having 3-4 buds were taken in three seasons i.e. July, November and January and planted on 30th July, 30th November and 30th January, respectively. Ten cuttings were used for each treatment and replicated four times in a Randomized Block Design. That data on sprouting percentage were taken after 45 days and

Kahlon (2007).

The plant height was significantly higher (42.20) in January plantings as compared to other planting seasons. This might be due to congenial physiological and climatic conditions in January and onwards.

The maximum shoot length (12.42) and shoot number (3.81) were observed with January plantings. However, there was no significant impact of season on plant girth and shoot girth. Similar results had been reported by Jawanda *et al.* (1980) in almond.

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