



Research Note

Article history :

Received : 24.03.2012

Accepted : 27.12.2012

Growth and flowering as affected by NPK fertilizers in tuberose cv. SINGLE

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ABSTRACT : Application of NPK @ 30, 30 and 20 g/m², respectively improved sprouting time, leaves per plant, length of leaves, plant height, spike initiation, length of spike, flowering duration and spikes per clump in tuberose

KEY WORDS : Tuberose, Nitrogen, Phosphorus, Potash, Growth, Flowering

HOW TO CITE THIS ARTICLE : Kour, Ravneet and Sharma, Amitesh (2012). Growth and flowering as affected by NPK fertilizers in tuberose cv. SINGLE, *Asian J. Hort.*, 7(2) : 619-620.

Tuberose is an important flower crop grown commercially for cut flower trade and oil industry. Therefore, a trial was carried out to standardize the dose of NPK in tuberose cv. Single. The investigation was carried out at experimental field of SKUAST-Jammu during the years 2007-2008. The treatments comprised of 3 levels of each nitrogen, phosphorus and potash (10,20 and 30 g/m²). The net plot size was 1 x 1m² and FYM @ 10 g/m² was given in each plot before planting. The bulbs were planted at a spacing of 25 x 20 cm.

Half dose of nitrogen was given before initiation of spikes. The observations on growth and flowering parameters were recorded.

The data presented in Table 1 revealed that sprouting of bulbs was advanced (30.10 days) with the treatment N₃₀ as compared to N₁₀ or N₂₀. However, there was no significant advancement in sprouting of bulbs with different levels of P and K. This might be due to absorption of nitrogen through surface of bulbs which have resulted in early sprouting. Similar

Table 1 : Impact of NPK on growth and flowering of tuberose cv. SINGLE

Treatments (g/m ²)	Days to sprouting	Leaves per plant	Length leaves(cm)	Plant height(cm)	Days to spike initiation	Length of spike(cm)	Flowering duration	Spikes per clump
N ₁₀	36.02	32.01	36.02	93.37	102.20	45.80	18.72	1.17
N ₂₀	33.02	36.20	42.20	101.02	100.32	47.50	20.52	1.34
N ₃₀	30.10	42.22	46.72	103.24	98.07	48.86	21.70	1.48
C.D. (P=0.05)	2.04	2.61	1.65	3.17	1.91	1.21	0.66	0.06
P ₁₀	32.50	32.01	42.11	90.34	101.10	45.75	18.13	1.21
P ₂₀	33.85	35.81	42.22	99.36	100.62	46.68	19.00	1.31
P ₃₀	33.32	36.40	44.32	102.68	99.10	46.72	20.13	1.42
C.D. (P=0.05)	NS	1.21	0.92	2.12	NS	NS	0.33	0.04
K ₁₀	33.04	33.01	42.01	98.65	100.46	44.04	18.10	1.18
K ₂₀	33.01	34.08	42.32	99.45	100.20	45.22	19.64	1.42
K ₃₀	33.26	34.02	42.32	98.67	100.10	45.25	19.10	1.30
C.D. (P=0.05)	NS	NS	NS	NS	NS	NS	0.32	0.05

NS=Non-significant