

Experiment No. : LSVT : Tomato

1. Title of the experiment : LSVT of Tomato
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2. Investigators : Co-PI:- Dr. A.I.Patel
Associate: Dr.H.R.Rathod
3. Locations : RHRS; NAU; Navsari
4. Agro-ecological situation : South Gujarat Heavy Rainfall Zone, AES – III
5. Year and Season : Rabi – 2024-25
6. Experimental Details :
- (A) (a) Design : RBD
(b) Replication : 3
(c) Treatments : 10+3(C)=13
(d) Spacing : 90 x 45 cm
(e) Plot size : 3.6 x 3.6 m

(B) Results:-

Table 1: Fruit Yield (Q/ha)

Sr.No.	Entries	Replications			Total	Total Yield (Q/ha)	GT 7 (C)	GAT 8(C)	Kashi Aman (NC)
		I	II	III					
1	ATL 22-03	331.02	299.15	283.18	913.35	304.45	1.75	6.78	1.23
2	ATL 22-06	256.48	237.58	255.56	749.61	249.87			
3	ATL 23-02	365.51	295.45	360.49	1021.45	340.48	13.80	19.42	13.21
4	ATL 23-05	360.11	308.26	344.37	1012.73	337.58	12.83	18.40	12.24
5	JTL 21-10	244.75	220.68	261.73	727.16	242.39			
6	JTL 22-07	260.65	283.10	229.24	772.99	257.66			
7	NTL 21-02	197.76	214.51	241.98	654.24	218.08			
8	NTL 21-03	240.59	233.80	257.25	731.64	243.88			
9	SKT 23-01	219.52	249.46	283.72	752.70	250.90			
10	SKT 23-02	213.66	252.16	307.72	773.53	257.84			
11	GT 7 (C)	321.60	300.85	275.15	897.61	299.20			
12	GAT 8 Anand Roma (C)	267.90	273.69	313.73	855.32	285.11			
13	Kashi Aman (NC)	329.17	304.40	268.67	902.24	300.75			
					S.Em.±	16.01			
					CD at 5%	46.73			
					CV%	10.05			

Table 2: Ancillary observations

Sr.No.	Entries	Yield q/ha	Plant height (cm)	Average fruit			No.of fruits/plant	No. Branches/plant	TLCV(%)
				Length (cm)	Girth (cm)	Weight (g)			
1	ATL 22-03	337.58	102.20	5.89	10.82	68.20	19.20	4.60	9.38
2	ATL 22-06	249.87	98.08	6.02	9.08	53.60	18.40	5.20	11.46
3	ATL 23-02	340.48	104.66	6.67	14.10	74.82	21.60	6.40	6.25
4	ATL 23-05	304.45	100.60	6.77	13.60	71.30	23.20	6.00	6.25
5	JTL 21-10	242.39	98.30	5.82	10.30	51.49	22.20	5.20	9.38
6	JTL 22-07	257.66	95.27	6.44	10.40	52.75	20.60	5.40	10.42
7	NTL 21-02	218.08	85.95	5.80	9.40	48.92	18.60	4.80	8.33
8	NTL 21-03	243.88	98.70	6.10	9.98	50.39	20.40	4.60	11.46
9	SKT 23-01	250.90	102.33	6.18	10.14	52.48	19.80	4.40	10.42
10	SKT 23-02	257.84	104.72	7.33	10.88	51.10	21.20	4.60	11.46
11	GT 7 (C)	299.20	106.36	8.24	12.30	60.10	23.20	4.80	8.33
12	GAT 8 Anand Roma (C)	285.11	100.90	8.38	12.05	67.40	20.20	5.60	9.38
13	Kashi Aman (NC)	300.75	105.70	7.44	13.02	63.30	21.20	5.20	8.33

Conclusion:

This trial was conducted to evaluate 10 lines using three checks (3 varietal checks *viz.*, GT-7, GAT – 8 and Kashi Aman). The genotypic differences were found significant for fruit yield. The line ATL 23-02 was given 13.80%, 19.42%, and 13.21% higher yield over check *viz.*, GT-7, GAT – 8 and Kashi Aman.