

LSHT: Tomato

1. Title of the experiment : LSHT : of Tomato
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 2. Investigators : Co-PI:- Dr. A.I.Patel
Associate: Dr.D.R.Bhanderi
 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 : 5+3(C) = 8
 - (d) Spacing : 90 x 45 cm
 - (e) Plot size : 1.8 x 3.6 m
- (B) Results:-

Table 1: Fruit Yield (Q/ha)

Sr.No.	Entries	Replications			Total	Fruit Yield (Q/ha)	Increase % over Check Arka Rakshak	Increase % GAT 5 ©	Increase % over Check GAT 8
		I	II	III					
1	ATH 22-01	348.77	382.10	381.02	1111.88	370.63	21.01	25.41	23.93
2	ATH 22-03	320.52	339.20	341.36	1001.08	333.69	9.94	12.92	11.57
3	ATH 23-02	271.60	319.75	220.68	812.04	270.68			
4	ATH 23-05	314.51	344.14	282.41	941.05	313.68	2.42	6.15	4.89
5	NTH 20-02	287.50	240.74	230.25	758.49	252.83			
6	Arka Rakshak (NC)	375.00	283.95	259.88	918.83	306.28			
7	GAT 5 (C)	339.51	270.83	276.23	886.57	295.52			
8	GAT 8 Anand Roma (C)	261.57	305.09	330.56	897.22	299.07			
					S.Em.±	21.61			
					CD at 5%	65.53			
					CV%	12.26			

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	ATH 22-01	370.63	109.40	7.90	12.60	74.68	23.20	6.60	8.33
2	ATH 22-03	333.69	107.72	6.72	11.20	70.22	20.40	6.20	8.33
3	ATH 23-02	270.68	98.66	6.08	10.30	56.60	18.80	5.60	12.50
4	ATH 23-05	313.68	104.40	7.12	10.95	66.40	20.20	5.20	12.50
5	NTH 20-02	252.83	92.20	6.60	9.64	56.60	17.20	4.80	12.50
6	Arka Rakshak (NC)	306.28	105.20	7.23	11.02	67.20	18.60	5.60	8.33
7	GAT 5 (C)	295.52	100.72	6.44	9.98	66.30	18.20	5.20	10.42
8	GAT 8 Anand Roma (C)	299.07	104.40	6.52	10.22	50.96	22.40	5.40	10.42

Conclusion:

This trial was conducted to evaluate 5 hybrids using three check (check *viz.*, Arka Rakshak, GAT 5 and GAT 8). The differences were found significant for fruit yield. The hybrid ATH 22-01 was given 21.01 %, 25.41 % and 23.93 % higher yield over check Arka Rakshak, GAT 5 and GAT 8 respectively.