

**Experiment No. : PHT : Tomato**

1. Title of the experiment : PHT 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 : 6+3(C)=9  
(d) Spacing : 90 x 45 cm  
(e) Plot size : 1.8 x 3.6 m

(B) Results:-

**Table : 1 Performance of fruit yield in trial PHT on tomato (q/ha)**

Sr. No.	Entries	R-I	R-II	R-III	Total	Fruit Yield (q/ha)	% increase over check		
							GT 6 (C)	GT 7 (C)	Kashi Aman (NC)
1	NTH 23-01	210.19	191.36	168.98	570.52	190.17			
2	NTH 23-03	242.90	282.72	270.99	796.60	265.53			
3	NTH 23-05	287.96	306.48	338.27	932.72	310.91	8.20	7.41	9.24
4	NTH 22-02	276.23	287.65	253.40	817.28	272.43			
5	NTH 22-04	313.73	338.73	273.46	925.93	308.64	7.40	6.63	8.44
6	NTH 22-05	251.54	306.79	257.56	815.90	271.97			
7	GT – 6 (C)	281.79	276.85	303.40	862.04	287.35			
8	GT- 7 (C)	291.36	334.88	242.13	868.36	289.45			
9	Kashi Aman (NC)	322.84	289.66	241.36	853.86	284.62			
					<b>S.Em.</b>	15.64			
					<b><math>\pm</math></b>				
					<b>C.D. at 5 %</b>	46.88			
					<b>CV %</b>	9.83			

## Results and interpretation:

The trial was carried out with six hybrids including three checks *viz.*, GT-6 (C), GT 7(C) and Kashi Aman (NC). NTH-23-05 recorded significantly higher fruit yield (310.91 q/ha) with 8.20 %, 7.41 % and 9.24 % fruit yield over checks *viz.*, GT 6(C), GT 7 (C) and Kashi Aman (NC), respectively.

**Table: 2 Ancillary observations:**

Sr. No.	Entries	No. of fruit /plant	Average Fruit			Days to 50% flowering	Plant height (cm)	No. Branches/plant	TLCV(%)
			Length (cm)	Girth (cm)	Wt. (g)				
1	NTH 23-01	15.40	5.60	9.68	45.81	55.67	75.82	4.73	10.42
2	NTH 23-03	18.00	5.67	9.53	52.81	55.33	79.02	5.33	10.42
3	NTH 23-05	21.80	6.82	12.54	64.21	52.00	95.22	5.87	8.33
4	NTH 22-02	16.47	5.71	11.54	47.69	54.33	80.83	5.20	14.58
5	NTH 22-04	23.13	6.61	14.18	59.57	53.67	75.27	6.20	8.33
6	NTH 22-05	18.53	6.02	11.43	54.40	54.00	66.50	5.53	12.50
7	GT – 6 (C)	18.00	6.24	11.24	49.71	56.00	69.25	5.53	16.67
8	GT- 7 (C)	19.33	6.26	11.58	62.85	55.67	79.90	5.67	10.42
9	Kashi Aman (NC)	19.67	6.09	11.20	60.76	54.33	76.67	5.53	14.58