

Experiment :LSVT : Onion White

1. **Title of the experiment** : **LSVT on High TSS onion**
2. **Location** : Regional Horticultural Research Station
ASPEE College of Horticulture
Navsari Agricultural University, Navsari
3. **Agro-ecological situation** : South Gujarat Heavy Rainfall Zone, AES – III
4. **Year and Season** : *Rabi-2024-25*
5. **Principal Investigator** : Dr. J.M.Vashi
- Co- Investigators** : Dr. D.R.Bhanderi
- Associate** : Dr. A.I.Patel
6. **Experimental Details** :
 - (a) **Design** : RBD
 - (b) **Replication** : 3
 - (c) **Treatments** : 7+5(C) = 12
 - (d) **Spacing** : 2.25 m x 2.00 m
 - (e) **Plot size** : 15 cm x 10 cm
 - (f) **Fertilizers** : 75:60:50 (NPK kg/ha)

Table 1:Total Yield (q / ha)

S. N.	Entries	Replication			Mean Yield (q / ha)	% increase over best check PWF-131 (NC)
		I	II	III		
1	JRO-14-03	232.89	282.22	299.33	271.48	
2	JRO-14-04	301.78	261.56	324.89	296.07	
3	JRO-14-02	308.44	326.44	251.78	295.56	
4	JRO-14-03	262.67	220.00	238.22	240.30	
5	GP-122	302.22	277.33	350.44	310.00	
6	GP-123	304.22	369.33	298.22	323.93	9.17
7	JRO-14-08	260.00	325.78	309.33	298.37	
8	GJRO-11 (SC)	308.67	287.78	325.78	307.41	
9	GJWO-3 (SC)	277.11	303.56	331.56	304.07	
10	GAWO-02(SC)	318.44	281.11	306.00	301.85	
11	PWF-131(NC)	323.78	302.44	264.00	296.74	
12	AGFL-Red (NC)	343.11	281.33	306.00	310.15	
S. Em.± =					18.66	
C.D. at 5 % =					54.71	
C.V. % =					10.91	

Conclusion: This trial was conducted to evaluate 12 lines using five checks. The genotypic differences were found significant for bulb yield. The line GP-123 was given 9.17 % higher yield over best check **PWF-131**.

Table 2: Ancillary observations

Sr. No.	Entries	Marketable Bulb Yield (kg/plot)	No. of marketable bulb above 2.5 cm diameter	% of double bulbs (on number base)	% of bolter	% of rotting	Total yield (q/ha) inclusive weight of all the bulbs	Neck thickness in cm to be taken after curing of bulbs	T.S.S. %
1	JRO-14-03	12.22	155.33	0.00	0.00	2.66	271.48	3.36	17.20
2	JRO-14-04	13.32	178.67	0.66	0.00	1.33	296.07	3.45	21.33
3	JRO-14-02	13.30	172.67	0.00	0.00	0.00	295.56	3.39	20.44
4	JRO-14-03	10.81	156.67	1.33	0.00	0.00	240.30	3.66	18.33
5	GP-122	13.95	188.00	0.00	0.00	0.00	310.00	3.72	18.20
6	GP-123	14.58	225.67	0.00	0.00	0.00	323.93	3.88	18.55
7	JRO-14-08	13.43	165.66	0.00	0.00	0.00	298.37	3.67	17.30
8	GJRO-11 (SC)	13.83	182.33	0.00	0.00	0.00	307.41	3.62	16.60
9	GJWO-3 (SC)	13.68	177.66	0.00	0.00	0.00	304.07	3.66	15.74
10	GAWO-02(SC)	13.58	167.33	0.00	0.00	0.00	301.85	3.60	17.90
11	PWF-131(NC)	13.35	162.33	0.00	0.33	0.00	296.74	3.55	18.40
12	AGFL-Red (NC)	13.96	208.33	0.00	0.00	0.00	310.15	3.64	19.21

Table 3: Ancillary observations

Sr. No.	Entries	Days to maturity 60-70% neck fall or yellowing symptoms	Days to harvest after transplanting	BDP (cm)	BED (cm)	Bulb weight (g)
1	JRO-14-03	88.67	122.67	4.49	4.58	40.42
2	JRO-14-04	90.33	123.67	4.59	4.52	42.66
3	JRO-14-02	88.33	123.00	4.55	4.44	42.33
4	JRO-14-03	86.33	121.67	4.53	4.56	38.33
5	GP-122	87.33	123.33	4.62	4.74	43.92
6	GP-123	85.67	121.33	4.80	4.77	46.66
7	JRO-14-08	84.67	122.00	4.55	4.66	42.45
8	GJRO-11 (SC)	88.00	124.00	4.59	4.50	43.40
9	GJWO-3 (SC)	89.00	120.67	4.57	4.62	42.33
10	GAWO-02(SC)	87.00	121.00	4.63	4.60	43.95
11	PWF-131(NC)	87.33	125.00	4.64	4.66	43.70
12	AGFL-Red (NC)	86.33	121.33	4.63	4.65	44.66