

**Experiment :LSVT : Onion Red**

1. **Title of the experiment** : **LSVT on Red**
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.N.K.Patel
6. **Experimental Details** :
  - (a) **Design** : RBD
  - (b) **Replication** : 3
  - (c) **Treatments** : 6+4 (C) = 10
  - (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 AGFL -Red (NC)
		I	II	III		
1	JRO-14-09	256.89	292.44	264.00	271.11	-
2	JRO-14-14	291.56	258.44	278.44	276.15	-
3	JRO-16-06	276.44	278.89	297.56	284.30	-
4	JRO-16-08	362.89	382.44	311.56	352.30	15.09
5	JRO-16-10	257.56	299.78	274.22	277.19	-
6	JRO-16-11	304.89	318.22	285.56	302.89	1.25
7	Pilli Patti (SC)	262.22	265.56	303.56	277.11	-
8	Talaja Red (SC)	258.44	304.22	324.44	295.70	-
9	GJRO -11 (SC)	309.56	353.33	254.89	305.93	-
10	AGFL -Red (NC)	271.33	320.00	306.00	299.11	-
S. Em.± =					15.16	
C.D. at 5 % =					40.03	
C.V. % =					8.92	

**Conclusion:**

This trial was conducted to evaluate 6 lines using four checks. The genotypic differences were found significant for bulb yield. The line JRO 16-08 was given 15.09 % higher yield over best check AGFL -Red (NC).

**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-14-09	12.20	175.33	0.66	3.33	1.33	271.11	3.08	9.02
2	JRO-14-14	12.43	180.66	0.00	0.00	0.00	276.15	3.14	8.75
3	JRO-16-06	12.79	192.66	0.00	0.33	0.33	284.30	3.20	8.62
4	JRO-16-08	15.85	245.33	0.00	0.00	0.00	352.30	3.92	9.94
5	JRO-16-10	12.47	188.00	0.66	0.66	0.33	277.19	3.26	7.82
6	JRO-16-11	13.63	202.33	0.00	0.00	0.00	302.89	3.49	8.36
7	Pilli Patti (SC)	12.47	186.33	0.33	0.00	0.00	277.11	3.42	10.32
8	Talaja Red (SC)	13.31	190.33	0.00	0.00	0.00	295.70	3.66	9.56
9	GJRO -11 (SC)	13.77	200.33	0.00	1.33	0.66	305.93	3.71	11.72
10	AGFL -Red (NC)	13.46	195.66	0.00	0.00	0.33	299.11	3.68	10.88

**Table 3: Ancillary observations**

<b>Sr. No.</b>	<b>Entries</b>	<b>Days to maturity 60-70% neck fall or yellowing symptoms</b>	<b>Days to harvest after transplanting</b>	<b>BDP (cm)</b>	<b>BED (cm)</b>	<b>Bulb weight (g)</b>
1	JRO-14-09	86.33	122.00	3.96	4.12	36.40
2	JRO-14-14	88.00	118.00	4.04	4.22	36.60
3	JRO-16-06	90.00	120.00	4.10	4.20	35.88
4	JRO-16-08	88.66	119.66	4.78	4.88	44.72
5	JRO-16-10	85.33	123.33	4.23	4.55	35.10
6	JRO-16-11	87.33	118.66	4.17	4.48	36.77
7	Pilli Patti (SC)	86.33	120.33	4.70	4.66	38.20
8	Talaja Red (SC)	87.00	118.66	4.52	4.72	41.39
9	GJRO -11 (SC)	86.33	117.33	4.56	4.77	40.80
10	AGFL -Red (NC)	84.66	121.00	4.66	4.81	40.65