

# RESEARCH ACTIVITIES

## NEW VARIETIES

### Okra : Gujarat Okra Hybrid-2 :

This hybrid recorded the highest green fruit yield of 148.36 q/ha which was 23.33, 27.86 and 40.95% higher than check



varieties GOH-1 (123.40q/ha) Parbhani Kranti and Pusa Sawani (105.26 g/ha) respectively. The fruit of Gujarat Okra Hybrid -2 are green ,tender and attractive.

### Custard apple:Junagadh Custard Apple-1 (JCA-1) :

The variety, registered 45.86, 22.59 and 23.21 per cent higher fruit yield, as compared to checks Sindhan and Selection-11 and 12, respectively. The variety possessed more number of fruits per tree than the checks besides showing less number of seeds per fruit along with higher pulp content. The variety was accepted for release in Saurashtra region.



## RECOMMENDATIONS FOR FARMER

- Mango :** Nurseryman of Gujarat state interested to prepare mango graft are advised to use stone variety Kesar as a root stock for vigorous growth and better survival against salt stress up to EC 2.00 dSm<sup>-1</sup> of water.
- Acid lime:** Kagzilime growers of SSAZ are recommended that 20 years old rejuvenated tree through medium pruning (2.00 m height at ground level) should apply 50% of the recommended dose of fertilizer (25 kg FYM, 450 g N, 375 g P<sub>2</sub>O<sub>5</sub> & 250 kg K<sub>2</sub>O) in which 25 kg FYM with half dose of Nitrogen i.e. 225 g N, 375 g Phosphorus and 250 g

Potassium per tree should be at the onset of monsoon and remaining 50% dose of Nitrogen i.e. 225 g N in the month of March for getting higher net return along with higher yield and quality fruits of acid lime.

- Onion:** The farmers of SSAZ growing onion (Gujarat White Onion -1) for seed production are recommended to plant bulbs on ridges by keeping spacing of 30cm x 30cm for getting higher seed yield and net profit.
- Onion:** For effective and economical management of onion thrips in *rabi* season, two sprays of Polytrin-C 44 EC 0.044 per cent (CBR 1:9.33) or endosulfan 35 EC 0.07 per cent (CBR 1:8.21) or profenofos 50 EC 0.05 per cent (CBR 1:7.77) or imidacloprid 17.8 SL 0.004 per cent (CBR 1:7.45) or carbosulfan 25 EC 0.05 per cent (CBR 1:6.30) at 15 days interval starting from pest infestation are recommended under South Saurashtra region.
- Okra:** Considering the effectiveness and economics of different IPM module for okra under South Saurashtra conditions, IPM modules (CBR 1:6.23) comprising seed treatment of thiamethaxam @ 2.8 kg/seed, clipping of the infested shoots, pheromone trap @ 20 trap/ha at shoot damage appearance and spraying of endosulfan 0.07 per cent on need base is recommended.
- Castor:** The farmer of SSAZ having irrigation water salinity up to 2 dS/m are advised to prefer castor variety GC-3.
- Castor:** The farmer of SSAZ growing castor in medium black calcareous soil deficient to marginal in K and Zn availability are advised to apply 50 kg K<sub>2</sub>O + 50 kg ZnSO<sub>4</sub> per ha as basal in addition to recommended fertilizer dose (N:P 75:50 kg/ha) for getting higher yield and net return.
- Wheat:** The farmer of SSAZ adopting wheat-groundnut crop

sequence in a medium black calcareous soils are advised to apply 80 Kg K<sub>2</sub>O + 25 Kg ZnSO<sub>4</sub> per ha to wheat crop only as basal in addition to RDF (N:P -120:60 and N:P-12.5:25 to wheat and groundnut, respectively for getting higher yields of crops in wheat-groundnut sequence.

- Cotton:** The farmer of SSAZ growing hybrid cotton in medium black calcareous soil are advised to apply recommended dose of nitrogen in the form of urea only.
- Mango:** Scientists are advised to keep freshly harvested mature mango fruits cv. Kesar in a small cool chamber at 14 °C with 90% RH to maintain the fruit quality up to 25 days. **(For scientific community)**

## Donors of Gold Medal

- Brid. Anil Adalakh, New Delhi, donated Rs. 1.25 lakh to award a Gold medal to a student of Agriculture faculty showing all round brilliant performance at the end of B.Sc.(Agri.) degree course.
- Late Malaykumar Dhirendrabhai Vaidya donated Rs.50,000/- to award a Gold Plated Silver Medal to a student of B.Tech. (Agri. Engg.) faculty.

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