## **RESEARCH ACTIVITIES**

## **NEW VARIETIES**

Okra: Gujarat Okra Hybrid-2: This hybrid recorded the highest

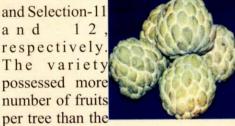
green fruit yield of 148.36 q/ha which was 23.33, 27.86 and 40.95% higher than check



varieties GOH-1 (123.40g/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 1 2



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

- 1. 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 P2O5 & 250 kg K2O) in which 25 kg FYM with half dose of Nitrogen i.e. 225 g N, 375 g Phosphorus and 250 g

- Potassiunm 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 (Guiarat White Onion -1) for seed production are recommended to plant bulbs on ridges by keeping spacing of 30cm x 30cm for getting higher seed vield 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 endosulfan0.07 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 ZnSO4 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 9. growing hybrid cotton in medium black calcareous soil are advised to apply recommended dose of nitrogen in the form of urea only.
- 10. 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**

- 1. Brid. Anil Adalakha, 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.
- 2. Late Malaykumar Dhirendrabhai Vaidva donated Rs.50,000/- to award a Gold Plated Silver Medal to a student of B.Tech. (Agri. Engg.) faculty.

