

and contain higher soluble solids (36.12%) as compared to GG-3 (35.50%) and G-282 (34.75%). The Guj. Garlic-4 variety is released for cultivation in the region of Saurashtra and Middle Gujarat.

#### Garlic :

Farmers of South Saurashtra Agro-climatic Zone growing garlic are advised to apply three sprays of thiophanate methyl 70 % WP @ 0.05 % (CBR 1: 7.85) or hexaconazole 5 % EC @ 0.008 % (CBR 1:6.48) at 10 days interval starting from initiation of powdery mildew (*Leveillula taurica*) disease during rabi season for its economic and effective management. However, those who are interested in organic farming can use wettable sulphur 80 WP @ 0.30 % (ICBR 1 : 8.67).

#### Banana :



The farmers of South Saurashtra Agro-climatic Zone growing banana are advised to grow variety "Gandevi Selection" for higher yield and income per hectare.

#### Papaya :

Papaya growers of Saurashtra region are advised to grow Madhubindu variety for maximum papain production. Further, they are advised to extract papain from papaya at 80 days old fruits for getting maximum fresh and dry weight of latex (crude papain).

#### Coriander :



For effective and economical management of aphid in coriander, farmers of South Saurashtra region are advised to apply seed treatment with thiamethoxam 70 WS @ 4.2 g/kg seed (CBR 1:4.94).

#### Chickpea :



For effective and economic management of *Heliothis armigera* in chickpea, farmers of South Saurashtra Agro-

climatic Zone are advised to spray fenvalerate 0.02 % at 50 per cent flowering followed by second spray of endosulfan 0.07 % at 50 per cent pod formation (CBR 1:9.85).

#### Chickpea :

For effective and economic management of gram pod borer in chickpea, farmers of South Saurashtra Agro-climatic Zone are advised to apply three sprays of profenophos @ 750 g a.i./ha. (1.5 litre/ha) (CBR 1:2.47) or go for alternate spray of NSKE 5 %, Bt 1 kg/ha and profenophos 750 g a.i./ha (1.5 litre/h) (CBR 1:1.98) at 10 days interval starting from 50 per cent flowering.

#### Gir cow :



Milk replacer containing the following ingredients is useful to replace 50 per cent of whole milk for feeding weaned Gir calves, without any adverse effect on body growth. Ingredient composition for one kg milk replacer is wheat flour -100g, soybean meal, 120g, groundnut cake meal - 400g, skim milk powder-130g, coconut oil-100g, butyric acid- 3g, molasses/jaggary-65 % - 100g, mineral mixture - 32g and citric acid-15g.

#### Mullet fish culture :



It is recommended to incorporate *Prosopis juliflora* pod powder @ 20 % alongwith fish meal - 10 %, soyabean meal - 40 %, wheat bran - 15 % and cotton seed oil cake - 15 % in pelleted feed for higher production as well as greater survival rate in mullet fish culture.

#### Peanut butter :

The entrepreneurs/farmers interested in value addition in peanut are recommended to select the GG-20 cultivar (in comparison to GG-2, GG-7, GG-11, GG-13) of peanut for the production of good quality peanut butter.

#### Cleaner-cum-Grader for Cumin :

The cumin cleaner-cum-grader machine developed by Junagadh Agricultural University has cleaning efficiency of 75 per cent at the capacity of 50 kg/h and a low cost of cleaning (Rs. 0.31 per kg). It is recommended for the use of farmers, processors and other users.

## Publication

#### 1. Book :

1. Plantation pakoni kheti paddhati (Cultivation Methods of Plantation Crops)
2. Mari masala ane tejana pakoni kheti paddhati (Cultivation Method of Spices and Condiments)

Author: Dr. P.K. Kapadiya, Associate Research Scientist, JAU, Mahuva

#### 2. Pamphlet: Hi-Tech Horticulture Park

The Department of Horticulture, JAU, Junagadh

#### 3. Technical Bulletin :

- (1) Research Highlight of Mealybug in Saurashtra (1974-2007) Authors: Dr. M.N. Kapadia, Prof, N.N. Beria, Dr. M.F. Acharya and Dr. V.R. Virani, The Department of Entomology, JAU, Junagadh
- (2) Glimpess of Research on Groundnut Pests in Saurashtra Authors: Dr. M.N. Kapadia, Prof, N.N. Beria, Dr. M.F. Acharya and Dr. M.N. Motka, The Department of Entomology, JAU, Junagadh