

1. **Name of the Research Station/KVK, DAATTC** : DAATTC, Jogipet, ARS, and DAATTC, Tornala
2. **Name of the Team leader** : K. Rahul Viswakarma, Coordinator, DAATTC, Jogipet
- Name(s) of the Scientists participated** : K. Saritha, Scientist (Horticulture), DAATTC, Jogipet  
Dr. N. Sainath, Scientist (SSAC), ARS, Tornala  
Ch. Pallavi, Scientist (Agronomy), DAATTC, Tornala
4. **Name (s) of the Departmental officers participated:**  
Sri. N. Manohara, ADA, Sangareddy  
Sri. A.V.G.K.Prasad, AO, Sangareddy  
Sri. T.Gayatri, AEO, Sangareddy  
B. Sravan, AEO, Sangareddy  
Sri. K. Anjaneyulu, BTM, Sangareddy  
Y. Beena, BTM, Sangareddy  
Sri. G. Soujanya, ATM, Sangareddy
5. **Name (s) of the farmers participated/Interacted with, if any:**

Sanjeeva Reddy, D. Venkatesham, N. Vijayamma, K. Lingamaiah, G. Shekar, N. Ravikumar, S. Srinivas, Satyanarayana, Avula Narsimhulu, G.Vikas, Y. Veeresh

- 1 **Date of visit** : 02-09-2021
- 2 **Place of visit** : Shivampet, Rajampet, Vaikuntapuram, Thallapally, Kulabgur, Kalabgur
- Mandal** : Sangareddy and Pulkal
- District** : Sangareddy

- 3 **GPS Coordinates of field visited** :

Name of the farmer	Name of the village	GPS Coordinates
Sanjeeva Reddy	Vaikuntapuram	17 <sup>0</sup> .37'49''N, 78 <sup>0</sup> .5'49''E
D. Venkatesham	Kulabgur	17 <sup>0</sup> .37'51'', 78 <sup>0</sup> .5'47''
N. Vijayamma	Kalabgur	17 <sup>0</sup> .37'51'', 78 <sup>0</sup> .5'48''
Lingamaiah	Thallapally	17 <sup>0</sup> .37'43'', 78 <sup>0</sup> .6'02''
Avula Narsimhulu	Shivampet	17 <sup>0</sup> .63'11'', 78 <sup>0</sup> .09'68''
N. Ravikumar	Rajampet	17 <sup>0</sup> .62'87'', 78 <sup>0</sup> .10'08''

- 4 **Crop** : Cotton  
Paddy  
Guava
- 5 **Variety/Hybrid grown** : Variety (MTU-1008, JGL-33124-minikit), Hybrids (Sadanand, Navaneeth)
- 6 **Extent of area inspected (acres)** : 23.5 acres.

- 7 **Approx. date of sowing/planting** : June to July, 2021
- 8 **Stage of crop** : Cotton: Flowering to boll development stage  
Paddy: Tillering stage  
Guava: Fruiting stage
- 9 **Type of soil** : Black soils & Red soils
- 10 **Rainfed/irrigated** : Rainfed / Irrigated

11 <b>Management practices and inputs used</b>	<b>Crop: Paddy</b>	<b>Crop: Cotton</b>
	Green manuring (Sowing)-May-June	Sowing (June), herbicide application (Pendimethalin)
	Nursery (No pests observed)-June	15 DAS- 20:20:0:13 (1 bag) and 20 kgs Potash
	Incorporation of GM (1 bag SSP)-June-July	Running of Guntaka between rows
	At Transplanting (1 bag DAP)-July	Manual weeding (line)
	Weeding (Manually)-August	45 DAS- 20:20:0:13 (1 bag)
	Top dressing - Urea (1 bag)-August	

- 12 **Insect pests/diseases observed (specify)**

<b>Crop</b>	<b>Stage of the crop</b>	<b>Insect pests/diseases observed</b>
Cotton	Flowering to boll development stage	Jassids, Aphids, Whiteflies (Sucking pests complex)
		Bacterial arm disease
		Magnesium and micronutrient deficiencies
Paddy	Tillering to Maximum tillering stage	Leaf folder
		Stem borer
		Zinc deficiency
Guava	Fruiting stage	Fruit fly

- 13 **Severity and extent of damage due to insect pests/diseases** : White fly and Jassid infestation in cotton was above ETL and Bacterial arm disease incidence was above ETL  
Stem borer and leaf folder incidence was below ETL in paddy  
Fruit fly infestation above ETL in Guava
- 14 **Insecticides/fungicides/bio-agents used along with dose** : In paddy applied PSB @ 2 kgs per acre with 100 kgs FYM  
In cotton, farmers are using plant growth promoters for control of jassids and other sucking pests in cotton.
- 15 **Critical observations, if any** : Jassids and whitefly infestation in cotton was above ETL in all areas.  
Leaf folder incidence was observed in Minikit JGL-33124 but below ETL.
- 16 **Feedback of the farmer** : ✓ Cotton was at boll development stage and they are satisfactory with the crop and sucking pests are the

major problem.

- 18 Suggestions/Recommendations made :**
- ✓ Incidence of pink bollworm in cotton was not observed
  - ✓ Sucking pests complex in cotton as Jassids and whiteflies populations were above ETL.

**17 Cost of cultivation (Rs : - per acre)**

Crop	Insect pests/diseases observed	Suggestions/Recommendations made
Cotton	Sucking pests complex (Jassids, whitefly)	Fipronil 2ml/lit, Acetamiprid @ 0.3g/lit, Diafenthiuron 1.5g/lit and Flonicamid 0.2g/lit of water
	Micronutrient deficiency	Spraying MgSO <sub>4</sub> @10g/lit and 19:19:19 @10g/l
	Bacterial arm disease	COC 30 g + Streptocycline 1g/10 l of water
	Others	<ul style="list-style-type: none"> <li>✓ Recommended to apply Urea and potash as top dressing rather than complex (20:20:0:13) fertilizers.</li> <li>✓ Recommended yellow sticky traps @ 12-15 No. /acre</li> </ul>
Paddy	Stemborer and leaf folder	Cartap hydrochloride 2g/l or Carbofuran 3G @10kg/acre
	Others	<ul style="list-style-type: none"> <li>✓ Recommended not to apply DAP as basal when already green manuring was incorporated (Vijayamma).</li> <li>✓ Top dressing of Urea and potash rather than complex (20:20:0:13) as top dressing</li> </ul>
Guava	Fruit fly	Installation of traps @ 20 No./acre. Mixing of Spinosad @ 0.3ml/lit with sugar solution.