



AICRP-BC



Pest Report & Media Coverage 2020-21

Compiled by

U. Amala

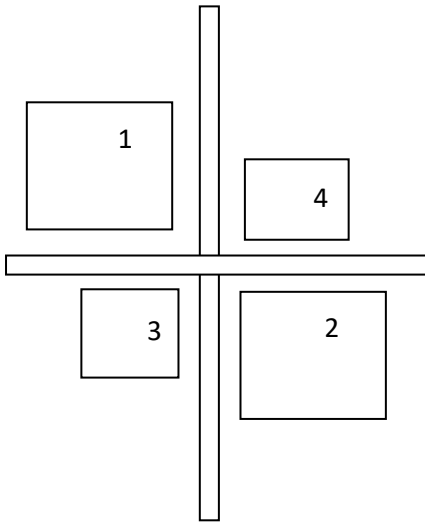
M. Sampathkumar

G. Sivakumar

N. Bakthavatsalam



ICAR-National Bureau of Agricultural Insect Resources
Bengaluru-560024



Cover image(s):

1. Mango fruit Borer, *Citripestis entraperha* (Courtesy: M. Mohan, NBAIR)
2. Cassava mealybug, *Phenacoccus manihoti* (Courtesy: M. Sampath Kumar, NBAIR)
3. Skipper damage in banana plant (Courtesy: Sible George Varghese, RARS, Kumarakom)
4. Rhinoceros beetle grubs (Courtesy: N. Chalpathi Rao, HRS, Ambajipeta)

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CROP PEST REPORT & MEDIA COVERAGE 2020-21



AICRP ON BIOLOGICAL CONTROL OF CROP PESTS
ICAR- NATIONAL BUREAU OF AGRICULTURAL INSECT RESOURCES,



BENGALURU-560024

Contributors

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Compiled by

**U. Amala
M. Sampathkumar
G. Sivakumar
N. Bakthavatsalam
(NBAIR, Bengaluru)**

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Preface

Pest survey and surveillance are integral part in pest management strategies. Undertaking regular survey and surveillance is important for timely spotting of new pests. Pest surveillance is necessary for identification and eradication of invasive and indigenous pest species, fine tuning of pest management practices and at farm level contributes to the essential information to regional bio security efforts. Location-specific and timely advisories based on scientific observations will help in judicious use of biological and chemical pesticides and thereby reducing the pesticide load. Information on pest incidence based on regular surveys and correlating with weather data will enable development of forewarning system for appropriate use in IPM strategy.

Knowledge sharing is essential for the success of any pest management programme. It can facilitate decision-making by farmers. Crop pest reports received from different AICRP-BC centres are being compiled and reported systematically on monthly basis through web-based platform. NBAIR is successful in bringing the important document five years in succession since 2017. This year surveillance undertaken by AICRP centres were moderate due to COVID 19 and received pest reports from 14 centres only. This compiled pest information is expected to help the scientists, extension officials and farmers to mitigate the risks caused by pests. Through newspaper reports AICRP-BC has created awareness amongst farmers across the country on successful biocontrol-based pest management modules.

I appreciate the team work of AICRP-BC centres, and I am sure this document will be useful in understating the pest scenario including invasives that were reported during 2020-21 in the country and the biocontrol programmes that have been carried out by AICRP-BC centres in their respective states.

09 July 2021

(N. BAKTHAVATSALAM)
Project Coordinator AICRP-BC &
Director, In charge, ICAR-NBAIR,
Bengaluru

CROP PEST REPORT

Location specific and timely advisories based on scientific observations will help in judicious use of biological and chemical pesticides and thereby, reducing the pesticide load. Based on regular surveys with weather data leads to development of forewarning system for appropriate use in IPM as well as BIPM strategy. Identification of major and emerging pest scenario under changing climatic situation will also be addressed from time to time. The efforts to generate information on pest scenario from different crops were initiated by this Bureau during 2017 and this is the fifth year of the trial under progress. The status of insect pests and diseases across different crops was monitored through Surveillance for pest outbreak and alien invasive pests - Crop Pest Outbreak Report (CPOR) on monthly basis by different AICRP-BC centres. The status of CPOR reported by the centres between June 2020 and May 2021 are presented hereunder.

1. AAU, ANAND

Maize

Moderate to severe infestation of fall armyworm was recorded at AAU campus during the month of July to August 2020. Severe infestation of fall armyworm in maize was recorded at Godhra in Panchmahal district during the month of September 2020. At Navli, Karamsad, Sandesar, Jahangirpura and Sihol moderate to severe infestation of fall armyworm was recorded during the month of December 2020.

Mango

At Hiranvel in Talala taluk at Gir Somnath district, infestation of mango leaf webber was recorded during the month of October 2020. Moderate to severe infestation of hoppers and leaf webber was recorded at Ganghor and Lushala villages during the month of January 2021.

Coconut

Severe infestation of rugose spiralling whitefly was recorded at Barula Gir and Chorwad during the month of January 2021.

Pigeon pea

During the month of June 2020, infestation of aphids (6-8%) and pod borer (8-10%) was recorded at Untkhari in Umreth in Anand district, Jadhavpura, Chaklasi in Nadiad in Kheda district in pigeon pea.

Groundnut

Moderate infestation of aphids and *H. armigera* was observed at AAU campus at Anand during the month of March to April 2021.

Mustard

Moderate infestation of aphids was recorded at AAU campus at Anand during the month of January 2021.

Onion

Moderate to severe infestation of thrips was recorded at AAU campus at Anand during the month of February 2021.

Brinjal

Moderate infestation of brinjal shoot and fruit borer was recorded at Unthkhari at Umreth in Anand district during the month of August 2020. At AAU campus, Anand severe infestation of leafhoppers and whiteflies was recorded during the month of February 2021.

Okra

Moderate infestation of shoot and fruit borer was recorded at AAU campus at Anand during the month of March 2021.

Chilli

Moderate to severe infestation of thrips and whiteflies was recorded at AAU campus during the month of February 2021.

Cucurbits

At AAU campus, moderate incidence of leaf miner (15-20%) was observed in cucumber during the month of June 2020. During the month of March 2021, moderate to severe infestation of leaf miner was recorded in bottle gourd. Lower infestation of pumpkin beetle was recorded at Napad, Kasumbadpura and AAU campus during the month of May 2021.

Cabbage

Moderate infestation of *Helicoverpa armigera* was recorded at Navli during the month of December 2020. At Navli, severe infestation of painted bug was recorded during the month of April 2021.

2. ANGRAU, RARS ANAKAPELLE

Rice

At Vizianagaram, denkada, Garividi, Cheepurupalli mandals of Vizianagaram district, low to moderate incidence of sheath blight disease was recorded during the month of September 2020. Surveys conducted at the Ransthalam mandal in Srikakulam district during the month of October 2020 recorded low to moderate infestation of leaf folder.

Maize

Low to moderate infestation of fall armyworm (2-8%) was recorded at Vizianagaram, Denkada, Pusapatiregam, Vizianagaram district during the month of July 2020. At Cheepurupalli, Gurla mandals in Vizianagaram district, moderate to severe infestation of fall armyworm (8-22%) was observed. During the month of September 2020, moderate to severe infestation of fall armyworm (12-50%) was observed at Vizianagaram, denkada, Garividi, Cheepurupalli mandals of Vizianagaram district. At Ransthalam mandal in Srikakulam district, low to moderate infestation of fall armyworm was recorded during the month of October 2020. Moderate to severe infestation of fall armyworm was recorded at Garividi, Cheepurupalli mandals in Vizianagaram district during November 2020. At Kumili, Pidisila villages in Vizianagaram District; Pathivada Palem village in Srikakulam district, low infestation of fall armyworm (2-5%) was recorded. FAW infestation was also recorded in the fodder napier grasses grown in close vicinity to the maize crop.

Sugarcane

Surveys conducted at Vizianagaram, Denkada, Pusapatiregam in Vizianagaram district during the month of June 2020 recorded moderate infestation of early shoot borer (15-21%). At Munagapaka in Visakhapatnam district, low infestation of early shoot borer (<5%) was recorded during the month of July 2020. Low to moderate infestation of early shoot borer (5-12%) was recorded at Garividi, Cheepurupalli mandals in Vizianagaram district during the month of November 2020.

Coconut

During July 2020, low infestation of rugose spiralling whitefly damage (<5%) was recorded at Vizianagaram, Denkada, Pusapatiregam, Vizianagaram district. Low to moderate infestation of rugose spiralling whitefly infestation was recorded at Ransthalam mandal in Srikakulam district during the month of October 2020.

Cashew

Severe infestation of coffee grasshopper was recorded at Vizianagaram, Denkada, Pusapatiregam in Vizianagaram district during the month of June 2020.

3. HRS, AMBAJIPETA

Coconut

During March 2021, the coconut gardens (cv. East Coast Tall, Hybrids and Dwarf gangabondam in Ambajipeta (160 36'04" N 810 56'40" E) were recorded with moderate to severe incidence of bondars nesting whitefly. In rest of the surveyed locations, Thetagunta (17018'18.80482" E 82026'28.83166)" village in East Godavari district; Borivanka village (18098'5431" E 84066'3697") in Srikakulam District; Dharamvaram Agraharam village (N 17041'3716" E 82072'2206") in Visakhapatnam District; Munzerru Village in Vizianagaram District were recorded with low incidence of rugose spiralling whitefly. The occurrence of predators, *Pseudomallada astur*, spiders and parasitoid *Encarsia* sp were recorded in this survey.



RSW infestation on coconut leaves

4. KAU, KUMARAKOM

Pineapple

Pineapple(cv. Mauritius) grown in 10 ac. area in Vazhakulam village in Ernakulam District. witnessed phyllody disease incidence (10-20 %) in December 2020.



Phyllody disease

Banana

In the month of January 2021, low incidence of lace wing bug was observed in the five months old nendran banana cultivated in 1 ac area in Nedumkunnam village in Kottayam District.



Infestation caused by lacewing bugs on banana leaf

Jackfruit

During March 2021, bacterial disease incidence was witnessed in the jackfruit (cv. Vietnam Super Early) cropped at Mevada village in Kottayam District

Coconut

Moderate black headed caterpillar damage was recorded during April 2021 in the coconut gardens at Poovathikkari padasekharam in Kottayam District.



Black headed caterpillar damage in coconut leaves

Nutmeg

Survey undertaken during April 2021 in nutmeg crop grown area at Vazhoor village in Kottayam District witnessed moderate scale insect pest infestation.



Scale insect infestation in nutmeg leaves

5. KAU, Vellayani

Cassava

Severe incidence of wilt disease was recorded at Balaramapuram, Pallichal, Nemom, Kottarakkara villages in Trivandrum, Kollam, Pathanamthitta Districts during the month of February 2021.



Severe wilt incidence

Mango

During the month of March 2021, severe infestation of bagworm was recorded at Pathiyoor village in Alapuzha district. Secondary fruit rot by *Colletotrichum* fungus was also recorded.



Bagworm damage in mangoes

6. OUAT, Bhubaneswar

Paddy

During July to August 2020, the paddy crop grown at Baragarh, Sambalpur, Baleswor, Baragarh area were witnessed moderate infestation of yellow stem borer and leaf folder. Low to moderate infestation of fall armyworm was observed in the paddy crop raised at Kalahandi, Koraput, Raygada districts during September 2020.

In the month October 2020, Baragarh and Balaswar districts recored moderate infestation of yellow stem borer. Moderate infestation of green leafhopper was observed at Cuttack, Puri and Baleswor districts during November 2020.

Maize

Moderate infestation of fall armyworm during November 2020 was observed Koraput and Nawarangapur district.

7. PAU, LUDHIANA

Paddy

Low infestation of yellow stem borer and leaf folder was observed during July to October 2020.

Maize

Low to moderate infestation of stem borer and fall armyworm was observed during July to October 2020.

Sugarcane

Low infestation of borer, *Chilo auricillius* and pyrilla was observed during July to October 2020.

Cotton

Low infestation of sucking pests like thrips, hoppers and whiteflies was observed during July 2020 to October 2020.

8. PJTSAU, Hyderabad

Rice

Low to moderate infestation of hispa damage in nursery and gall midge was recorded at Rajendra nagar during the month of July to August 2020. At Rajendra nagar, moderate to severe infestation of yellow stem borer and brown planthopper was recorded during the month of September 2020. During November 2020, moderate to severe incidence of panicle mite was observed at Rajendra nagar. Moderate infestation of yellow stem borer was recorded at Rajendra nagar during the month of March to April 2021.

Maize

Low to moderate infestation of stem borer and fall armyworm was recorded during the month of September to October 2020 at Rajendra nagar. During the months of November 2020 to February 2021, severe infestation of fall armyworm at Rajendra nagar was observed.

Cotton

Moderate to severe infestation of thrips, aphids, hoppers and whiteflies was recorded during the month of July to September 2020 at Rajendra nagar. During the months of November 2020 to January 2021, severe infestation of pink bollworm was recorded at Rajendra nagar.

Red gram

During the months of July to August 2020, severe infestation of hoppers at Rajendra nagar. Severe pod borer incidence was recorded during September to November 2020 at Rajendra nagar.

Bengal gram

Moderate infestation of pod borer, *Helicoverpa armigera* was observed at Rajendra nagar during the month of December 2020 to January 2021.

Castor

At Rajendra nagar, severe incidence of leafhoppers and semi loopers was recorded during the month of July to August 2020. Severe infestation of shoot and capsule borer was recorded at Rajendra nagar during the month of October 2020.

Groundnut

Severe infestation of leafhoppers and moderate infestation of *Spodoptera litura* was recorded during the month of October 2020 to January 2021 at Rajendra nagar.

Chilli

Severe infestation of thrips and hoppers were recorded during the month of July 2020 to March 2021 at Rajendra nagar. During the month of November 2020, lower infestation of blossom midge and fruit borer was observed at Rajendra nagar.

Brinjal and Bhendi

Moderate to severe infestation of hoppers, aphids and whiteflies were observed during the month of July to November 2020.

Tomato

Low to moderate infestation of hoppers and pinworm was recorded at Rajendra nagar during the month of July to September 2020. Moderate to severe infestation of pinworm and serpentine leaf miner was recorded during the months of January to March 2021 at Rajendra nagar.

Cole crops

Severe infestation of diamond backmoth and moderate infestation of aphids was recorded at Rajendra nagar during the month of October 2020 to February 2021.

Gourds

During the month of November 2020 to March 2021, moderate infestation of leaf hoppers, aphids and severe infestation of fruit flies was observed at Rajendra nagar.

9. TNAU, Coimbatore**Maize**

Severe infestation of fall armyworm was recorded at Vellaravalli in Tirupur district during the month of August 2020. At Gudimangalam in Coimbatore district and Guthiyalathur in Erode district, low to moderate infestation of fall armyworm (5-10% leaf damage) was recorded during the month of September 2020. Moderate tassel damage by fall armyworm was recorded at Kolarpatti in Coimbatore district and Andigoundanur in Tirupur district during the month of October 2020. Low to moderate incidence of fall armyworm was recorded at Jivalsaragu village in Dindugal district, Boluvampaati village in Coimbatore district.

Coconut

Severe infestation of rugose spiralling whitefly was recorded at Muthuvinayakapuram in Tenkasi district, Asaipalayam, NGO colony, Visuasapuram, Erumbukadu villages in Kanyakumari district, Kanal Pudur village in Coimbatore district. In Dindugal district, incidence of leaf blight disease was also recorded.

Guava

Moderate infestation of mealybug, *Ferrisia virgata* was recorded at Vandikaranur village in Coimbatore district during the month of December 2020.

Tomato

Low infestation of pinworm was recorded at Jamin Kaliyapuram, Pullagoundan Pudur villages in Coimbatore district during the month of December 2020.

10. UBKV, PUNDIBARI

Rice

Surveys conducted at Gitdabbling of Kalimpong, Sonapur and Rajabhatkhawa of Cooch Behar and Alipurduar, Gitdabbling Block in Kalimpong-II at Kalimpong, Cooch Behar and Alipurduar districts recorded severe infestation of leaf folder during the month of September 2020.

Maize

At Pundibari GP in Pundibari Block in Coochbehar II, low infestation of fall armyworm was recorded during the month of July 2020.

Coconut

Moderate infestation of rugose spiralling whitefly was recorded at Sagardighi Coochbehar block in Coochbehar I during the month of June 2020. At Pundibari at Cooch Behar district, severe infestation of rugose spiralling whitefly was recorded during the month of October 2020. Surveys conducted at Falakata in Alipurduar district, Damdim in Jalpaiguri district recorded moderate infestation of rugose spiralling whitefly during the month of April 2021.



Rugose spiralling whitefly damage

Tea

Moderate infestation of looper was recorded at Birpara Central Dooars in Alipurduar I block at Alipurduar district during the month of November 2020.



Looper damage in Tea

Brinjal, Cabbage, Potato and Bottle gourd

Moderate infestation of aphid was recorded at Khagribari, Sajherpar Ghoramara, Ghagherkuthi, Rashidanga Dwitia Khanda villages in Coochbehar district during the month of January 2021.

Orange

Moderate infestation of trunk borer was recorded at Gumbagaon in Bong Gram Panchayet at Kalimpong-I block during the month of August 2020.

11. YSPUHF, SOLAN

Tomato

Surveys were undertaken in 12 locations representing Solan, Sirmaur, Bilaspur, Shimla and Kinnaur districts in Himachal Pradesh to record the incidence of the *Tuta absoluta* on tomato from June to November, 2020. The pest was recorded at seven locations viz. Nauni, Deothi, Maryog, Sarahan, Dhaulakuan, Mangarh and Ghumarwin. The percentage of plants infested varied from 13 to 69 with the number of mines/leaf/infested plant varying from 0-4 and fruit infestation from 0-4 per cent at different locations. The pest was also monitored on potato and brinjal, but, no incidence of the pest was recorded on these crops. During the survey, a mirid predatory bug, *Nesidiocoris tenuis* was recorded preying on eggs and early instars of the leafminer.

Maize

Surveys were carried out in collaboration with the state department of agriculture and KVKs at 13 locations Harlog, Dangar, Berthin, Hatwar, Sunder Nagar, Karsog Suni, Rohru, Una Dhaulakuan, Sarahan, Nauni and Nalagarh covering six districts viz. Bilaspur, Mandi, Shimla, Una, Solan and Sirmour to record the incidence of fall armyworm, *Spodoptera frugiperda* on maize. The pest incidence was recorded on all the locations and the percentage of plants infected varied from 5 to 71.

12. SKUAST-JAMMU

Paddy

Surveys carried at Rehian, Glar Rehian, Pangdour in Samba district during August 2020 recorded moderate infestation of leaf folder as insect pest.. Incidence of foot rot (10-15%) disease was also observed.



Foot rot incidence

The paddy cultivars Basmati, Sharbati raised at Khanwal, Raipur, Pangdour Reyian in Samba district were witness with moderate infestation of stem borer and brown spot (35-40%) disease incidence during September 2020. Incidence of leaf blight (10-15%) was recorded in Raipur Camp Reyian in Samba district during October 2020.



Brown spot incidence in Rice

Maize

During June 2020, maize crop cultivated at Mishriwala in Jammu district was infested with stem borer. The level of infestation was recorded as moderate. In the month of July-August 2020, the crop cultivated at Bishnah, Bari-Brahmana, Sarore, Khadergal Sumb, Patyari, Diani, DeraGanotra in Samba district witness severe stem borer and fall armyworm damage. Incidence of turicum leaf blight (15-20%) disease was also observed. Natural enemies like Spiders, dragonflies, damselflies, *Trichogramma* sp., *Stenobracon*, *Xanthopimpla* sp. occurrence was also recorded in the field.



Stem borer damage



Fall armyworm damage



Turcicum leaf blight damage

Pulses

In September 2020, Green gram, black gram grown in Patti Vijaypur, Bari Brahmana in Samba district recorded moderate infestation of whitefly. Incidence of yellow mosaic disease (35-50%) was also observed.



Yellow mosaic disease incidence

Sesame

Sesame crop raised in Patti Vijaypur, Bari Brahmana in Samba district recorded moderate infestation of leafhopper and whitefly during September 2020.

Brinjal

Moderate infestation of hadda beetle was recorded in the bhendi crop grown at Patti Vijaypur, Bari Brahmana in Samba district during September 2020.



Hadda beetle damage in brinjal

Bhendi

Moderate infestation of shoot and fruit borer was observed in bhendi crop grown at Patli, Sarore in Samba district during August 2020.

Bottle gourd

Moderate to severe infestation of red pumpkin beetle was recored in the bottle gourd plant cropped at Rajpur Kathlai, Pangdour in Samba district durng June 2020.



Red pumpkin beetle damage

Guava and Mango

Guave, Mango orchads in Patti Vijaypur, Bari Brahmana in Samba district was witnessed with moderate to severe infestation of fruit fly and beetles damge during September 2020.



Beetle incidence in Guava

13. CAU, PASIGHAT

Paddy

During September 2020, paddy crop (70 DAT) raised at Linzhi, Mebo area in East Siang district over an estimated area of > 10 ha was severely infested with white backed planthopper. Incidence of tungro diseases (30%) was also recorded.

Ber

Surveys undertaken in Ayeng, Mebo area in East Siang district in ber crop during August 2020 witnessed moderate infestation of grey hairy caterpillar, *Thiacidas postica*

Banana

Moderate infestation of skipper was recored at CHF, Pasighat during August 2020.

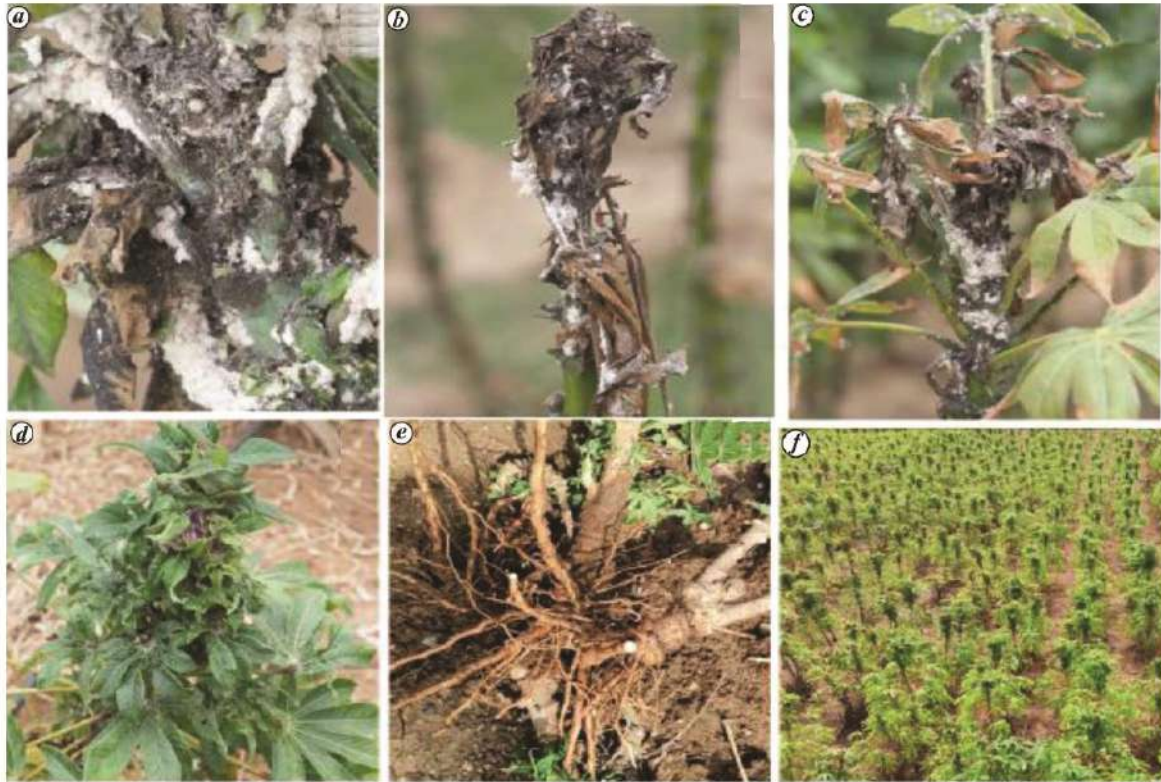


Banana skipper damage

13. ICAR-NBAIR, BENGALURU

Cassava

Cassava cultivars, Sree Athulya and Sree Vijaya cultivated during 2020 at Edappadi and Pethanaickenpalayam blocks of Salem district and Rasipuram, Senthamangalam and Namagiripettai blocks of Namakkal district of Tamil Nadu were severely infested with cassava mealybug. The setts of the above varieties planted between November 2019 and January 2020 were found severely infested during the dry summer months (March–June 2020). The per cent infested plants in the sampled villages varied from 7.0 to 86.7, whereas the bunchy top symptoms appeared on up to 74.3% of the infested plants in certain locations especially in Edappadi, Senthamangalam and Namagiripettai blocks of Salem and Namakkal districts. The CMB density collected from these locations reached a maximum scale of 4 (equivalent to ≥ 1000 mealybugs/shoot tip) with corresponding damage scales of 4 and 5, where, severe distortion and drying of shoot tip, stunting of the plant, defoliation and multiple tillering (bunchy top) occurred. Plants infested by *P. manihoti* were not only stunted, but also had lower harvest indices due to rudimentary or no tuber formation.



Symptoms on cassava due to cassava mealybug damage. *a*, Severely infested twig; *b*, Dried twig; *c*, Drying of leaves and shoot tip; *d*, Cassava plant with bunchy top appearance; *e*, Cassava plant with no tuber formation; *f*, Stunted cassava plants in the field



1. ICAR-NBAIR, BENGALURU

लोकमत



वखारी येथे कापूस पिळावर आधारित मार्गदर्शन करण्यात आले.

वखारीत कापूस पिकावर मार्गदर्शन

लोकमत वृत्त नेटवर्क

जालना : कृषी विज्ञान केंद्र (खरपुडी), राष्ट्रीय एकात्मिक कीड नियंत्रण व्यवस्थापन केंद्र (नवी दिल्ली) यांच्या संयुक्त विद्यमाने वखारी येथे सुरू असलेल्या प्रकल्पांतर्गत कापूस पिकावर ऑनलाईन प्रशिक्षण कार्यक्रम यशस्वीपणे चालू आहे.

प्रमुख मार्गदर्शक म्हणून राष्ट्रीय एकात्मिक कीड व्यवस्थापन केंद्राने प्रमुख शास्त्रज्ञ डॉ. अजंता बिराड, डॉ. अनुप कुमार च. डॉ. मुकेश खोकर, डॉ. रिचा वाष्णोय, डॉ. ओमप्रकाश नायिक यांची उपस्थिती होती. कापूस पिकातील लावलेल्या कामगंध सापटवण्यामध्ये पारंगत सापडत

असल्यामुळे शेतकरी बांधवांनी अर्थिक नुकसानीची पातळी उबळवून शिफारस असलेल्या किटकनाशकांचा योग्य पद्धतीने वापर करावा, असे प्रशिक्षण प्रमुख शास्त्रज्ञ डॉ. अजंता बिराड यांनी केले. सतत पाऊस व जमिनीत कायम जास्तीची ओल असल्यामुळे कापूस झाडाच्या पीक पोषणात अडथळा होत असल्यामुळे विद्राव खतांचा म्हणजेच पोटांशियम नाइट्रेट (१३.०.३५) याचा वापर फायदाकारक करावा, असे आवाहन डॉ. अनुप कुमार यांनी केले. कृषी विज्ञान केंद्राचे कीटक शास्त्रज्ञ ए. जे. मिट्करी यांनी पुत्रसंचालन केले. प्रकल्प सहायक केलस खोडे यांनी आभार मानले.

Hello Jalna
Page No. 3 Oct 21, 2020
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Virtual field visit/demonstration for pink bollworm management at Wakhari Village, Jalna, Maharashtra was organized on 13.10.2020 in collaboration with NCIPM and KVK, Wakhari, Jalna, Maharashtra. From NBAIR Dr. Richa Varshney and Dr. Omprakash Navik attended the meeting. Dr. Richa Varshney briefed about importance of *Trichogrammatoidea bactrae* and release method of this parasitoid. Farmers stated that PBW incidence has started. For that NBAIR has supplied *Trichogrammatoidea bactrae* cards. Farmers released those cards in their fields. Boll damage in IPM field is 2-3% while in Check field it is 40-60 %. Other IPM measures were also discussed to tackle sucking pests in cotton.

लोकमत

शास्त्रज्ञ पोहोचले थेट शेतकऱ्यांच्या बांधावर

वखारी येथे भेट : राष्ट्रीय पातळीवरील एकात्मिक कीड नियंत्रण प्रकल्प, शेतकऱ्यांत समाधान

लोकमत न्यूज नेटवर्क

जालना : पूर्वी शेतकऱ्यांच्या पिकांवर रोग, किडींचा प्रादुर्भाव झाल्यास शेतकऱ्यांना कृषी अथवा अन्य संस्थाकडे विनवण्या कराव्या लागत असत, परंतु आता परिस्थिती बदलली आहे. कृषी विज्ञान केंद्राच्या माध्यमातून आता शास्त्रज्ञांचे पथक थेट शेतकऱ्यांच्या बांधावर येत असल्याने शेतकऱ्यांना मोठा दिलासा मिळत आहे. दोन दिवसांपूर्वी नवी दिल्ली येथील राष्ट्रीय एकात्मिक किड व्यवस्थापन केंद्रातील वरिष्ठ शास्त्रज्ञांनी जालना तालुक्यातील

१६ जूनपर्यंतच कापूस लागवड केल्यास फायदेशीर

- कापूस पिकाची लागवड ही साधारणपणे १६ जून पर्यंत करावी असेही सांगण्यात आले. कापूस पिकातून जेवढे उपन्न शेतकऱ्यांना मिळते तेवढे क्वचितच दुसऱ्या पिकांतून मिळत असेल असेही यावेळी नमूद करण्यात आले.
- यावेळी कृषी विज्ञान केंद्राचे प्रमुख एस.व्ही. सोनुने यांची प्रमुख उपस्थिती होती. प्रशिक्षण मेळाव्याचे सूत्रसंचालन अजय मिट्करी यांनी केले, तर आभार निवृत्ती घुले यांनी मानले. यावेळी परिसरातील शेतकऱ्यांची मोठी उपस्थिती होती.

वखारी येथे भेट दिली.

वखारी येथे जवळपास ७५ एकर परिसरात कपाशीची लागवड केली आहे. या एकात्मिक लागवडीतून कपाशीवर हल्ला करणारी शेंदरी बोंड

अळीचा नायनाट करण्यासाठी विशेष उपक्रम हाती घेतला आहे. त्यानुसार प्रती १६ एकर परिसरात कामगंध सापळे लावून या अळीवर नियंत्रण मिळवण्याचे यशस्वी प्रयत्न सुरू

आहेत. यावेळी दिल्ली येथील ज्येष्ठ शास्त्रज्ञ डॉ. अजंता बिराड, डॉ. अनुपकुमार, डॉ. मुकेश खोकर, डॉ. ए.के. कनोज बंगळूर येथील शास्त्रज्ञ डॉ. रिचा वाष्णोय, डॉ. ओमप्रकाश नायिक यांची उपस्थिती होती. यावेळी कृषी विज्ञान केंद्रातील किटनाशक शास्त्रज्ञ अजय मिट्करी यांनी वखारी येथील शेतकऱ्यांमध्ये आणि शास्त्रज्ञांमध्ये संवाद घडवून आणला. शेतकऱ्यांना येणाऱ्या अडचणी मिट्करी हे शास्त्रज्ञांना मराठीतून समाजावून सांगत होते. यावेळी डॉ. रिचा वाष्णोय यांनी बोंड अळीबाबत मार्गदर्शन केले.

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On farm demonstration on the application of *Trichogrammatoidea bactrae* for the management of cotton pink bollworm, *Pectinophora gossypiella* in Bt cotton at village Wakhari, KVK, Jalna

लोकमत

शास्त्रज्ञ पोहोचले थेट शेतकऱ्यांच्या बांधावर

वखारी येथे भेट : राष्ट्रीय पातळीवरील एकात्मिक कीड नियंत्रण प्रकल्प, शेतकऱ्यांत समाधान

लोकमत न्यूज नेटवर्क

जालना : पूर्वी शेतकऱ्यांच्या पिकांवर रोग, किडींचा प्रादुर्भाव झाल्यास शेतकऱ्यांना कृषी अथवा अन्य संस्थाकडे विनवण्या कराव्या लागत असत, परंतु आता परिस्थिती बदलली आहे. कृषी विज्ञान केंद्राच्या माध्यमातून आता शास्त्रज्ञांचे पथक थेट शेतकऱ्यांच्या बांधावर येत असल्याने शेतकऱ्यांना मोठा दिलासा मिळत आहे. दोन दिवसांपूर्वी नवी दिल्ली येथील राष्ट्रीय एकात्मिक कीड व्यवस्थापन केंद्रातील वरिष्ठ शास्त्रज्ञांनी जालना तालुक्यातील

१६ जूनपर्यंतच कापूस लागवड केल्यास फायदेशीर

- कापूस पिकाची लागवड ही साधारपणे १६ जून पर्यंत करावी असेही सांगण्यात आले. कापूस पिकातून जेवढे उत्पन्न शेतकऱ्यांना मिळते तेवढे वचवितच दुसऱ्या पिकांतून मिळत असेल असेही यावेळी नमूद करण्यात आले.
- यावेळी कृषी विज्ञान केंद्राचे प्रमुख एस.व्ही. सोनुने यांची प्रमुख उपस्थिती होती. प्रशिक्षण मेळाव्याचे सूत्रसंचालन भजय मिटकरी यांनी केले, तर आभार निवृत्ती घुले यांनी मानले. यावेळी परिसरातील शेतकऱ्यांची मोठी उपस्थिती होती.

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आहेत. यावेळी दिल्ली येथील ज्येष्ठ शास्त्रज्ञ डॉ. अजंता बिराड, डॉ. अनुपकुमार, डॉ. मुकेश खोकर, डॉ. ए.के. कनोज बंगळूर येथील शास्त्रज्ञ डॉ. रिचा वाष्णीय, डॉ. ओमप्रकाश नाविक यांची उपस्थिती होती. यावेळी कृषी विज्ञान केंद्रातील किटनाशक शास्त्रज्ञ अजय मिटकरी यांनी वखारी येथील शेतकऱ्यांमध्ये आणि शास्त्रज्ञांमध्ये संवाद घडवून आणला. शेतकऱ्यांना येणाऱ्या अडचणी मिटकरी हे शास्त्रज्ञांना मराठीतून समाजातून सांगत होते. यावेळी डॉ. रिचा वाष्णीय यांनी बोंड अळीबाबत मार्गदर्शन केले.

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लोकमत



शास्त्रज्ञांची भेट... जालना तालुक्यातील वखारी येथील एकात्मिक कापूस कीड नियंत्रण प्रकल्पास राष्ट्रीय पातळीवरील शास्त्रज्ञांनी भेट देऊन पाहणी केली. यावेळी कृषी विज्ञान केंद्रातील शास्त्रज्ञ भजय मिटकरी आणि ग्रामस्थ.

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कापसाचे उत्पादन वाढविणे आवश्यक

डॉ. अजंता बिराह : वखारी येथील प्रकल्पास राष्ट्रीय पातळीवरील शास्त्रज्ञांची भेट

जालना (प्रतिनिधी) : "गुलाबी बोंड अळी व्यवस्थापनासाठी वखारी येथे राबविण्यात येत असलेला 'कपाशी पिकातील एकात्मिक कीडव्यवस्थापन' प्रकल्प देशात एकमेव आहे. या प्रकल्पाचे चांगले निष्कर्ष मिळत असून, या माध्यमातून कापसाचे उत्पादन वाढविणे आवश्यक आहे," असे मत नवी दिल्ली येथील राष्ट्रीय एकात्मिक कीडव्यवस्थापन केंद्राचे प्रमुख शास्त्रज्ञ डॉ. अजंता बिराह यांनी व्यक्त केले. कृषी विज्ञान केंद्र जालना व राष्ट्रीय

एकात्मिक कीड व्यवस्थापन केंद्रातर्फे जालना तालुक्यातील वखारी येथे गुलाबी बोंड अळी व्यवस्थापनावर भर देऊन कापूस एकात्मिक कीड व्यवस्थापन प्रकल्प ७५ एकर क्षेत्रावर राबविण्यात येत आहे. त्यास राष्ट्रीय पातळीवरील शास्त्रज्ञांच्या चर्मुंनी नुकतीच भेट दिली. कीटकशास्त्रज्ञ डॉ. अनुपकुमार, रोगशास्त्रज्ञ डॉ. मुकेश खोकर, बेगलोर येथील राष्ट्रीय कृषी संसाधन ब्युरोचे कीटकशास्त्रज्ञ डॉ. रिचा वाष्णीय, डॉ. ए. कनोज, डॉ. ओमप्रकाश

नाविक, कृषी विज्ञान केंद्राचे किटकशास्त्रज्ञ अजय मिटकरी, प्रकल्प सहाय्यक केल्लास खोडे उपस्थित होते. डॉ. वाष्णीय यांनी 'द्रव्यकोग्रामा बॅक्टेरिया जैविक किटकाचे महत्त्व व वापर' यावर मार्गदर्शन केले. डॉ. ओमप्रकाश यांनी द्रव्यकोग्रामाची अंडी कापूस शेतामध्ये कशाप्रकारे लावावीत याविषयी माहिती दिली.

डॉ. अनुपकुमार म्हणाले, "अळीच्या नियंत्रणासाठी सर्वांनी एकत्रितपणे एकात्मिक कीड व्यवस्थापन पध्दतीचा वापर करावा."

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ICAR–KVK, Needamangalam and ICAR–NBAIR jointly organised an online awareness programme on the Role of beneficial insects in pest management on 04 June 2021. Dr V. Ambethgar, Director, TNAU- Tamil Nadu Rice Research Institute, Aduthurai in his inaugural address stressed the importance of macrobial and microbial inevitable role in sustainable pest management. The invited speaker for the programme, Dr M. Sampath Kumar, Scientist, ICAR-NBAIR delivered a talk on the Role of beneficial insects in pest management. He listed the parasitoids and predators that can be augmented in pest management and also the role of microbial including EPN for insect pest control in major crops. Dr Sampath Kumar enumerated the benefits and ecological advantages of using biological. He also informed deleterious effect of chemical insecticide on environment. A total of 96 participants, comprising mostly farmers from different districts of Tamil Nadu and students attended the awareness programme and took part in the deliberations. The awareness programme was organised by Dr M. Ramasubramanian and Dr V. Radhakrishnan from ICAR–KVK, Needamangalam.

மரவள்ளிக் கிழங்கு பயிரில் மாவப்பூச்சிக் கட்டுப்பாடு கலந்துரையாடல்

ராசிபுரம் பு.ச. 2: தோட்டக்கலைத் துறை சார்பில், மரவள்ளிக் கிழங்கு பயிரில் மாவப்பூச்சிக் கட்டுப்பாடு குறித்து விவசாயிகள் - விஞ்ஞானிகள் பங்கேற்ற கலந்துரையாடல் கூட்டம் மாவட்ட ஆட்சியர் சா.மெகராஜ் தலைமையில் ராசிபுரம் நகராட்சி அலுவலகத்தில் புதன் கிழமை நடைபெற்றது.

நாயக்கல் மாவட்டத்தில் ராசிபுரம், வெண்ணத்தூர், நாமகிரிப் பெட்டை, சேந்தமங்கலம் உள்ளிட்ட வட்டாரங்களில் சுமார் 7 ஆயிரம் ஹெக்டார் பரப்பில் மரவள்ளிக் கிழங்கு பயிரிடப்பட்டுள்ளது. இப்பயிரில் தற்போது மாவப்பூச்சி தாக்குதல் அதிகரித்துள்ளதால், விவசாயிகள் பாதிக்கப்பட்டுள்ளனர். இதனையடுத்து பூச்சிக் தாக்குதலைக் கட்டுப்படுத்தித் தோட்டக்கலைத் துறையினர், பூச்சியியல் வல்லுநர்கள், விவசாயிகள் பங்கேற்றும்



கூட்டத்தில் பங்கேற்ற மரவள்ளி விவசாயிகள்.

கலந்தாய்வுக் கூட்டம் நடத்தி மாவட்ட ஆட்சியர் சா.மெகராஜ் உத்தரவிட்டார்.

அதன்படி நடைபெற்ற இக்கூட்டத்தில் விவசாயிகள் ராஜேந்திரன், முருகேசன், மெய்னாளுமூர்த்தி,

நியாகாஜன், மாதேவ்வாள் ஆவிய முன்னோடி விவசாயினர் சந்தேகங்களுக்கு மாவட்ட ஆட்சியர் விளக்கமளித்தார். மரவள்ளி மாவப்பூச்சிகளைக் கட்டுப்படுத்தும் ஒட்டுண்ணிகளை மரவள்ளி

சாதாரண செயல்பாடுகளுக்கு வழக்கிட தேவையான அனைத்து நடவடிக்கைகளும் மேற்கொள்ளப்பட்டு வருகிறது.

போலம், நாமக்கல் மாவட்ட விவசாயிகளுக்கு பெங்களூரில் உள்ள தேசிய பூச்சிகள் என அமைவகத்தில் மரவள்ளி மாவப்பூச்சி மேலாண்மை குறித்து பயிற்சி வழங்க உரிய நடவடிக்கை மேற்கொள்ளுமாறு மாவட்ட ஆட்சியர் உத்தரவிட்டார். ஆலோசனைக் கூட்டத்தில் பெங்களூரு தேசிய பூச்சிகள் என அமைவக விஞ்ஞானிகள் எம்.பி.சுந்தரம், தேசிய பூச்சியல் துறை வல்லுநர்கள் எம்.மோகன், சம்பந்தமார் ஆதிபொர் கண்ணாலிக் காட்சியின் மூலம் கலந்து கொண்டு மாவப்பூச்சி தாக்குதல் குறித்தும், கட்டுப்படுத்தும் வழிமுறைகள் குறித்தும் விளக்கினர்.

மரவள்ளி மாவப்பூச்சியின் தெற்றும் பரவும் விதம், மாவப்பூச்சிக்கு சாதகமான பருவக் காலங்கள், கட்டுப்படுத்தும் வழிமுறைகள் குறித்து விவசாயிகளுக்கு கண்ணாலிக் காட்சியின் வாரிலாக விளக்கி சுற்றப்பட்டது. மரவள்ளி மாவப்பூச்சிகள் அழிக்கும் ஒட்டுண்ணிகள் தாண்டித் தாண்டி அழிப்பதற்கான திட்டமிடும் செயல்பாடு நடவடிக்கை மேற்கொள்ளப்பட்டு வருவது குறித்தும் பேசப்பட்டது.

இக்கூட்டத்தில் வேளாண்மை இணை இயக்குநர் பி.அசோகன், தோட்டக்கலைத் துணை இயக்குநர் கே.சுனேசன், வேளாண்மை துணை இயக்குநர் கந்தராஜன், தோட்டக்கலை உதவி இயக்குநர் திவ்யா உள்பட ராசிபுரம், சேந்தமங்கலம், நாமகிரிப் பெட்டை, வட்டாரங்களைச் சேர்ந்த விவசாயிகள் கலந்துகொண்டனர்.

Dr. N. Bakthavatsalam, Director, NBAIR, Principal Scientists, Dr. A.N. Shylesha, Dr. M. Mohan and Scientist, Dr. M. Sampath Kumar participated as resource persons in the virtual farmer's scientist interaction meeting on the recently invaded cassava mealybug (*Phenacoccus manihoti*) management on 02.12.2020 organized by Dept. of Horticulture and plantation crops at Rasipuram, Namakkal district of Tamil Nadu. Mr. K. Megraj, I.A.S, Namakkal district collector presided over the meeting attended by several cassava growing farmers from Namakkal district. The Director, NBAIR addressed the farmers about the status of the cassava mealybug and NBAIR's inevitable role initiated in introduction of the classical biological control agent, *Anagyrus lopezi* for the cassava mealybug management. Dr. M. Mohan spoke about the bioecology of cassava mealybug, symptoms, level of damage caused by this invasive pest, and natural enemies being documented from the surveillance studies undertaken by NBAIR during June-August 2020 at Namakkal and Salem districts. Dr. M. Sampath Kumar, briefed the timeline of activities that are being undertaken by NBAIR since interception of this mealybug during May 2020, by issuing pest alert from time to time at various forums and obtaining import permit for introduction of the parasitoid, *A. lopezi* from Thailand and Benin. NBAIR scientists also addressed several queries raised by the farmers on cassava mealybug management. A total of 56 progressive farmers including Sago mill owners from the cassava growing belt of Rasipuram, Namagiripettai, Venandhur, and Senthamangalam blocks of Namakkal district participated and benefitted from the interactive meeting.

2. AAU, ANAND

Newspaper coverage of ‘farm level demonstration and release of bio-agents’ in leading daily ‘SARDAR GURJARI’ dated – 22.10.2020

આણંદ કૃષિયુનિ : ખેડૂતોના ખેતરમાં જૈવિક નિયંત્રણ અંગે નિદર્શન

આણંદ, તા. ૨૨
ખેતીના પાકોમાં નુકસાન કરતી છવાતો ઉપર વિવિધ પરજીવી કીટકો નબે છે જેનુક્સાન કરતી છવાતોની જુદી જુદી અવસ્થાઓ જેવી કે ઈંડા, ઉંખળ, કોશોટો વગેરે પર આક્રમણ કરીને તેની વસ્તીને કાબૂમાં રાખે છે. આજના આધુનિક સમયમાં વ્યસ્ત મનુષ્યો પાક, સંરક્ષણ માટેના જુદા જુદા અભિગમો પૈકી વધારે ધ્યાન રાસાયણિક જંતુનાશક પર જ કેન્દ્રિત કરે છે. આણંદ કૃષિ યુનિવર્સિટીના આઈ.સી.સી.એ. આર. પી. ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ વિભાગ દ્વારા પ્રયોગશાળામાં ઉછેર કરવામાં આવેલ ટ્રાયકોગ્રામા ભમરી અને લીલી પોપટીની ઈંખળોને આણંદ જિલ્લાના કરમસદ અને આણંદ તાલુકાઓની નજીકના જુદા જુદા પાકોમાં છવાત વ્યવસ્થાપન માટે ઈંડાવા માટેનું કાર્ય કરાયું હતું.



નિયંત્રણ વિશે માહિતગાર કરી, પ્રયોગશાળામાં કરવામાં આવતી જુદી જુદી પ્રવૃત્તિઓ વિશે સમજણ આપવામાં આવી. કુદરતી રીતે ખેતરમાં હાજરી જોવા મળતી હોય તેવા જૈવિક નિયંત્રકોની ઓળખ, પાક સંરક્ષણ માટે ઉપયોગમાં લેવાતા કૃષિ રસાયણોની તેના પર થતી આડઅસર, ટ્રાયકોકાર્ડ અને જૈવિક કીટનાશકો વગેરે વિશે વિસ્તૃત માહિતી પણ આપવામાં આવી હતી. વધુમાં આઈ.સી.સી.એ.આર.પી.ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ, આઈ.સી.સી.એ.આર.પી.ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ વિભાગના હેતુઓ પૈકી જૈવિક નિયંત્રકોનો પ્રયોગશાળામાં ઉછેર કરી તેને ખેડૂતોના ખેતરમાં તેને છોડવા - મુજબ ખેડૂતોના ખેતરમાં ઉગાડવામાં આવેલ કપાસ, ઈંગણી અને મકાઈના પાકોમાં ટ્રાયકોગ્રામા ભમરી અને લીલી પોપટીની ઈંખળોને છોડવામાં આવી હતી. સાથે સાથે જૈવિક નિયંત્રણ વિભાગના ગુજરાતી ભાષામાં પ્રકાશિત કરેલ કોલેક્ષન પણ આપવામાં આવ્યા હતા.



AICRP on Biological Control of Crop Pests, Anand Agricultural University, Anand centre has taken up demonstration and release of bio-agents *Trichogramma* sp. and *Chrysoperla zastrowi sillemi* at farmers’ fields. The trichocards and grubs of *Chrysoperla* were released in nearby farmers’ fields of Anand covering different crops viz., *Bt* cotton, maize and vegetable crops. Methods of release of trichocards and *Chrysoperla* grubs were demonstrated on field and further, farmers were informed about the importance of bio-agents in sustainable management of crop pests. Literature pertaining to availability and use of different bio-agents at AICRP on Biocontrol, AAU, Anand was distributed to the farmers.

Newspaper coverage of TSP programme in leading daily ‘SARDAR GURJARI’ dated – 01.10.2020

સરદાર ગુર્જારી

આણંદ કૃષિ યુનિ. ટીએસપી-આઈ.સી.સી.એ.આર. યોજના અંતર્ગત ખેડૂત શિબિર તથા કીટવિતરણ

આણંદ, તા. ૦૧

આણંદ કૃષિ યુનિવર્સિટીના આઈ.સી.સી.એ.આર. પી. ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ વિભાગ દ્વારા ટ્રાયકોગ્રામા ભમરી અને લીલી પોપટીની ઈંખળોને આણંદ જિલ્લાના કરમસદ અને આણંદ તાલુકાના જુદા જુદા પાકોમાં છવાત વ્યવસ્થાપન માટે ઈંડાવા માટેનું કાર્ય કરાયું હતું.

આઈ.સી.સી.એ.આર. પી. ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ વિભાગ દ્વારા પ્રયોગશાળામાં ઉછેર કરવામાં આવેલ ટ્રાયકોગ્રામા ભમરી અને લીલી પોપટીની ઈંખળોને આણંદ જિલ્લાના કરમસદ અને આણંદ તાલુકાના જુદા જુદા પાકોમાં છવાત વ્યવસ્થાપન માટે ઈંડાવા માટેનું કાર્ય કરાયું હતું.

આઈ.સી.સી.એ.આર. પી. ઓ.ન. બાયોલોજીકલ કંટ્રોલ ઓફ કોપ પેસ્ટ્સ વિભાગ દ્વારા પ્રયોગશાળામાં ઉછેર કરવામાં આવેલ ટ્રાયકોગ્રામા ભમરી અને લીલી પોપટીની ઈંખળોને આણંદ જિલ્લાના કરમસદ અને આણંદ તાલુકાના જુદા જુદા પાકોમાં છવાત વ્યવસ્થાપન માટે ઈંડાવા માટેનું કાર્ય કરાયું હતું.

Farmers meet and input distribution programme under ICAR-Tribal Sub Plan (TSP) was organized by AICRP on Biological Control of Crop Pests, Anand Agricultural University, Anand on 29-09-2020 at Vanji village, Garudeshwar taluka, Narmada Dist. Fifty tribal farmers from ten different villages of Nandod and Garudeshwar taluka attended the programme and input kits were distributed to them. Necessary Covid-19 guidelines were followed during the programme by distributing facemasks and maintaining social distance.

Dr. N. B. Patel, Principal Research Scientist briefed the farmers on importance of non-chemical management of insect pest and diseases in current scenario of organic agriculture and farmers were advised on use of pheromone traps, yellow sticky traps, neem based biopesticide, different biocontrol inputs and bio-pesticides. Dr. Raghunandan, B. L., Asstt. Research Scientist, informed the farmers on in-house produced different microbial biopesticides and their usage. Mr. Bhoumitbhai technical person of ATMA scheme, Rajjipla throw lights on importance of organic farming, various schemes related to organic farming and advised the farmers to use the bio-inputs in an effective way. Mr. Sanjitbhai, Proprietor, Prayas Agro Centre, Rajjipla informed the farmers regarding the different plant protection bio-inputs in organic farming and at the end of the programme he offered vote of thanks to conclude the programme.

3. AAU, JORHAT

কাকতি ফৰিঙ কোভিড-১৯ৰ ভীতিকাৰ মাজত কৃষকৰ হাহাকাৰ

কোভিড-১৯ৰ ভীতিকাৰ মাজত কৃষকৰ হাহাকাৰ হৈছে এটা গুৰুত্বপূৰ্ণ সমস্যা। কৃষকসকলে কঠিন অৰ্থনৈতিক পৰিস্থিতিৰ সন্মুখীন হৈছে।

কৃষকৰ হাহাকাৰ

কোভিড-১৯ৰ ভীতিকাৰ মাজত কৃষকৰ হাহাকাৰ হৈছে এটা গুৰুত্বপূৰ্ণ সমস্যা। কৃষকসকলে কঠিন অৰ্থনৈতিক পৰিস্থিতিৰ সন্মুখীন হৈছে।

A popular article regarding “Locust: Problem during Covid Pandemic” was published in a popular local daily “Asomiya Khabor” on 29.06.2020

কাকতী ফৰিঙৰ বিষয়ে কিছু কথা

কাকতী ফৰিঙৰ বিষয়ে কিছু কথা জানিবলৈ ইয়াত কিছু তথ্য আগবঢ়োৱা হৈছে। কাকতী ফৰিঙৰ বিষয়ে কিছু কথা জানিবলৈ ইয়াত কিছু তথ্য আগবঢ়োৱা হৈছে।

কাকতী ফৰিঙৰ বিষয়ে কিছু কথা

কাকতী ফৰিঙৰ বিষয়ে কিছু কথা জানিবলৈ ইয়াত কিছু তথ্য আগবঢ়োৱা হৈছে। কাকতী ফৰিঙৰ বিষয়ে কিছু কথা জানিবলৈ ইয়াত কিছু তথ্য আগবঢ়োৱা হৈছে।

A popular article regarding “Salient points regarding Locust” was published in a popular local daily “Dainik Janambhumi” on 13.07.2020

দসমীয়া খবৰ

খলুৱা ফৰিঙক লৈ আতংকগ্ৰস্ত নহ'ব

তদন্ত বিভাগে ইতিমধ্যে ইতিমধ্যেই খলুৱা ফৰিঙাৰ প্ৰতি আতংকগ্ৰস্ত নহ'ব বুলি জনসাধাৰণক জনাবলৈ কৈছে।

বহুৰ মাহৰ খেতি

উন্নত পদ্ধতিৰে

এৰী পলু পালন

কুকুৰাৰ কণী সম্পৰ্কে কিছু তথ্য

A popular article regarding “Don’t be panic with local grasshopper” was published in a popular local daily “Asomiya Khabor” on 13.07.2020

নিয়মীয়া বাৰ্তা

শৰৎ কালৰ পতংগৰ বিষয়ে চৰ্চা

শৰৎ কালৰ পতংগৰ বিষয়ে চৰ্চা কৰা হৈছে।

শৰৎ কালৰ পতংগৰ বিষয়ে চৰ্চা

শৰৎ কালৰ পতংগৰ বিষয়ে চৰ্চা কৰা হৈছে।

A popular article regarding “Pest management of Autumn season” was published in a popular local daily “Niyamiya Barta” on 08.09.2020



A popular article regarding “please be aware against swarming caterpillar” was published in a popular local daily “Asomiya Khabor” on 05.10.2020



A popular article regarding “Trichogramma: Egg parasitoid” was published in a popular local daily “Amar Asom” on 09.10.2020



A popular article regarding “Pest management of Aheen Katee” was published in a popular local daily “Dainik Janambhumi” on 12.10.2020

4. HRS, AMBAJIPETA



An awareness interaction programme on rugose spiralling whitefly to farmers was conducted in Ambajipeta, Amalapuram in the coconut field of Korla Venkateswara rao by Principal Scientist Dr. N.B.V. Chalapathi Rao and scientist Mrs. Neeraja (Path). In this programme the various queries posed on RSW were answered by Dr. N.B.V. Chalapathi Rao with emphasis on Biological control of RSW.



The training programme of managing rugose spiralling whitefly to farmers was conducted in Avidi, Kothapeta by HRS, Ambajipe Dr. N.B.V. Chalapathi Rao (Principal Scientist, Entomology) emphasized mainly on utility yellow sticky traps in monitoring and management of RSW adults. The Sri. Mallikarjuna Rao, ADH, Amalapuram explained about various schemes and subsidies funded by Department of Horticulture, Government of AP.



రైతులకు అవగాహన కల్పిస్తున్న అధికారులు

తెల్లదోమ నివారణపై శిక్షణ

కెండ్రియ సస్యక్షణ కేంద్రం డాక్టర్ సెంథిల్ కుమార్ శాస్త్రవేత్త మాట్లాడుతూ రూగ్స్ తెల్లదోమ నివారణ చర్యలు, జీవ నియంత్రణ పద్ధతులపై రైతులకు అవగాహన కల్పించారు. అండాజీవీ పరిశోధన శాస్త్రవేత్త ఎన్.బి.వి చలపతి రావు తెల్లదోమ నివారణకు సముగ్రంగా రైతులందరు వసవురంగు జిగురు రట్టలు కొబ్బరి చెట్లకు ఎర్రాడు చేసుకోవాలని, రైతు వారిగా సాలీమా, శీలంద్రాన్ని తయారు చేసుకోవాలని, తెల్లదోమ గుడ్లను తీసే (పరాణ నభక్కు) పరిశోధన స్థానం అందుబాటులో ఉన్నాయని తెలిపారు. కొబ్బరి తోటలకు పీచికాగి చేయడానికి యంత్రాలు 50శాతం రాయితీతో అందుబాటులో ఉన్నాయని, రైతులందరు సస్యక్షణ చర్యలు పాటింపి రూగ్ తెల్లదోమను నివారించుకోవాలని కోరారు. ఈ కార్యక్రమంలో నేతల మల్లిఖార్జునరావు, కేంద్రియ సవస్య సస్యక్షణ కేంద్రం వాస్తవాల డాక్టర్ మితే మ్యూడూన్, గ్రామ ఉద్యాన సహాయకులు, కొబ్బరి రైతులు పాల్గొన్నారు.

ప్రజాశక్తి - కొత్తపేట

కొబ్బరి తోటలో తెల్ల దోమ వ్యాధిని కొబ్బరి దిగుబడి పూర్తిగా నష్టపోతున్న రైతులకు శిక్షణా కార్యక్రమాన్ని మండల పరిధిలోని ఆదిడి గ్రామంలో శుక్రవారం నిర్వహించారు. ఉద్యాన శాఖ అధికారి పి.బి.ఎస్. ఆమర్లాద్ పర్యవేక్షణలో ఉద్యాన శాఖ కేంద్రియ సముగ్ర సస్య రక్షణ కేంద్రం విజయవాడ, అండాజీవీ పరిశోధన స్థానం సంయుక్తగా రైతులకు రూగ్స్ నిర్మూలకాల తెల్లదోమ నివారణ చర్యలపై కార్యక్రమం నిర్వహించారు. ఈ సందర్భంగా



The training programme of controlling rugose spiralling whitefly to farmers was conducted in Avidi by HRS, Ambajipeta. Dr. N.B.V. Chalapathi Rao emphasized on yellow sticky traps to monitor and manage the RSW and explained about foliar application of entomopathogenic fungi *Isaria fumosorosea* and availability of *Pseudomallada astur* eggs a predator on RSW. ADH, Amalapuram Dr. Mallikarjuna Rao explained about various schemes and subsidies funded by Department of Horticulture, Government of AP.

యాజమాన్య పద్ధతులతో కొబ్బరిలో తెల్లదోమ నివారణ

కెవిటి ఫిజియల్ 4 (ప్రభుస్వామి) ఉద్యానవన రైతులు యాజమాన్య పద్ధతులతో తెల్ల దోమ నివారించవచ్చని ఉద్యానవన శాఖ అధికారి పి. మాధవి అలి రైతులకు సూచించారు. ఈ మేరకు గురువారం మంచలంలోని చండి పుట్లగ గ్రామంలో ఉద్యానవన శాఖ డిప్యూటీ వారి ఆధ్వర్యంలో తెల్ల దోమ ఆంటిన్ కొబ్బరి తోటలో పరాన్నజీవి బియ్యం అయిన సుదామల్యుడా పరిశీలన గురించి రైతులకు వివరించారు. ఈ సందర్భంగా డాక్టర్ సేవీని రావు అనే రైతు తోటలో అవగాహన కార్యక్రమం ఏర్పాటు చేశారు. ఈ కార్యక్రమానికి ఉద్యాన పరిశోధన స్థానం అండాజీవీ పరిశోధన శాస్త్రవేత్త డి. బి. ఎన్. చలపతి రావు ఆధ్వర్యంలో పరిశీలన పరాన్నజీవుల పెంపక కేంద్రం సోంపేట డిక్టేటర్ అసిస్టెంట్ మనోహర్ హజరయ్యారు. సుదామల్యుడా బియ్యం పరిశీలన గురించి రైతులకు వివరించారు. సుదామల్యుడా బియ్యం అవసరమైన రైతులు సోంపేట గ్రామానికి చెందిన పలువురు రైతులు పాల్గొన్నారు.



పరాన్నజీవుల పెంపక కేంద్రంలో లభించిన పని తెలిపారు. ఈ కార్యక్రమంలో గ్రామానికి చెందిన పలువురు రైతులు పాల్గొన్నారు.

The awareness programme of rugose spiralling whitefly to farmers was conducted in Kaviti village under guidance of Principal scientist Dr. N.B.V. Chalapathi Rao. The Biological control based management and multiplication and availability of *Pseudomallada astur* eggs in Sompeta mandal of Srikakulam a sub station of HRS, Ambajipeta was briefed.

సామూహిక చర్యల వల్లే తెల్లదోమ నివారణ

అంబాజీపేట, ప్రభుస్వామి : కొబ్బరిని ఆశించి

తీవ్రంగా నష్టపడుతున్న తెల్లదోమ నివారణకు రైతులు సామూహిక నివరణ చర్యలు చేపట్టడం వల్లే సాధ్యమవుతుందని



డాక్టర్ వైఎస్ఆర్ ఉద్యాన పరిశోధన కేంద్ర అధిపతి డాక్టర్ బి.వి.కె. భగవాన్ అన్నారు. బుధవారం స్థానిక పరిశోధన కేంద్రంలో అయినవిల్లి,ముమ్మిడివరం, ఐ. పోలవరం,కాట్రేనికోన మండలాలకు చెందిన అభ్యుదయ రైతులు, గ్రామ ఉద్యాన సహాయకులకు తెల్లదోమ నివారణ చర్యలపై తరగతులు నిర్వహించారు. ఈ సందర్భంగా భగవాన్ మాట్లాడుతూ తెల్లదోమ నివారణ రైతులందరూ ఐసిరియా ఫ్యూమిసోరియా ద్రావణాన్ని పిచికారీ చేయాలన్నారు. కీటక విభాగ సీనియర్ శాస్త్రవేత్త డా.ఎన్. బి.వి.చలపతి రావు మాట్లాడుతూ తెల్లదోమ ఆశించిన కొబ్బరి చెట్ల ఆకులకు సూడోమల్లాడి అనే బదనికల గుడ్డను పిన్ చేయాలన్నారు. అమలాపురం ఉద్యానశాఖ సహాయ సంచాలకులు నేతల మల్లిఖార్జునరావు మాట్లాడుతూ గ్రామ ఉద్యాన సహాయకులు రైతులను వైతన్య పర్యాలన్నారు. ఈ కార్యక్రమంలో ఉద్యాన శాఖాధికారి ఎం.బవిత, తదితరులు పాల్గొన్నారు.

An awareness programme was conducted to progressive farmers in Ayinavilli, Mammidivaram, I. Polavaram, Katrenikona mandals. Dr. N.B.V. Chalapathi Rao explained about clipping of *Pseudomallada astur* eggs at different intervals a predator on RSW. Dr. B.V.K. Bhagavan explained about community based approach and foliar application of entomopathogenic fungi *Isaria fumosorosea*.

సామూహిక చర్యల వల్లే తెల్లదోమ నివారణ

కిసాన్ గోష్టిలో రామమోహనారావు

అంబాజీపేట, ప్రభుస్వామి : కొబ్బరిని ఆశించి అపార నష్టం కలిగిస్తున్న తెల్లదోమ నివారణకు రైతులు సామూహిక చర్యలు చేపడితేనే నివారణ పనులను అంద్రప్రదేశ్ మైకో ఇరిగేషన్ ప్రాజెక్ట్ క్లెయిర్ పి.రామ మోహనరావు సూచించారు. స్థానిక కొబ్బరి పరిశోధనా కేంద్రంలో డా.వైస్ఆర్ విశ్వ విద్యాలయ కొబ్బరి సంవత్సరం 2020-21 కార్యక్రమంలో భాగంగా అభ్యుదయ రైతులతో కిసాన్ గోష్టి గురువారం జరిగింది. ఈ సందర్భంగా మోహనరావు మాట్లాడుతూ తెల్లదోమ నివారణకు రైతులు శాస్త్రవేత్తలు సూచించిన సామూహిక చర్యలు చేపట్టాలన్నారు. పరిశోధనా కేంద్ర అధిపతి డా.బి.వి.కె. భగవాన్ మాట్లాడుతూ కొబ్బరిలో రికాబు నాణ్యమైన మొక్కల ఉత్పత్తి, వీండు సేద్యం, సీటి యాజమాన్యం గురించి వివరించారు. కీటక శాస్త్ర విభాగ సీనియర్ శాస్త్రవేత్త డా.ఎన్. బి.వి.చలపతి రావు మాట్లాడుతూ



తెల్లదోమ నివారణకు రసాయన మందుల వాడకు కంటే బదనికల ద్వారా నివారణ ఎంతో ఆరోగ్యకరమని పేర్కొన్నారు. ఈ కార్యక్రమంలో అమలాపురం ఉద్యానశాఖ సహాయ సంచాలకులు నేతల మల్లిఖార్జునరావు, స్థానిక శాస్త్ర వేత్తలు డా.బి.గోవర్ధన్, స్పైడలంకా రాజు, అభ్యుదయ రైతులు పాల్గొన్నారు.

The Kisan Goshti programme was organized in HRS, Ambajipeta with progressive farmers as invitees. Principal scientist Dr. N.B.V. Chalapathi Rao (Ento), explained about rugose spiraling whitefly management practices especially focusing biological control, and explained about deleterious side effects of chemical pesticides.

మిత్రపురుగుతో రూగోస్కు చెక్

అంబాజీపేట: కొబ్బరి తోటలో ఉద్యతంగా సం చరిస్తున్న రూగోస్ను మిత్రపురుగులతో చెక్ పెట్టవచ్చని పరిశోధన కేంద్రం అధిపతి బి.వి. కె.భగవాన్ అన్నారు. అంబాజీపేట డాక్టర్ వైఎస్సార్ ఉద్యాన విశ్వవిద్యాలయం, ఉద్యాన పరిశోధన కేంద్రంలో అంబాజీపేట డాక్టర్ వైఎస్సార్ ఉద్యాన విశ్వవిద్యాలయం, ఉద్యాన పరిశోధన కేంద్రంలో ఆమలాపురం ఉద్యాన శాఖ ఆధ్వర్యంలో పి.గన్నవరం, అంబాజీపేట మండలాల అభ్యుదయ రైతులకు, గ్రామ ఉద్యాన సహాయకులకు రూగోస్ తెల్లదోమ నివారణ చర్యలపై గురువారం అపగాహన కల్పించారు. సీనియర్ శాస్త్రవేత్త ఎస్.బీ.వీ. చలపతిరావు పాల్గొన్నారు.

సాక్షి Fri, 12 February 2021
<https://epaper.sakshi.com>

The awareness programme of rugose spiralling whitefly to progressive farmers and horticulture officers were being conducted in Gannavaram, Ambajipeta and Amalapuram by scientist Dr. N.B.V. Chalapathi Rao. In this programme the emphasis on rugose spiralling whitefly management with biological control was well received by participants.

ఆంధ్రప్రదేశ్

తెల్ల దోమలపై యుద్ధానికి బదనికల సైన్యం

ఉద్యాన వింతుల రక్షణ కోసం తాత్కాలిక సైన్యం

• వరుస అంబాజీపేట కొబ్బరి తోటల్లో రూగోస్ దోమల పుష్కలం వల్ల పంట నష్టం
 • పరిశోధనా కేంద్రం ద్వారా రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది

ఉద్యాన వింతుల రక్షణ కోసం తాత్కాలిక సైన్యం ఏర్పాటు చేయబడింది. రూగోస్ దోమల పుష్కలం వల్ల పంట నష్టం జరుగుతున్న కొబ్బరి తోటల్లో రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది. పరిశోధనా కేంద్రం ద్వారా రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది.

జీవ నియంత్రణ పద్ధతులతో నివారణ

జీవ నియంత్రణ పద్ధతులతో నివారణ చేయబడింది. రూగోస్ దోమల పుష్కలం వల్ల పంట నష్టం జరుగుతున్న కొబ్బరి తోటల్లో రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది.

భారతీయ 'బయోజెన్' పరిశోధన

భారతీయ 'బయోజెన్' పరిశోధన ద్వారా రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది. రూగోస్ దోమల పుష్కలం వల్ల పంట నష్టం జరుగుతున్న కొబ్బరి తోటల్లో రక్షణ కోసం సైన్యం ఏర్పాటు చేయబడింది.

Dr. N.B.V. Chalapathi Rao explained about biocontrol based manangement of RSW and ill effects of insecticide usage and development of resistance and resurgence of RSW if resorted to chemical pesticide spray. Explained about production of parasitoids and predators and their utility and timely supply along. recommended installation of yellow sticky traps. The article is entitled as bio agents army.

తోట బడిలో కొబ్బరి రైతులకు సూచనలు



తుని, ప్రభుస్వాస్ : కొబ్బరి పంట అధిక దిగుబడి సాధించేందుకు సరైన సమయంలో సస్యరక్షణ చర్యలు చేపట్టాలని అంబాజీపేట ఉద్యానవన పరిశోధన కేంద్రం శాస్త్రవేత్తలు డాక్టర్ ఎన్ గోవర్ధన్, శశికళ కొబ్బరి రైతులకు వివరించారు. తుని మండలం తెటగుంట గ్రామంలో ఉద్యానవన శాఖ ఆధ్వర్యంలో నోమువారం తోట బడి కార్యక్రమాన్ని నిర్వహించారు. ఈ కార్యక్రమంలో శాస్త్రవేత్తలు డాక్టర్ గోవర్ధన్, శశికళ కొబ్బరి రైతులకు అధిక దిగుబడి సాధించేందుకు తీసుకోవలసిన చర్యలను వివరించారు. కొబ్బరి లో అశించే గానోడెర్మా తెగులు కోసం ఆయన రైతులకు సమగ్రంగా వివరించారు. తెగుళ్లు కలిగించే శిలీంధ్ర బీజాలు భూమిలో ఉండి తెగిన లేక చెబ్బుతిన్న వేర్ల ద్వారా కొబ్బరి చెట్లకు వ్యాప్తి చెందుతాయని వివరించారు. బ్రెకోడెర్మా మీద 50 గ్రాములు, 5 కిలోల మేపి పిండి లో కలిపి ప్రతి సంవత్సరం చెట్లకు వేయాలని, ఆ విధంగా వేయడం వల్ల తెగులు కలుగజేసే శిలీంధ్ర బీజాలు అభివృద్ధి చెందకుండా ఆరికట్టి గలుగుతామని శాస్త్రవేత్తలు రైతులకు వివరించారు. అదేవిధంగా ఎర్ర ముక్కు పురుగు అశించిన తోటల్లో లింగాకర్షక బుట్టలను పెట్టాలని, మోనోక్రోటోఫాస్ 10 మిల్లీ లీటర్లు, లీటర్ నీటిలో కలిపి వేరు ద్వారా ఎక్కించాలని తెలియజేశారు. అలా చేసిన 45 రోజుల పరకు కొబ్బరి బొంబాల ను దింప కూడదని రైతులకు శాస్త్రవేత్తలు వివరించారు. ఈ కార్యక్రమంలో ఉద్యానవన శాఖ అధికారిని జి. విజయలక్ష్మి ఉద్యానవన శాఖ సహాయకులు సత్యనారాయణ భవాని తదితరులు పాల్గొన్నారు.

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The training programme of rugose spiralling whitefly and ganoderma to farmers was conducted in Tuni mandal of East Godavari district in association with ADH G. Vijaya lakshmi. Principal scientist in entomology Dr. N. B. V. Chalapathi Rao explained about RSW management by yellow sticky traps and mainly focusing biological control by clipping *Pseudomallada astur* eggs to coconut leaflets, and spraying of *Isaria fumosorosea* NBAIR pfu 5.

శాస్త్రవేత్తల బృందం పర్యటన ప్రజాశక్తి- తగరపువలస

కొబ్బరి పంటలకు ఆశిస్తున్న తెగుళ్లు, పురుగులపై అధ్యయనం చేసేందుకు అంబాజీపేట కు చెందిన ఉద్యాన పరిశోధనా స్థానం ఆధ్వర్యంలో శాస్త్రవేత్తల బృందం బుధవారం క్షీమిలి మండలం ఆస్తువరం గ్రామాన్ని సందర్శించింది. అన్నవరం గ్రామానికి చెందిన దంతులూరి సూర్యనారాయణ రాజు, కాకర్లపూడి సన్యాసిరాజులకు చెందిన కొబ్బరి తోటలను బృందంలోని సభ్యులు పరిశీలించారు. ఈ సందర్భంగా కొబ్బరి పంటలకు ఆశిస్తున్న పురుగులు, తెగుళ్లు, వాటి నివారణకు తీసుకోవాల్సిన జాగ్రత్తలపై రైతులకు అవగాహన కల్పించారు. ఈ కార్యక్రమంలో శాస్త్రవేత్తలు డాక్టర్ గోవర్ధన్, డాక్టర్ శశికళ, డాక్టర్ దేవిక, విశాఖ, విజయనగరం జిల్లాల ఉద్యాన సహాయ సంచాలకులు కె.శైలజ, ఉద్యాన శాఖ అధికారి జి.రాధిక, సర్పంచ్ సంతోషి కుమారి పాల్గొన్నారు.



అవగాహన కల్పిస్తున్న శాస్త్రవేత్తలు

The awareness programme of RSW and disease management to farmers was conducted in Annavaram village of Bhemili mandal of Vizianagaram by Principal scientist Dr. N.B.V. Chalapathi Rao and Dr. V. Govardhan Rao. They emphasized mainly on biological control of RSW and disease management at field level.



Creating awareness on biological control of coconut pests and RSW in Rytu bharsa Kendra channel, Govt of AP.



Creating awareness on biological control of RSW in ETv channel



Creating awareness on biological control of RSW in Dooradarshan Saptagiri channel

5. YSPUHF, SOLAN



कीट प्रबंधन पर दी जानकारी

राजगढ़। बुधवार को राजगढ़ की ग्राम पंचायत भाणत के ग्राम सैर में हिमाचल प्रदेश बागवानी विकास परियोजना के सौजन्य से एकदिवसीय प्रशिक्षण शिविर का आयोजन किया गया। शिविर में उच्च घनत्व सेब की फसल में नाशी कीट प्रबंधन पर विस्तृत जानकारी दी गई। उद्यान विभाग के उद्यान विकास अधिकारी डा. गीतम शर्मा सहित नौषी विश्वविद्यालय के वैज्ञानिक डा. प्रेमलाल शर्मा, डा. राकेश कुमार एवं डाक्टर नितेश शर्मा ने स्थानीय बागवानों व किसानों को सेब व फसलों में लगने वाले कीटों के प्रबंधन के बारे में विस्तृत जानकारी दी। इस शिविर में लगभग 60 लोगों ने भाग लिया, जिसमें क्षेत्र के प्रगतिशील बागवान विनोद तोमर, अर्जुन मेहता, लाजपत वर्मा, अजय वर्मा, रविदत्त भारद्वाज, देशराज, राजपाल, रामानंद शर्मा, रामस्वरूप, भरतभूषण, देवेन्द्र, ज्ञान प्रकाश, रिशु, राजेंद्र, विकास तोमर, देविंद्र, विजय ठाकुर, अशोक कुमार, हेमराज, सुरेंद्र आदि लोगों ने भाग लिया।

दिव्य हिमाचल Thu, 25 March 2021
<https://epaper.divyahimachal.com>

AICRP BC centre of Dr YS Parmar University of Horticulture & Forestry, Nauni, Solan (HP) in collaboration with Department of Horticulture, Himachal Pradesh organised training programme for farmers of village Ser (Rajgarh) district Sirmaur on 24th March 2021. In the training programme, 60 farmers participated and benefited. The farmers were demonstrated about the role and use of biocontrol agents for the management of insect pests of apple under high density apple plantation. Inputs like *Metarhizium anisopliae*, *Beauveria bassiana*, Neem Baan and *Trichoderma viride*, were also given to the farmers.

Dr PL Sharma and Dr SC Verma participated in live phone in programme of Doordarshan Shimla on 10-11-2020. The programme was focussed on the role and use of biocontrol agents for the management of horticultural pests. Biocontrol agents of major fruit crops were displayed on TV to make more and more farmers aware about the commonly occurring bioagents in the field. Farmers also interacted through live phone in programme regarding the use of *Metarhizium anisopliae* and light traps for apple root borer management, use of predatory mite and conservation of woolly aphid parasitoids. Farmers also enquired about the harmful effects of chemical insecticides and their safe use. One farmer discussed about the possibility of changes in pest scenario in apple in the context of climate change and shift in apple cultivation from low to high density plantation.



Scientists participating in live phone-in programme at Doordarshan Shimla



ICAR–National Bureau of Agricultural Insect Resources
P.O. Box 2491, H.A. Farm Post, Hebbal, Bengaluru 560 024, India
Phone: +91 80 2341 4220 F Fax: +91 80 2341 1961
Website: www.nbair.res.in
(ISO 9001: 2008 Certified Institution)