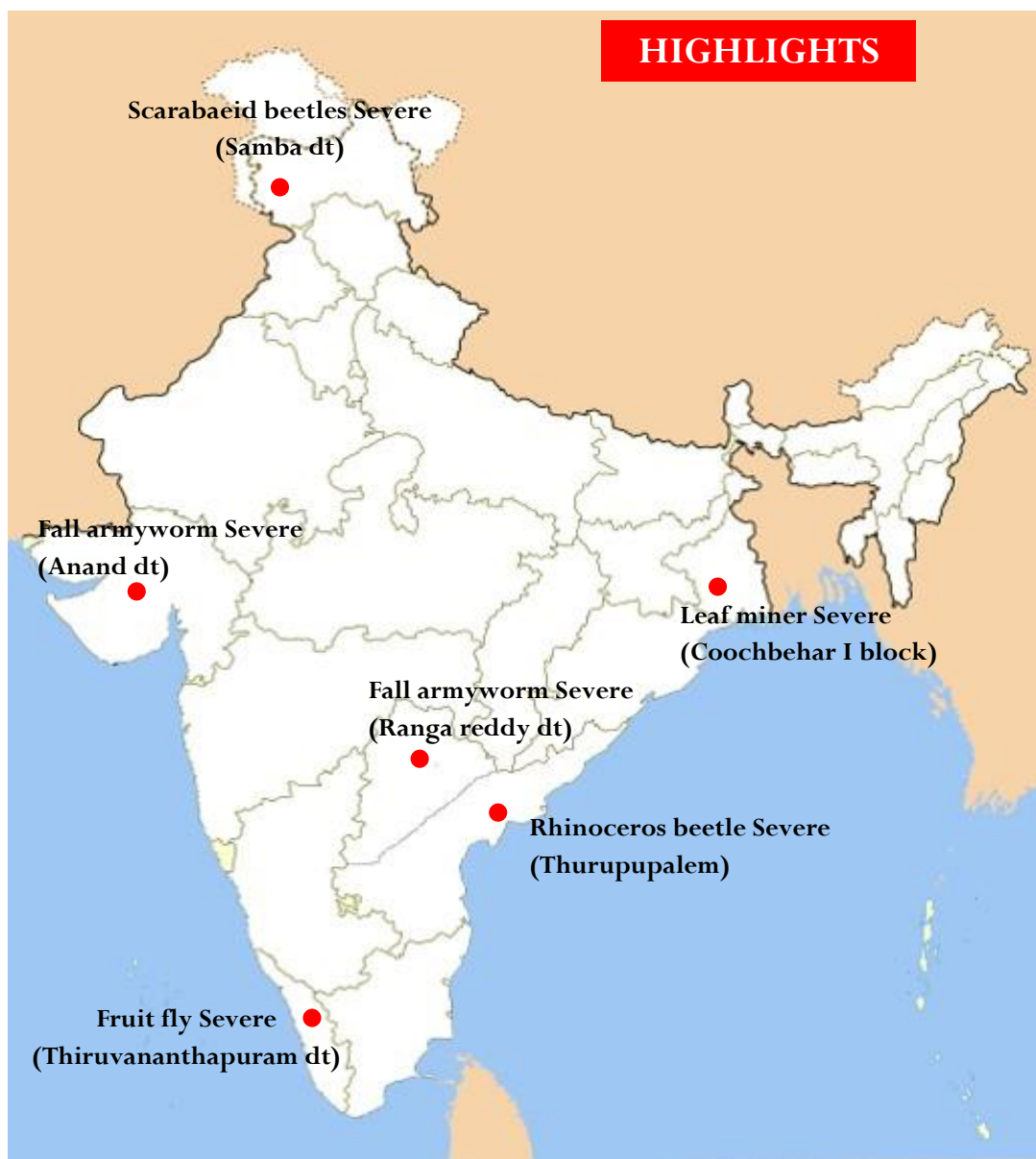


CROP PEST OUTBREAK REPORT

JULY 2019



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

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CROP PEST OUTBREAK REPORT

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ANDHRA PRADESH

Reporting Centre: RARS, Anakapalle

Crop: Maize

Site details: Anakapalle in Anakapalle mandal in Visakhapatnam district and S. Kota in Vizianagaram district

Variety grown: Sweet corn (Anakapalle); PAC 751 (S. Kota)

Crop Stage: 40-90 days old (Anakapalle) 20-30 days old (S. Kota)

Area: 2 ha (Anakapalle); 1 ha (S. Kota)

Pest Status:

Insects: Low infestation of fall armyworm (2-5%) was observed.



Low fall armyworm damage

Reporting Centre: HRS, Ambajipeta

Crop: Coconut

Site details: Thurupupalem (latitude 16.24, Longitude 81.53) at Malkipuram mandal in East Godavari district

Variety grown: East Coast Tall

Crop Stage: 5-35 years **Area:** 2 ha

Previous crop grown: Maize and Pearl millet

Pest Status:

Insects: Severe infestation of Rhinoceros beetle was observed.



Severe Rhinoceros beetle damage

Site details: Gudapalli (latitude 16.25, Longitude 81.53), Pallipalem (latitude 16.76, Longitude 82.18) in Malkipuram mandal and Kadali (latitude 16.27, Longitude 81.53) in Razole mandal of East Godavari district

Variety grown: East Coast Tall

Crop Stage: 6-40 years **Area:** 3.2 ha

Previous crop grown: Maize and Pearl millet

Pest Status:

Diseases: Severe incidence of Ganoderma wilt (12-20%) was observed.



Severe incidence of Ganoderma wilt disease

Reporting Centre: CTRI, Rajahmundry

Crop: Maize

Site details: Kirijaji in Hunsur taluk of Mysore district

Variety grown: KHM 755

Crop Stage: 40 DAP **Area:** 1 ha

Previous crop grown: Maize and Pearl millet

Pest Status:

Insects: Low infestation of fall armyworm damage was observed.



Fall armyworm damage in maize

TELANGANA

Reporting Centre: NIPHM, Hyderabad

Crop: Maize

Site details: Devuni Errvally in Chevella mandal at Ranagareddy district

Variety grown: Hybrid 999

Crop Stage: 60 DAS **Area:** 2 ha

Previous crop grown: Cotton

Pest Status:

Insects: Severe infestation of fall armyworm was observed.

Crop: Cotton

Site details: Devuni Errvally in Chevella mandal at Ranagareddy district

Variety grown: Hybrid

Crop Stage: 75 DAS **Area:** 2 ha

Previous crop grown: Chilli

Pest Status:

Insects: Moderate infestation of Jassids/leaf hoppers, Whiteflies, leaf miner and Aphids was observed.

Natural enemy occurrence: Coccinellid beetles were observed.

Crop: Tomato

Site details: Devuni Errvally in Chevella mandal at Ranagareddy district

Variety grown: Hybrid

Crop Stage: 75 DAS **Area:** 1 ha

Previous crop grown: Maize

Pest Status:

Insects: Moderate infestation of Jassids, Whiteflies, Leafminer, Fruit borer (*Helicoverpa armigera*), Aphids, Mites and Thrips was observed.

Diseases: Tomato yellow leaf curl virus (70%) and early leaf blight (10%)

GUJARAT

Reporting Centre: AAU, Anand

Crop: Maize

Site details: AAU campus at Anand district

Variety grown: Amber

Crop Stage: 25 DAS **Area:**0.5 ha

Previous crop grown: Maize and Pearl millet

Pest Status:

Insects: Severe infestation of fall armyworm, *Spodoptera frugiperda* was observed.

Natural enemy occurrence: Ladybird beetles

Site details: AAU campus at Anand district

Variety grown: GAYMH-1

Crop Stage: 10 DAS **Area:**0.5 ha

Previous crop grown: Cabbage

Pest Status:

Insects: Low infestation of fall armyworm, *Spodoptera frugiperda* was observed.

Site details: Jahangirpura, Hadgud at Anand taluk at Anand district

Variety grown: Fodder

Crop Stage: 30 DAS **Area:**0.5 ha

Previous crop grown: Pearl millet

Pest Status:

Insects: Severe infestation of fall armyworm, *Spodoptera frugiperda* was observed.

Natural enemy occurrence: Ladybird beetle

Crop: Okra

Site details: AAU campus at Anand district

Variety grown: Desi

Crop Stage: 15 DAS **Area:**0.5 ha

Previous crop grown: Maize and Pearl millet

Pest Status:

Insects: Moderate infestation of *Helicoverpa armigera* was observed.

KERALA

Reporting Centre: COA, Vellayani

Crop: Snake gourd

Site details: Kalliyoor in Thiruvananthapuram district

Crop Stage: 60 days **Area:** 0.1 ha

Pest Status:

Insects: Severe infestation of fruit flies was observed.



Severe fruit fly damage in Snake gourd

Reporting Centre: RARS, Kumarakom

Crop: Rice

Site details: Arpookkara in Kottayam district

Varieties grown: Uma

Crop Stage: 30 DAS **Area:** 18 acres

Pest Status:

Insects: Moderate infestation of Black bug, *Scotinophora* sp was observed.

Natural enemy occurrence: Predators Reduvid bugs, Rove beetles

Diseases: Sheath blight incidence (5-10%) was observed.



Black bug, *Scotinophora* sp

Crop: Coconut

Site details: Kaipuzha, Aarpookara (9°40'N, 76°30'E) in Ettumanoor block at Kottayam district

Varieties grown: West Coast Tall

Crop Stage: 6-10 years **Area:** 5 acres

Pest Status:

Insects: Low to medium (@ 2.9 early instar caterpillar/leaflet) infestation of black headed caterpillar was observed.

Natural enemy occurrence: Predators, Ants and Spiders

Insects: Low infestation of *Aleurodicus rugioperculatus* was observed.

Natural enemy occurrence: Predators, Spiders and Coccinellids

Parasitoids: *Encarsia guadeloupae*

Insects: Low infestation of red palm weevil and rhinoceros beetle was observed.

Diseases: Leaf rot incidence (>5%) was observed.



Coconut black headed caterpillar infested coconut palms at Kaipuzha

TAMIL NADU

Reporting Centre: TNAU, Coimbatore

Crop: Coconut

Site details: Arachalur (11.16290 N,77.70090E) in Erode district

Vellarichal (11.1106950N,77.3480450 E) in Tiruppur district

Varieties grown: COD, MOD

Crop Stage: 5-8 years **Area:** 1 ha

Pest Status:

Insects: Low infestation of Rugose Spiraling whitefly was observed.

Natural enemy occurrence: Predators, Spiders

Parasitoid, *Encarsia guadeloupae* was observed.

Site details: Soosaipuram (11.75640N,76.96790E) in Thalavadi taluk in Erode district

Varieties grown: Deejay

Crop Stage: 3 years **Area:** 5 acres

Pest Status:

Insects: Medium infestation of Rugose Spiraling whitefly was observed.

Natural enemy occurrence: Predators, Spiders, *Mallada* sp and Coccinellids
Parasitoid, *Encarsia guadeloupae* was observed.

Site details: Coconut Nursery & Farm (11.01520N, 76.93260 E)
in Coimbatore district

Varieties grown: COD

Crop Stage: 4 years **Area:** 1 acre

Pest Status:

Insects: Low infestation of Rugose Spiraling whitefly was observed.

Natural enemy occurrence: Predators *Mallada* sp and Spiders
Parasitoid, *Encarsia guadeloupae* was observed.

Crop: Papaya

Site details: Bhavani Mettupalayam (11.44690 N, 77.68400E) in Bhavani taluk in Erode district.

Varieties grown: Red Lady

Crop Stage: 10 months **Area:** 7 acres

Pest Status:

Insects: Low infestation of papaya mealybug was observed.

Natural enemy occurrence: Predators, Spiders (2 nos/tree), *Mallada* sp (2 nos/tree) and Coccinellids (2 nos/tree)
Parasitoid, *Acerophagus papayae* (5 nos/leaf) was observed.

PUNJAB

Reporting Centre: PAU, Ludhiana

Crop: Sugarcane

Site details: Amritsar, Jalandhar, Gurdaspur, Hoshiarpur, Ferozepur districts

Crop Stage: 120-130 days old

Previous crop grown in the area: Wheat, potato, chickpea, toria

Pest Status:

Insects: Low infestation of stalk borer was observed.

Natural enemy occurrence: Parasitoids, *Cotesia* sp, *Trichogramma chilonis*

Crop: Maize

Site details: Hoshiarpur, Ropar, Nawanshahr districts

Crop Stage: 40-50 days old

Previous crop grown in the area: Wheat, chickpea, mustard

Pest Status:

Insects: Low to moderate infestation of stem borer was observed.

Natural enemy occurrence: Predators, *Spiders*, *Coccinella septempunctata*
Parasitoids, *Trichogramma* sp.

Crop: Cotton

Site details: Bathinda, Faridkot, Fazilka, Muktsar districts

Crop Stage: 60-75 days old **Variety:** *Bt* cotton

Previous crop grown in the area: Wheat, mustard, gram

Pest Status:

Insects: Low infestation of whitefly and jassids was observed.

Natural enemy occurrence: Predators, *Chrysoperla* sp (eggs and grubs) and Spiders

UTTAR PRADESH

Reporting Centre: CISH, Lucknow

Crop: Mango

Site details: Mashidha Hamir (26°59.96N/80°40.80E), Atari
(27°02.88N/80°44.57E), Mavaikhurd
(27°05.56N/80°44.62E), Tiwarikhera (27°01.85N/80°43.3E),
Raheta (27°02.67N/80°40.11E), Tarauna
(26°59.62N/80°36.31E) of Malihabad taluk in Lucknow district

Varieties grown: Dashehari

Crop Stage: 25-50 year old **Area:** >300 ha

Pest Status:

Insects: Moderate infestation of leaf webber, *Orthaga euadrusalis* was observed.

WEST BENGAL

Reporting Centre: UBKV, Pundibari

Crop: Nursery (Citrus)

Site details: Chilkir Hat (Satmile) (26° 34' 52" N, 89° 44' 82" E) in Cooch behar I block

Crop Stage: Vegetative to flowering **Area:** 0.13 ha

Pest Status:

Insects: Severe infestation of leaf miner was observed.



Severe leaf miner incidence in Citrus

Crop: China Tagar

Site details: Jagya Narayaner Kuthi (24° 26' 54" N, 86° 64' 80" E) in Madhupur at Cooch behar I block

Crop Stage: Vegetative to flowering **Area:** 0.13 ha

Pest Status:

Insects: Severe infestation of leaf folder was observed.



Severe damage by leaf folder

JAMMU & KASHMIR

Reporting Centre: SKUAST - Jammu

Crop: Pear, Mango, Peach, Guava

Site details: Painthi at Samba taluk in Samba district

Area: 1.5 ha

Crop Stage: 10-15 years old

Pest Status:

Insects: Severe infestation of Scarabaeid beetles (Flower chafer beetle, *Oxyctonia versicolor*, Cowboy beetle *Chondropyga dorsalis*, Green June beetle (*Cotinis nitida*), June Beetles (*Phyllophaga* sp.), Japanese beetle (*Popillia japonica*) was observed.

Diseases: Incidence of Anthracnose (5-10%) was observed.



Pear fruits infested with beetles

Crop: Cucurbits and Okra

Site details: Samla at Samba taluk in Samba district

Area: 0.5 ha **Variety:** Hybrid

Crop Stage: 80-90 days old

Pest Status:

Insects: Severe infestation of Scarabid beetles (Flower chafer beetle *Oxycetonia versicolor* and Cowboy beetle *Chondropyga dorsalis* (*Diaphonia dorsalis*) was observed.

Site details: Samla at Samba taluk in Samba district

Area: 1.5 ha

Crop Stage: 10-15 years old

Pest Status:

Insects: Severe infestation of Scarabaeid beetles (Flower chafer beetle, *Oxycetonia versicolor*, Cowboy beetle *Chondropyga dorsalis*, Green June beetle (*Cotinis nitida*), June Beetles (*Phyllophaga* sp.), Japanese beetle (*Popillia japonica*) was observed.

Diseases: Incidence of Anthracnose (5-10%) was observed.