



International Journal of Research in Agronomy

E-ISSN: 2618-0618
P-ISSN: 2618-060X
© Agronomy
NAAS Rating (2026): 5.20
www.agronomyjournals.com
2026; SP-9(7): 92-99
Received: 11-04-2026
Accepted: 15-05-2026

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Potential impact of pests of sugarcane in the major growing districts of Tamil Nadu under varied climatic conditions

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DOI: <https://www.doi.org/10.33545/2618060X.2026.v9.i7Sb.5925>

Abstract

The results of the present investigation on the damage level of pests of sugarcane done by roving survey during 2024-2025 at monthly intervals in Cuddalore, Villupuram, Kallakurichi, Trichy and Ariyalur district representing different climatic conditions revealed that the damage level of early shoot borer in sugarcane ranged from 5.60% (Velliyakudi, Cuddalore dist.) to 9.27% (Varakkalpattu, Cuddalore Dist.). Damage level of inter node borer ranged from 3.69% (Sitarasur) to 34.67% (Mokur, Kallakurichi Dist). The incidence of Crown mealybug and Pokkoh boeng disease with mean damage grade ranged from 1.40 (Solainayakkanpalayam-Cuddalore Dist.) to 3.20 (Kizhapalur-Ariyalur Dist.) During September 2024, white grub damage was recorded at Melmalaiyanur block of Villupuram District. The incidence of white grub ranged from 1.8 grub/clump (Karadikuppam) to 3.2 grub/clump (Ethapattu). The incidence of whitefly ranged from 8.0 - 22.82% leaf damage at Semmandalam. The incidence of sugarcane woolly aphid was recorded as 5.5% leaf damage at S.K.P alayam of Cuddalore Dist. During 2025-2026, the damage level early shoot borer in sugarcane ranged from 4.65% (Thirukandeeswaram, Cuddalore Dist.) to 10.80% (Semmandalam, Cuddalore Dist.). Damage level of internode borer ranged from 6.50% (Vilangalpet, Cuddalore Dist.) to 18.60% (Semmandalam, Cuddalore Dist). The incidence of Crown mealybug and Pokkohboeng disease with mean damage grade ranged from 1.20 (Sirumadurai, Villupuram Dist.) to 2.50 (Theallar, Thiruvannamalai Dist.) During July 2025, white grub damage was recorded at Chinnasalem block of Kallakurichi District. The incidence of white grub ranged from 0.9 grub/clump (Kizhpathi) to 1.2 grub/clump (Oothuvodai). The incidence of mite ranged from 5.50% to 6.50% leaf damage at Semmandalam. The incidence of sugarcane woolly aphid was recorded as 3.5% leaf damage at S.K.Palayam of Cuddalore Dist. during March 2026.

Keywords: Sugarcane, monitoring, roving survey, pests, climatic conditions, the influence of weather factors play a vital role on the incidence of pests of sugarcane.

Introduction

Sugarcane is an important cash crop grown in India since ancient times and it is one of the most important cash crops and industrial crops after textiles. Sugarcane is grown in various states in subtropical and tropical regions of the country. Sugarcane provides raw material for the second largest agro-based industry after textile. The sugar industry is an instrumental in generating the sizable employment in the rural sector directly and through its ancillary units. In Tamil Nadu sugarcane is cultivated at an average area of 1.59 lakh ha with an average yield of 111 MT/ha. In Tamil Nadu 65 to 75 per cent of sugarcane produced is used as raw material for sugar mills (Anonymous, 2023)^[1].

Sugarcane is a long-duration crop of 10-18 months and normally crop is followed by one or two ratoon crops, grown over large areas for higher production of sugarcane per unit area. This provides a sort of mono-cropping stable agro ecosystem for the multiplication of insect pests. Though the sugarcane agro-ecosystem is a stable one periodically it is affected by different abiotic and biotic changes in the environment. These changes along with difficulties in the application of chemicals in the closed canopy and limited control provided by various insect pest control tactics (viz. cultural, mechanical and biological).

Early shoot borer, *Chilo infuscatellus* Snellen (Crambidae:Lepidoptera) is the major pests of sugarcane, infesting the crop during its early growth stages (*i.e.* prior to internode formation) (David and Nandagopal 1986) ^[2].

Based on the feeding habit, the insect pests are broadly classified as borers, sucking pests, subterranean pests, defoliators and non-insect pests. Among these, nine lepidopteran borers are considered as most detrimental in both tropical and sub-tropical sugarcane fields. The larvae of borers may reduce yield upto 80 per cent (Goebel *et al.*, 2011) ^[5]; Kalra and Sidha 1955) ^[4].

Amongst the borers, *Chilo sacchariphagus indicus* (Kapur) (Lepidoptera: Pyralidae), commonly known as internode borer, has remained a major pest in peninsular India (Gupta, 1957) ^[6].

. There is a necessity to monitor and assess the population dynamics of the major borer pests and sucking pests of sugarcane to early warn the farmers and take appropriate management steps to avoid yield loss.

Materials and Methods

Roving survey was carried out in sugarcane crop at monthly intervals in Cuddalore, Villupuram, Kallakurichi, Trichy, Thiruvannamalai, Chengalpet and Ariyalur districts of Tamil Nadu, India to assess the damage level of major borer and sucking pests of sugarcane during 2024-25 and 2025-2026. In each field, the early shoot borer was assessed based on the per cent deadhearts, for internode borer the per cent damaged canes, sucking pests *viz.*, white fly, woolly aphid, mite damage was assessed based on per cent damaged leaves and for crown mealybug and pokkah boeng disease grading was used to assess the damage. In the survey besides to damage assessment, the details on the variety, stage of the crop, plant or ratoon crop were also collected.

Results and Discussion

The results of the roving survey during 2024-2025 revealed that the damage level of early shoot borer in sugarcane ranged from 5.60% (Velliyakudi, Cuddalore dist.) to 9.27% (Varakkalpattu, Cuddalore Dist.). Damage level of inter node borer ranged from 3.69% (Sitarasurr) to 34.67% (Mokur, Kallakurichi Dist). The incidence of Crown mealybug and Pokkah boeng disease with mean damage grade ranged from 1.40 (Solainayakkanpalayam-Cuddalore Dist.) to 3.20 (Kizhapalur-Ariyalur Dist.) During September 2024, white grub damage was recorded at Melmalaiyanur block of Villupuram District. The incidence of white grub ranged from 1.8 grub/clump (Karadikuppam) to 3.2

grub/clump (Ethapattu). The incidence of whitefly ranged from 8.0 - 22.82% leaf damage at Semmandalam. The incidence of sugarcane woolly aphid was recorded as 5.5% leaf damage at S.K.Palayam of Cuddalore Dist (Table 1).

During 2025-2026, the damage level early shoot borer in sugarcane ranged from 4.65% (Thirukandeeswaram, Cuddalore dist.) to 10.80% (Semmandalam, Cuddalore Dist.). Damage level of inter node borer ranged from 6.50% (Vilangalpet, Cuddalore Dist.) to 18.60% (Semmandalam, Cuddalore Dist). The incidence of Crown mealybug and Pokkah boeng disease with mean damage grade ranged from 0.90 (Sirumadurai, Villupuram Dist.) to 2.50 (Theellar, Thiruvannamalai Dist.) During July 2025, white grub damage was recorded at Chinnasalem block of Kallakurichi District. The incidence of white grub ranged from 0.9 grub/clump (Kizhpathi) to 1.2 grub/clump (Oothuvodai). The incidence of mite ranged from 5.50% to 6.50% leaf damage at Semmandalam. The incidence of sugarcane woolly aphid was recorded as 3.5% leaf damage at S.K.Palayam of Cuddalore Dist. During March 2026 (Table 2). Early shoot borer, *Chilo infuscatellus* Snellen (Crambidae: Lepidoptera) is the major pests of sugarcane, infesting the crop during its early growth stages (*i.e.* prior to internode formation) (David and Nandagopal 1986) ^[2]. Economic loss caused by this particular pests is due to a 16–65% reduction in sugarcane setts and mother shoots, resulting in 22– 33% losses in cane yield (Singh and Tomar 2003) ^[3]. Usually, *C. infuscatellus* infestations are high during the tillering phase, but decrease appreciably during the south-west monsoons that often begin in July (David and Nandgopal 1986) ^[2]. The early shoot borer incidence *Kharif* during 2019 was first reported at 17th standard week (last week of April) with 3.38 percent per ten plants when mean maximum and temperature 34.36 °C and 28.84 °C, relative humidity at morning and evening 90.29 and 64.29 per cent and rainfall were ranged from 0.00 to 0.00 mm, respectively (Pankaj Batham *et.al* 2023) ^[7]. The internode borer is distributed in the states of Tamil Nadu, Kerala, Andra Pradesh, Karnataka, Maharashtra, Bihar, Uttar Pradesh and Haryana (Siddiqi and Agarwal, 1957) ^[8].

Internode borer generally attacks the crop from internode formation to harvest, causing estimated crop losses of 10–35 Per cent. When the borer injury extends to three or more internodes per cane, or more than 10% of the total length of the cane, canes suffer significant deterioration in juice quality. The threshold for the internode borer was found to be 13 - 15 per cent bored internodes (Yalawar *et al.*, 2010) ^[9].

Table 1: Damage level of pests of sugarcane in Cuddalor and Villupuram District (2024-2025)

S. No	Date of Survey	Name of the village	Insect pests observed	Age and Variety	Damage level (%)
1.	10.4.2024	Varakkalpattu Cuddalore block Cuddalore Dist.	Early shoot borer	Co 86032 1 month, II ratoon Conventional	9.27
2.	10.4.2024	Nellikuppam Annagaram block Cuddalore Dist.	Early shoot borer	PI 1110 2 months, Plant crop Conventional	7.14
3.	12.4.2024	Semmandalam Cuddalore block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoC 13339 I ratoon 4 months, Conventional	Mean grade-2.20
4.	16.4.2024	Thirukandeeswaram Annagaram block Cuddalore Dist.	Inter node borer	Co 86032, I ratoon 5 months Conventional	Mean grade-2.60
5.	16.4.2024	Palur Annagaram block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 5 months, I ratoon Conventional	Mean grade-2.30
6.	7.5.2024	Thiruvannainallur & Block	Crown mealy bug & Pokkah boeng	CoV 09356	13.00

		Villupuram Dist.		5months, I ratoon Conventional	
7.	7.5.2024	Thiruvannainallur& Block Villupuram Dist.	Inter node borer	CoV 09356 5months, I ratoon Conventional	21.33
8.	8.5.2024	Vanapuram Sankarpuram block Kallakurichi Dist.	Whitefly	Co 86032 8 month Conventional, I ratoon	15.21
9.	8.5.2024	Seerpananthal Sankarpuram block Kallakurichi Dist	Inter node borer	Co 86032 8 month Conventional, I ratoon	5.36
10.	8.5.2024	Kaduvanur Sankarpuram block Kallakurichi Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 8months, I ratoon Conventional	3.0
11.	8.5.2024	Arulampadi Sankarpuram block Kallakurichi Dist	Crown mealy bug & Pokkah boeng	CoV 09356 5months, III ratoon Conventional	2.20
12.	8.5.2024	Vadamananthur Sankarpuram block Kallakurichi Dist	Inter node borer & whitefly	Co 86032 8 months Conventional, I ratoon	Internode borer-12.38 Whitefly-21.00
13.	10.5.2024	Solainayakkanpalayam Annagramam block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	Co 86032 Plant crop,5 months Conventional,	1.40
14.	10.5.2024	Solainayakkanpalayam Annagramam block Cuddalore Dist.	Termite	Co 86032 Plant crop,5 months Conventional,	9.27
15.	12.5.2024	Varakkalpattu Cuddalorer block Cuddalore Dist	Crown mealy bug & Pokkah boeng	CoV 09356 6 months, Conventional, I ratoon	2.20
16.	12.5.2024	Thirukandeeswaram Annagramam block Cuddalore Dist.	Internode borer	Co 86032 5 months, I ratoon Conventional	13.26
17.	12.5.2024	Thirukandeeswaram Annagramam block Cuddalore Dist.	Internode borer	Co 86032 5 months, Plant Conventional	21.33
18.	4.6.2024	TDevanampattinam Cuddalore block Cuddalore Dist.	Internode borer	Chewing cane Conventional 8 months	8.00
19.	13.6.2024	Vellaiyur Ulundurpet block Villupuram Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 6 months, Conventional, II ratoon	2.40
20.	13.6.2024	Vellaiyur Ulundurpet block Villupuram Dist.	Internode borer	CoV 09356 6 months, Conventional, II ratoon	15.71
21.	20.6.2024	Lalgudi & block Trichy Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 6 months, Conventional, II ratoon	2.20
22.	20.6.2024	Ayakudi Manachanallur Trichy Dist.	Crown mealy bug & Pokkah boeng	Co86032 4 months, Conventional, I ratoon	2.60
23.	20.6.2024	Puthanampatti Thuraiyur block Trich Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 4 months, Conventional, I ratoon	2.50
24.	21.6.2024	Kizhapalur Ariyalur block Ariyalur Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 5 months, Conventional, I ratoon	3.20
25.	21.6.2024	Kizhapalur Ariyalur block Ariyalur Dist.	Internode borer	CoV 09356 5 months, Conventional, I ratoon	14.52
26.	21.6.2024	Kizhapalur Ariyalur block Ariyalur Dist.	Crown mealy bug & Pokkah	CoV 09356 5 months, Conventional, II ratoon	3.00
27.	21.6.2024	Kizhapalur Ariyalur block Ariyalur Dist.	Internode borer	CoV 09356 5 months, Conventional, II ratoon	18.00
28.	21.6.2024	Poiyur	Crown mealy bug & Pokkah	CoV 09356	1.80

		Ariyalur block Ariyalur Dist.		6 months, Conventional, Iratoon	
29.	21.6.2024	Varanavasi Thirumanur block Ariyalur Dist.	Crown mealy bug & Pokkah	CoV 09356 5 months, Conventional, Iratoon	2.40
30.	21.6.2024	Kayaralabath Ariyalur block Ariyalur Dist	Crown mealy bug & Pokkah	CoV 09356 7 months, Conventional, Iratoon	3.20
31.	21.6.2024	Kayaralabath Ariyalur block Ariyalur Dist	Crown mealy bug & Pokkah	CoV 09356 6 months, Conventional, II ratoon	3.00
32.	24.6.2024	Erumbur Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 6 months, Conventional, Iratoon	14.52
33.	24.6.2024	Sattamanagalam Srimushnam block Cuddalore Dist	Crown mealy bug & Pokkah	CoV 09356 5 months, Conventional, I ratoon	3.00
34.	26.6.2024	Moogilthuraipattu Sankarapuram block Kallakurichi Dist.	Internode borer	CoV 09356 6 months, Conventional, Iratoon	18.93
35.	26.6.2024	Moogilthuraipattu Sankarapuram block Kallakurichi Dist.	Whitefly	CoV 09356 6 months, Conventional, Iratoon	13.92
36.	26.6.2024	Agarampallipattu Sankarapuram block Kallakurichi Dist.	Internode borer	CoV 09356 6 months, Conventional, Iratoon	20.0
37.	2.7.2024	Velliyakudi Bhuvanagiri block Cuddalore Dist.	Early shoot borer	Chewing cane Conventional 1 month	5.60
38.	2.7.2024	Velliyakudi Bhuvanagiri block Cuddalore Dist.	Early shoot borer	Chewing cane Conventional 2 month	6.40
39.	4.7.2024	Mokur Kallakurichi block & Dist.	Internode borer	Co11015 8 months, Drip, Iratoon	25.24
40.	4.7.2024	Mokur Kallakurichi block & Dist.	Crown mealy bug & Pokkah	Co11015 9 months, Drip, III ratoon	3.00
41.	4.7.2024	Mokur Kallakurichi block & Dist.	Internode borer	Co11015 9 months, Drip, III ratoon	34.67
42.	4.7.2024	Somandarkudi Kallakurichi block & Dist.	Crown mealy bug & Pokkah	CoV 09356 6 months, Conventional, Iratoon	2.40
43.	5.7.2024	Semmandalam Cuddalore block && Dist.	Whitefly	CoC 13339 I ratoon, 4 months	22.82
44.	5.7.2024	Semmandalam Cuddalore block && Dist.	Pyrilla	CoC 13339 I ratoon, 4 months	1.2 nymphs/leaf
45.	9.7.2024	Chozhatharam Srimushnam block Cuddalore Dist.	Early shoot borer	CoC 13339 I ratoon, 4 months	4.80
46.	9.7.2024	Chozhatharam Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 6 months, Conventional, I ratoon	22.74
47.	15.7.2024	Varakkalpattu Cuddalore block && Dist.	Internode borer	Co 86032 5 months, Conventional, I ratoon	23.00
48.	29.7.2024	Sirumadurai Thiruvannainallur block Villupuram Dist.	Internode borer	CoV 09356 4 months, Conventional, I ratoon	12.86
49.	30.7.2024	Nattarmanagalam Kattumannarkoil TK Cuddalore Dist.	Early shoot borer	Poonagai I month Conventional	4.80
50.	30.7.2024	Nattarmanagalam Kattumannarkoil TK Cuddalore Dist.	Internode borer	CoV 09356 6 months, Conventional, I ratoon	15.71
51.	30.7.2024	Srimushnam & block Cuddalore Dist.	Mite	CoV 09356 5 months, Conventional, II ratoon	14.63
52.	30.7.2024	Nanjanallur Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 5 months, Conventional, I ratoon	10.71
53.	30.7.2024	Nanjanallur Srimushnam block	Mite	CoV 09356 5 months, Conventional, I ratoon	11.82

		Cuddalore Dist.			
54.	2.8.2024	Semmandalam Cuddalore block && Dist.	Mite	CoC 13339 5 months, Conventional, I ratoon	13.64
55.	7.8.2024	Varakkalpattu Cuddalore block && Dist.	Whitefly	Co 86032 5 months, Conventional, I ratoon	19.49
56.	4.9.2024	Karadikuppam Melmalaiyanur block Villupuram Dist.	White grub	CoV 09356 7 months, Conventional, I ratoon	1.8/clump
57.	4.9.2024	Narayanapuram Melmalaiyanur block Villupuram Dist	White grub	CoV 09356 7 months, Conventional, II ratoon	2.4/clump
58.	4.9.2024	Ethapattu Melmalaiyanur block Villupuram Dist	White grub	CoV 09356 7 months, Conventional, I ratoon	2.2/clump
59.	4.9.2024	Ethapattu Melmalaiyanur block Villupuram Dist	White grub	CoV 09356 7 months, Conventional, III ratoon	3.2/clump
60.	10.9.2024	Annagramam & block Cuddalore Dist.	Internode borer	PI 1110 7 months, Conventional, II ratoon	14.89
61.	10.9.2024	Annagramam & block Cuddalore Dist.	Whitefly	PI 1110 7 months, Conventional, II ratoon	8.01
62.	10.9.2024	Maligaimedu Annagramam block Cuddalore Dist.	Internode borer	CoV 09356 7 months, Conventional, II ratoon	11.50
63.	5.10.2024	Semmandalam Cuddalore block && Dist.	Internode borer	CoC 13339 7 months, Conventional, I ratoon	11.90
64.	5.10.2024	Semmandalam Cuddalore block && Dist.	Whitefly	CoC 13339 7 months, Conventional, I ratoon	8.0
65.	8.10. 2024	Sitarasur Annagramam block Cuddalore Dist	Internode borer & Mealy bug	CoV 09356 5 months, Conventional, I ratoon	1Inter node borer-3.69 Mealybug-9.71
66.	12.11.2024	Varakkalpattu Cuddalore block & Dist.	Internode borer	CoV 09356 7 months, Conventional, I ratoon	14.71
67.	15.11.2024	Karumbur Annagramam block Cuddalore Dist.	Internode borer	Co86032 8 months, Conventional, II ratoon	18.69
68.	15.11.2024	Kayapakkam Annagramam block Cuddalore Dist.	Internode borer	Co86032 8 months, Conventional, II ratoon	15.93
69.	16.11.2024	Sirunangaivadi Annagramam block Cuddalore Dist.	Internode borer	Co86032 5 months, Conventional, II ratoon	16.57
70.	12.12.2024	Pilali Cuddalore block & Dist.	Internode borer	Co86032 8 months, Conventional, II ratoon	13.21
71.	10.1.2025	Nellikuppam Annagramam block & Dist.	Internode borer & Whitefly	Co86032 6 months, Conventional, II ratoon	Inter node borer-19.26 Whitefly-10.76
72.	4.2.2025	Nellikuppam Annagramam block & Dist	Internode borer	Co86032 8 months, Conventional, II ratoon	14.88
73.	5.2.2025	Kudikadu Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 11 months, Conventional, Plant crop	15.24
74.	5.2.2025	Mudikandanallur Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 11 months, Conventional, I ratoon	14.52
75.	13.3.2025	Periyasevalai Thiruvennainallur block Villupuram Dist.	Internode borer	CoV 09356 10 months, Conventional, II ratoon	10.20
76.	18.3.2025	Nattarmangalam Kattumannarkoil block Cuddalore Dist.	Early shoot borer	CoC 13339 I Ratoon Conventional	2.60
77.	19.3.2025	S.K.palayam Annagramam block Cuddalore Dist.	Woolly aphid	Co 86032 I ratoon 6 months	5.5
78.	16.4.2025	Nattarmangalam Kattumannarkoil block Cuddalore Dist	Crown mealy bug	CoV 09356 2 months, Conventional, II ratoon	Mean grade-1.5

Table 2: Damage level of pests of sugarcane in Cuddalor, Villupuram, Kallakurichi and Thiruvannamalai Districts (2025-2026)

S. No	Date of Survey	Name of the village	Insect pests observed	Age and Variety	Damage level (%)
1.	3.4.2025	Semmandalam Cuddalore block Cuddalore Dist.	Early shoot borer	CoC 13339 I ratoon 4 months, Conventional	9.04
			Internode borer	CoC 13339 I ratoon 7 months, Conventional	10.50
2.	16.4.2025	Nattarmangalam Kattumannarkoil block Cuddalore Dist	Early shoot borer	CoV 09356 2 months, II ratoon Conventional	8.50
				CoC 13339 II ratoon 1 month Conventional	5.00
				Punnagai I ratoon 1 month Conventional	6.50
3.	16.4.2025	Nanjanallur Srimushnam block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 2 months, II ratoon Conventional	Mean grade-1.20
4.	22.4.2025	Pazhanjanallur Kattumannarkoil block Cuddalore Dist	Crown mealy bug & Pokkah boeng	CoV 09356 2 months, II ratoon Conventional	Mean grade-1.30
5.	24.4.2025	Semmandalam Cuddalore block Cuddalore Dist.	Early shoot borer	CoC 13339 Plant crop 3 months, Conventional	10.80%
6.	6.5.2025	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 II ratoon 5 months, Conventional	16.50%
7.	13.5.2025	Semmandalam Cuddalore block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 3 months, I ratoon Conventional	Mean grade-1.50
8.	14.5.2025	Semmandalam Cuddalore block Cuddalore Dist.	Mite	CoC 13339 II ratoon 6 months, Conventional	6.50%
9.	3.6.2025	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 8 month Conventional, I ratoon	9.50%
10.	16.6.2025	Semmandalam Cuddalore block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoC 13339 8 month Conventional, I ratoon	1.60
11.	18.6.2025	Karuveppilaipalayam Thiruvannanallur block Villupuram dist.	Crown mealy bug & Pokkah boeng	CoV 09356 4 months, I ratoon Conventional	1.30
		Andraynanur Thiruvannanallur block Villupuram dist.	Crown mealy bug & Pokkah boeng	CoV 09356 5 months, II ratoon Conventional	1.20
		Sirumadurai Thiruvannanallur block Villupuram dist.	Crown mealy bug & Pokkah boeng	CoV 09356 3 months, II ratoon Conventional	0.90
12.	19.6.2025	Naduveerapattu Cuddalore block & District	Crown mealy bug & Pokkah boeng	CoV 09356 4 months, I ratoon Conventional	1.30
13.	24.6.2025	Semmandalam Cuddalore block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoC 13339 4 month Conventional, I ratoon	1.50
			Inter node borer	CoC 13339 6 month Conventional, II ratoon	18.60%
14.	26.6.2025	Karunakaranallur Kattumannarkoil block Cuddalore Dist	Crown mealy bug & Pokkah boeng	Punnagai 4 month Conventional, I ratoon	1.60

15.	27.6.2025	Kaduvannur Sankarapuram block Kallakurichi Dist.	Internode borer	Co 86032 6 months, I ratoon Conventional	14.20%
		Perayampattu Thandrapattu block Thiruvannamalai dist.	Inter node borer	CoV 09356 6 month Conventional, Plant crop	9.80%
16.	1.7.2025	Semmandalam Cuddalore block Cuddalore Dist.	Internode borer	CoC 13339 5 months, II ratoon Conventional	10.56%
			Crown mealy bug & Pokkah boeng	CoC 13339 6 months, I ratoon Conventional	1.60
17.	4.7.2025	Mattigaikurichi Chinnasalem block Kallakurichi Dist.	Internode borer	Co 86032 6 months, I ratoon Drip	10.60%
		Kachirayapalayam Chinnasalem block Kallakurichi Dist.	Internode borer	Co 86032 6 months, III ratoon Drip	9.50%
		Oothuvodai Chinnasalem block Kallakurichi Dist.	White grub	CoV 09356 6 months, II ratoon Drip	1.2 Nos./clump
		Vadakkananthai Chinnasalem block Kallakurichi Dist.	White grub	CoV 09356 7 months, III ratoon Drip	0.9 No./clump
		Seshasamudram Chinnasalem block Kallakurichi Dist.	White grub	CoV 09356 7 months, III ratoon Drip	0.8 No./clump
		Kizhpathi Chinnasalem block Kallakurichi Dist.	White grub	CoV 09356 8 months, I ratoon Drip	0.6 No./clump
		Paramanatham Chinnasalem block Kallakurichi Dist.	White grub	CoV 09356 8 months, III ratoon Drip	0.8 No./clump
18.	16.7.2025	Moongilthuraipattu Sankarapuram block Kallakurichi Dist.	Internode borer	Co 86032 8 months, II ratoon Drip	15.60%
19.	24.7.2025	Semmandalam Cuddalore block Cuddalore Dist.	Crown mealy bug & Pokkah boeng	CoC 13339 6 months, Conventional, II ratoon	1.90
20.	28.7.2025	Semmandalam Cuddalore block Cuddalore Dist.	Internode borer	CoC 13339 6 months, Conventional, I ratoon	16.71%
21.	6.8.2025	Cheyar & block Thiruvannamalai Dist.	Crown mealy bug & Pokkah boeng	CoV 09356 5 months, Conventional, II ratoon	1.10
22.	11.8.2025	Vilangalpet Cuddalore block Cuddalore Dist.	Internode borer	CoV 09356 6 months, Conventional, I ratoon	6.50%
23.	13.8.2025	Padalam Madurantagam block Chengalpet Dist.	Internode borer	CoV 09356 6 months, Conventional, II ratoon	10.60%
24.	21.8.2025	Nattarmanagalam Kattumannarkoil TK Cuddalore Dist.	Crown mealy bug & Pokkah	CoV 09356 6 months, Conventional, II ratoon	1.30
25.	1.9.2025	Nanjanallur Srimushnam block Cuddalore Dist.	Internode borer	CoV 09356 5 months, Conventional, I ratoon	16.52%
26.	15.9.2025	Varakkalpattu Cuddalore block & district	Internode borer	Co 86032 7 months, Conventional, I ratoon	17.80%
		Thirukandeeswaram Cuddalore block & district	Early shoot borer borer	Co 86032 2 months, Conventional, Plant crop	4.65%
27.	17.9.2025	Thiruvennainallur & block Villupuram Dist.	Crown mealy bug & Pokkah	CoV 09356 6 months, Conventional, I ratoon	1.70
28.	19.9.2025	Marutheri Vallam block Villupuram Dist.	Internode borer	Co 86032 7 months, Conventional, I ratoon	14.50%
29.	23.9.2025	Korattur Thiruvannainallur block Villupuram Dist.	Crown mealy bug & Pokkah	CoV 09356 6 months, Conventional, I ratoon	1.20
		Irunthai	Crown mealy bug & Pokkah	CoV 09356	1.10

		Thiruvannainallur block Villupuram Dist.		7 months, Conventional, II ratoon	
30.	6.10.2025	Semmandalam Cuddalore block Cuddalore Dist.	Internode borer	CoC 13339 8 months, Conventional, II ratoon	10.40%
31.	15.10.2025	Semmandalam Cuddalore block Cuddalore Dist.	Internode borer	CoC 13339 6 months, Conventional, Plant crop	9.40%
32.	25.10.2025	Semmandalam Cuddalore block Cuddalore Dist.	Mite	CoC 13339 5 months, Conventional, Plant crop	5.50%
33.	29.10.2025	Thellar Cheyyar block Thiruvannamalai Dist.	Crown mealy bug & Pokkah	Punnagai 5 months, Conventional, Plant crop	2.50
		Sogathur Cheyyar block Thiruvannamalai Dist.	Crown mealy bug & Pokkah	Punnagai 4 months, Conventional, Plant crop	1.60
		Sunnambumedu Cheyyar block Thiruvannamalai Dist.	Crown mealy bug & Pokkah	Punnagai 5 months, Conventional, Plant crop	1.60
34.	1.11.2025	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 7 months, Conventional, II ratoon	11.40%
35.	10.11.2025	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 5 months, Conventional, I ratoon	10.80%
36.	26.12.2025	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 8 months, Conventional, Plant crop	13.50%
37.	6.2.2026	Semmandalam Cuddalore block Cuddalore Dist.	Early shoot borer	CoC 13339 2 months, Conventional, Plant crop	5.80%
38.	19.2.2026	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 7 months, Conventional, I ratoon	16.50%
39.	23.2.2026	Semmandalam Cuddalore block Cuddalore Dist.	Inter node borer	CoC 13339 8 months, Conventional, II ratoon	11.25%
40.	13.3.2026	Semmandalam Cuddalore block Cuddalore Dist.	Early shoot borer	CoC 13339 3 months, Conventional, Plant crop	7.50%
41.	13.3.2026	S.K.Palayam Annagaramam block Cuddalore Dist.	Woolly aphid	Co 86032, 5 months, I ratoon	3.50%

Conclusion

Monitoring and pest surveillance is an important step to assess the status of pests of sugarcane. The findings of the present study will be useful to forewarn the farmers and also alert the officials of Department of Agriculture and farmers Welfare, Sugar mills, farmers organizations to take prophylactic and curative management measures against particular pest. Besides, the results would be also useful to prepare the pest calendar based on the seasonal incidence.

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