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نظامت اعلیٰ
(پیست وارننگ و ایڈوائس کنٹرول
آف فاسٹی سائیزرز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1ST WEEK OF NOVEMBER, 2023.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1ST Week of November in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 25 districts, infestation is reported on Sorghum Crop from 04 district and infestation is not reported on Millet Crop.


Assistant Director of Agri. (PP) Hqr
For DIRECTOR GENERAL

No. 10229-35 /DGA (PW&QCP)
Copy forwarded for information to;

Dated: 08-11-23

- PS to Minister for Agriculture, Punjab, Lahore.
- Secretary Agriculture, Government of Punjab, Lahore.
- Secretary Agriculture, South Punjab, Multan.
- Director General of Agriculture (Ext. & AR) Punjab, Lahore.
- The Chief Scientist of Agriculture (Research) AARI, Faisalabad.
- Director General, Department of Plant Protection, Karachi.
- Director Agriculture Information, Punjab, Lahore.

PEST SITUATION ON MAIZE CROP IN PUNJAB DURING 1ST WEEK OF NOVEMBER, 2023

Pest Situation of Maize Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2023		Previous week 2023		Corresponding week 2022		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.34	5.56	0.00	9.70	0.16	8.43	Increasing
2	Fall Armyworm	21.55	-	25.62	-	34.20	-	Decreasing

Pest Situation of Sorghum Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2023		Previous week 2023		Corresponding week 2022		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.27	13.86	0.00	13.64	0.29	9.54	Increasing
2	Fall Armyworm	4.89	-	3.64	-	10.12	-	Increasing

Pest Situation of Millet Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2023		Previous week 2023		Corresponding week 2022		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.00	0.00	0.00	0.00	0.00	-
2	Fall Armyworm	0.00	-	0.00	-	0.00	-	-

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST WEEK OF NOVEMBER, 2023						
Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm	
1	Gujrat	2	3.25	2	100.0	
2	Gujranwala	3	5.5	3	100.0	
3	Layyah	9	25	7	77.8	
4	R.Y.Khan	8	52	6	75.0	
5	Bhakkar	10	8	6	60.0	
6	Lahore	15	74	8	53.3	
7	Multan	22	117	9	40.9	
8	Bahawalpur	19	298	7	36.8	
9	D.G.Khan	19	20	7	36.8	
10	Vehari	15	25	5	33.3	
11	TTSingh	7	21.5	2	28.6	
12	Sheikhupura	27	63	7	25.9	
13	Khanewal	55	265	13	23.6	
14	M.Garh	44	52	10	22.7	

15	Mianwali	9	10	2	22.2
16	Jhang	5	14	1	20.0
17	Sahiwal	46	241	8	17.4
18	Kasur	28	69	4	14.3
19	Lodhran	42	188	5	11.9
20	Pakpattan	18	51	2	11.1
21	Okara	27	92	3	11.1
22	M.B. Din	10	18	1	10.0
23	Nankana Sahib	24	48.5	2	8.3
24	Faisalabad	83	160.15	6	7.2
25	Rajanpur	26	29	1	3.8
26	Bahawalnagar	15	30	0	0.0
27	Ferozwala	0	0	0	0.0
28	Hafizabad	3	4	0	0.0
29	Wazirabad	0	0	0	0.0
30	Sialkot	2	5	0	0.0
31	Narowal	0	0	0	0.0
32	Chiniot	0	0	0	0.0
33	Sargodha	0	0	0	0.0
34	Khushab	1	0.5	0	0.0
35	Jhelum	0	0	0	0.0
36	Chakwal	0	0	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		594	1989	127	21.4

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 1ST WEEK OF NOVEMBER, 2023

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	D.G.Khan	29	29	8	27.6
2	Nankana Sahib	27	70	6	22.2
3	M.Garh	42	44	3	7.1
4	M.B.Din	14	23	1	7.1
5	Multan	0	0	0	0.0
6	Khanewal	14	21	0	0.0
7	Vehari	15	15	0	0.0
8	Lodhran	14	14	0	0.0
9	Sahiwal	68	98	0	0.0
10	Pakpattan	0	0	0	0.0
11	Okara	0	0	0	0.0
12	Bahawalpur	14	22	0	0.0
13	Bahawalnagar	0	0	0	0.0
14	R.Y.Khan	9	12	0	0.0

15	Rajanpur	24	24	0	0.0
16	Layyah	0	0	0	0.0
17	Faisalabad	0	0	0	0.0
18	T.T.Sing	2	2	0	0.0
19	Jhang	0	0	0	0.0
20	Chiniot	0	0	0	0.0
21	Lahore	5	13	0	0.0
22	Kasur	31	49	0	0.0
23	Sheikhupura	16	16	0	0.0
24	Ferozwala	0	0	0	0.0
25	Sargodha	0	0	0	0.0
26	Khushab	0	0	0	0.0
27	Minawali	0	0	0	0.0
28	Bhakkar	0	0	0	0.0
29	Gujranwala	4	4.5	0	0.0
30	Hafizabad	20	20	0	0.0
31	Wazirabad	0	0	0	0.0
32	Sialkot	10	18	0	0.0
33	Narowal	0	0	0	0.0
34	Gujrat	10	12	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	0	0	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		368	507	18	4.89

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST WEEK OF NOVEMBER, 2023**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Multan	0	0	0	0.0
2	Khanewal	0	0	0	0.0
3	Vehari	0	0	0	0.0
4	Lodhran	0	0	0	0.0
5	Sahiwal	0	0	0	0.0
6	Pakpattan	0	0	0	0.0
7	Okara	0	0	0	0.0
8	Bahawalpur	0	0	0	0.0
9	Bahawalnagar	0	0	0	0.0
10	R.Y.Khan	0	0	0	0.0
11	D.G.Khan	0	0	0	0.0
12	M.Garh	0	0	0	0.0
13	Rajanpur	0	0	0	0.0
14	Layyah	0	0	0	0.0
15	Faisalabad	0	0	0	0.0
16	T.T.Sing	0	0	0	0.0
17	Jhang	0	0	0	0.0

18	Chiniot	0	0	0	0.0
19	Lahore	0	0	0	0.0
20	Kasur	0	0	0	0.0
21	Sheikhupura	0	0	0	0.0
22	Ferozwala	0	0	0	0.0
23	Nankana Sahib	0	0	0	0.0
24	Sargodha	0	0	0	0.0
25	Khushab	7	3	0	0.0
26	Minawali	0	0	0	0.0
27	Bhakkar	3	3	0	0.0
28	Gujranwala	0	0	0	0.0
29	Hafizabad	17	15.25	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	0	0	0	0.0
33	M.B.Din	4	9	0	0.0
34	Gujrat	2	1.5	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	0	0	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		33	32	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	28.3	13.7
Pakpattan	28.3	13.5
Okara	28.1	13.3
Jhang	27.8	14.3
Toba Tek Singh	27.6	14.1
Chiniot	26.6	13.7
Multan	29.3	16.4
Khanewal	29.8	14.7
Vehari	29.5	14.2
Lodhran	29.7	16.0
AVG	28.5	14.4

Optimum temperature requirement for rapid multiplication of Fall Army Worm is 25-35 °C.

MANAGEMENT PRACTICES:

Following practices may be adopted for the management of FAW and to prevent its further spread:

1. Conduct Pest scouting twice a week.

2. Install light traps in maize fields.
3. Mechanical control through hand picking of larvae and egg masses.
4. Placing of sand or ash in the whorls on early stage crop.
5. Ensure need-based sprays and spot treatments.
6. Spray at late afternoon or early morning.
7. Whorl application of granular insecticides and use of T-Jet nozzle in case of sprays for better coverage.
8. Avoid repeated applications of pesticides having same mode of action.
9. Plant refuge/insectary crops along the borders or surrounding of Maize Crop to attract and provide shelter to beneficial insects.
10. At present few pesticides are registered against Fall Armyworm, however results of following pesticides are better against FAW;
Emamectin+Fipronil @ 8kg/A, Emamectin+Carbofuran @ 8Kg/A,
Emamactin@ 240ml/A, Leufenuron @ 240ml/A, Spintoram (120SC) @ 100ml/A.
Chlorantraniliprole 20%SC@100ml/A