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نظامت اعلیٰ
(پیسٹ وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹ سائیزرز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 3RD WEEK OF AUGUST, 2023.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 3RD week of August in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 26 districts, infestation is reported on Sorghum Crop from 10 district, infestation is reported on alternate host plants from 01 district.


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

No. 7665-71 /DGA (PW&QCP)

Dated: 23-08-2023

Copy forwarded for information to;

- 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 3RD WEEK OF AUGUST, 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	0.31	10.36	0.16	7.61	0.16	11.76	Increasing
2	Fall Armyworm	29.4	-	25.52	-	44.12	-	Increasing

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	0.90	14.45	0.67	15.97	1.88	15.63	Increasing
2	Fall Armyworm	4.97	-	4.11	-	12.68	-	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	0.56	-
2	Fall Armyworm	0.00	-	2.27	-	7.91	-	Decreasing

Pest Situation of FAW on Other Alternate Host Plants						
		%age of spots on FAW				
Sr. No.	Name of Crop	Current Week 2023		Remarks		
		AETL	BETL			
1	Okra, Sponge Gourd, Bitter Gourd, Chillies, Lucern, Pumpkin	8.82	-	Reported		

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD WEEK OF AUGUST, 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	Gujranwala	1	1	1	100.0
2	Hafizabad	1	2	1	100.0
3	Rawalpindi	23	12.1	17	73.9
4	Khanewal	31	195	18	58.1
5	Sargodha	29	149.75	16	55.2

6	Multan	16	81	8	50.0
7	Gujrat	2	8	1	50.0
8	Attock	4	3	2	50.0
9	Lodhran	21	107	10	47.6
10	Vehari	15	37	5	33.3
11	Pakpattan	18	35	6	33.3
12	Okara	21	49	7	33.3
13	Rajanpur	9	9	3	33.3
14	M.Garh	46	70	13	28.3
15	Faisalabad	78	175.55	22	28.2
16	Sahiwal	32	100	9	28.1
17	Jhang	18	56	5	27.8
18	TTSingh	41	136	11	26.8
19	Chiniot	38	93	10	26.3
20	Kasur	20	83	5	25.0
21	D.G.Khan	17	21	4	23.5
22	Sheikhupura	26	79	6	23.1
23	Layyah	5	11	1	20.0
24	Nankana Sahib	17	63.5	3	17.6
25	M.B. Din	19	42	2	10.5
26	Chakwal	38	18.125	4	10.5
27	Bahawalpur	20	279	0	0.0
28	Bahawalnagar	10	17	0	0.0
29	R.Y.Khan	4	7	0	0.0
30	Lahore	11	49	0	0.0
31	Ferozwala	0	0	0	0.0
32	Wazirabad	0	0	0	0.0
33	Sialkot	5	18	0	0.0
34	Narowal	0	0	0	0.0
35	Khushab	0	0	0	0.0
36	Bhakkar	0	0	0	0.0
37	Mianwali	7	3	0	0.0
38	Jehlum	4	10	0	0.0
G.TOT 2023		647	2020	190	29.4

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 3RD WEEK OF AUGUST, 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	Lodhran	20	28	7	35.0
2	T.T.Sing	19	24.6	3	15.8
3	D.G.Khan	27	27	4	14.8
4	Khanewal	75	119	11	14.7
5	Jhang	35	72	4	11.4

6	M.Garh	68	68	6	8.8
7	Nankana Sahib	61	162.5	5	8.2
8	M.B.Din	15	28	1	6.7
9	Faisalabad	55	61.1	2	3.6
10	Sheikhupura	120	175	1	0.8
11	Multan	19	21	0	0.0
12	Vehari	15	15	0	0.0
13	Sahiwal	33	48	0	0.0
14	Pakpattan	18	21	0	0.0
15	Okara	14	28	0	0.0
16	Bahawalpur	23	29	0	0.0
17	Bahawalnagar	21	27	0	0.0
18	R.Y.Khan	8	8	0	0.0
19	Rajanpur	12	14	0	0.0
20	Layyah	6	10	0	0.0
21	Chiniot	49	114	0	0.0
22	Lahore	9	46	0	0.0
23	Kasur	25	58	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	31	65	0	0.0
30	Hafizabad	37	56	0	0.0
31	Wazirabad	0	0	0	0.0
32	Sialkot	0	0	0	0.0
33	Narowal	31	30	0	0.0
34	Gujrat	6	12	0	0.0
35	Jhelum	0	0	0	0.0
36	Chakwal	34	16.6	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		886	1384	44	4.97

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 3RD WEEK OF AUGUST, 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	0	0	0	0.0
26	Minawali	0	0	0	0.0
27	Bhakkar	0	0	0	0.0
28	Gujranwala	0	0	0	0.0
29	Hafizabad	5	9.5	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	4	6	0	0.0
33	M.B.Din	4	6	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	24	11.875	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		37	33	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	38.3	28.3
Pakpattan	38.1	28.2
Okara	38.0	28.0
Jhang	39.6	28.7
Toba Tek Singh	39.4	28.4
Chiniot	38.6	28.3
Multan	40.0	29.4
Khanewal	39.8	28.8
Vehari	39.7	28.6
Lodhran	38.8	29.1
AVG	39.0	28.6

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