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نظامت اعلیٰ
(پیست وارننگ و کوالٹی کنٹرول
آف پستیٹائیز) پنجاب لاہور

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

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1ST 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 and infestation is reported on Alternate Host Plant from 01 district.


Assistant Director Agri. (PP) Hqr
For Director General

No. 7133-39 /DGA (PW&QCP)
Copy forwarded for information to;

Dated: 10-08-2023.

- 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 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	0.00	7.12	0.00	9.77	0.00	8.64	-
2	Fall Armyworm	27.69	-	18.47	-	32.03	-	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	0.22	13.61	0.38	12.70	1.03	8.09	Decreasing
2	Fall Armyworm	3.65	-	2.00	-	1.54	-	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	-	2.22	-	-

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 1 ST 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	Khushab	2	3.5	2	100.0
2	Lahore	6	55	5	83.3
3	Rawalpindi	30	15	20	66.7
4	Lodhran	24	109	14	58.3
5	Gujrat	2	8	1	50.0
6	Sargodha	25	73.5	12	48.0

7	D.G.Khan	23	24	11	47.8
8	Sahiwal	21	136	8	38.1
9	Okara	27	107	10	37.0
10	Attock	17	20.2	6	35.3
11	Pakpattan	15	32	5	33.3
12	Faisalabad	51	124.4	15	29.4
13	Sheikhupura	32	63	9	28.1
14	Jhang	16	42	4	25.0
15	Chiniot	51	136	12	23.5
16	M.Garh	44	48	10	22.7
17	TTSingh	46	160.5	10	21.7
18	Layyah	5	11	1	20.0
19	Chakwal	30	13.125	6	20.0
20	Khanewal	23	128	4	17.4
21	Sialkot	6	27	1	16.7
22	Multan	15	76	2	13.3
23	Vehari	15	37	2	13.3
24	M.B. Din	18	40	2	11.1
25	Kasur	22	55	2	9.1
26	Nankana Sahib	12	25	1	8.3
27	Bahawalpur	10	226	0	0.0
28	Bahawalnagar	9	17	0	0.0
29	R.Y.Khan	0	0	0	0.0
30	Rajanpur	6	6	0	0.0
31	Ferozwala	0	0	0	0.0
32	Gujranwala	0	0	0	0.0
33	Hafizabad	1	2	0	0.0
34	Wazirabad	0	0	0	0.0
35	Narowal	0	0	0	0.0
36	Bhakkar	0	0	0	0.0
37	Mianwali	5	6	0	0.0
38	Jehlum	23	86	0	0.0
G.TOT 2023		632	1912	175	27.7

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 1ST 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	19	22	7	36.8
2	D.G.Khan	19	19	4	21.1
3	Jhang	15	31	3	20.0
4	Layyah	6	9	1	16.7
5	M.Garh	96	162	6	6.3
6	Chiniot	35	62	2	5.7

7	Nankana Sahib	43	72	2	4.7
8	Faisalabad	65	80.4	3	4.6
9	Gujrat	25	45.5	1	4.0
10	Khanewal	102	179	4	3.9
11	Multan	13	16	0	0.0
12	Vehari	15	15	0	0.0
13	Sahiwal	29	36	0	0.0
14	Pakpattan	12	15	0	0.0
15	Okara	12	22	0	0.0
16	Bahawalpur	29	38	0	0.0
17	Bahawalnagar	0	0	0	0.0
18	R.Y.Khan	6	6	0	0.0
19	Rajanpur	19	23	0	0.0
20	T.T.Sing	17	19.5	0	0.0
21	Lahore	7	31	0	0.0
22	Kasur	38	97	0	0.0
23	Sheikhupura	126	175	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	27	35	0	0.0
30	Hafizabad	29	64	0	0.0
31	Wazirabad	0	0	0	0.0
32	Sialkot	4	7	0	0.0
33	Narowal	23	36	0	0.0
34	M.B.Din	18	32	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	48	19.6	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	7	3.63	0	0.0
G.TOT 2023		904	1373	33	3.65

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST 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	1	1	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	19	41.5	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	9	13.25	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	33	11.5	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		62	67	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg. Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	38.7	29.4
Pakpattan	38.5	29.2
Okara	38.3	29.1
Jhang	39.6	29.8
Toba Tek Singh	39.4	29.3
Chiniot	40.3	29.5
Multan	39.6	30.1
Khanewal	38.8	29.8
Vehari	38.7	29.6
Lodhran	38.1	29.4
AVG	39.0	29.5

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