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نظامت اعلیٰ
(پیست وارننگ اینڈ کوالٹی کنٹرول
آف پستی سائینسز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 2ND**
WEEK OF AUGUST, 2023.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 2ND week of August in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 24 districts, infestation is reported on Sorghum Crop from 09 district and infestation is reported on Millet Crop from 01 district.


Assistant Director Agri. (PP) Hqr
For Director General

No. **7442-48** /DGA (PW&QCP)

Dated: **17-08-2023**

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 2ND 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	0.16	7.61	0.00	7.12	0.32	8.93	Increasing
2	Fall Armyworm	25.52	-	27.69	-	35.88	-	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	0.67	15.97	0.22	13.61	2.68	15.77	Increasing
2	Fall Armyworm	4.11	-	3.65	-	11.38	-	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	2.27	-	0.00	-	3.87	-	Increasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND 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	Rawalpindi	25	18	18	72.0
2	Sargodha	37	229	22	59.5
3	Lodhran	24	138	11	45.8
4	Sahiwal	24	157	11	45.8
5	Okara	20	32	7	35.0
6	Jhang	20	61	7	35.0
7	Vehari	15	28	5	33.3
8	Pakpattan	15	30	5	33.3
9	Rajanpur	6	6	2	33.3
10	Attock	3	2.7	1	33.3
11	Khanewal	33	174	10	30.3
12	Layyah	7	17	2	28.6
13	TTSingh	26	117.25	7	26.9
14	D.G.Khan	23	23	6	26.1

15	Lahore	8	28	2	25.0
16	Faisalabad	58	153.9	12	20.7
17	Sialkot	5	19	1	20.0
18	M.Garh	42	52	8	19.0
19	Sheikhupura	16	51	3	18.8
20	Chiniot	59	241	9	15.3
21	Kasur	21	69	3	14.3
22	Chakwal	42	17.125	6	14.3
23	Multan	18	133	2	11.1
24	M.B. Din	19	37	1	5.3
25	Bahawalpur	20	281	0	0.0
26	Bahawalnagar	16	25	0	0.0
27	R.Y.Khan	6	9	0	0.0
28	Nankana Sahib	8	16	0	0.0
29	Ferozwala	0	0	0	0.0
30	Gujranwala	1	4	0	0.0
31	Hafizabad	2	8	0	0.0
32	Wazirabad	0	0	0	0.0
33	Narowal	0	0	0	0.0
34	Gujrat	2	5	0	0.0
35	Khushab	0	0	0	0.0
36	Bhakkar	0	0	0	0.0
37	Mianwali	4	4	0	0.0
38	Jhelum	6	22	0	0.0
G.TOT 2023		631	2208	161	25.5

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 2ND 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	22	34	8	36.4
2	Jhang	31	60	8	25.8
3	D.G.Khan	23	23	5	21.7
4	Nankana Sahib	45	71	4	8.9
5	M.Garh	86	109	7	8.1
6	Khanewal	90	153	5	5.6
7	Faisalabad	86	96.25	4	4.7
8	T.T.Sing	25	23.5	1	4.0
9	Sheikhupura	126	228	1	0.8
10	Multan	24	29	0	0.0
11	Vehari	15	15	0	0.0
12	Sahiwal	27	34	0	0.0
13	Pakpattan	13	16	0	0.0
14	Okara	28	41	0	0.0

15	Bahawalpur	24	30	0	0.0
16	Bahawalnagar	18	23	0	0.0
17	R.Y.Khan	8	8	0	0.0
18	Rajanpur	18	22	0	0.0
19	Layyah	8	9	0	0.0
20	Chiniot	23	41	0	0.0
21	Lahore	6	22	0	0.0
22	Kasur	30	83	0	0.0
23	Ferozwala	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	40	40.5	0	0.0
29	Hafizabad	36	75	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	100	201.5	0	0.0
32	Narowal	34	32.5	0	0.0
33	M.B.Din	19	53	0	0.0
34	Gujrat	12	25.5	0	0.0
35	Jhelum	0	0	0	0.0
36	Chakwal	29	11.5	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		1046	1610	43	4.11

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 2ND 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	Narowal	9	16	1	11.1
2	Multan	0	0	0	0.0
3	Khanewal	0	0	0	0.0
4	Vehari	0	0	0	0.0
5	Lodhran	0	0	0	0.0
6	Sahiwal	0	0	0	0.0
7	Pakpattan	0	0	0	0.0
8	Okara	0	0	0	0.0
9	Bahawalpur	0	0	0	0.0
10	Bahawalnagar	0	0	0	0.0
11	R.Y.Khan	0	0	0	0.0
12	D.G.Khan	0	0	0	0.0
13	M.Garh	0	0	0	0.0
14	Rajanpur	0	0	0	0.0
15	Layyah	0	0	0	0.0
16	Faisalabad	0	0	0	0.0
17	T.T.Sing	0	0	0	0.0

18	Jhang	0	0	0	0.0
19	Chiniot	6	8	0	0.0
20	Lahore	0	0	0	0.0
21	Kasur	0	0	0	0.0
22	Sheikhupura	0	0	0	0.0
23	Ferozwala	0	0	0	0.0
24	Nankana Sahib	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	0	0	0	0.0
30	Hafizabad	8	7	0	0.0
31	Wazirabad	0	0	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	21	8.5	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		44	40	1	2.3

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	40.6	28.6
Pakpattan	40.4	28.3
Okara	40.1	28.1
Jhang	41.6	29.6
Toba Tek Singh	41.3	29.2
Chiniot	41.8	29.0
Multan	41.2	30.7
Khanewal	40.8	30.0
Vehari	40.5	30.2
Lodhran	39.8	29.1
AVG	40.8	29.3

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