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نظام اعلیٰ
(پیسٹ وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹ سائینسز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH**
WEEK OF JULY, 2022.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 4TH week of June in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 22 districts, infestation is reported on Sorghum Crop from 06 district and infestation is reported on Millet Crop from 01 district which is expected to increase in coming period.

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

No. *9602-07* /DGA (PW&QCP)
Copy forwarded for information to;

Dated: *02-08-22*

- 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 4TH WEEK OF JULY, 2022

Pest Situation of Maize Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	9.73	0.00	8.44	1.13	8.37	-
-	Fall Armyworm	28.24	-	27.49	-	8.21	-	Increasing

Pest Situation of Sorghum Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	1.01	8.36	0.34	8.45	0.75	11.04	Increasing
2	Fall Armyworm	3.03	-	2.93	-	1.83	-	Increasing

Pest Situation of Millet Pests								
%age of spots								
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		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	3.70	-	4.17	-	0.00	-	Decreasing

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH WEEK OF JULY, 2022

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Faisalabad	55	122.4	19	34.5
2	Okara	30	137	16	53.3
3	Pakpattan	35	114	14	40.0
4	Sahiwal	20	86	12	60.0
5	Sargodha	24	54	12	50.0
6	Kasur	34	202	9	26.5
7	Chakwal	30	15.625	8	26.7
8	Rawalpindi	32	24.6	8	25.0
9	Khanewal	8	27	7	87.5
10	Chiniot	22	55	7	31.8
11	Sheikhupura	10	29	6	60.0
12	Lahore	15	49	5	33.3
13	TTSingh	13	47.5	5	38.5

14	Multan	24	141	4	16.7
15	D.G.Khan	40	55	4	10.0
16	Vehari	15	23	2	13.3
17	M.Garh	27	36	2	7.4
18	Narowal	2	4	2	100.0
19	M.B. Din	22	43	2	9.1
20	Bhakkar	5	5.75	2	40.0
21	Nankana Sahib	3	10	1	33.3
22	Gujrat	2	12.5	1	50.0
23	Lodhran	4	23	0	0.0
24	Bahawalpur	0	0	0	0.0
25	Bahawalnagar	0	0	0	0.0
26	R.Y.Khan	0	0	0	0.0
27	Rajanpur	12	14	0	0.0
28	Layyah	0	0	0	0.0
29	Ferozwala	0	0	0	0.0
30	Gujranwala	5	11	0	0.0
31	Hafizabad	3	13	0	0.0
32	Sialkot	8	29	0	0.0
33	Jhang	0	0	0	0.0
34	Khushab	5	5	0	0.0
35	Mianwali	0	0	0	0.0
36	Jhelum	7	11.5	0	0.0
37	Attock	12	12.5	0	0.0
G.TOT 2022		524	1412	148	28.2

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 4TH WEEK OF JULY, 2022**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Chakwal	33	9.5	10	30.3
2	Nankana Sahib	66	168.75	4	6.1
3	T.T.Sing	19	30.5	2	10.5
4	Kasur	40	150	2	5.0
5	M.B.Din	19	53	2	10.5
6	Faisalabad	92	126.9	1	1.1
7	Multan	0	0	0	0.0
8	Khanewal	0	0	0	0.0
9	Vehari	0	0	0	0.0
10	Lodhran	0	0	0	0.0
11	Sahiwal	0	0	0	0.0
12	Pakpattan	0	0	0	0.0
13	Okara	0	0	0	0.0

14	Bahawalpur	0	0	0	0.0
15	Bahawalnagar	0	0	0	0.0
16	R.Y.Khan	0	0	0	0.0
17	D.G.Khan	0	0	0	0.0
18	M.Garh	0	0	0	0.0
19	Rajanpur	0	0	0	0.0
20	Layyah	0	0	0	0.0
21	Jhang	29	56	0	0.0
22	Chiniot	48	113	0	0.0
23	Lahore	20	63	0	0.0
24	Sheikhupura	68	133	0	0.0
25	Ferozwala	0	0	0	0.0
26	Sargodha	55	108	0	0.0
27	Khushab	16	14.85	0	0.0
28	Minawali	0	0	0	0.0
29	Bhakkar	13	15	0	0.0
30	Gujranwala	38	96	0	0.0
31	Hafizabad	10	25.5	0	0.0
32	Sialkot	50	110	0	0.0
33	Narowal	42	31	0	0.0
34	Gujrat	19	36.75	0	0.0
35	Jehlum	17	43	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		694	1384	21	3.0

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH WEEK OF JULY, 2022**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Chakwal	16	2.625	3	18.8
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	16	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	9	13	0	0.0
26	Khushab	5	4.1	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	7	19	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	13	21	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	1	2	0	0.0
35	Jhelum	24	69	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		81	146.7	3	3.7

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	35.6	27.7
Pakpattan	35.5	27.4
Okara	14.1	7.3
Jhang	36.4	27.8
Toba Tek Singh	36.2	27.5
Chiniot	32.1	24.4
Multan	37.1	29.7
Khanewal	37.0	28.8
Vehari	37.2	28.5
Lodhran	36.4	28.0
AVG	33.8	25.7

Optimum temperature requirement for rapid multiplication of Fall Army Worm is 25-35 °C and it is predicted that the average temperature for the next week may favor for the development of Fall Army Worm.

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