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

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

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

At present the pest infestation is reported on Maize Crop from 18 districts, infestation is reported on Sorghum Crop from 05 district and infestation is reported on Alternate host plant from 01 district, which is expected to increase in coming period.


Assistant Director of Agri. (PP) Hqr
For Director General

No. 5546-52 /DGA (PW&QCP)

Dated: 19-06-2023

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 JUNE, 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	0.12	6.21	0.22	9.36	0.14	8.33	Decreasing
2	Fall Armyworm	8.47	-	7.86	-	16.26	-	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	0.49	14.31	0.76	14.63	0.55	8.90	Decreasing
2	Fall Armyworm	1.17	-	1.77	-	2.19	-	Decreasing

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	1.89	-
2	Fall Armyworm	0.00	-	0.00	-	7.55	-	-

Pest Situation of FAW on Other Alternate Host Plants								
		%age of spots on FAW						
Sr. No.	Crop Name	Current Week 2023						Remarks
		AETL	BETL					
1	Lucern, Sorghum	60.00	-					Reported

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND WEEK OF JUNE, 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	19	25	12	63.2	
2	Attock	5	8.7	2	40.0	
3	Khushab	3	2.5	1	33.3	
4	Rawalpindi	29	21.3	8	27.6	
5	Layyah	11	31	3	27.3	
6	Mianwali	8	9	2	25.0	
7	Multan	15	47	3	20.0	
8	Gujrat	5	17	1	20.0	

9	Chakwal	17	7.25	3	17.6
10	Khanewal	53	177	8	15.1
11	Gujranwala	20	53	3	15.0
12	M.Garh	29	86	4	13.8
13	Kasur	45	189	5	11.1
14	M.B. Din	9	13	1	11.1
15	Sheikhupura	53	153	5	9.4
16	Faisalabad	58	102.8	5	8.6
17	Sargodha	18	75.5	1	5.6
18	Chiniot	89	424	4	4.5
19	Vehari	45	161	0	0.0
20	Lodhran	33	788	0	0.0
21	Sahiwal	34	240	0	0.0
22	Pakpattan	38	105	0	0.0
23	Okara	13	37	0	0.0
24	Bahawalpur	9	132	0	0.0
25	Bahawalnagar	17	145	0	0.0
26	R.Y.Khan	0	0	0	0.0
27	Rajanpur	14	19	0	0.0
28	Lahore	20	278	0	0.0
29	Nankana Sahib	44	168	0	0.0
30	Ferozwala	0	0	0	0.0
31	Hafizabad	8	53	0	0.0
32	Wazirabad	3	13	0	0.0
33	Sialkot	14	207	0	0.0
34	Narowal	5	8	0	0.0
35	TTSingh	18	95.5	0	0.0
36	Jhang	24	90	0	0.0
37	Bhakkar	0	0	0	0.0
38	Jehlum	13	67	0	0.0
G.TOT 2023		838	4049	71	8.5

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 2ND WEEK OF JUNE, 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	7	7	2	28.6
2	Layyah	6	9	1	16.7
3	Chiniot	37	54.5	4	10.8
4	Lodhran	38	40	3	7.9
5	Khushab	41	35.5	2	4.9
6	Multan	22	26	0	0.0
7	Khanewal	67	121	0	0.0
8	Vehari	45	50	0	0.0

9	Sahiwal	60	94	0	0.0
10	Pakpattan	38	43	0	0.0
11	Okara	19	32	0	0.0
12	Bahawalpur	16	21	0	0.0
13	Bahawalnagar	15	22	0	0.0
14	R.Y.Khan	7	7	0	0.0
15	M.Garh	44	44	0	0.0
16	Rajanpur	19	27	0	0.0
17	Faisalabad	35	49.4	0	0.0
18	T.T.Sing	21	23	0	0.0
19	Jhang	23	39	0	0.0
20	Lahore	26	70	0	0.0
21	Kasur	63	98	0	0.0
22	Sheikhupura	129	195	0	0.0
23	Ferozwala	0	0	0	0.0
24	Nankana Sahib	51	119	0	0.0
25	Sargodha	61	95	0	0.0
26	Minawali	0	0	0	0.0
27	Bhakkar	0	0	0	0.0
28	Gujranwala	50	60.5	0	0.0
29	Hafizabad	18	32	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	43	32	0	0.0
33	M.B.Din	5	13	0	0.0
34	Gujrat	2	2	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	16	9.125	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	3	1.6	0	0.0
G.TOT 2023		1027	1472	12	1.17

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 2ND WEEK OF JUNE, 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	1	2	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	7	15	0	0.0
24	Sargodha	6	11	0	0.0
25	Khushab	15	8.25	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	7	8.75	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	0	0	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	6	1.25	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		42	46.25	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg. Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	44.1	32.6
Pakpattan	43.8	32.3
Okara	43.5	32.0
Jhang	46.0	33.0
Toba Tek Singh	45.7	32.5
Chiniot	45.3	32.2
Multan	45.5	34.0
Khanewal	45.1	33.7
Vehari	44.4	34.1
Lodhran	43.2	32.7
AVG	44.7	32.9

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