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نظامت اعلیٰ
(پست وارنگ ایئر کوالٹی کنٹرول
آف قسٹی سائینرز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH WEEK OF JULY, 2023.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 4TH week of July 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 08 district and infestation is reported on Alternate Host Plant from 01 district.


Assistant Director Agri. (PP) Hqr
For Director General

No. 6751-57 /DGA (PW&QCP)
Copy forwarded for information to;

Dated: 02-08-2023

- 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 4TH WEEK OF JULY, 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	9.77	0.19	9.98	0.00	9.73	Decreasing
2	Fall Armyworm	18.47	-	18.46	-	28.24	-	Sustaining

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	0.38	12.70	0.57	15.94	1.01	8.36	Decreasing
2	Fall Armyworm	2.00	-	2.64	-	3.03	-	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	0.00	-
2	Fall Armyworm	0.00	-	0.00	-	3.70	-	-

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, Sorghum, Pumpkin	6.45	-	Reported	

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH WEEK OF JULY, 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	28	13.9	20	71.4
2	Jhang	3	12	2	66.7
3	Lahore	5	29	3	60.0
4	D.G.Khan	23	25	13	56.5
5	Khushab	2	5	1	50.0

6	Vehari	15	29	5	33.3
7	Attock	6	6.3	2	33.3
8	Layyah	7	18	2	28.6
9	Chiniot	53	108	13	24.5
10	Faisalabad	71	133.55	17	23.9
11	Sheikhupura	28	47	6	21.4
12	M.Garh	47	102	9	19.1
13	Chakwal	25	13.6	4	16.0
14	Lodhran	11	61	1	9.1
15	Multan	13	53	1	7.7
16	Kasur	31	85	2	6.5
17	Sargodha	42	118.5	2	4.8
18	Khanewal	22	99	1	4.5
19	Sahiwal	23	101	0	0.0
20	Pakpattan	15	32	0	0.0
21	Okara	13	22	0	0.0
22	Bahawalpur	9	217	0	0.0
23	Bahawalnagar	7	10	0	0.0
24	R.Y.Khan	0	0	0	0.0
25	Rajanpur	8	10	0	0.0
26	Nankana Sahib	4	11	0	0.0
27	Ferozwala	0	0	0	0.0
28	Gujranwala	3	5	0	0.0
29	Hafizabad	0	0	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	7	74.3	0	0.0
32	Narowal	0	0	0	0.0
33	M.B. Din	11	17	0	0.0
34	Gujrat	1	4	0	0.0
35	TTSingh	12	134	0	0.0
36	Bhakkar	0	0	0	0.0
37	Mianwali	6	9	0	0.0
38	Jehlum	12	27.25	0	0.0
G.TOT 2023		563	1632	104	18.5

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 4TH WEEK OF JULY, 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	17	20	4	23.5
2	D.G.Khan	24	24	4	16.7
3	Layyah	6	9	1	16.7
4	Khushab	26	30.5	3	11.5
5	Faisalabad	93	115.95	7	7.5

6	Chiniot	40	58	3	7.5
7	M.Garh	42	44	3	7.1
8	T.T.Sing	39	45	1	2.6
9	Multan	18	20	0	0.0
10	Khanewal	64	127	0	0.0
11	Vehari	15	15	0	0.0
12	Sahiwal	30	38	0	0.0
13	Pakpattan	15	18	0	0.0
14	Okara	42	72	0	0.0
15	Bahawalpur	30	38	0	0.0
16	Bahawalnagar	13	16	0	0.0
17	R.Y.Khan	7	7	0	0.0
18	Rajanpur	19	24	0	0.0
19	Jhang	10	15	0	0.0
20	Lahore	6	21	0	0.0
21	Kasur	37	87	0	0.0
22	Sheikhupura	142	204	0	0.0
23	Ferozwala	0	0	0	0.0
24	Nankana Sahib	66	168.75	0	0.0
25	Sargodha	88	120	0	0.0
26	Minawali	49	61	0	0.0
27	Bhakkar	0	0	0	0.0
28	Gujranwala	55	73.5	0	0.0
29	Hafizabad	48	88	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	148	372.3	0	0.0
32	Narowal	28	25.4	0	0.0
33	M.B.Din	18	52	0	0.0
34	Gujrat	37	53	0	0.0
35	Jehlum	0	0	0	0.0
36	Chakwal	27	10.625	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		1299	2073	26	2.00

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH WEEK OF JULY, 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	2	1	0	0.0
24	Sargodha	9	20	0	0.0
25	Khushab	13	12	0	0.0
26	Minawali	47	65	0	0.0
27	Bhakkar	0	0	0	0.0
28	Gujranwala	0	0	0	0.0
29	Hafizabad	9	12	0	0.0
30	Wazirabad	0	0	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	11	20	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	5	8	0	0.0
35	Jhelum	0	0	0	0.0
36	Chakwal	15	1.875	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		112	142	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	38.0	30.1
Pakpattan	38.0	30.1
Okara	38.0	30.1
Jhang	40.0	30.6
Toba Tek Singh	40.0	30.6
Chiniot	39.1	30.0
Multan	40.4	31.6
Khanewal	40.0	31.1
Vehari	40.0	31.1
Lodhran	39.1	30.8
AVG	39.3	30.6

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