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نظامت اعلیٰ
(پیسٹ وارننگ اینڈ کوالٹی کنٹرول)
آف کیمسٹری سائنسز، پنجاب لاہور

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

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 19 districts, infestation is reported on Sorghum Crop from 08 district, infestation is reported on Millet Crop from 01 district and infestation is reported on Alternate host plant from 01 district, which is expected to increase in coming period.


Assistant Director Agri. (PP) Hqr
For Director General

No. 5821-27 /DGA, (PW&QCP)
Copy forwarded for information to;

Dated: 04-07-2023

- 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 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	0.47	12.09	1.35	6.58	0.27	7.30	Decreasing
2	Fall Armyworm	10.39	-	11.66	-	18.78	-	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	0.37	13.90	3.50	12.51	1.04	6.10	Decreasing
2	Fall Armyworm	2.04	-	1.80	-	2.59	-	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	2.15	-	0.00	-	0.00	-	Increasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4 TH 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	Bhakkar	2	2	2	100.0	
2	Khushab	2	2.5	1	50.0	
3	D.G.Khan	16	20	7	43.8	
4	Attock	5	8.7	2	40.0	
5	Layyah	10	21	3	30.0	
6	Rawalpindi	41	22.5	11	26.8	
7	Sargodha	19	28.5	5	26.3	
8	Gujrat	5	17	1	20.0	
9	Mianwali	12	14	2	16.7	
10	M.Garh	32	88	5	15.6	
11	Chiniot	20	49	3	15.0	
12	Kasur	34	246	5	14.7	
13	Chakwal	42	25	6	14.3	

14	Khanewal	18	55	2	11.1
15	M.B. Din	9	13	1	11.1
16	Lahore	11	65	1	9.1
17	Faisalabad	47	56.6	4	8.5
18	Sheikhupura	48	124	4	8.3
19	Nankana Sahib	62	121.75	2	3.2
20	Multan	10	33	0	0.0
21	Vehari	8	29	0	0.0
22	Lodhran	18	151	0	0.0
23	Sahiwal	23	31	0	0.0
24	Pakpattan	24	59	0	0.0
25	Okara	11	38	0	0.0
26	Bahawalpur	1	7	0	0.0
27	Bahawalnagar	0	0	0	0.0
28	R.Y.Khan	0	0	0	0.0
29	Rajanpur	8	11	0	0.0
30	Ferozwala	0	0	0	0.0
31	Gujranwala	3	3	0	0.0
32	Hafizabad	8	53	0	0.0
33	Wazirabad	3	13	0	0.0
34	Sialkot	6	31.5	0	0.0
35	Narowal	9	9	0	0.0
36	TTSingh	9	21.5	0	0.0
37	Jhang	58	202	0	0.0
38	Jehlum	11	21	0	0.0
G.TOT 2023		645	1693	67	10.4

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 4TH 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	11	11	4	36.4
2	Khushab	4	11	1	25.0
3	Lodhran	33	37	4	12.1
4	T.T.Sing	74	56.5	7	9.5
5	Chiniot	16	20	1	6.3
6	Faisalabad	55	60.4	2	3.6
7	Jhang	71	167	2	2.8
8	Nankana Sahib	78	149.5	1	1.3
9	Multan	16	18	0	0.0
10	Khanewal	41	63	0	0.0
11	Vehari	8	9	0	0.0
12	Sahiwal	37	53	0	0.0
13	Pakpattan	24	32	0	0.0

14	Okara	92	160	0	0.0
15	Bahawalpur	32	40	0	0.0
16	Bahawalnagar	20	24	0	0.0
17	R.Y.Khan	7	7	0	0.0
18	M.Garh	36	36	0	0.0
19	Rajanpur	19	26	0	0.0
20	Layyah	6	10	0	0.0
21	Lahore	11	3	0	0.0
22	Kasur	44	98	0	0.0
23	Sheikhupura	147	213	0	0.0
24	Ferozwala	0	0	0	0.0
25	Sargodha	36	45.5	0	0.0
26	Minawali	26	31	0	0.0
27	Bhakkar	0	0	0	0.0
28	Gujranwala	38	76.5	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	25	23	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	44	18.375	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	3	1.6	0	0.0
G.TOT 2023		1079	1547	22	2.04

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH 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	Khushab	24	42.5	2	8.3
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	0	0	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	Minawali	41	61	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	21	3.875	0	0.0
37	Rawalpindi	0	0	0	0.0
38	Attock	0	0	0	0.0
G.TOT 2023		93	116.125	2	2.2

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	35.3	28.3
Pakpattan	35.1	28.0
Okara	34.9	28.1
Jhang	35.7	28.4
Toba Tek Singh	35.5	28.5
Chiniot	35.1	27.3
Multan	38.3	29.7
Khanewal	38.0	29.4
Vehari	37.8	29.1
Lodhran	38.4	30.0
AVG	36.4	28.7

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