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

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

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

At present the pest infestation is reported on Maize Crop from 17 districts which is expected to increase in coming period.

Hana 14/03/23
Assistant Director of Agri. (PP) Hqr
For Director General

No. *2988-44* /DGA(PW&QCP) Dated: *23-04-23*

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 4TH WEEK OF MARCH, 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	3.24	0.00	1.48	0.00	3.17	-
2	Fall Armyworm	6.49	-	4.81	-	5.12	-	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	0.00	0.00	0.00	0.00	0.00	0.00	-
2	Fall Armyworm	0.00	-	0.00	-	0.00	-	-

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	-	0.00	-	-

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH WEEK OF MARCH, 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	14	5	45.5
2	Layyah	8	17	2	25.0
3	Khanewal	40	117	9	22.5
4	R.Y.Khan	19	57	3	15.8
5	Okara	30	193	4	13.3
6	Multan	24	225	3	12.5
7	Pakpattan	31	199	3	9.7
8	Gujrat	11	68	1	9.1
9	Kasur	38	263	3	7.9
10	Bahawalnagar	13	126	1	7.7
11	Gujranwala	17	215	1	5.9
12	Chiniot	36	279	2	5.6

13	M.Garh	40	126	2	5.0
14	Lodhran	23	148	1	4.3
15	Vehari	54	288	2	3.7
16	Sahiwal	44	238	1	2.3
17	Sheikhupura	80	313	1	1.3
18	Bahawalpur	18	222	0	0.0
19	Rajanpur	5	13	0	0.0
20	Lahore	5	56	0	0.0
21	Nankana Sahib	0	0	0	0.0
22	Ferozwala	0	0	0	0.0
23	Hafizabad	5	24	0	0.0
24	Sialkot	0	0	0	0.0
25	Narowal	0	0	0	0.0
26	M.B. Din	0	0	0	0.0
27	Faisalabad	42	119	0	0.0
28	TTSingh	19	79.5	0	0.0
29	Jhang	21	106	0	0.0
30	Sargodha	37	43.25	0	0.0
31	Khushab	0	0	0	0.0
32	Bhakkar	1	2	0	0.0
33	Mianwali	6	12.5	0	0.0
34	Jhelum	0	0	0	0.0
35	Chakwal	0	0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2023		678	3563	44	6.5

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 4TH WEEK OF MARCH, 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	0	0	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	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	4	6	0	0.0
29	Hafizabad	0	0	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	0	0	0	0.0
32	M.B.Din	0	0	0	0.0
33	Gujrat	1	2	0	0.0
34	Jhelum	0	0	0	0.0
35	Chakwal	0	0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2023		5	8	0	0.00

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	29.3	16.8
Pakpattan	29.1	16.5
Okara	29.0	16.2
Jhang	26.3	15.6
Toba Tek Singh	27.4	15.4
Chiniot	26.4	15.8
Multan	29.0	16.8
Khanewal	29.8	16.7
Vehari	29.5	16.1
Lodhran	31.4	19.6
AVG	28.7	16.5

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