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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1ST**
WEEK OF NOVEMBER, 2022.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1ST Week of November in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 32 districts, infestation is reported on Sorghum Crop from 10 district and infestation is not reported on Millet Crop.

Muhammad Ali
10/11/22
Deputy Director of Agri. (QCP) Hqr
For DIRECTOR GENERAL

No. *12757-63* /DGA (PW&QCP)

Dated: *10-11-2022*

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 1ST WEEK OF NOVEMBER, 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	0.16	8.43	0.00	10.01	0.00	8.32	Increasing
2	Fall Armyworm	34.20	-	38.93	-	36.95	-	Decreasing

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	0.29	9.54	0.49	11.99	1.57	13.48	Decreasing
2	Fall Armyworm	10.12	-	12.32	-	15.36	-	Decreasing

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	0.00	-	4.73	-	4.05	-	Decreasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST WEEK OF NOVEMBER, 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	R.Y.Khan	8	20	8	100.0
2	Nankana Sahib	1	1	1	100.0
3	Gujranwala	2	5	2	100.0
4	Khushab	2	2	2	100.0
5	Layyah	9	23	6	66.7
6	Sheikhupura	12	53	8	66.7
7	Chakwal	6	3.125	4	66.7
8	TTSingh	16	65	10	62.5
9	Lodhran	22	156	13	59.1
10	Bhakkar	14	12.7	8	57.1
11	Jhang	13	32	7	53.8
12	Chiniot	20	62	10	50.0
13	Vehari	14	37	6	42.9
14	M.B. Din	7	16	3	42.9
15	Bahawalpur	30	217	12	40.0
16	Multan	44	336	16	36.4

17	Khanewal	29	77	10	34.5
18	Pakpattan	42	86	14	33.3
19	Lahore	18	165	6	33.3
20	Bahawalnagar	16	31	5	31.3
21	D.G.Khan	30	41	8	26.7
22	Kasur	28	79	7	25.0
23	Rawalpindi	8	2.6	2	25.0
24	Attock	4	3	1	25.0
25	M.Garh	26	34	6	23.1
26	Mianwali	13	21	3	23.1
27	Okara	22	71	5	22.7
28	Sahiwal	37	140	7	18.9
29	Faisalabad	90	176.95	17	18.9
30	Jhelum	7	13	1	14.3
31	Rajanpur	16	16	2	12.5
32	Sargodha	11	17.5	1	9.1
33	Ferozwala	0	0	0	0.0
34	Hafizabad	0	0	0	0.0
35	Sialkot	0	0	0	0.0
36	Narowal	0	0	0	0.0
37	Gujrat	0	0	0	0.0
G.TOT 2022		617	2014.88	211	34.2

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 1ST WEEK OF NOVEMBER, 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	Multan	14	21	5	35.7
2	Khanewal	16	21	4	25.0
3	Vehari	15	15	3	20.0
4	Lodhran	36	39	7	19.4
5	Okara	22	47	3	13.6
6	Pakpattan	39	43	5	12.8
7	Chakwal	16	14.75	2	12.5
8	Kasur	18	47	2	11.1
9	Nankana Sahib	25	35	2	8.0
10	Sahiwal	39	52	2	5.1
11	Bahawalpur	0	0	0	0.0
12	Bahawalnagar	0	0	0	0.0
13	R.Y.Khan	0	0	0	0.0
14	D.G.Khan	0	0	0	0.0
15	M.Garh	8	8	0	0.0
16	Rajanpur	41	41	0	0.0
17	Layyah	0	0	0	0.0
18	Faisalabad	0	0	0	0.0
19	T.T.Sing	0	0	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	11	19	0	0.0
22	Lahore	12	22	0	0.0
23	Sheikhupura	11	13	0	0.0
24	Ferozwala	0	0	0	0.0

25	Sargodha	0	0	0	0.0
26	Khushab	0	0	0	0.0
27	Minawali	10	11	0	0.0
28	Bhakkar	0	0	0	0.0
29	Gujranwala	6	8	0	0.0
30	Hafizabad	0	0	0	0.0
31	Sialkot	4	1.1	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	2	2	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	1	1	0	0.0
G.TOT 2022		346	460.85	35	10.1

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST WEEK OF NOVEMBER, 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	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	26	78	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	0	0	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	2	4	0	0.0

33	Gujrat	0	0	0	0.0
34	Jehlum	2	1.25	0	0.0
35	Chakwal	7	1.5	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		37	84.75	0	0.0

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	25.7	13.3
Pakpattan	25.4	13.1
Okara	25.1	13.0
Jhang	23.1	11.8
Toba Tek Singh	24.0	12.3
Chiniot	24.7	12.9
Multan	26.3	14.3
Khanewal	24.1	14.0
Vehari	26.5	14.5
Lodhran	26.8	14.8
AVG	25.2	13.4

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