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

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

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

At present the pest infestation is reported on Maize Crop from 27 districts, infestation is reported on Sorghum Crop from 04 district, infestation is reported on Millet Crop from 01 district which is expected to Decrease in coming period.


Deputy Director of Agri. (QCP) Hqr
For Director General

No. 7745-51 /DGA (PW&QCP)

Dated: 08-06-2022

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 JUNE, 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	0.00	8.72	0.68	7.30	0.13	7.47	Decreasing
2	Fall Armyworm	14.86	-	15.17	-	1.60	-	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	0.70	5.78	0.67	8.87	0.00	0.00	Increasing
2	Fall Armyworm	2.80	-	3.77	-	0.00	-	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	1.32	0.00	0.00	0.00	0.00	-
2	Fall Armyworm	1.32	-	0.00	-	0.00	-	Increasing

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST WEEK OF JUNE, 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	Faisalabad	94	183.55	16	17.0
2	D.G.Khan	58	72	9	15.5
3	Sheikhupura	29	142	9	31.0
4	Pakpattan	39	183	7	17.9
5	Chiniot	58	283	7	12.1
6	Jhang	14	42	7	50.0
7	Sahiwal	37	191	6	16.2
8	Kasur	37	196	6	16.2
9	Gujranwala	25	99.89	6	24.0
10	Sargodha	8	35.5	6	75.0
11	Okara	23	67	5	21.7
12	M.B. Din	26	57	5	19.2
13	Multan	26	122	4	15.4

14	Khanewal	8	19	4	50.0
15	Sialkot	23	99	4	17.4
16	Vehari	15	85	3	20.0
17	Lahore	18	114	3	16.7
18	Rawalpindi	26	12.9	3	11.5
19	Rajanpur	19	24	2	10.5
20	Chakwal	10	5.375	2	20.0
21	Lodhran	20	268	1	5.0
22	M.Garh	24	37	1	4.2
23	Narowal	10	23.5	1	10.0
24	Gujrat	6	5.25	1	16.7
25	TTSingh	14	16.5	1	7.1
26	Bhakkar	10	5.25	1	10.0
27	Jehlum	40	658.5	1	2.5
28	Bahawalpur	20	247	0	0.0
29	Bahawalnagar	10	32	0	0.0
30	R.Y.Khan	15	15	0	0.0
31	Layyah	0	0	0	0.0
32	Nankana Sahib	19	17.75	0	0.0
33	Ferozwala	0	0	0	0.0
34	Hafizabad	6	31.5	0	0.0
35	Khushab	2	2.5	0	0.0
36	Mianwali	13	19.1	0	0.0
37	Attock	12	21.75	0	0.0
G.TOT 2022		814	3415	121	14.9

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 1ST WEEK OF JUNE, 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	Chiniot	42	97	6	14.3
2	Faisalabad	91	114.7	5	5.5
3	M.B.Din	19	34	3	15.8
4	Sargodha	40	87	2	5.0
5	Multan	0	0	0	0.0
6	Khanewal	0	0	0	0.0
7	Vehari	0	0	0	0.0
8	Lodhran	0	0	0	0.0
9	Sahiwal	0	0	0	0.0
10	Pakpattan	0	0	0	0.0
11	Okara	0	0	0	0.0
12	Bahawalpur	0	0	0	0.0

13	Bahawalnagar	0	0	0	0.0
14	R.Y.Khan	0	0	0	0.0
15	D.G.Khan	0	0	0	0.0
16	M.Garh	0	0	0	0.0
17	Rajanpur	0	0	0	0.0
18	Layyah	0	0	0	0.0
19	T.T.Sing	18	12.7	0	0.0
20	Jhang	0	0	0	0.0
21	Lahore	11	34	0	0.0
22	Kasur	13	20	0	0.0
23	Sheikhupura	16	41	0	0.0
24	Ferozwala	0	0	0	0.0
25	Nankana Sahib	25	33.5	0	0.0
26	Khushab	60	47.625	0	0.0
27	Minawali	0	0	0	0.0
28	Bhakkar	23	9.02	0	0.0
29	Gujranwala	32	61.25	0	0.0
30	Hafizabad	37	68	0	0.0
31	Sialkot	35	107	0	0.0
32	Narowal	81	78	0	0.0
33	Gujrat	15	27	0	0.0
34	Jehlum	4	4.5	0	0.0
35	Chakwal	9	2.25	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		571	878.5	16	2.8

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST WEEK OF JUNE, 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	Chakwal	14	3.125	1	7.1
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	5	10	0	0.0
20	Lahore	0	0	0	0.0
21	Kasur	3	4	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	13	20	0	0.0
26	Khushab	16	5.125	0	0.0
27	Minawali	0	0	0	0.0
28	Bhakkar	22	10.92	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	3	4	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	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		76	57.17	1	1.3

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	45.0	31.0
Pakpattan	45.0	31.1
Okara	45.0	31.0
Jhang	45.6	30.7
Toba Tek Singh	45.7	31.3
Chiniot	42.8	27.8
Multan	45.3	31.7
Khanewal	45.4	31.1
Vehari	45.4	31.1
Lodhran	45.1	31.3
AVG	45.0	30.8

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 not 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