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قائم العالی
(پست وارننگ اور کوالٹی کنٹرول)
آف پیسٹی سائینسز، پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1ST WEEK OF SEPTEMBER, 2021.**

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

At present the pest infestation is reported on Maize Crop from 34 districts whereas the infestation on Sorghum Crop is observed from 16 districts and the infestation on Millet Crop is observed from 2 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. 10838-44 /DGA(PW&QCP) Dated: 08-09-2021
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.
- Director General 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 SEPTEMBER, 2021

Pest Situation of Maize Pests						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.58	11.23	1.75	13.30	Decreasing
2	Fall Armyworm	42.71	-	41.54	-	Increasing

Pest Situation of Sorghum Pests						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.34	15.53	1.88	15.71	Decreasing
2	Fall Armyworm	7.53	-	7.32	-	Sustaining

Pest Situation of FAW on Millet Host Plants						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.00	0.00	0.36	-
2	Fall Armyworm	1.66	-	0.73	-	Increasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST WEEK OF SEPTEMBER 2021					
Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Sahiwal	51	282	40	78.4
2	Faisalabad	71	220.6	40	56.3
3	Bahawalpur	46	366	33	71.7
4	Pakpattan	46	218	30	65.2
5	Khanewal	39	214	25	64.1
6	Multan	32	238	24	75.0
7	Lodhran	36	361	24	66.7
8	Vehari	30	228	18	60.0
9	Okara	30	174	14	46.7
10	Sargodha	31	57	14	45.2
11	Kasur	59	168	11	18.6

12	D.G.Khan	55	99	8	14.5
13	M.Garh	27	68	8	29.6
14	Jhang	24	83	8	33.3
15	Bahawalnagar	17	51	7	41.2
16	Bhakkar	27	28.9	7	25.9
17	Layyah	13	26	6	46.2
18	Chiniot	12	32	6	50.0
19	Rawalpindi	17	23.3	6	35.3
20	Sheikhupura	12	44	5	41.7
21	Mianwali	14	43	5	35.7
22	Chakwal	47	47.18	5	10.6
23	TTSingh	19	40.5	4	21.1
24	Rajanpur	6	7	3	50.0
25	Ferozwala	10	120	3	30.0
26	Jhelum	14	21.25	3	21.4
27	Nankana Sahib	5	30	2	40.0
28	Sialkot	13	31	2	15.4
29	Narowal	5	14	2	40.0
30	M.B. Din	9	16	2	22.2
31	R.Y.Khan	12	25	1	8.3
32	Lahore	12	57	1	8.3
33	Gujranwala	2	2.5	1	50.0
34	Gujrat	4	16.0	1	25.0
35	Hafizabad	0	0	0	0.0
36	Khushab	0	0	0	0.0
37	Attock	17	30.35	0	0.0
G.TOT 2021		864	3483	369	42.7

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 1ST WEEK OF SEPTEMBER 2021**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Sargodha	78	126.5	11	14.1
2	Pakpattan	39	49	8	20.5
3	Kasur	67	130	6	9.0
4	Sheikhupura	21	34.0	6	28.6
5	Chakwal	46	41.5	6	13.0
6	D.G.Khan	44	71	5	11.4
7	Sahiwal	26	41	4	15.4
8	T.T.Sing	23	28	4	17.4
9	Okara	21	30	3	14.3
10	Nankana Sahib	27	46	3	11.1

11	Multan	44	73	2	4.5
12	Jhang	37	59	2	5.4
13	Minawali	17	18	2	11.8
14	M.B.Din	13	21	2	15.4
15	Vehari	30	50	1	3.3
16	Gujrat	21	28	1	4.8
17	Khanewal	20	31	0	0.0
18	Lodhran	24	32	0	0.0
19	Bahawalpur	0	0	0	0.0
20	Bahawalnagar	0	0	0	0.0
21	R.Y.Khan	0	0	0	0.0
22	M.Garh	15	16	0	0.0
23	Rajanpur	15	15	0	0.0
24	Layyah	8	9	0	0.0
25	Faisalabad	76	77.4	0	0.0
26	Chiniot	23	55	0	0.0
27	Lahore	7	17	0	0.0
28	Ferozwala	8	17	0	0.0
29	Khushab	3	3	0	0.0
30	Bhakkar	14	5.4	0	0.0
31	Gujranwala	31	60	0	0.0
32	Hafizabad	12	17.5	0	0.0
33	Sialkot	34	64	0	0.0
34	Narowal	20	28	0	0.0
35	Jehlum	8	8	0	0.0
36	Rawalpindi	3	0.3	0	0.0
37	Attock	1	0.4	0	0.0
G.TOT 2021		876	1302	66	7.5

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST WEEK OF SEPTEMBER 2021**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Narowal	12	36	2	16.7
2	Hafizabad	11	16	1	0.0
3	Chakwal	37	36.25	1	2.7
4	Multan	0	0	0	0.0
5	Khanewal	0	0	0	0.0
6	Vehari	0	0	0	0.0
7	Lodhran	0	0	0	0.0
8	Sahiwal	16	20	0	0.0
9	Pakpattan	0	0	0	0.0

10	Okara	0	0	0	0.0
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	8	15	0	0.0
15	M.Garh	0	0	0	0.0
16	Rajanpur	15	15	0	0.0
17	Layyah	14	32	0	0.0
18	Faisalabad	4	6	0	0.0
19	T.T.Sing	0	0	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	2	3	0	0.0
22	Lahore	0	0	0	0.0
23	Kasur	24	46	0	0.0
24	Sheikhupura	0	0	0	0.0
25	Ferozwala	0	0	0	0.0
26	Nankana Sahib	0	0	0	0.0
27	Sargodha	6	10	0	0.0
28	Khushab	1	1	0	0.0
29	Minawali	14	14	0	0.0
30	Bhakkar	58	145.5	0	0.0
31	Gujranwala	0	0	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	2	3.0	0	0.0
34	Gujrat	0	0	0	0.0
35	Jhelum	16	27.75	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	1	0.01	0	0.0
G.TOT 2021		241	426.5	4	1.7

FORECAST FOR THE NEXT WEEK:

Districts	Temperature	
	Max.	Min.
Sahiwal	37.0	25.0
Pakpattan	39.0	28.0
Okara	37.0	27.0
Faisalabad	37.1	27.1
Jhang	35.9	26.1
Toba Tek Singh	36.2	26.2
Chiniot	39.0	29.0
Multan	35.1	26.3
Khanewal	36.7	27.7
Vehari	36.2	27.5
Lodhran	35.7	23.7
AVG	36.9	26.7

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 is conducive for the rapid 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. Try Bio-Pesticides & Botanicals at first to conserve natural enemies.
10. Plant refuge/insectary crops along the borders or surrounding of Maize Crop to attract and provide shelter to beneficial insects.
11. 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, Emamectin@ 240ml/A, Leufenuron @ 240ml/A, Spintoram (120SC) @ 100ml/A.
Chlorantraniliprole 20%SC@100ml/A