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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 1ST WEEK OF DECEMBER, 2021.**

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 18 districts and the infestation on Alternate host plants is observed from 01 district in Punjab which is expected to sustain in coming period.


/ DIRECTOR GENERAL

No. 14438-44 /DGA(PW&QCP) Dated: 08-12-21
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 DECEMBER, 2021

Pest Situation of Maize Pests						
		%age of spots				
Sr. No.	Pest Name	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	2.22	1.52	1.52	Decreasing
2	Fall Armyworm	27.41	-	32.52	-	Decreasing

Pest Situation of Sorghum Pests						
		%age of spots				
Sr. No.	Pest Name	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.00	0.00	0.00	--
2	Fall Armyworm	0.00	-	9.09	-	Decreasing

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

Pest Situation of FAW on Other Alternate Host Plants						
		%age of spots on FAW				
Sr. No.	Name of Crop	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Potato	9.1	-	10.0	-	Decreasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1st WEEK OF DECEMBER 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	Pakpattan	35	121	9	25.7
2	Jhang	23	49	9	39.1
3	Sahiwal	15	57	8	53.3
4	Sargodha	7	8	7	100.0
5	Multan	36	149	6	16.7
6	Khanewal	19	42	5	26.3

7	Kasur	25	112	5	20.0
8	Vehari	15	63	3	20.0
9	Lodhran	9	51	3	33.3
10	Okara	7	12	3	42.9
11	Nankana Sahib	7	42	3	42.9
12	M.B. Din	15	26	3	20.0
13	Mianwali	10	19	3	30.0
14	Lahore	5	18	2	40.0
15	Ferozwala	3	9	2	66.7
16	Gujrat	2	3.5	1	50.0
17	Chiniot	3	5	1	33.3
18	TTSingh	3	1.5	1	33.3
19	Bahawalpur	11	32	0	0.0
20	Bahawalnagar	0	0	0	0.0
21	R.Y.Khan	7	9	0	0.0
22	D.G.Khan	0	0	0	0.0
23	M.Garh	0	0	0	0.0
24	Rajanpur	0	0	0	0.0
25	Layyah	0	0	0	0.0
26	Sheikhupura	3	4	0	0.0
27	Gujranwala	0	0	0	0.0
28	Hafizabad	0	0	0	0.0
29	Sialkot	6	10	0	0.0
30	Narowal	0	0.0	0	0.0
31	Faisalabad	1	5	0	0.0
32	Khushab	0	0	0	0.0
33	Bhakkar	0	0	0	0.0
34	Jehlum	0	0	0	0.0
35	Chakwal	3	5.75	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		270	853.8	74	27.4

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 1ST WEEK OF DECEMBER 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	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	Ferozwaia	2	3	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	0	0	0	0.0
33	Gujrat	0	0	0	0.0
34	Jehlum	0	0	0	0.0
35	Chakwal	1	0.5	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		3	3.5	0	0.0

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 1ST WEEK OF DECEMBER 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	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	4	23	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	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	0	0	0	0.0
33	Gujrat	0	0	0	0.0
34	Jehlum	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 2021		4	23	0	0.0

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON OTHER ALTERNATIVE HOST PLANTS FOR 1ST WEEK OF DECEMBER 2021					
Sr. #	Name of Crop	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Potato	33	336	3	9.1
G.TOT 2021		33	336	3	9.1

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	22	6.4
Pakpattan	20.7	9.8
Okara	20.4	9.4
Jhang	21.1	7.7
Toba Tek Singh	21.4	8.6
Chiniot	21.4	6.7
Multan	21.8	9.7
Khanewal	22	9.3
Vehari	21.7	10.1
Lodhran	21.7	10.6
AVG	21.4	8.8

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 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. 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