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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 3RD**
WEEK OF DECEMBER, 2021.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 3rd week of December in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 6 districts and the infestation on Alternate host plants is observed from 01 district in Punjab which is expected to sustain in coming period.


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

No. 14979-85 /DGA(PW&QCP) Dated: 22-12-2021
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.
- 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 3RD 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	0.00	0.00	0.94	-
2	Fall Armyworm	14.29	-	22.64	-	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	-	0.00	-	-

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	4.3	-	6.9	-	Decreasing

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3rd 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	Ferozwala	4	4	4	100.0
2	Kasur	22	142	4	18.2
3	Jhang	13	35	4	30.8
4	Pakpattan	11	37	2	18.2
5	Sahiwal	5	6	1	20.0
6	TTSingh	1	1	1	100.0

7	Multan	17	106	0	0.0
8	Khanewal	5	13	0	0.0
9	Vehari	15	67	0	0.0
10	Lodhran	7	8	0	0.0
11	Okara	9	29	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	Lahore	0	0	0	0.0
20	Sheikhupura	1	1	0	0.0
21	Nankana Sahib	0	0	0	0.0
22	Gujranwala	0	0	0	0.0
23	Hafizabad	0	0	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	Gujrat	0	0	0	0.0
28	Faisalabad	0	0	0	0.0
29	Chiniot	0	0	0	0.0
30	Sargodha	0	0	0	0.0
31	Khushab	0	0	0	0.0
32	Bhakkar	0	0	0	0.0
33	Mianwali	0	0	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	2	0.3	0	0.0
G.TOT 2021		112	449.3	16	14.3

**PEST SCOUTING REPORT OF FALL ARMYWORM ON OTHER ALTERNATIVE
HOST PLANTS FOR 3RD 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	23	248	1	4.3
G.TOT 2021		23	248	1	4.3

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	19.0	9.4
Pakpattan	18.7	11.1
Okara	18.1	10.7
Jhang	18.7	9.4
Toba Tek Singh	19.1	10.4
Chiniot	18.7	9.6
Multan	19.4	10.0
Khanewal	19.4	10.3
Vehari	19.6	10.6
Lodhran	20.1	10.7
AVG	19.1	10.2

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