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قلمت اعلیٰ
(پست وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹ سائیزرز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH**
WEEK OF JUNE, 2022.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 4TH week of June in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 22 districts, infestation is reported on Sorghum Crop from 06 district and infestation is reported on Other Alternate Host Plant from 03 district which is expected to increase in coming period.


Assistant Director of Agri. (PP) Hqr
For DIRECTOR GENERAL

No. **8703-08** /DGA (PW&QCP)
Copy forwarded for information to;

Dated: **01-07-2022**

- 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 4TH 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	0.27	7.30	0.31	7.78	0.00	7.77	Decreasing
2	Fall Armyworm	18.78	-	18.66	-	-	-	Increasing

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	1.04	6.10	0.93	11.65	-	-	Increasing
2	Fall Armyworm	2.59	-	3.88	-	-	-	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	-	-	-
2	Fall Armyworm	0.00	-	0.00	-	-	-	-

Pest Situation of FAW on Other Alternate Host Plants								
		%age of spots on FAW						
Sr. No.	Crop Name	Current Week 2022		Previous week 2022				Remarks
		AETL	BETL	AETL	BETL			
1	Koria/Napier/Jantar /Mott Grass/till/ Mung Bean	25.0	-	-	-			Reported
2	Sorghum, Sesame, Rice	18.7	-	-	-			Reported
3	Brinjal, Cucumber, Okra, Spong Gourd	40.0	-	-	-			Reported

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE
CROP FOR 4TH 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	Jhang	108	247	32	29.6
2	Faisalabad	74	112.4	14	18.9
3	Khanewal	11	48	11	100.0
4	Chiniot	32	85	10	31.3
5	Pakpattan	37	126	9	24.3
6	D.G.Khan	101	118	8	7.9
7	Sahiwal	20	35	6	30.0
8	Sheikhupura	10	51	6	60.0
9	Kasur	38	186	6	15.8
10	M.B. Din	38	94	6	15.8
11	Sargodha	43	80	6	14.0
12	Lahore	32	219	4	12.5
13	Chakwal	11	4.25	4	36.4
14	Multan	8	44	3	37.5
15	Okara	7	27	3	42.9
16	Rawalpindi	18	9.3	3	16.7
17	Vehari	8	10	2	25.0
18	Lodhran	6	36	2	33.3
19	Gujranwala	10	40	1	10.0
20	Sialkot	8	23	1	12.5
21	TTSingh	6	5.25	1	16.7
22	Jhelum	16	93.5	1	6.3
23	Bahawalpur	0	0	0	0.0
24	Bahawalnagar	0	0	0	0.0
25	R.Y.Khan	7	10	0	0.0
26	M.Garh	25	29	0	0.0
27	Rajanpur	15	19	0	0.0
28	Layyah	0	0	0	0.0
29	Nankana Sahib	9	11.5	0	0.0
30	Ferozwala	0	0	0	0.0
31	Hafizabad	1	8	0	0.0
32	Narowal	6	7	0	0.0
33	Gujrat	20	50.25	0	0.0
34	Khushab	4	8	0	0.0
35	Bhakkar	0	0	0	0.0
36	Mianwali	6	6.5	0	0.0
37	Attock	5	3.5	0	0.0
G.TOT 2022		740	1846	139	18.8

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 4TH 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	Jhang	40	80	6	15.0
2	Lahore	31	80	5	16.1
3	M.B.Din	20	44	3	15.0
4	T.T.Sing	10	10.5	2	20.0
5	Chiniot	29	54	2	6.9
6	Chakwal	7	1.375	2	28.6
7	Multan	0	0	0	0.0
8	Khanewal	0	0	0	0.0
9	Vehari	0	0	0	0.0
10	Lodhran	0	0	0	0.0
11	Sahiwal	0	0	0	0.0
12	Pakpattan	0	0	0	0.0
13	Okara	0	0	0	0.0
14	Bahawalpur	0	0	0	0.0
15	Bahawalnagar	0	0	0	0.0
16	R.Y.Khan	0	0	0	0.0
17	D.G.Khan	0	0	0	0.0
18	M.Garh	0	0	0	0.0
19	Rajanpur	0	0	0	0.0
20	Layyah	0	0	0	0.0
21	Faisalabad	89	149.9	0	0.0
22	Kasur	45	73	0	0.0
23	Sheikhupura	66	139	0	0.0
24	Ferozwala	0	0	0	0.0
25	Nankana Sahib	25	38.5	0	0.0
26	Sargodha	118	161	0	0.0
27	Khushab	48	38.25	0	0.0
28	Minawali	0	0	0	0.0
29	Bhakkar	29	28.3	0	0.0
30	Gujranwala	32	63	0	0.0
31	Hafizabad	17	33.5	0	0.0
32	Sialkot	51	89	0	0.0
33	Narowal	76	70.75	0	0.0
34	Gujrat	34	60.25	0	0.0
35	Jehlum	4	28	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		771	1242	20	2.6

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON OTHER ALTERNATE HOST PLANT FOR 4TH 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	Multan	28	49	7	25.0
2	Khanewal	16	44	3	18.7
3	Lodhran	5	7	2	40.0
Grand Total		49	100	12	24.5

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg. Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	39.7	31.1
Pakpattan	39.5	31.0
Okara	13.0	5.0
Jhang	42.4	33.6
Toba Tek Singh	41.1	31.7
Chiniot	35.6	27.1
Multan	41.7	33.5
Khanewal	41.3	33.2
Vehari	41.0	33.1
Lodhran	40.1	31.8
AVG	37.5	29.1

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