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قلمت اعلیٰ
(پیٹ وارننگ اینڈ کوالٹی کنٹرول
آف پستی سائینسز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 2ND**
WEEK OF JULY, 2021.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 2nd week of July in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported from 04 districts of Punjab including Sheikhpura, Faisalabad, Gujranwala and M.B.Din districts which is expected to sustain in coming period.


Deputy Director of Agri. (QCP) Hqr

No. 8386-92 /DGA(PW&QCP) Dated: 16-07-21
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.

Sr. #	District	No. of Spots Acres	Area Surveyed Acres	Area Affected Acres	Army Worm	Fall Army worm	Spots of Insect Pests (Above ETL)				Spots of Insect Pests (Below ETL)				Disease Incidence			
							Hopper	Toka	Shoot Fly	Maize Stem Borer	Helicover pa	Hopper	Toka	Shoot Fly	Maize Stem Borer	Helicover pa	Stalk Rot	Leaf Blight
23	Jhang	10	37	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Sargodha	24	31	5.5	4.17	0.00	0.00	0.00	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	0.00	
	Khushab	3	4	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00	0.00	
25	Mianwali	14	21	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.43	0.00	0.00	0.00	0.00	0.00	
26	Jehlum	21	57	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.05	0.00	9.52	0.00	0.00	0.00	
27	Chakwal	41	31.125	6.85	0.00	0.00	0.00	0.00	0.00	0.00	21.95	4.88	14.63	0.00	0.00	0.00	0.00	
28	Rawalpindi	13	11.4	0.2	0.00	0.00	0.00	0.00	0.00	0.00	7.69	7.69	7.69	0.00	0.00	0.00	0.00	
35	Attock	12	21.75	15.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	33.33	0.00	0.00	0.00	0.00	
Grand Total		554	1298.8	204.7	1.62	1.08	0.00	0.00	0.00	0.00	0.00	5.96	7.58	7.40	0.54	0.00	0.00	0.00

PEST SITUATION ON MAIZE CROP IN PUNJAB DURING 2ND WEEK OF JULY, 2021

Pest Situation of Maize Pests						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Hopper	0.00	0.00	0.00	0.00	-
2	Shoot Fly	0.00	7.58	0.00	3.23	-
3	Maize Stem Borer	0.00	7.40	0.61	9.49	Decreasing
4	Armyworm	1.62	-	2.42	-	Decreasing
5	Fall Armyworm	1.08	-	1.62	-	Sustaining
6	Stalk Rot	0.00	-	0.00	-	-
7	Leaf Blight	0.00	-	0.00	-	-
8	Smut	0.00	-	0.00	-	-

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND WEEK OF JULY 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	Sheikhupura	12	88	2	16.7
2	Faisalabad	69	97.0	2	2.9
3	Gujranwala	6	24.25	1	16.7
4	M.B. Din	10	18	1	10.0
5	Multan	12	23	0	0.0
6	Khanewal	7	16	0	0.0
7	Vehari	13	51	0	0.0
8	Lodhran	10	50	0	0.0
9	Sahiwal	15	69	0	0.0
10	Pakpattan	24	97	0	0.0
11	Okara	10	48	0	0.0
12	D.G.Khan	95	100	0	0.0
13	M.Garh	8	10	0	0.0
14	Rajanpur	4	5	0	0.0
15	Layyah	20	32	0	0.0
16	Lahore	6	18	0	0.0
17	Nankana Sahib	6	41	0	0.0
18	Kasur	42	198	0	0.0
19	Sialkot	19	36	0	0.0

20	Narowal	5	10	0	0.0
21	Gujrat	7	10	0	0.0
22	Chiniot	11	37	0	0.0
23	TTSingh	5	6.25	0	0.0
24	Jhang	10	37	0	0.0
25	Sargodha	24	31	0	0.0
26	Khushab	3	4	0	0.0
27	Mianwali	14	21	0	0.0
28	Jehlum	21	57	0	0.0
29	Chakwal	41	31.125	0	0.0
30	Rawalpindi	13	11.4	0	0.0
31	Attock	12	21.75	0	0.0
G.TOT 2021		554	1299	6	1.1

FORECAST FOR THE NEXT WEEK:

The optimum temperature for Fall Armyworm is 25-35 °C and RH is 80% while the temperature forecast for the next 7 days particularly in Sahiwal Division is Maximum. Avg is 37.29 °C, Minimum Avg. is 28.71 °C and RH will be 44.28%. So it can be predicted that in the coming days the pest infestation may sustain under existing climatic conditions.

MANAGEMENT PRACTICES:

Following practices may be adopted for the management of FAW and to prevent its further spread:

1. Conduct Pest scouting twice in a week.
2. Install light traps in maize fields for correct identification of pest.
3. Mechanical control through hand picking of larvae and egg masses.
4. Placing of sand or ash in the whorls where pest attack is at lower ebb.
5. Ensure need-based sprays and spot treatments.
6. Spray at late afternoon or early morning.
7. Whorl application of granular insecticides.
8. Avoid repeated applications of pesticides having same mode of action.
9. Try Bio-Pesticides & Botanicals.
10. Conserve and attract natural enemies.
11. At present no pesticides is 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