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

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

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

At present the pest infestation is reported on Maize Crop from 29 districts whereas the infestation on Sorghum Crop is observed from 17 districts and the infestation on Millet Crop is observed from 5 districts in Punjab which is expected to increase in coming period.


/ DIRECTOR GENERAL

No. 10003-09 /DGA(PW&QCP) Dated: 24-08-2021
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 3RD WEEK OF AUGUST, 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	0.47	13.69	1.32	10.87	Decreasing
2	Fall Armyworm	38.26	-	28.19	-	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	0.95	19.22	0.62	15.85	Increasing
2	Fall Armyworm	7.07	-	5.76	-	Increasing

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	1.73	0.00	0.40	-
2	Fall Armyworm	4.33	-	2.41	-	Increasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD WEEK OF AUGUST 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	Faisalabad	63	124.2	26	41.3
2	Sahiwal	32	265	23	71.9
3	Multan	34	140	20	58.8
4	Vehari	30	172	19	63.3
5	Pakpattan	33	248	17	51.5
6	Khanewal	25	108	16	64.0
7	Lodhran	25	287	15	60.0
8	Okara	31	126	15	48.4
9	Sargodha	26	108	14	53.8

10	Rajanpur	47	74	10	21.3
11	Bhakkar	33	35.7	8	24.2
12	Kasur	39	139.0	7	17.9
13	Chiniot	14	61	7	50.0
14	Bahawalpur	18	31	5	27.8
15	R.Y.Khan	7	8	5	71.4
16	Layyah	12	29	5	41.7
17	Jhang	16	38	5	31.3
18	Bahawalnagar	14	33	4	28.6
19	M.Garh	22	83	4	18.2
20	Sheikhupura	8	19	4	50.0
21	Jhelum	8	47.5	4	50.0
22	Sialkot	15	32	3	20.0
23	Chakwal	17	14.75	3	17.6
24	Mianwali	13	18	2	15.4
25	D.G.Khan	6	44	1	16.7
26	M.B. Din	7	13	1	14.3
27	Gujrat	3	11.5	1	33.3
28	TTSingh	17	57	1	5.9
29	Khushab	1	1	1	100.0
30	Lahore	4	18	0	0.0
31	Nankana Sahib	2	7	0	0.0
32	Ferozwala	3	4.25	0	0.0
33	Gujranwala	1	3	0	0.0
34	Hafizabad	0	0	0	0.0
35	Narowal	4	5	0	0.0
36	Rawalpindi	7	12.1	0	0.0
37	Attock	6	6.3	0	0.0
G.TOT 2021		643	2423	246	38.3

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 3RD WEEK OF AUGUST 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	D.G.Khan	44	71	10	22.7
2	Pakpattan	22	29	8	36.4
3	Sargodha	59	81.25	7	11.9
4	Sahiwal	29	38	6	20.7
5	Okara	16	19	5	31.3
6	T.T.Sing	28	27.25	5	17.9
7	Chakwal	32	18.875	5	15.6

8	R.Y.Khan	41	41	4	9.8
9	Kasur	59	124	3	5.1
10	Multan	42	58	2	4.8
11	Bahawalpur	9	13	2	22.2
12	M.Garh	11	11	2	18.2
13	Gujrat	15	26.25	2	13.3
14	Vehari	30	31	1	3.3
15	Sheikhupura	16	36	1	6.3
16	Khushab	12	16	1	8.3
17	Rawalpindi	4	2.2	1	25.0
18	Khanewal	59	119	0	0.0
19	Lodhran	18	23	0	0.0
20	Bahawalnagar	19	22	0	0.0
21	Rajanpur	18	18	0	0.0
22	Layyah	11	11	0	0.0
23	Faisalabad	80	92.2	0	0.0
24	Jhang	34	65	0	0.0
25	Chiniot	12	24	0	0.0
26	Lahore	11	25	0	0.0
27	Ferozwala	5	6	0	0.0
28	Nankana Sahib	12	23	0	0.0
33	Minawali	21	25	0	0.0
34	Bhakkar	33	17.3	0	0.0
35	Gujranwala	26	45	0	0.0
36	Jehlum	22	44.5	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		947	1380	67	7.1

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 3RD WEEK OF AUGUST 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	20	56.5	3	15.0
2	Chakwal	19	6.125	3	15.8
3	M.Garh	12	14	2	16.7
4	Khushab	9	11	1	11.1
5	Narowal	15	34	1	6.7
6	Multan	0	0	0	0.0
7	Khanewal	0	0	0	0.0
8	Vehari	0	0	0	0.0
9	Lodhran	0	0	0	0.0
10	Sahiwal	15	18	0	0.0

11	Pakpattan	0	0	0	0.0
12	Okara	0	0	0	0.0
13	Bahawalpur	0	0	0	0.0
14	Bahawalnagar	21	29	0	0.0
15	R.Y.Khan	0	0	0	0.0
16	D.G.Khan	8	15	0	0.0
17	Rajanpur	0	0	0	0.0
18	Layyah	17	45	0	0.0
19	Faisalabad	0	0	0	0.0
20	T.T.Sing	0	0	0	0.0
21	Jhang	0	0	0	0.0
22	Chiniot	3	7	0	0.0
23	Lahore	0	0	0	0.0
24	Kasur	0	0	0	0.0
25	Sheikhupura	0	0	0	0.0
26	Ferozwala	0	0	0	0.0
27	Nankana Sahib	0	0	0	0.0
28	Minawali	21	23	0	0.0
29	Bhakkar	62	174.5	0	0.0
30	Gujranwala	0	0.0	0	0.0
31	Hafizabad	4	7.5	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	2	3	0	0.0
34	Gujrat	3	6	0	0.0
35	Jehlum	0	0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		231	449.6	10	4.3

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 31.28 °C, Minimum Avg. is 24.31 °C and RH will be 28.16%. So it can be predicted that in the coming days the pest infestation may increase 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