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نظامت اعلیٰ
(پست وارننگ اور کوالٹی کنٹرول
آف پیسٹس) سائینڈرز، پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH**
WEEK OF AUGUST, 2021.

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

At present the pest infestation is reported on Maize Crop from 34 districts whereas the infestation on Sorghum Crop is observed from 21 districts and the infestation on Millet Crop is observed from 2 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. **10447-53** /DGA(PW&QCP) Dated: **01-09-21**
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
4TH 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	1.75	13.30	0.47	13.69	Increasing
2	Fall Armyworm	41.54	-	38.26	-	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	1.88	15.71	0.95	19.22	Increasing
2	Fall Armyworm	7.32	-	7.07		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	0.36	0.00	1.73	-
2	Fall Armyworm	0.73		4.33	-	Decreasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH 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	Sahiwal	59	465	39	66.1
2	Faisalabad	64	160.6	29	45.3
3	Pakpattan	43	222	27	62.8
4	Khanewal	37	233	24	64.9
5	Vehari	30	168	24	80.0
6	Multan	39	204	23	59.0
7	Bahawalpur	49	403	23	46.9
8	Lodhran	33	157	19	57.6
9	Sargodha	39	159.5	19	48.7
10	Okara	27	163	14	51.9
11	Bhakkar	52	34.8	13	25.0

12	TTSingh	19	46	12	63.2
13	Bahawalnagar	23	78	11	47.8
14	Kasur	51	261	10	19.6
15	Chiniot	20	84	9	45.0
16	Jhang	14	52	7	50.0
17	Rajanpur	9	9	5	55.6
18	Ferozwala	6	14.25	5	83.3
19	D.G.Khan	63	91	4	6.3
20	Layyah	11	23	4	36.4
21	Sheikhupura	10	42	4	40.0
22	Sialkot	19	66	4	21.1
23	Jhelum	8	9.5	4	0.0
24	Chakwal	25	20	4	16.0
25	M.Garh	21	94.0	3	14.3
26	Lahore	11	42.5	3	27.3
27	Narowal	6	10	3	50.0
28	Hafizabad	3	8	2	66.7
29	M.B. Din	9	15	2	22.2
30	Mianwali	13	14	2	15.4
31	R.Y.Khan	9	31	1	11.1
32	Gujranwala	2	2.25	1	50.0
33	Gujrat	3	23	1	33.3
34	Rawalpindi	12	6	1	8.3
35	Nankana Sahib	4	5.5	0	0.0
36	Khushab	3	7	0	0.0
37	Attock	11	17.87	0	0.0
G.TOT 2021		857	3442	356	41.5

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 4TH 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	Jhang	44	75	12	27.3
2	Pakpattan	50	66	10	20.0
3	Okara	32	52	9	28.1
4	T.T.Sing	38	41.2	7	18.4
5	D.G.Khan	44	71	6	13.6
6	Kasur	62	134	6	9.7
7	Sahiwal	28	35	5	17.9
8	Sheikhupura	20	34	4	20.0
9	Chakwal	38	32	4	10.5
10	Gujrat	32	66.5	3	9.4

11	Multan	34	66	2	5.9
12	Bahawalpur	8	10	2	25.0
13	M.Garh	20	22	2	10.0
14	Lahore	14	80	2	14.3
15	Gujranwala	38	97	2	5.3
16	Vehari	30	55	1	3.3
17	Nankana Sahib	24	43	1	4.2
18	Sargodha	61	100	1	1.6
19	Khushab	7	7	1	14.3
20	Hafizabad	25	42.5	1	0.0
21	M.B.Din	13	24.0	1	0.0
22	Khanewal	43	61	0	0.0
23	Lodhran	23	26	0	0.0
24	Bahawalnagar	19	23	0	0.0
25	R.Y.Khan	50	51	0	0.0
26	Rajanpur	28	28	0	0.0
27	Layyah	10	18	0	0.0
28	Faisalabad	80	86.3	0	0.0
29	Chiniot	26	52	0	0.0
30	Ferozwalla	11	24	0	0.0
31	Minawali	14	14	0	0.0
32	Bhakkar	66	35.6	0	0.0
33	Sialkot	52	106	0	0.0
34	Narowal	14	26	0	0.0
35	Jehlum	18	21.5	0	0.0
36	Rawalpindi	4	3.2	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		1120	1729	82	7.3

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH 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	Chakwal	35	26.25	1	0.0
2	Rawalpindi	5	3	1	0.0
3	Multan	0	0	0	0.0
4	Khanewal	0	0	0	0.0
5	Vehari	0	0	0	0.0
6	Lodhran	0	0	0	0.0
7	Sahiwal	14	17	0	0.0
8	Pakpattan	0	0	0	0.0
9	Okara	0	0	0	0.0

10	Bahawalpur	0	0	0	0.0
11	Bahawalnagar	24	34	0	0.0
12	R.Y.Khan	0	0	0	0.0
13	D.G.Khan	8	15	0	0.0
14	M.Garh	5	7	0	0.0
15	Rajanpur	0	0	0	0.0
16	Layyah	15	33	0	0.0
17	Faisalabad	0	0	0	0.0
18	T.T.Sing	0	0	0	0.0
19	Jhang	0	0	0	0.0
20	Chiniot	4	10	0	0.0
21	Lahore	0	0	0	0.0
22	Kasur	0	0	0	0.0
23	Sheikhupura	0	0	0	0.0
24	Ferozwala	0	0	0	0.0
25	Nankana Sahib	0	0	0	0.0
26	Sargodha	17	42	0	0.0
27	Khushab	1	1	0	0.0
28	Minawali	14	14	0	0.0
29	Bhakkar	110	225.4	0	0.0
30	Gujranwala	0	0	0	0.0
31	Hafizabad	1	1	0	0.0
32	Sialkot	0	0.0	0	0.0
33	Narowal	5	16	0	0.0
34	M.B.Din	1	0.5	0	0.0
35	Gujrat	3	22	0	0.0
36	Jehlum	13	19.5	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		275	486.7	2	0.7

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 35.42 °C, Minimum Avg. is 28.35 °C and RH will be 32.21%. 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 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. 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