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نظامت اعلیٰ
(پست وارننگ اور کنٹرول
آف پستی سائینسز) پنجاب لاہور

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

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

At present the pest infestation is reported on Maize Crop from 30 districts whereas the infestation on Sorghum Crop is observed from 17 districts and the infestation on Millet Crop is observed from 3 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. **9797-9803** /DGA(PW&QCP) Dated: **17-08-2021**

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 2ND WEEK OF AUGUST, 2021

Pest Situation of Maize Pests						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	1.32	10.87	0.93	7.41	Increasing
2	Fall Armyworm	28.19	-	16.05	-	Increasing

Pest Situation of Sorghum Pests						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.62	15.85	0.84	11.47	Decreasing
2	Fall Armyworm	5.76	-	2.93	-	Increasing

Pest Situation of FAW on Millet Host Plants						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.40	0.84	11.47	Decreasing
2	Fall Armyworm	2.41	-	2.93	-	Decreasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND 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	Vehari	30	151	15	50.0
2	Nankana Sahib	2	7	1	50.0
3	Chiniot	18	85	9	50.0
4	Khanewal	22	70	10	45.5
5	Sargodha	25	57.75	11	44.0
6	Multan	28	172	12	42.9
7	Gujrat	5	8.5	2	40.0
8	Faisalabad	70	142	28	40.0
9	Lodhran	33	208	13	39.4

10	Pakpattan	36	318	14	38.9
11	Okara	25	127	9	36.0
12	Sahiwal	28	243	10	35.7
13	Ferozwala	3	9	1	33.3
14	Khushab	6	11	2	33.3
15	Jhelum	19	84.25	6	31.6
16	Sheikhupura	13	49	4	30.8
17	Layyah	11	32	3	27.3
18	TTSingh	15	22.5	4	26.7
19	Bhakkar	34	36.9	9	26.5
20	Gujranwala	4	14	1	25.0
21	Chakwal	8	3.75	2	25.0
22	Sialkot	9	29	2	22.2
23	Kasur	46	157	8	17.4
24	M.Garh	12	12	2	16.7
25	Mianwali	12	16	2	16.7
26	Bahawalnagar	31	115	5	16.1
27	M.B. Din	8	17	1	12.5
28	Jhang	17	72	2	11.8
29	D.G.Khan	43	65	3	7.0
30	Rawalpindi	19	23.5	1	5.3
31	Bahawalpur	7	48	0	0.0
32	R.Y.Khan	13	20	0	0.0
33	Rajanpur	5	5	0	0.0
34	Lahore	7	41	0	0.0
35	Hafizabad	1	2	0	0.0
36	Narowal	4	7	0	0.0
37	Attock	12	13.9	0	0.0
G.TOT 2021		681	2495	192	28.2

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 2ND 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	Rawalpindi	3	1.2	1	33.3
2	Gujrat	29	45	9	31.0
3	Chakwal	14	16.375	4	28.6
4	Bahawalpur	8	10	2	25.0
5	Pakpattan	27	39	6	22.2
6	Nankana Sahib	9	10.4	2	22.2
7	T.T.Sing	21	25.5	4	19.0

8	Okara	30	63	5	16.7
9	Sahiwal	34	43	4	11.8
10	M.B.Din	17	32.75	2	11.8
11	Jhang	44	82	5	11.4
12	Kasur	67	163	6	9.0
13	Multan	37	62	3	8.1
14	D.G.Khan	43	70	3	7.0
15	Gujranwala	35	100	2	5.7
16	Sheikhupura	21	39	1	4.8
17	M.Garh	27	38	1	3.7
18	Khanewal	99	185	0	0.0
19	Vehari	30	33	0	0.0
20	Lodhran	18	22	0	0.0
21	Bahawalnagar	32	38	0	0.0
22	R.Y.Khan	41	42	0	0.0
23	Rajanpur	31	31	0	0.0
24	Layyah	10	15	0	0.0
25	Faisalabad	81	101.5	0	0.0
26	Chiniot	18	38	0	0.0
27	Lahore	11	53	0	0.0
28	Ferozwala	8	11	0	0.0
29	Hafizabad	18	34	0	0.0
30	Sialkot	81	149	0	0.0
31	Narowal	27	41	0	0.0
32	Jehlum	24	26.5	0	0.0
33	Attock	2	0.9	0	0.0
G.TOT 2021		997	1661	60	6.0

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 2ND 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	Khushab	18	56	3	16.7
2	Chakwal	8	5.25	1	12.5
3	Sargodha	20	56.5	2	10.0
4	Sahiwal	16	19	0	0.0
5	Bahawalnagar	33	42	0	0.0
6	R.Y.Khan	2	2	0	0.0
7	D.G.Khan	5	12	0	0.0
8	M.Garh	21	26	0	0.0
9	Rajanpur	0	0	0	0.0

10	Layyah	19	41	0	0.0
11	Minawali	9	12	0	0.0
12	Bhakkar	77	50.0	0	0.0
13	Narowal	16	28	0	0.0
14	M.B.Din	3	4	0	0.0
15	Gujrat	2	4.25	0	0.0
G.TOT 2021		249	358	6	2.4

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 35.26 °C, Minimum Avg. is 27.41 °C and RH will be 31.18%. 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