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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1ST**
WEEK OF AUGUST, 2022.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1ST week of August in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 28 districts, infestation is reported on Sorghum Crop from 06 district and infestation is reported on Millet Crop from 03 district which is expected to increase in coming period.


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

No. **9869-75** /DGA (PW&QCP)

Dated: **11-08-22**

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.
- 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 1ST WEEK OF AUGUST, 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	0.00	8.64	0.00	9.73	0.93	7.41	-
2	Fall Armyworm	32.03	-	28.24	-	16.05	-	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	1.03	8.09	1.01	8.36	0.84	11.47	Increasing
2	Fall Armyworm	1.54	-	3.03	-	2.93	-	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	0.00	0.00	-
2	Fall Armyworm	2.22	-	3.70	-	0.00	-	Decreasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST WEEK OF AUGUST, 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	Khanewal	12	33	9	75.0
2	Sheikhupura	9	45	6	66.7
3	Sahiwal	23	143	14	60.9
4	Lodhran	7	53	4	57.1
5	TTSingh	11	32	6	54.5
6	Khushab	4	5.2	2	50.0
7	Nankana Sahib	2	16.5	1	50.0
8	Bahawalnagar	9	25	4	44.4
9	Faisalabad	67	197.3	29	43.3
10	Vehari	14	21	6	42.9
11	Okara	22	121	9	40.9
12	Layyah	10	13	4	40.0
13	Sargodha	10	17.5	4	40.0
14	Bhakkar	5	3	2	40.0
15	Chiniot	26	73	10	38.5
16	Pakpattan	50	219	19	38.0

17	Kasur	29	191	10	34.5
18	Lahore	15	78	5	33.3
19	Multan	14	76	4	28.6
20	Rawalpindi	39	42.9	11	28.2
21	Chakwal	26	15.375	7	26.9
22	D.G.Khan	30	41	8	26.7
23	Bahawalpur	9	83	2	22.2
24	M.B. Din	21	45	4	19.0
25	M.Garh	27	36	5	18.5
26	Jhang	17	42	2	11.8
27	Mianwali	11	21	1	9.1
28	Jhelum	18	30.25	1	5.6
29	R.Y.Khan	7	10	0	0.0
30	Rajanpur	16	16	0	0.0
31	Ferozwala	0	0	0	0.0
32	Gujranwala	1	1.5	0	0.0
33	Hafizabad	0	0	0	0.0
34	Sialkot	9	48	0	0.0
35	Narowal	3	9	0	0.0
36	Gujrat	0	0	0	0.0
37	Attock	17	20.2	0	0.0
G.TOT 2022		590	1823.725	189	32.0

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 1ST WEEK OF AUGUST, 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	M.B.Din	19	33	3	15.8
2	Sargodha	46	107	3	6.5
3	T.T.Sing	18	21	1	5.6
4	Faisalabad	74	112.6	3	4.1
5	Chakwal	33	16.25	1	3.0
6	Sheikhupura	65	123	1	1.5
7	Multan	36	55	0	0.0
8	Khanewal	80	137	0	0.0
9	Vehari	15	21	0	0.0
10	Lodhran	18	20	0	0.0
11	Sahiwal	26	36	0	0.0
12	Pakpattan	15	18	0	0.0
13	Okara	11	20	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	Jhang	0	0	0	0.0
22	Chiniot	58	127	0	0.0
23	Lahore	19	69	0	0.0
24	Kasur	32	88	0	0.0
25	Ferozwala	0	0	0	0.0

26	Nankana Sahib	21	37.5	0	0.0
27	Khushab	32	183.25	0	0.0
28	Minawali	11	17	0	0.0
29	Bhakkar	19	8.6	0	0.0
30	Gujranwala	28	44	0	0.0
31	Hafizabad	16	27.5	0	0.0
32	Sialkot	61	127	0	0.0
33	Narowal	0	0	0	0.0
34	Gujrat	13	24.5	0	0.0
35	Jehlum	3	3.25	0	0.0
36	Rawalpindi	3	0.4	0	0.0
37	Attock	7	3.63	0	0.0
G.TOT 2022		779	1480.48	12	1.5

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 1ST WEEK OF AUGUST, 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	T.T.Sing	3	4	2	66.7
2	Chakwal	33	16.25	1	3.0
3	Bhakkar	44	54.1	1	2.3
4	Multan	0	0	0	0.0
5	Khanewal	0	0	0	0.0
6	Vehari	0	0	0	0.0
7	Lodhran	0	0	0	0.0
8	Sahiwal	0	0	0	0.0
9	Pakpattan	0	0	0	0.0
10	Okara	0	0	0	0.0
11	Bahawalpur	0	0	0	0.0
12	Bahawalnagar	0	0	0	0.0
13	R.Y.Khan	0	0	0	0.0
14	D.G.Khan	0	0	0	0.0
15	M.Garh	0	0	0	0.0
16	Rajanpur	0	0	0	0.0
17	Layyah	0	0	0	0.0
18	Faisalabad	1	4	0	0.0
19	Jhang	0	0	0	0.0
20	Chiniot	6	11	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	6	10	0	0.0
27	Khushab	41	80.75	0	0.0
28	Minawali	14	25	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	3	5	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	0	0	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	3	4	0	0.0

35	Jehlum	26	99.25	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		180	313.35	4	2.2

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	35.6	27.6
Pakpattan	35.4	27.3
Okara	35.2	27.1
Jhang	35.0	29.1
Toba Tek Singh	36.4	28.3
Chiniot	32.1	24.7
Multan	36.1	29.3
Khanewal	36.0	28.6
Vehari	36.2	27.2
Lodhran	35.8	27.7
AVG	35.4	27.7

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