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نظامت اعلیٰ
(پست وارننگ اینڈ کوآرڈینیشن کنٹرول
آف پستی مائیگز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 2ND**
WEEK OF AUGUST, 2022.

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 31 districts, infestation is reported on Sorghum Crop from 19 district and infestation is reported on Millet Crop from 05 district which is expected to increase in coming period.

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

No. *10148-59* /DGA (PW&QCP)

Dated: *16-08-2022*

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 2ND 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	0.32	8.93	0.00	8.64	1.32	10.87	Increasing
2	Fall Armyworm	35.88	-	32.03	-	28.19	-	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	2.68	15.77	1.03	8.09	0.62	15.85	Increasing
2	Fall Armyworm	11.38	-	1.54	-	5.76	-	Increasing

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	0.40	-
2	Fall Armyworm	3.87	-	2.22	-	2.41	-	Increasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND 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	Nankana Sahib	2	14	2	100.0
2	Gujranwala	1	10	1	100.0
3	Narowal	2	18	2	100.0
4	Khanewal	15	59	14	93.3
5	Sheikhupura	10	41	7	70.0
6	Sargodha	28	55	18	64.3
7	TTSingh	19	43	12	63.2
8	Bahawalpur	16	91	9	56.3
9	Bahawalnagar	10	15	5	50.0
10	Sialkot	8	75	4	50.0
11	Gujrat	2	3.5	1	50.0
12	Chiniot	32	112	15	46.9
13	Okara	28	193	12	42.9
14	Multan	19	137	8	42.1
15	Sahiwal	27	91	11	40.7
16	Lahore	10	74	4	40.0
17	Chakwal	10	3	4	40.0

18	Layyah	8	20	3	37.5
19	Faisalabad	72	182.55	26	36.1
20	Vehari	17	107	6	35.3
21	Kasur	39	227	13	33.3
22	Pakpattan	47	244	15	31.9
23	Jhang	36	108	11	30.6
24	Rawalpindi	15	13.7	4	26.7
25	Bhakkar	12	8	3	25.0
26	Lodhran	10	91	2	20.0
27	D.G.Khan	17	21	3	17.6
28	Mianwali	13	30	2	15.4
29	Jhelum	10	41.75	1	10.0
30	M.B. Din	22	43	2	9.1
31	M.Garh	26	35	1	3.8
32	R.Y.Khan	9	10	0	0.0
33	Rajanpur	14	15	0	0.0
34	Ferozwala	0	0	0	0.0
35	Hafizabad	2	9	0	0.0
36	Khushab	1	4	0	0.0
37	Attock	7	6.9	0	0.0
G.TOT 2022		616	2251.4	221	35.9

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 2ND 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	Chakwal	8	1.75	4	50.0
2	Pakpattan	40	48	15	37.5
3	Multan	43	60	15	34.9
4	Okara	24	67	8	33.3
5	Sahiwal	32	48	8	25.0
6	D.G.Khan	56	75	12	21.4
7	T.T.Sing	25	26.5	5	20.0
8	Sargodha	59	102.5	11	18.6
9	Khanewal	89	141	15	16.9
10	Jhang	19	46	3	15.8
11	Khushab	13	14.5	2	15.4
12	Minawali	13	20	2	15.4
13	Chiniot	55	125	8	14.5
14	M.B.Din	19	53	2	10.5
15	Nankana Sahib	33	81	3	9.1
16	Bahawalnagar	26	33	2	7.7
17	Kasur	40	117	2	5.0
18	M.Garh	30	34	1	3.3
19	Lahore	31	87	1	3.2
20	Vehari	17	23	0	0.0
21	Lodhran	9	9	0	0.0
22	Bahawalpur	23	31	0	0.0
23	R.Y.Khan	18	23	0	0.0
24	Rajanpur	40	47	0	0.0
25	Layyah	24	83	0	0.0

26	Faisalabad	69	103	0	0.0
27	Sheikhupura	58	88	0	0.0
28	Ferozwala	0	0	0	0.0
29	Bhakkar	13	6	0	0.0
30	Gujranwala	39	72.5	0	0.0
31	Hafizabad	16	24.5	0	0.0
32	Sialkot	30	72	0	0.0
33	Narowal	0	0	0	0.0
34	Gujrat	14	38	0	0.0
35	Jhelum	19	42.25	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	2	1.5	0	0.0
G.TOT 2022		1046	1844	119	11.4

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 2ND 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	1	1	1	100.0
2	Faisalabad	2	7	1	50.0
3	Chakwal	5	0.625	2	40.0
4	Minawali	12	19	1	8.3
5	Sargodha	28	46.2	1	3.6
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	0	0	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	0	0	0	0.0
15	R.Y.Khan	0	0	0	0.0
16	D.G.Khan	0	0	0	0.0
17	M.Garh	0	0	0	0.0
18	Rajanpur	0	0	0	0.0
19	Layyah	0	0	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	5	10	0	0.0
22	Lahore	0	0	0	0.0
23	Kasur	0	0	0	0.0
24	Sheikhupura	0	0	0	0.0
25	Ferozwala	0	0	0	0.0
26	Nankana Sahib	0	0	0	0.0
27	Khushab	30	113	0	0.0
28	Bhakkar	44	79.57	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	7	21	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	1	7	0	0.0
35	Jehlum	20	52.25	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		155	356.645	6	3.9

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	33.4	27.1
Pakpattan	33.2	26.9
Okara	16.6	10.7
Jhang	32.0	26.7
Toba Tek Singh	33.7	27.1
Chiniot	29.8	24.6
Multan	32.0	27.0
Khanewal	32.6	27.4
Vehari	32.4	27.2
Lodhran	33.6	26.8
AVG	30.9	25.1

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