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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 3RD**
WEEK OF AUGUST, 2022.

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 28 districts, infestation is reported on Sorghum Crop from 26 district and infestation is reported on Millet Crop from 01 district whereas FAW infestation is also reported on some other alternate host plants (Lucerne, Jantar and Spanish) which is expected to increase in coming period.

Lah. idagevi

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

No. *10370-76* /DGA (PW&QCP)
Copy forwarded for information to;

Dated: *23-08-22*

- 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 3RD 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	0.16	11.76	0.32	8.93	0.47	13.69	Decreasing
2	Fall Armyworm	44.12	-	35.88	-	38.26	-	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	1.88	15.63	2.68	15.77	0.95	19.22	Decreasing
2	Fall Armyworm	12.68	-	11.38	-	7.07	-	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	0.56	0.00	0.00	0.00	1.73	-
2	Fall Armyworm	7.91	-	3.87	-	4.33	-	Increasing

Pest Situation of FAW on Other Alternate Host Plants						
%age of spots on FAW						
Sr. No.	Name of Crop	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Lucerne, Jantar	1.13	-	0.00	-	Reported
2	Spanish	33.33	-	0.00	-	Reported

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3 RD 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	19	72	19	100.0
2	Lodhran	12	70	12	100.0
3	Sheikhupura	8	18	7	87.5
4	Bahawalpur	20	105	17	85.0
5	Rawalpindi	36	28	23	63.9
6	Sahiwal	24	149	14	58.3

7	Sargodha	32	136	18	56.3
8	Rajanpur	9	19	5	55.6
9	Multan	20	132	10	50.0
10	Bahawalnagar	10	17	5	50.0
11	R.Y.Khan	8	9	4	50.0
12	TTSingh	8	17	4	50.0
13	Bhakkar	6	4	3	50.0
14	Faisalabad	81	175	38	46.9
15	Chiniot	26	67	12	46.2
16	Okara	24	143	11	45.8
17	Jhang	14	39	6	42.9
18	Nankana Sahib	13	29	5	38.5
19	Vehari	14	87	5	35.7
20	Pakpattan	47	265	16	34.0
21	Narowal	3	5	1	33.3
22	Kasur	37	238	11	29.7
23	Lahore	14	86	4	28.6
24	Sialkot	7	34	2	28.6
25	D.G.Khan	27	36	7	25.9
26	M.B. Din	21	45	5	23.8
27	Mianwali	13	42	3	23.1
28	M.Garh	14	21	3	21.4
29	Layyah	11	12	0	0.0
30	Ferozwala	0	0	0	0.0
31	Gujranwala	0	0	0	0.0
32	Hafizabad	0	0	0	0.0
33	Gujrat	0	0	0	0.0
34	Khushab	1	4	0	0.0
35	Jhelum	1	2	0	0.0
36	Chakwal	25	21	0	0.0
37	Attock	7	6	0	0.0
G.TOT 2022		612	2133	270	44.1

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 3RD 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	Bahawalpur	23	31	12	52.2
2	Rawalpindi	4	11	2	50.0
3	Multan	34	45	16	47.1
4	Chakwal	25	8	10	40.0
5	D.G.Khan	74	104	23	31.1
6	Pakpattan	36	43	9	25.0
7	Khushab	9	15	2	22.2
8	Okara	23	35	5	21.7
9	Sahiwal	29	38	6	20.7
10	Kasur	11	111	2	18.2
11	Khanewal	102	166	17	16.7
12	Bahawalnagar	26	32	4	15.4
13	Lodhran	7	8	1	14.3
14	T.T.Sing	7	6	1	14.3

15	M.B.Din	15	28	2	13.3
16	Chiniot	77	155	10	13.0
17	Minawali	17	27	2	11.8
18	Jhang	9	28	1	11.1
19	Nankana Sahib	40	70	4	10.0
20	Vehari	17	17	1	5.9
21	Sargodha	68	130	4	5.9
22	Lahore	18	54	1	5.6
23	Faisalabad	81	118	4	4.9
24	Layyah	28	84	1	3.6
25	Sheikhupura	69	121	1	1.4
26	Sialkot	81	122	1	1.2
27	R.Y.Khan	10	12	0	0.0
28	M.Garh	25	27	0	0.0
29	Rajanpur	32	36	0	0.0
30	Ferozwala	0	0	0	0.0
31	Bhakkar	11	5	0	0.0
32	Gujranwala	27	48	0	0.0
33	Hafizabad	28	46	0	0.0
34	Narowal	41	33	0	0.0
35	Gujrat	11	22	0	0.0
36	Jhelum	3	10	0	0.0
37	Attock	2	2	0	0.0
G.TOT 2022		1120	1848	142	12.7

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR WEEK OF 3RD 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	29	14	10	34.5
2	Multan	0	0	0	0.0
3	Khanewal	0	0	0	0.0
4	Vehari	0	0	0	0.0
5	Lodhran	0	0	0	0.0
6	Sahiwal	0	0	0	0.0
7	Pakpattan	0	0	0	0.0
8	Okara	0	0	0	0.0
9	Bahawalpur	0	0	0	0.0
10	Bahawalnagar	0	0	0	0.0
11	R.Y.Khan	0	0	0	0.0
12	D.G.Khan	0	0	0	0.0
13	M.Garh	0	0	0	0.0
14	Rajanpur	0	0	0	0.0
15	Layyah	15	23	2	0.0
16	Faisalabad	0	0	0	0.0
17	T.T.Sing	0	0	0	0.0
18	Jhang	0	0	0	0.0
19	Chiniot	5	8	0	0.0
20	Lahore	0	0	0	0.0
21	Kasur	0	0	0	0.0
22	Sheikhupura	0	0	0	0.0

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23	Ferozwala	0	0	0	0.0
24	Nankana Sahib	0	0	0	0.0
25	Sargodha	14	21	1	0.0
26	Khushab	31	121	0	0.0
27	Minawali	22	43	0	0.0
28	Bhakkar	15	20	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	8	11	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	11	30	1	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	4	7	0	0.0
35	Jhelum	22	69	0	0.0
36	Rawalpindi	1	0.1	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		177	367	14	7.9

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	34.7	26.8
Pakpattan	34.5	26.6
Okara	34.2	26.2
Jhang	32.1	26.0
Toba Tek Singh	34.4	27.1
Chiniot	30.7	24.1
Multan	33.7	27.0
Khanewal	34.4	27.6
Vehari	34.0	26.8
Lodhran	24.7	26.5
AVG	32.7	26.5

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