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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH WEEK OF AUGUST, 2022.**

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 29 districts, infestation is reported on Sorghum Crop from 17 district and infestation is reported on Millet Crop from 06 district whereas FAW infestation is also reported on some other alternate host plants (Lucerne and Jantar) which is expected to increase in coming period.


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

No. **10641-47** /DGA (PW&QCP)
Copy forwarded for information to;

Dated: **01-09-2022**

- 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 4TH 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	0.59	9.08	0.16	11.76	1.75	13.30	Increasing
2	Fall Armyworm	47.88	-	44.12	-	41.54	-	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	2.04	17.88	1.88	15.63	1.88	15.71	Increasing
2	Fall Armyworm	9.29	-	12.68	-	7.32	-	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	0.33	0.00	0.56	0.00	0.36	-
2	Fall Armyworm	6.67	-	7.91	-	0.73	-	Decreasing

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	4.71	-	1.13	-	Increasing		

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4 TH 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	15	55	15	100.0
2	Lodhran	40	400	40	100.0
3	Narowal	2	4	2	100.0
4	Bhakkar	2	0.32	2	100.0
5	Bahawalpur	26	157	22	84.6
6	Sheikhupura	9	32	6	66.7
7	Sargodha	30	65.5	19	63.3
8	Layyah	8	15	5	62.5

9	Rawalpindi	48	54.7	30	62.5
10	TTSingh	23	107.5	13	56.5
11	Multan	32	157	18	56.3
12	Sahiwal	25	154	14	56.0
13	Nankana Sahib	2	8	1	50.0
14	Okara	27	130	13	48.1
15	Chiniot	30	85	14	46.7
16	Vehari	14	72	6	42.9
17	Faisalabad	73	174.6	29	39.7
18	R.Y.Khan	8	17	3	37.5
19	Lahore	11	53	4	36.4
20	Chakwal	22	12.5	8	36.4
21	Bahawalnagar	17	46	6	35.3
22	Pakpattan	52	262	18	34.6
23	Jhang	26	85	9	34.6
24	D.G.Khan	36	47	11	30.6
25	Mianwali	11	20	3	27.3
26	Kasur	38	252	9	23.7
27	M.B. Din	20	40	4	20.0
28	M.Garh	15	22	2	13.3
29	Jehlum	8	14.5	1	12.5
30	Rajanpur	0	0	0	0.0
31	Gujranwala	0	0	0	0.0
32	Hafizabad	3	7.5	0	0.0
33	Sialkot	7	32	0	0.0
34	Gujrat	0	0	0	0.0
35	Khushab	2	5	0	0.0
36	Attock	1	0.6	0	0.0
G.TOT 2022		683	2587.72	327	47.9

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 4TH 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	Rawalpindi	3	15.6	3	100.0
2	Bahawalpur	8	12	5	62.5
3	Multan	34	58	16	47.1
4	Chakwal	18	13.175	5	27.8
5	Okara	27	40	7	25.9
6	Pakpattan	25	30	6	24.0
7	Sahiwal	35	46	7	20.0
8	Bahawalnagar	25	30	5	20.0
9	Jhang	5	20	1	20.0
10	Khanewal	110	199	19	17.3
11	M.B.Din	19	39	3	15.8
12	M.Garh	22	25	3	13.6
13	Faisalabad	72	113.3	8	11.1
14	Minawali	18	27	2	11.1
15	Sargodha	80	161.25	6	7.5
16	Nankana Sahib	40	59.5	2	5.0
17	Chiniot	79	159	2	2.5
18	Vehari	17	17	0	0.0

19	Lodhran	8	9	0	0.0
20	R.Y.Khan	14	15	0	0.0
21	D.G.Khan	50	56	0	0.0
22	Rajanpur	32	37	0	0.0
23	Layyah	6	10	0	0.0
24	T.T.Sing	15	12.5	0	0.0
25	Lahore	21	60	0	0.0
26	Kasur	50	170	0	0.0
27	Sheikhupura	52	87	0	0.0
28	Khushab	12	18.5	0	0.0
29	Bhakkar	3	0.9	0	0.0
30	Gujranwala	34	60	0	0.0
31	Hafizabad	17	37	0	0.0
32	Sialkot	69	186.4	0	0.0
33	Narowal	26	28	0	0.0
34	Gujrat	19	26	0	0.0
35	Jehlum	10	18	0	0.0
36	Attock	1	1	0	0.0
G.TOT 2022		1076	1897.125	100	9.3

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH 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	Faisalabad	5	7	2	40.0
2	Layyah	31	85	6	19.4
3	Chakwal	12	3.125	2	16.7
4	Sargodha	27	46	3	11.1
5	Bahawalnagar	20	24	2	10.0
6	Khushab	103	365.5	5	4.9
7	Multan	0	0	0	0.0
8	Khanewal	0	0	0	0.0
9	Vehari	0	0	0	0.0
10	Lodhran	0	0	0	0.0
11	Sahiwal	0	0	0	0.0
12	Pakpattan	0	0	0	0.0
13	Okara	0	0	0	0.0
14	Bahawalpur	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	9	17	0	0.0
18	Rajanpur	0	0	0	0.0
19	T.T.Sing	1	2	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	5	11	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	Nankana Sahib	0	0	0	0.0
26	Minawali	25	39	0	0.0
27	Bhakkar	17	26	0	0.0
28	Gujranwala	0	0	0	0.0

29	Hafizabad	15	20.5	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	10	16.5	0	0.0
32	M.B.Din	1	2	0	0.0
33	Gujrat	2	1.5	0	0.0
34	Jehlum	16	40	0	0.0
35	Rawalpindi	1	1.2	0	0.0
36	Attock	0	0	0	0.0
G.TOT 2022		300	707.325	20	6.7

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	36.6	26.7
Pakpattan	38.4	26.5
Okara	38.1	26.1
Jhang	37.3	27.6
Toba Tek Singh	38.5	27.3
Chiniot	38.2	27
Multan	38	28.3
Khanewal	35.6	26.4
Vehari	38.1	27.3
Lodhran	38.3	26.5
AVG	37.7	26.9

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