



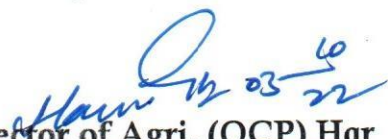
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نظامت اعلیٰ
(پیسٹ وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹی سائیزرز) پنجاب لاہور

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

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 4TH Week of September in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 34 districts, infestation is reported on Sorghum Crop from 21 district and infestation is reported on Millet Crop from 04 district whereas FAW infestation is also reported on some other alternate host plants (Lucerne and Jantar).


Deputy Director of Agri. (QCP) Hqr
For DIRECTOR GENERAL

No. 4503-09 /DGA (PW&QCP)
Copy forwarded for information to;

Dated: 03-10-2022

- 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 SEPTEMBER, 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	0.13	11.81	0.28	12.03	0.27	7.48	Decreasing
2	Fall Armyworm	46.71	-	49.37	-	29.57	-	Decreasing

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	1.12	10.98	2.03	16.13	0.73	13.18	Decreasing
2	Fall Armyworm	12.09	-	13.68	-	9.94	-	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	0.49	0.00	0.85	-
2	Fall Armyworm	7.93	-	11.17	-	3.83	-	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	2.56	-	5.97	-	Decreasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH WEEK OF SEPTEMBER, 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	22	42	22	100.0
2	Lodhran	35	386	35	100.0
3	Narowal	3	22	3	100.0
4	Bhakkar	4	6	4	100.0
5	Khushab	7	7.75	6	85.7
6	Sheikhupura	13	47	11	84.6
7	R.Y.Khan	8	15	6	75.0
8	Sargodha	12	22	9	75.0

9	Bahawalpur	37	256	26	70.3
10	Rawalpindi	29	16.2	20	69.0
11	Chakwal	6	5.125	4	66.7
12	Layyah	11	26	7	63.6
13	Vehari	16	56	9	56.3
14	Multan	24	129	13	54.2
15	Hafizabad	2	8	1	50.0
16	Jhang	24	72	12	50.0
17	Sialkot	13	46	6	46.2
18	Lahore	25	210	11	44.0
19	Sahiwal	47	200	19	40.4
20	TTSingh	25	57.5	10	40.0
21	Chiniot	33	128	13	39.4
22	Pakpattan	47	177	18	38.3
23	Okara	40	128	14	35.0
24	M.B. Din	9	17	3	33.3
25	Mianwali	12	21	4	33.3
26	M.Garh	40	56	13	32.5
27	Bahawalnagar	22	65	7	31.8
28	Kasur	30	119	9	30.0
29	Faisalabad	84	247.9	23	27.4
30	Gujrat	8	12.5	2	25.0
31	Attock	4	3	1	25.0
32	D.G.Khan	24	28	4	16.7
33	Gujranwala	6	8	1	16.7
34	Rajanpur	16	16	2	12.5
35	Nankana Sahib	1	1	0	0.0
36	Ferozwala	0	0	0	0.0
37	Jehlum	6	12.5	0	0.0
G.TOT 2022		745	2669.48	348	46.7

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 4TH WEEK OF SEPTEMBER, 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	4	6	3	75.0
2	R.Y.Khan	23	23	12	52.2
3	Lodhran	12	12	6	50.0
4	Multan	25	36	12	48.0
5	Pakpattan	25	27	8	32.0
6	Chakwal	10	3.375	3	30.0
7	Okara	31	45	7	22.6
8	Khanewal	78	137	17	21.8
9	Sahiwal	59	86	11	18.6
10	M.Garh	43	45	8	18.6
11	Bahawalnagar	19	23	3	15.8
12	M.B.Din	7	13	1	14.3
13	Sargodha	30	44	4	13.3
14	T.T.Sing	25	29.75	3	12.0
15	Chiniot	97	186	10	10.3
16	Nankana Sahib	20	35	2	10.0

17	Jhang	35	78	3	8.6
18	Minawali	29	40	2	6.9
19	Khushab	15	82.5	1	6.7
20	Gujranwala	20	27.75	1	5.0
21	Faisalabad	68	103.9	2	2.9
22	Vehari	14	14	0	0.0
23	D.G.Khan	31	43	0	0.0
24	Rajanpur	5	7	0	0.0
25	Layyah	32	36	0	0.0
26	Lahore	23	163	0	0.0
27	Kasur	32	84	0	0.0
28	Sheikhupura	48	76	0	0.0
29	Ferozwala	0	0	0	0.0
30	Bhakkar	0	0	0	0.0
31	Hafizabad	6	10	0	0.0
32	Sialkot	80	195.5	0	0.0
33	Narowal	25	18	0	0.0
34	Gujrat	9	18	0	0.0
35	Jhelum	0	0	0	0.0
36	Rawalpindi	3	1.5	0	0.0
37	Attock	1	1	0	0.0
G.TOT 2022		984	1750.28	119	12.1

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 4TH WEEK OF SEPTEMBER, 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	Layyah	67	180	13	19.4
2	Sargodha	11	12.5	2	18.2
3	Minawali	50	95	5	10.0
4	Khushab	81	257.25	8	9.9
5	Multan	0	0	0	0.0
6	Khanewal	0	0	0	0.0
7	Vehari	0	0	0	0.0
8	Lodhran	0	0	0	0.0
9	Sahiwal	0	0	0	0.0
10	Pakpattan	0	0	0	0.0
11	Okara	0	0	0	0.0
12	Bahawalpur	0	0	0	0.0
13	Bahawalnagar	24	34	0	0.0
14	R.Y.Khan	0	0	0	0.0
15	D.G.Khan	0	0	0	0.0
16	M.Garh	0	0	0	0.0
17	Rajanpur	0	0	0	0.0
18	Faisalabad	1	8	0	0.0
19	T.T.Sing	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	Bhakkar	61	64.6	0	0.0
28	Gujranwala	9	8	0	0.0
29	Hafizabad	3	5.5	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	9	30	0	0.0
32	M.B.Din	0	0	0	0.0
33	Gujrat	5	16.5	0	0.0
34	Jehlum	15	25	0	0.0
35	Chakwal	10	2	0	0.0
36	Rawalpindi	2	0.8	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		353	749.15	28	7.9

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	37.0	21.7
Pakpattan	36.8	21.5
Okara	36.5	21.0
Jhang	37.1	22.5
Toba Tek Singh	36.8	21.4
Chiniot	35.8	21.2
Multan	35.4	20.6
Khanewal	34.0	23.6
Vehari	37.2	20.7
Lodhran	37.4	21.1
AVG	36.4	21.5

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