



DIRECTORATE GENERAL
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نظامت اعلیٰ
(پست وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹی سائیز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 2ND**
WEEK OF SEPTEMBER, 2021.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 2ND week of September in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 32 districts whereas the infestation on Sorghum Crop is observed from 19 districts and the infestation on Millet Crop is observed from 5 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. **11023-29** /DGA(PW&QCP) Dated: **16-09-21**

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.
- Director General 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 SEPTEMBER, 2021

Pest Situation of Maize Pests						
		%age of spots				
Sr. No.	Pest Name	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	10.65	0.58	11.23	Decreasing
2	Fall Armyworm	42.60	-	42.71	-	Sustaining

Pest Situation of Sorghum Pests						
		%age of spots				
Sr. No.	Pest Name	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.36	13.39	0.34	15.53	Sustaining
2	Fall Armyworm	6.96	-	7.53	-	Decreasing

Pest Situation of FAW on Millet Crop						
		%age of spots				
Sr. No.	Pest Name	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.00	0.00	0.00	-
2	Fall Armyworm	4.22	-	1.66	-	Increasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND WEEK OF SEPTEMBER 2021						
Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm	
1	Sahiwal	53	399	36	67.9	
2	Faisalabad	76	167	36	47.4	
3	Pakpattan	53	371	33	62.3	
4	Bahawalpur	48	405	29	60.4	
5	Multan	36	193	22	61.1	
6	M.Garh	37	213	18	48.6	
7	Khanewal	23	88	17	73.9	
8	Lodhran	35	366	15	42.9	
9	Okara	24	152	15	62.5	
10	Kasur	48	223	15	31.3	
11	Vehari	16	82	11	68.8	

12	D.G.Khan	53	88	10	18.9
13	TTSingh	21	73	9	42.9
14	Sargodha	25	93	9	36.0
15	Bahawalnagar	31	108	8	25.8
16	Jhang	24	83	8	33.3
17	Rawalpindi	21	11.45	8	0.0
18	Layyah	14	30	7	50.0
19	Chiniot	16	54	7	43.8
20	Sheikhupura	14	56	6	42.9
21	Bhakkar	35	30.4	6	17.1
22	Chakwal	23	40.88	6	0.0
23	Mianwali	18	45	5	27.8
24	Ferozwala	7	15.25	3	42.9
25	Sialkot	8	36	3	37.5
26	Khushab	9	11	3	33.3
27	Jhelum	14	20	3	21.4
28	Rajanpur	6	7	2	33.3
29	Gujranwala	6	8.75	2	33.3
30	Narowal	3	7	2	66.7
31	M.B. Din	10	18	2	20.0
32	Gujrat	10	19	2	20.0
33	R.Y.Khan	9	16	1	11.1
34	Nankana Sahib	2	7.5	1	50.0
35	Lahore	10	45	0	0.0
36	Hafizabad	0	0	0	0.0
37	Attock	7	7.8	0	0.0
G.TOT 2021		845	3590	360	42.6

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 2ND WEEK OF SEPTEMBER 2021					
Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	D.G.Khan	41	55	11	26.8
2	Sargodha	73	132	7	9.6
3	Pakpattan	45	60	6	13.3
4	Chakwal	14	7.875	6	42.9
5	Sahiwal	31	44	5	16.1
6	Narowal	23	31	5	21.7
7	Okara	20	47	4	20.0
8	R.Y.Khan	16	16	4	25.0
9	Kasur	62	125	4	0.0
10	Multan	29	46	3	10.3

DIRECTORATE GENERAL OF PEST WARNING AND QUALITY CONTROL OF PESTICIDES
PUNJAB, LAHORE

11	Bahawalpur	10	13	3	30.0
12	Jhang	37	59	3	8.1
13	Nankana Sahib	33	72.5	3	9.1
14	Gujrat	26	64	3	11.5
15	M.Garh	39	40	2	5.1
16	Sheikhupura	16	31	2	0.0
17	Minawali	232	232	2	0.9
18	Vehari	15	18.0	1	6.7
19	T.T.Sing	22	30	1	4.5
20	Lahore	20	49	1	0.0
21	Khushab	4	4	1	25.0
22	M.B.Din	10	15	1	10.0
23	Khanewal	16	21	0	0.0
24	Lodhran	24	30	0	0.0
25	Bahawalnagar	32	41	0	0.0
26	Rajanpur	10	11	0	0.0
27	Layyah	6	7	0	0.0
28	Faisalabad	73	57.7	0	0.0
29	Chiniot	12	28	0	0.0
30	Ferozwala	15	29.25	0	0.0
31	Bhakkar	24	9.2	0	0.0
32	Gujranwala	35	64.5	0	0.0
33	Hafizabad	4	7.5	0	0.0
34	Sialkot	27	62	0	0.0
35	Jehlum	17	43.25	0	0.0
36	Rawalpindi	6	1.1	0	0.0
37	Attock	1	0.5	0	0.0
G.TOT 2021		1120	1604	78	7.0

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 2ND WEEK OF SEPTEMBER 2021**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Sargodha	20	39.5	4	20.0
2	Layyah	13	23	3	23.1
3	Chakwal	19	31.625	3	15.8
4	Khushab	20	22	2	10.0
5	Narowal	9	15	1	11.1
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	19	24	0	0.0
11	Pakpattan	0	0	0	0.0
12	Okara	0	0	0	0.0
13	Bahawalpur	3	21.5	0	0.0
14	Bahawalnagar	33	43	0	0.0
15	R.Y.Khan	0	0	0	0.0
16	D.G.Khan	2	2	0	0.0
17	M.Garh	5	5	0	0.0
18	Rajanpur	0	0	0	0.0
19	Faisalabad	8	11	0	0.0
20	T.T.Sing	0	0	0	0.0
21	Jhang	0	0	0	0.0
22	Chiniot	1	2	0	0.0
23	Lahore	0	0	0	0.0
24	Kasur	22	39	0	0.0
25	Sheikhupura	1	1	0	0.0
26	Ferozwala	0	0	0	0.0
27	Nankana Sahib	0	0	0	0.0
28	Minawali	23	23	0	0.0
29	Bhakkar	57	148.2	0	0.0
30	Gujranwala	0	0	0	0.0
31	Hafizabad	24	35	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	1	0.5	0	0.0
34	Gujrat	4	24.5	0	0.0
35	Jehlum	18	59.5	0	0.0
36	Rawalpindi	6	2.3	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		308	572.6	13	4.2

FORECAST FOR THE NEXT WEEK:

Districts	Temperature	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	35.0	25.0
Pakpattan	36.0	26.0
Okara	35.0	26.0
Faisalabad	35.5	26.3
Jhang	35.6	25.8
Toba Tek Singh	35.5	26.2
Chiniot	34.0	25.0
Multan	35.7	28.9
Khanewal	36.6	26.9
Vehari	37.3	28.7
Lodhran	31.5	21.5
AVG	35.2	26.02

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 is conducive for the rapid 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. Try Bio-Pesticides & Botanicals at first to conserve natural enemies.
10. Plant refuge/insectary crops along the borders or surrounding of Maize Crop to attract and provide shelter to beneficial insects.
11. 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