



DIRECTORATE GENERAL
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نظامت اعلیٰ
(پست وارننگ اینڈ کوآلیٹی کنٹرول
آف پیسٹ مانیٹرز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 3RD**
WEEK OF SEPTEMBER, 2021.

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 3RD week of September in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 31 districts whereas the infestation on Sorghum Crop is observed from 20 districts and the infestation on Millet Crop is observed from 4 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. 11520-26 /DGA(PW&QCP) Dated: 24-09-2021
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 3RD WEEK OF SEPTEMBER, 2021

Pest Situation of Maize Pests						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.24	10.80	0.00	10.65	Increasing
2	Fall Armyworm	44.54	-	42.60	-	Increasing

Pest Situation of Sorghum Pests						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	1.43	15.07	0.36	13.39	Increasing
2	Fall Armyworm	11.00	-	6.96	-	Increasing

Pest Situation of FAW on Millet Crop						
		%age of spots				Remarks
Sr. No.	Pest Name	Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.97	0.00	0.00	-
2	Fall Armyworm	5.80	-	4.22	-	Increasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD 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	56	416	35	62.5
2	Pakpattan	56	301	33	58.9
3	Faisalabad	68	181.3	30	44.1
4	Bahawalpur	48	376	26	54.2
5	Multan	39	217	22	56.4
6	Lodhran	35	285	21	60.0
7	Khanewal	29	43	19	65.5
8	Okara	28	120	19	67.9
9	M.Garh	38	134	17	44.7
10	Kasur	43	199	15	34.9
11	TTSingh	36	132	13	36.1

12	Sargodha	31	144	12	38.7
13	Lahore	12	72	11	91.7
14	D.G.Khan	53	85	10	18.9
15	Vehari	15	104	9	60.0
16	R.Y.Khan	10	21	9	90.0
17	Sheikhupura	11	51	8	72.7
18	Chiniot	20	53	8	40.0
19	Bahawalnagar	17	48	7	41.2
20	Narowal	9	16	7	77.8
21	Jhang	16	76	7	43.8
22	Rajanpur	10	20	6	60.0
23	Mianwali	20	35	5	25.0
24	Chakwal	35	58.4	5	14.3
25	Layyah	6	8	4	66.7
26	Khushab	8	19.0	4	50.0
27	Gujranwala	6	8.75	2	33.3
28	Sialkot	4	17	2	50.0
29	M.B. Din	9	17	2	22.2
30	Bhakkar	8	5.4	2	25.0
31	Jehlum	12	38.5	1	8.3
32	Nankana Sahib	3	6	0	0.0
33	Ferozwala	0	0	0	0.0
34	Hafizabad	3	36	0	0.0
35	Gujrat	0	0	0	0.0
36	Rawalpindi	19	29.5	0	0.0
37	Attock	20	27.9	0	0.0
G.TOT 2021		833	3401	371	44.5

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 3RD 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	Faisalabad	78	60.5	12	15.4
2	Jhang	73	147	12	16.4
3	Multan	38	78	7	18.4
4	Khanewal	22	28	7	31.8
5	Pakpattan	30	39	7	23.3
6	D.G.Khan	32	42	7	21.9
7	Sargodha	77	129.5	7	9.1
8	Narowal	26	36	7	26.9
9	Chakwal	32	12	6	18.8

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10	Sahiwal	32	44	5	15.6
11	Okara	11	16	5	45.5
12	Nankana Sahib	31	60.5	4	12.9
13	Bahawalpur	7	9	3	42.9
14	M.Garh	37	50	3	8.1
15	Sheikhupura	19	27	2	10.5
16	Khushab	30	30	2	6.7
17	T.T.Sing	30	37.0	1	3.3
18	Kasur	63	112	1	1.6
19	Minawali	11	16	1	9.1
20	M.B.Din	13	20	1	7.7
21	Vehari	15	26	0	0.0
22	Lodhran	23	27	0	0.0
23	Bahawalnagar	15	19	0	0.0
24	R.Y.Khan	14	14	0	0.0
25	Rajanpur	11	12	0	0.0
26	Layyah	5	8	0	0.0
27	Chiniot	32	60	0	0.0
28	Lahore	10	45	0	0.0
29	Ferozwala	0	0	0	0.0
30	Bhakkar	1	1	0	0.0
31	Gujranwala	18	28.5	0	0.0
32	Hafizabad	16	22.5	0	0.0
33	Sialkot	38	66	0	0.0
34	Gujrat	14	22.25	0	0.0
35	Jehlum	5	17	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		909	1362	100	11.0

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 3RD 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	8	11	4	50.0
2	Chakwal	26	28.65	4	15.4
3	Layyah	8	21	2	25.0
4	Khushab	13	14	2	15.4
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	18	23	0	0.0
10	Pakpattan	0	0	0	0.0
11	Okara	0	0	0	0.0
12	Bahawalpur	3	29	0	0.0
13	Bahawalnagar	17	25	0	0.0
14	R.Y.Khan	1	1	0	0.0
15	D.G.Khan	2	2	0	0.0
16	M.Garh	5	5	0	0.0
17	Rajanpur	0	0	0	0.0
18	Faisalabad	0	0	0	0.0
19	T.T.Sing	0	0	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	5	8	0	0.0
22	Lahore	0	0	0	0.0
23	Kasur	0	0	0	0.0
24	Sheikhupura	10	14	0	0.0
25	Ferozwala	1	1	0	0.0
26	Nankana Sahib	0	0	0	0.0
27	Minawali	30	30	0	0.0
28	Bhakkar	26	47.8	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	7	8	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	7	39	0	0.0
33	M.B.Din	2	3	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	18	136.0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		207	446.5	12	5.8

FORECAST FOR THE NEXT WEEK:

Districts	Temperature	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	37.0	26.0
Pakpattan	38.0	27.0
Okara	36.0	25.0
Jhang	35.9	26.1
Toba Tek Singh	38.3	26.7
Chiniot	35.0	27.0
Multan	37.0	28.6
Khanewal	37.9	28.1
Vehari	37.7	28.9
Lodhran	38.5	26.5
AVG	37.1	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 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