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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH WEEK OF SEPTEMBER, 2021.**

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 33 districts whereas the infestation on Sorghum Crop is observed from 19 districts and the infestation on Millet Crop is observed from 7 districts in Punjab which is expected to Sustain in coming period.


DIRECTOR GENERAL

No. 11697-703 /DGA(PW&QCP) Dated: 01.10.2021
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 4TH WEEK OF SEPTEMBER, 2021

Pest Situation of Maize Pests						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.27	7.48	0.24	10.80	Sustaining
2	Fall Armyworm	29.57	-	44.54	-	Decreasing

Pest Situation of Sorghum Pests						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.73	13.18	1.43	15.07	Decreasing
2	Fall Armyworm	9.94	-	11.00	-	Decreasing

Pest Situation of FAW on Millet Crop						
Sr. No.	Pest Name	%age of spots				Remarks
		Current Week		Previous week		
		AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.85	0.00	0.97	-
2	Fall Armyworm	3.83	-	5.80	-	Decreasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH 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	Pakpattan	63	477	36	57.1
2	Sahiwal	54	445	33	61.1
3	Faisalabad	98	252.8	33	33.7
4	Jhang	566	1143	30	5.3
5	Khanewal	35	114	26	74.3
6	Bahawalpur	50	348	26	52.0
7	Lodhran	37	270	21	56.8
8	M.Garh	40	283	21	52.5
9	Lahore	22	87.0	19	86.4
10	Okara	31	174	17	54.8
11	TTSingh	33	89	16	48.5

12	Sargodha	47	171	16	34.0
13	Multan	23	136	15	65.2
14	Chiniot	28	174	13	46.4
15	Bahawalnagar	23	73	11	47.8
16	D.G.Khan	53	79	11	20.8
17	Kasur	51	216	11	21.6
18	Vehari	15	106	10	66.7
19	R.Y.Khan	12	38	9	75.0
20	Sheikhupura	10	79	8	80.0
21	Rawalpindi	17	18.9	8	47.1
22	Bhakkar	20	16.8	6	30.0
23	Layyah	10	21	5	50.0
24	Khushab	6	7	5	83.3
25	Mianwali	21	40	5	23.8
26	Chakwal	40	23.63	5	12.5
27	Narowal	6	10	4	66.7
28	Rajanpur	6	7	3	50.0
29	Sialkot	4	19	3	75.0
30	M.B. Din	10	16	3	30.0
31	Nankana Sahib	8	70	2	25.0
32	Ferozwala	2	1	2	100.0
33	Jehlum	7	22	2	28.6
34	Gujranwala	5	14	0	0.0
35	Hafizabad	3	6	0	0.0
36	Gujrat	5	6.5	0	0.0
37	Attock	10	8	0	0.0
G.TOT 2021		1471	5062	435	29.6

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 4TH 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	Jhang	85	189	13	15.3
2	Okara	54	82	12	22.2
3	Pakpattan	44	61	11	25.0
4	Narowal	33	36	10	30.3
5	Sahiwal	35	44	6	17.1
6	D.G.Khan	32	42	6	18.8
7	Faisalabad	55	41.3	6	10.9
8	Chakwal	37	17.625	6	16.2
9	Multan	25	53	3	12.0
10	R.Y.Khan	27	27	3	11.1

11	T.T.Sing	47	55.25	3	6.4
12	Nankana Sahib	28	41.5	3	10.7
13	Minawali	33	37	3	9.1
14	Lahore	14	44.0	2	14.3
15	Kasur	67	122	2	3.0
16	Sheikhupura	14	23	2	14.3
17	Sargodha	67	97	2	3.0
18	Khushab	4	5	1	25.0
19	M.B.Din	11	16	1	9.1
20	Khanewal	0	0	0	0.0
21	Vehari	15	23	0	0.0
22	Lodhran	22	24	0	0.0
23	Bahawalpur	6	9	0	0.0
24	Bahawalnagar	19	23	0	0.0
25	M.Garh	38	38	0	0.0
26	Rajanpur	9	9	0	0.0
27	Layyah	4	4	0	0.0
28	Chiniot	12	26	0	0.0
29	Ferozwala	4	4	0	0.0
30	Bhakkar	1	1	0	0.0
31	Gujranwala	34	71.25	0	0.0
32	Hafizabad	9	13.5	0	0.0
33	Sialkot	57	99	0	0.0
34	Gujrat	12	18	0	0.0
35	Jehlum	0	0	0	0.0
36	Rawalpindi	2	0.3	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		956	1397	95	9.9

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 4TH 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	Layyah	12	40	3	25.0
2	T.T.Sing	1	3	1	100.0
3	Chiniot	14	26	1	7.1
4	Khushab	8	13	1	12.5
5	Bhakkar	34	67.6	1	2.9
6	Narowal	9	27	1	11.1
7	Chakwal	29	16.5	1	3.4
8	Multan	0	0	0	0.0
9	Khanewal	0	0	0	0.0

10	Vehari	0	0	0	0.0
11	Lodhran	0	0	0	0.0
12	Sahiwal	15	18	0	0.0
13	Pakpattan	0	0	0	0.0
14	Okara	0	0	0	0.0
15	Bahawalpur	5	23.5	0	0.0
16	Bahawalnagar	24	34	0	0.0
17	R.Y.Khan	0	0	0	0.0
18	D.G.Khan	2	2	0	0.0
19	M.Garh	10	14	0	0.0
20	Rajanpur	0	0	0	0.0
21	Faisalabad	12	22	0	0.0
22	Jhang	0	0	0	0.0
23	Lahore	0	0	0	0.0
24	Kasur	0	0	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	Sargodha	1	1	0	0.0
29	Minawali	33	33	0	0.0
30	Gujranwala	4	3.5	0	0.0
31	Hafizabad	0	0	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	1	0.5	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	20	72	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		235	417.6	9	3.8

FORECAST FOR THE NEXT WEEK:

Districts	Temperature	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	33.0	25.0
Pakpattan	36.0	26.0
Okara	34.0	25.0
Jhang	38.9	30.2
Toba Tek Singh	35.8	24.8
Chiniot	31.0	25.0
Multan	35.0	26.7
Khanewal	35.0	25.8
Vehari	34.6	26.7
Lodhran	34.5	24.3
AVG	34.7	25.9

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