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

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

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 3RD week of October 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 15 districts and the infestation on Millet Crop is observed from 2 districts in Punjab which is expected to increase in coming period.


/ **DIRECTOR GENERAL**

No. 2911-17 /DGA(PW&QCP) Dated: 22-10-2021
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 3RD WEEK OF OCTOBER, 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	0.13	9.45	0.23	11.12	Sustaining
2	Fall Armyworm	41.00	-	45.89	-	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	0.46	11.13	0.00	12.52	Sustaining
2	Fall Armyworm	11.75	-	10.80	-	Increasing

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	0.00	0.00	1.20	-
2	Fall Armyworm	3.39	-	4.79	-	Decreasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD WEEK OF OCTOBER 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	64	248	33	51.6
2	M.Garh	70	339	30	42.9
3	Pakpattan	44	191	27	61.4
4	Faisalabad	91	244.3	25	27.5
5	Khanewal	24	87	18	75.0
6	Okara	33	123.0	18	54.5
7	Jhang	37	86	16	43.2
8	Bahawalnagar	23	74	14	60.9
9	Lahore	15	58	12	80.0
10	Lodhran	39	232	11	28.2
11	R.Y.Khan	11	14	11	100.0

12	Kasur	28	67	11	39.3
13	Multan	27	158	10	37.0
14	Vehari	15	106	10	66.7
15	D.G.Khan	48	76	8	16.7
16	Bahawalpur	35	299	6	17.1
17	Rajanpur	12	22	6	50.0
18	Sargodha	15	29.5	6	40.0
19	Chiniot	17	97	5	29.4
20	TTSingh	13	17.25	5	38.5
21	Bhakkar	17	14.4	5	29.4
22	Layyah	8	10	4	50.0
23	Nankana Sahib	8	11.5	4	50.0
24	Ferozwala	5	17	4	80.0
25	Sialkot	6	12	4	66.7
26	M.B. Din	9	17	3	33.3
27	Gujrat	3	2.5	3	100.0
28	Mianwali	18	45	3	16.7
29	Sheikhupura	7	20	2	28.6
30	Gujranwala	5	9.5	2	40.0
31	Narowal	2	2	2	100.0
32	Khushab	2	2	2	100.0
33	Chakwal	21	26.08	1	4.8
34	Hafizabad	1	1	0	0.0
35	Jhelum	10	28	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		783	2786	321	41.0

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 3RD WEEK OF OCTOBER 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	M.Garh	106	107	13	12.3
2	Faisalabad	74	64.95	11	14.9
3	Narowal	22	24	10	45.5
4	D.G.Khan	44	76	9	20.5
5	Pakpattan	32	32	8	25.0
6	Sahiwal	32	46	7	21.9
7	Okara	10	16	3	30.0
8	T.T.Sing	18	20.0	3	16.7
9	Kasur	36	100	2	5.6
10	Nankana Sahib	14	32.5	2	14.3

11	Minawali	30	37	2	6.7
12	M.B.Din	13	20	2	15.4
13	Chakwal	17	16.2	2	11.8
14	Multan	16	24	1	6.3
15	Sargodha	11	14.5	1	9.1
16	Khanewal	17	24	0	0.0
17	Vehari	15	21	0	0.0
18	Lodhran	16	18	0	0.0
19	Bahawalpur	5	6	0	0.0
20	Bahawalnagar	0	0	0	0.0
21	R.Y.Khan	17	17	0	0.0
22	Rajanpur	0	0	0	0.0
23	Layyah	7	7	0	0.0
24	Jhang	0	0	0	0.0
25	Chiniot	0	0	0	0.0
26	Lahore	0	0	0	0.0
27	Sheikhupura	17	17	0	0.0
28	Ferozwala	4	5	0	0.0
29	Khushab	4	8	0	0.0
30	Bhakkar	0	0	0	0.0
31	Gujranwala	29	48	0	0.0
32	Hafizabad	3	6	0	0.0
33	Sialkot	23	38	0	0.0
34	Gujrat	8	10.89	0	0.0
35	Jehlum	7	16.5	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		647	872.5	76	11.7

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 3RD WEEK OF OCTOBER 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	14	39.0	2	14.3
2	Chakwal	14	13.7	2	14.3
3	Multan	0	0	0	0.0
4	Khanewal	0	0	0	0.0
5	Vehari	0	0	0	0.0
6	Lodhran	0	0	0	0.0
7	Sahiwal	16	21	0	0.0
8	Pakpattan	0	0	0	0.0
9	Okara	0	0	0	0.0

10	Bahawalpur	4	15	0	0.0
11	Bahawalnagar	0	0	0	0.0
12	R.Y.Khan	0	0	0	0.0
13	D.G.Khan	0	0	0	0.0
14	M.Garh	10	14	0	0.0
15	Rajanpur	0	0	0	0.0
16	Faisalabad	0	0	0	0.0
17	T.T.Sing	0	0	0	0.0
18	Jhang	0	0	0	0.0
19	Chiniot	0	0	0	0.0
20	Lahore	0	0	0	0.0
21	Kasur	0	0	0	0.0
22	Sheikhupura	0	0	0	0.0
23	Ferozwala	0	0	0	0.0
24	Nankana Sahib	0	0	0	0.0
25	Sargodha	5	7	0	0.0
26	Khushab	1	1	0	0.0
27	Minawali	30	34	0	0.0
28	Bhakkar	0	0	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	4	4.25	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	6	9	0	0.0
33	M.B.Din	2	3	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	12	37.5	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		118	198.5	4	3.4

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	30.1	17.6
Pakpattan	29.9	17.1
Okara	27	20.0
Jhang	29.5	17.0
Toba Tek Singh	29.6	17.0
Chiniot	28.3	16.3
Multan	30.9	19.0
Khanewal	30.9	17.6
Vehari	30.9	17.6
Lodhran	26.6	18.9
AVG	29.3	17.8

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