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نظامت اعلیٰ
(پست وارننگ اینڈ کوآپڈیٹیشن کنٹرول
آف پیسٹی سائیزرز) پنجاب لاہور

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

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

At present the pest infestation is reported on Maize Crop from 35 districts whereas the infestation on Sorghum Crop is observed from 19 districts and the infestation on Millet Crop is observed from 3 districts in Punjab which is expected to increase in coming period.


DIRECTOR GENERAL

No. 12176-82 /DGA(PW&QCP) Dated: 15-10-2021

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 2ND 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	0.23	11.12	0.25	11.66	Sustaining
2	Fall Armyworm	45.89	-	41.96	-	Increasing

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	0.00	12.52	0.64	15.92	Decreasing
2	Fall Armyworm	10.80	-	11.46	-	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	1.20	0.00	0.50	-
2	Fall Armyworm	4.79	-	2.48	-	Increasing

DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND 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	57	332	40	70.2
2	Pakpattan	49	342	31	63.3
3	Khanewal	44	174	29	65.9
4	Faisalabad	107	282.5	27	25.2
5	Lahore	30	152	26	86.7
6	Jhang	36	141	22	61.1
7	M.Garh	40	111	20	50.0
8	Sargodha	32	59	18	56.3
9	Lodhran	39	374	15	38.5
10	Multan	30	242	14	46.7
11	Okara	20	116	13	65.0

12	Kasur	37	190	12	32.4
13	Vehari	16	82.0	11	68.8
14	Bahawalpur	46	373	11	23.9
15	Bahawalnagar	28	93	11	39.3
16	D.G.Khan	53	87	9	17.0
17	Chiniot	15	46	9	60.0
18	R.Y.Khan	11	11	8	72.7
19	Sheikhupura	8	24.25	7	87.5
20	Layyah	9	14	6	66.7
21	Nankana Sahib	15	56	6	40.0
22	TTSingh	11	16	6	54.5
23	Rawalpindi	20	50.3	6	30.0
24	Ferozwala	6	12	5	83.3
25	Narowal	5	9	5	100.0
26	Mianwali	19	25	5	26.3
27	Khushab	8	8	4	50.0
28	Bhakkar	14	13.7	4	28.6
29	Rajanpur	11	12	3	27.3
30	M.B. Din	10	16	3	30.0
31	Gujrat	5	11.25	3	60.0
32	Chakwal	20	23.625	3	15.0
33	Sialkot	5	20	2	40.0
34	Gujranwala	2	2.5	1	50.0
35	Hafizabad	2	4	1	50.0
36	Jhelum	3	26	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		863	3551	396	45.9

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 2ND 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	D.G.Khan	41	60	9	22.0
2	Okara	29	59	7	24.1
3	Sahiwal	31	38	6	19.4
4	Faisalabad	42	31.8	6	14.3
5	Pakpattan	21	22	5	23.8
6	Narowal	10	23	5	50.0
7	Bahawalpur	7	9	4	57.1
8	Nankana Sahib	17	25	4	23.5
9	Chakwal	28	13.875	4	14.3
10	M.Garh	35	38	3	8.6

11	Jhang	15	28	3	20.0
12	Minawali	33	38	3	9.1
13	Multan	22	27	2	9.1
14	T.T.Sing	19	20	2	10.5
15	Kasur	41	79	2	4.9
16	Vehari	15	18	1	6.7
17	Sheikhupura	13	17.0	1	7.7
18	Sargodha	50	73.5	1	2.0
19	M.B.Din	11	13	1	9.1
20	Khanewal	17	24	0	0.0
21	Lodhran	15	16	0	0.0
22	Bahawalnagar	0	0	0	0.0
23	R.Y.Khan	16	16	0	0.0
24	Rajanpur	0	0	0	0.0
25	Layyah	7	12	0	0.0
26	Chiniot	17	33	0	0.0
27	Lahore	1	2	0	0.0
28	Ferozwala	6	6	0	0.0
29	Khushab	2	2	0	0.0
30	Bhakkar	0	0	0	0.0
31	Gujranwala	23	35.5	0	0.0
32	Hafizabad	6	9.5	0	0.0
33	Sialkot	28	46.5	0	0.0
34	Gujrat	19	24	0	0.0
35	Jehlum	2	3	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		639	862.7	69	10.8

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 2ND 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	Bhakkar	39	88.7	3	7.7
2	Narowal	4	6	3	75.0
3	Chakwal	22	10.25	2	9.1
4	Multan	0	0	0	0.0
5	Khanewal	0	0	0	0.0
6	Vehari	0	0	0	0.0
7	Lodhran	0	0	0	0.0
8	Sahiwal	19	26	0	0.0
9	Pakpattan	0	0	0	0.0

10	Okara	0	0	0	0.0
11	Bahawalpur	4	23	0	0.0
12	Bahawalnagar	0	0	0	0.0
13	R.Y.Khan	0	0	0	0.0
14	D.G.Khan	2	2.0	0	0.0
15	M.Garh	10	14	0	0.0
16	Rajanpur	0	0	0	0.0
17	Layyah	6	9	0	0.0
18	Faisalabad	12	22	0	0.0
19	T.T.Sing	0	0	0	0.0
20	Jhang	0	0	0	0.0
21	Chiniot	1	2	0	0.0
22	Lahore	0	0	0	0.0
23	Kasur	0	0	0	0.0
24	Sheikhupura	1	1	0	0.0
25	Ferozwala	0	0	0	0.0
26	Nankana Sahib	1	2	0	0.0
27	Sargodha	7	10.5	0	0.0
28	Khushab	0	0	0	0.0
29	Minawali	33	33	0	0.0
30	Gujranwala	0	0	0	0.0
31	Hafizabad	1	1	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	1	0.5	0	0.0
34	Gujrat	1	0.5	0	0.0
35	Jehlum	3	12	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		167	263.5	8	4.8

FORECAST FOR THE NEXT WEEK:

Districts	Temperature	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	35.00	22.00
Pakpattan	36.00	23.00
Okara	34.00	24.00
Jhang	36.6	18.8
Toba Tek Singh	36.56	26.54
Chiniot	33.0	21.0
Multan	35.57	23.57
Khanewal	36.00	23.75
Vehari	36.00	24.14
Lodhran	35	23
AVG	35.3	22.98

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. 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