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دہلی  
(پیسٹ وارننگ اینڈ کوالٹی کنٹرول  
آف ڈسٹریکٹ سائینسز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1<sup>ST</sup> WEEK OF NOVEMBER, 2021.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1<sup>st</sup> week of November in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 30 districts whereas the infestation on Sorghum Crop is observed from 11 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. 13456-62 /DGA(PW&QCP) Dated: 08-11-2021  
**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 1<sup>ST</sup> WEEK OF NOVEMBER, 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	0.00	8.32	0.24	8.94	Sustaining
2	Fall Armyworm	36.95	-	35.25	-	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	1.57	13.48	0.00	18.40	Increasing
2	Fall Armyworm	15.36	-	12.03	-	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	0.00	-
2	Fall Armyworm	4.05	-	2.58	-	Increasing

### DISTRICT WISE PERCENTAGE OF HOT SPOTS OF FALL ARMYWORM

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1st WEEK OF NOVEMBER 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	Bahawalpur	68	129	33	48.5
2	Pakpattan	46	262	26	56.5
3	Khanewal	35	115	18	51.4
4	Multan	49	290	15	30.6
5	Sahiwal	35	244	13	37.1
6	Bahawalnagar	19	31	12	63.2
7	Sargodha	19	24	12	63.2
8	Okara	20	85	11	55.0
9	D.G.Khan	47	375	10	21.3
10	Layyah	55	92	10	18.2
11	Lahore	15	118	10	66.7

12	Kasur	39	123	10	25.6
13	Jhang	38	99	10	26.3
14	Faisalabad	41	96	9	22.0
15	Rajanpur	10	28	8	80.0
16	M.Garh	22	76	7	31.8
17	Chiniot	15	42	6	40.0
18	Lodhran	12	82	5	41.7
19	Nankana Sahib	8	15	5	62.5
20	Ferozwala	6	7	4	66.7
21	Bhakkar	14	13.7	4	28.6
22	Mianwali	13	22	4	30.8
23	Sheikhupura	8	17	3	37.5
24	Gujranwala	5	10.5	3	60.0
25	Sialkot	7	17.0	3	42.9
26	M.B. Din	9	16	3	33.3
27	Khushab	3	3	3	100.0
28	Vehari	15	106	2	13.3
29	R.Y.Khan	9	10	2	22.2
30	Gujrat	4	4.5	1	25.0
31	Hafizabad	0	0	0	0.0
32	Narowal	2	2	0	0.0
33	TTSingh	4	10	0	0.0
34	Jhelum	0	0	0	0.0
35	Chakwal	14	35.85	0	0.0
36	Rawalpindi	3	0.7	0	0.0
37	Attock	0	0	0	0.0
<b>G.TOT 2021</b>		<b>709</b>	<b>2601</b>	<b>262</b>	<b>37.0</b>

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON  
SORGHUM CROP FOR 1ST WEEK OF NOVEMBER 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	56	56	15	26.8
2	D.G.Khan	41	68	9	22.0
3	Pakpattan	29	36	5	17.2
4	Sahiwal	26	34	4	15.4
5	Bahawalpur	7	9	4	57.1
6	Multan	10	12.0	3	30.0
7	Okara	15	24	3	20.0
8	Sargodha	5	5.5	2	40.0
9	Narowal	2	2	2	100.0
10	M.B.Din	7	12	1	14.3

11	Chakwal	4	5	1	25.0
12	Khanewal	0	0	0	0.0
13	Vehari	15	21	0	0.0
14	Lodhran	6	6	0	0.0
15	Bahawalnagar	0	0	0	0.0
16	R.Y.Khan	0	0	0	0.0
17	Rajanpur	0	0	0	0.0
18	Layyah	4	4	0	0.0
19	Faisalabad	0	0	0	0.0
20	T.T.Sing	0	0	0	0.0
21	Jhang	0	0	0	0.0
22	Chiniot	6	8	0	0.0
23	Lahore	0	0	0	0.0
24	Kasur	42	92	0	0.0
25	Sheikhupura	12	12	0	0.0
26	Ferozwala	2	2	0	0.0
27	Nankana Sahib	9	8	0	0.0
28	Khushab	2	2	0	0.0
29	Minawali	0	0	0	0.0
30	Bhakkar	0	0	0	0.0
31	Gujranwala	0	0	0	0.0
32	Hafizabad	0	0	0	0.0
33	Sialkot	16	27	0	0.0
34	Gujrat	3	3	0	0.0
35	Jehlum	0	0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
<b>G.TOT 2021</b>		<b>319</b>	<b>448.5</b>	<b>49</b>	<b>15.4</b>

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON  
MILLET CROP FOR 1ST WEEK OF NOVEMBER 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	3	6	1	33.3
2	Narowal	1	1	1	100.0
3	Chakwal	4	5.1	1	25.0
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	0	0	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
15	M.Garh	0	0	0	0.0
16	Rajanpur	0	0	0	0.0
17	Layyah	39	98	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	0	0	0	0.0
22	Lahore	1	1	0	0.0
23	Kasur	0	0	0	0.0
24	Sheikhupura	0	0	0	0.0
25	Ferozwala	0	0	0	0.0
26	Nankana Sahib	0	0	0	0.0
27	Khushab	1	1	0	0.0
28	Minawali	0	0	0	0.0
29	Bhakkar	17	44.9	0	0.0
30	Gujranwala	0	0	0	0.0
31	Hafizabad	0	0	0	0.0
32	Sialkot	0	0	0	0.0
33	M.B.Din	2	3	0	0.0
34	Gujrat	0	0	0	0.0
35	Jehlum	0	0	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
<b>G.TOT 2021</b>		<b>74</b>	<b>185</b>	<b>3</b>	<b>4.1</b>

**FORECAST FOR THE NEXT WEEK:**

DISTRICTS	TEMPERATURE	
	Max. Temp (°C)	Min. Temp (°C)
Sahiwal	28.0	15.0
Pakpattan	29.0	16.0
Okara	30.0	15.5
Jhang	25.0	13.0
Toba Tek Singh	27.5	15.3
Chiniot	26.2	13.0
Multan	29.6	16.3
Khanewal	30.6	17.0
Vehari	29.9	17.0
Lodhran	29.0	17.5
<b>AVG</b>	<b>28.48</b>	<b>15.56</b>

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