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

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 3RD**
WEEK OF JULY, 2022.

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

At present the pest infestation is reported on Maize Crop from 23 districts, infestation is reported on Sorghum Crop from 05 district and infestation is reported on Millet Crop from 02 district which is expected to increase in coming period.


Assistant Director of Agri. (PP) Hqr
For DIRECTOR GENERAL

No. 9356-62 /DGA (PW&QCP)

Dated: 27-07-2022

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.
- The Chief Scientist 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 JULY, 2022

Pest Situation of Maize Pests								
		%age of spots						
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	8.44	0.00	7.97	3.84	5.24	-
-	Fall Armyworm	27.49	-	24.48	-	2.97	-	Increasing

Pest Situation of Sorghum Pests								
		%age of spots						
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.34	8.45	2.83	7.06	0.00	8.46	Decreasing
2	Fall Armyworm	2.93	-	3.30	-	1.78	-	Decreasing

Pest Situation of Millet Pests								
		%age of spots						
Sr. No.	Pest Name	Current Week 2022		Previous week 2022		Corresponding week 2021		Remarks
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Maize Stem Borer	0.00	0.00	0.00	0.00	0.00	0.00	-
2	Fall Armyworm	4.17	-	1.00	-	0.00	-	Increasing

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD WEEK OF JULY, 2022

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	50	78.3	16	32.0
2	Chiniot	35	126	12	34.3
3	Okara	26	155	11	42.3
4	Pakpattan	25	70	9	36.0
5	Multan	16	43	7	43.8
6	Kasur	27	93	7	25.9
7	Rawalpindi	38	30.2	7	18.4
8	Khanewal	7	23	6	85.7
9	Lahore	22	180	6	27.3
10	Sargodha	18	57.5	6	33.3
11	Chakwal	14	16.125	6	42.9
12	Sahiwal	14	53	5	35.7
13	Sheikhupura	12	42	5	41.7

14	D.G.Khan	33	42	4	12.1
15	M.B. Din	26	56	4	15.4
16	Vehari	15	75	3	20.0
17	Bhakkar	4	1.625	3	75.0
18	Lodhran	4	22	2	50.0
19	Nankana Sahib	4	43.5	2	50.0
20	Narowal	5	12	2	40.0
21	Jhang	17	42	2	11.8
22	M.Garh	17	24	1	5.9
23	Gujrat	4	13.5	1	25.0
24	Bahawalpur	0	0	0	0.0
25	Bahawalnagar	0	0	0	0.0
26	R.Y.Khan	0	0	0	0.0
27	Rajanpur	16	16	0	0.0
28	Layyah	0	0	0	0.0
29	Ferozwala	0	0	0	0.0
30	Gujranwala	2	7	0	0.0
31	Hafizabad	0	0	0	0.0
32	Sialkot	1	4	0	0.0
33	TTSingh	5	39	0	0.0
34	Khushab	0	0	0	0.0
35	Mianwali	0	0	0	0.0
36	Jehlum	4	9.75	0	0.0
37	Attock	1	0.6	0	0.0
G.TOT 2022		462	1375	127	27.5

DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 3RD WEEK OF JULY, 2022

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Chiniot	49	116	5	10.2
2	Chakwal	25	45.625	5	20.0
3	T.T.Sing	23	29.5	4	17.4
4	M.B.Din	19	33	2	10.5
5	Kasur	35	70	1	2.9
6	Multan	0	0	0	0.0
7	Khanewal	0	0	0	0.0
8	Vehari	0	0	0	0.0
9	Lodhran	0	0	0	0.0
10	Sahiwal	0	0	0	0.0
11	Pakpattan	0	0	0	0.0
12	Okara	0	0	0	0.0
13	Bahawalpur	0	0	0	0.0

14	Bahawalnagar	0	0	0	0.0
15	R.Y.Khan	0	0	0	0.0
16	D.G.Khan	0	0	0	0.0
17	M.Garh	0	0	0	0.0
18	Rajanpur	0	0	0	0.0
19	Layyah	0	0	0	0.0
20	Faisalabad	73	95.4	0	0.0
21	Jhang	0	0	0	0.0
22	Lahore	23	72	0	0.0
23	Sheikhupura	48	83	0	0.0
24	Ferozwala	0	0	0	0.0
25	Nankana Sahib	44	71.25	0	0.0
26	Sargodha	55	85	0	0.0
27	Khushab	6	4.5	0	0.0
28	Minawali	0	0	0	0.0
29	Bhakkar	3	1.75	0	0.0
30	Gujranwala	24	47	0	0.0
31	Hafizabad	16	17	0	0.0
32	Sialkot	67	161	0	0.0
33	Narowal	39	55.5	0	0.0
34	Gujrat	27	36.62	0	0.0
35	Jehlum	4	3.125	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		580	1027	17	2.9

**DISTRICTWISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 3RD WEEK OF JULY, 2022**

Sr. #	District	No. of Spots Visited	Area Surveyed (Acres)	No. of Hot Spots of Fall Armyworm	% age of Hot Spots of Fall Armyworm
1	Chakwal	14	16.75	2	14.3
2	Bhakkar	19	29.12	1	5.3
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	0	0	0	0.0
8	Pakpattan	0	0	0	0.0
9	Okara	0	0	0	0.0
10	Bahawalpur	0	0	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	0	0	0	0.0
15	Rajanpur	0	0	0	0.0
16	Layyah	0	0	0	0.0
17	Faisalabad	0	0	0	0.0
18	T.T.Sing	0	0	0	0.0
19	Jhang	0	0	0	0.0
20	Chiniot	5	11	0	0.0
21	Lahore	0	0	0	0.0
22	Kasur	0	0	0	0.0
23	Sheikhupura	0	0	0	0.0
24	Ferozwala	0	0	0	0.0
25	Nankana Sahib	0	0	0	0.0
26	Sargodha	8	15	0	0.0
27	Khushab	4	16	0	0.0
28	Minawali	0	0	0	0.0
29	Gujranwala	0	0	0	0.0
30	Hafizabad	2	4	0	0.0
31	Sialkot	0	0	0	0.0
32	Narowal	7	13	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	5	16.5	0	0.0
35	Jehlum	8	7.625	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2021		72	129	3	4.2

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	34.6	28.8
Pakpattan	34.4	28.5
Okara	33.9	28.4
Jhang	34.0	28.1
Toba Tek Singh	34.6	28.8
Chiniot	29.6	24.8
Multan	34.7	29.4
Khanewal	32.1	26.6
Vehari	35.0	29.1
Lodhran	35.3	29.3
AVG	33.8	28.2

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