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نظامت اعلیٰ
(پست وارننگ اور کوالٹی کنٹرول
آف پیسٹی سائڈز) پنجاہ لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 4TH WEEK OF OCTOBER, 2022.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 4TH Week of October in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 34 districts, infestation is reported on Sorghum Crop from 16 district and infestation is reported on Millet Crop from 03 districts.


Deputy Director of Agri. (QCP) Hqr
For DIRECTOR GENERAL

No. 12463-69 /DGA (PW&QCP)

Dated: 02-11-2022

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 4TH WEEK OF OCTOBER, 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	10.01	0.13	10.13	0.24	8.94	Decreasing
2	Fall Armyworm	38.93	-	41.65	-	35.25	-	Decreasing

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	0.49	11.99	0.29	12.74	0.00	18.40	Increasing
2	Fall Armyworm	12.32	-	12.88	-	12.03	-	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	4.73	-	3.07	-	2.58	-	Increasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 4TH WEEK OF OCTOBER, 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	R.Y.Khan	9	11	9	100.0
2	Sialkot	1	1	1	100.0
3	Bhakkar	8	5.35	7	87.5
4	Khanewal	40	128	32	80.0
5	Rawalpindi	8	8.2	6	75.0
6	Lodhran	35	215	25	71.4
7	Layyah	9	17	6	66.7
8	Sheikhupura	6	7	4	66.7
9	Bahawalpur	32	212	20	62.5
10	Sargodha	22	37	13	59.1
11	Jhang	19	60	10	52.6
12	Nankana Sahib	2	2	1	50.0
13	M.B. Din	4	5	2	50.0
14	Gujrat	2	1.5	1	50.0
15	Khushab	10	12.5	5	50.0
16	M.Garh	25	34	9	36.0

17	Multan	46	268	16	34.8
18	Pakpattan	44	124	15	34.1
19	Vehari	15	34	5	33.3
20	Gujranwala	6	15	2	33.3
21	Jhelum	3	9	1	33.3
22	Lahore	25	121	8	32.0
23	Kasur	27	56	8	29.6
24	Bahawalnagar	18	36	5	27.8
25	Sahiwal	47	158	13	27.7
26	TTSingh	15	27	4	26.7
27	Chiniot	24	85	6	25.0
28	Rajanpur	17	17	4	23.5
29	Mianwali	13	17	3	23.1
30	Chakwal	19	8.625	4	21.1
31	Faisalabad	73	243.45	15	20.5
32	Okara	30	230	6	20.0
33	Attock	5	2.7	1	20.0
34	D.G.Khan	50	68	9	18.0
35	Ferozwala	0	0	0	0.0
36	Hafizabad	0	0	0	0.0
37	Narowal	0	0	0	0.0
G.TOT 2022		709	2276.33	276	38.9

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 4TH WEEK OF OCTOBER, 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	Layyah	3	5	1	33.3
2	T.T.Sing	3	3.25	1	33.3
3	Multan	20	23	6	30.0
4	Sargodha	14	24.5	4	28.6
5	Vehari	15	20	4	26.7
6	D.G.Khan	67	93	16	23.9
7	Pakpattan	22	27	5	22.7
8	Lodhran	30	30	6	20.0
9	Jhang	5	9	1	20.0
10	Okara	22	32	4	18.2
11	M.Garh	33	33	6	18.2
12	Khanewal	70	113	10	14.3
13	Bahawalpur	8	10	1	12.5
14	Chakwal	17	4.5	2	11.8
15	Sahiwal	42	59	4	9.5
16	Nankana Sahib	47	66.5	2	4.3
17	Bahawalnagar	0	0	0	0.0
18	R.Y.Khan	0	0	0	0.0
19	Rajanpur	46	64	0	0.0
20	Faisalabad	0	0	0	0.0
21	Chiniot	33	52	2	0.0
22	Lahore	15	38	0	0.0
23	Kasur	31	83	0	0.0
24	Sheikhupura	17	23	0	0.0

25	Ferozwala	0	0	0	0.0
26	Khushab	0	0	0	0.0
27	Minawali	15	17	1	0.0
28	Bhakkar	0	0	0	0.0
29	Gujranwala	8	10	0	0.0
30	Hafizabad	0	0	0	0.0
31	Sialkot	28	32.6	0	0.0
32	Narowal	0	0	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	0	0	0	0.0
35	Jhelum	1	2	0	0.0
36	Rawalpindi	1	1.2	0	0.0
37	Attock	4	3.1	0	0.0
G.TOT 2022		617	878.65	76	12.3

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
MILLET CROP FOR 4TH WEEK OF OCTOBER, 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	Khushab	22	58	4	18.2
2	Minawali	15	24	2	13.3
3	Layyah	79	257	2	2.5
4	Multan	4	25	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	0	0	0	0.0
12	Bahawalnagar	0	0	0	0.0
13	R.Y.Khan	0	0	0	0.0
14	D.G.Khan	0	0	0	0.0
15	M.Garh	0	0	0	0.0
16	Rajanpur	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	1	2	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	9	13	0	0.0
27	Bhakkar	30	66.5	0	0.0
28	Gujranwala	0	0	0	0.0
29	Hafizabad	0	0	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	0	0	0	0.0
32	M.B.Din	0	0	0	0.0

33	Gujrat	0	0	0	0.0
34	Jehlum	1	2	0	0.0
35	Chakwal	8	1.625	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		169	449.125	8	4.7

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	33.6	16.4
Pakpattan	33.4	16.1
Okara	33.1	15.8
Jhang	32.6	15.4
Toba Tek Singh	32.2	15.0
Chiniot	33.5	16.2
Multan	33.0	15.6
Khanewal	33.8	16.7
Vehari	32.7	15.3
Lodhran	34.0	17.0
AVG	33.1	15.9

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 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