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

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

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 35 districts, infestation is reported on Sorghum Crop from 17 district and infestation is reported on Millet Crop from 02 districts whereas FAW infestation is also reported on some other alternate host plants (Lucerne).


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

No. 12267-73 /DGA (PW&QCP)
Copy forwarded for information to;

Dated: 25-10-2022

- 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 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	0.13	10.13	0.00	11.51	0.13	9.45	Increasing
2	Fall Armyworm	41.65	-	38.85	-	41.00	-	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	0.29	12.74	2.95	11.55	0.46	11.13	Decreasing
2	Fall Armyworm	12.88	-	10.65	-	11.75	-	Increasing

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	1.33	0.00	1.20	-
2	Fall Armyworm	3.07	-	7.33	-	4.79	-	Decreasing

Pest Situation of FAW on Other Alternate Host Plants						
%age of spots on FAW						
Sr. No.	Name of Crop	Current Week		Previous week		Remarks
		AETL	BETL	AETL	BETL	
1	Lucerne	6.89	-	0.00	-	Increasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 3RD 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	Lodhran	28	243	28	100.0
2	R.Y.Khan	11	12	11	100.0
3	Hafizabad	1	1	1	100.0
4	TTSingh	11	37	10	90.9
5	Bhakkar	7	6.75	6	85.7
6	Khanewal	50	179	39	78.0
7	Layyah	9	25	7	77.8
8	Sargodha	22	37	13	59.1
9	Bahawalpur	35	277	20	57.1

10	Rawalpindi	20	9.7	11	55.0
11	Sheikhupura	11	22	6	54.5
12	Narowal	2	6	1	50.0
13	Jhang	12	42	6	50.0
14	Chiniot	25	81	11	44.0
15	Gujrat	7	22	3	42.9
16	Bahawalnagar	17	54	7	41.2
17	Khushab	20	35.5	8	40.0
18	Chakwal	13	9.25	5	38.5
19	Vehari	16	70	6	37.5
20	M.B. Din	8	21	3	37.5
21	Lahore	30	181	11	36.7
22	Multan	48	465	17	35.4
23	Sahiwal	46	199	14	30.4
24	M.Garh	33	82	10	30.3
25	Attock	10	10.5	3	30.0
26	D.G.Khan	27	36	8	29.6
27	Kasur	30	215	8	26.7
28	Pakpattan	49	139	13	26.5
29	Faisalabad	96	222.25	24	25.0
30	Mianwali	12	21	3	25.0
31	Okara	33	168	8	24.2
32	Jehlum	15	53.625	3	20.0
33	Gujranwala	6	8	1	16.7
34	Nankana Sahib	14	25	2	14.3
35	Rajanpur	16	16	2	12.5
36	Ferozwala	0	0	0	0.0
37	Sialkot	0	0	0	0.0
G.TOT 2022		790	3031.58	329	41.6

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 3RD 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	Bahawalpur	5	6	4	80.0
2	D.G.Khan	45	64	13	28.9
3	Sargodha	14	24.5	4	28.6
4	Multan	26	39	7	26.9
5	M.Garh	34	35	9	26.5
6	Rajanpur	4	6	1	25.0
7	Pakpattan	30	35	7	23.3
8	Vehari	15	15	3	20.0
9	Lodhran	31	32	6	19.4
10	Sahiwal	38	52	7	18.4
11	Okara	34	54	6	17.6
12	Minawali	13	20	2	15.4
13	Jhang	14	39	2	14.3
14	Khanewal	81	144	11	13.6
15	Nankana Sahib	34	48	4	11.8
16	Chakwal	9	3.875	1	11.1
17	Chiniot	53	83	2	3.8

18	Bahawalnagar	0	0	0	0.0
19	R.Y.Khan	0	0	0	0.0
20	Layyah	46	46	0	0.0
21	Faisalabad	0	0	0	0.0
22	T.T.Sing	3	3.25	0	0.0
23	Lahore	19	41	0	0.0
24	Kasur	30	60	0	0.0
25	Sheikhupura	21	29	0	0.0
26	Ferozwala	0	0	0	0.0
27	Khushab	0	0	0	0.0
28	Bhakkar	0	0	0	0.0
29	Gujranwala	7	7.5	0	0.0
30	Hafizabad	0	0	0	0.0
31	Sialkot	58	76.5	0	0.0
32	Narowal	14	10	0	0.0
33	M.B.Din	0	0	0	0.0
34	Gujrat	5	9	0	0.0
35	Jehlum	6	25	0	0.0
36	Rawalpindi	1	2.5	0	0.0
37	Attock	1	0.2	0	0.0
G.TOT 2022		691	1010.33	89	12.9

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 3RD 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	Minawali	23	41	2	8.7
2	Layyah	69	148	3	4.3
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	Faisalabad	3	10	0	0.0
17	T.T.Sing	0	0	0	0.0
18	Jhang	0	0	0	0.0
19	Chiniot	1	2	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	10	13	0	0.0

26	Khushab	15	33	0	0.0
27	Bhakkar	10	13	0	0.0
28	Gujranwala	5	4	0	0.0
29	Hafizabad	6	5.5	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	1	2	0	0.0
32	M.B.Din	3	5	0	0.0
33	Gujrat	3	4	0	0.0
34	Jhelum	9	89	0	0.0
35	Chakwal	5	1.75	0	0.0
36	Rawalpindi	0	0	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		163	371.25	5	3.1

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	33.4	16.1
Pakpattan	33.2	16.0
Okara	33.0	15.6
Jhang	32.8	14.4
Toba Tek Singh	32.7	14.1
Chiniot	32.1	14.5
Multan	33.3	15.6
Khanewal	33.7	16.4
Vehari	32.5	15.8
Lodhran	34.0	17.1
AVG	33.1	15.6

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