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دہلی
پست وارننگ اینڈ کنٹرول
آف پیسٹس ماہیگزرا، پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 1ST WEEK OF OCTOBER, 2022.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 1ST Week of September in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 32 districts, infestation is reported on Sorghum Crop from 19 district and infestation is reported on Millet Crop from 03 districts.

Navin
10/10/22
Deputy Director of Agri. (QCP) Hqr
For DIRECTOR GENERAL

No. *11723-29* /DGA (PW&QCP)

Dated: *10-10-2022*

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 1ST 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	0.82	10.00	0.13	11.81	0.25	11.66	Increasing
2	Fall Armyworm	42.19	-	46.71	-	41.96	-	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	1.97	12.92	1.12	10.98	0.64	15.92	Increasing
2	Fall Armyworm	12.49	-	12.09	-	11.46	-	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	0.61	0.00	0.00	0.00	0.50	-
2	Fall Armyworm	4.85	-	7.93	-	2.48	-	Decreasing

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 1ST 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	34	183	34	100.0
2	R.Y.Khan	10	16	10	100.0
3	Khanewal	20	55	19	95.0
4	Sheikhupura	14	47	13	92.9
5	Rawalpindi	18	5	16	88.9
6	Sargodha	10	14	8	80.0
7	Bhakkar	4	5	3	75.0
8	Khushab	6	4.75	4	66.7
9	Bahawalpur	42	328	26	61.9
10	Vehari	16	56	9	56.3
11	TTSingh	15	30.5	8	53.3
12	Layyah	10	19	5	50.0
13	Attock	4	2.3	2	50.0
14	Multan	25	153	12	48.0
15	Lahore	17	117	8	47.1
16	Jhang	13	34	6	46.2

17	Chiniot	33	92	14	42.4
18	D.G.Khan	50	64	20	40.0
19	Mianwali	11	15	4	36.4
20	Bahawalnagar	15	41	5	33.3
21	M.Garh	24	71	8	33.3
22	Pakpattan	37	147	12	32.4
23	Sahiwal	50	244	14	28.0
24	Gujrat	11	13.25	3	27.3
25	Okara	37	193	10	27.0
26	Faisalabad	101	276.8	21	20.8
27	M.B. Din	10	25	2	20.0
28	Kasur	33	125	6	18.2
29	Chakwal	14	7.125	2	14.3
30	Rajanpur	15	15	2	13.3
31	Nankana Sahib	8	28	1	12.5
32	Jhelum	17	35	1	5.9
33	Ferozwala	0	0	0	0.0
34	Gujranwala	3	5	0	0.0
35	Hafizabad	0	0	0	0.0
36	Sialkot	3	12	0	0.0
37	Narowal	0	0	0	0.0
G.TOT 2022		730	2478.73	308	42.2

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON SORGHUM CROP FOR 1ST 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	2	4	2	100.0
2	R.Y.Khan	25	25	12	48.0
3	Multan	25	38	9	36.0
4	Khanewal	91	164	32	35.2
5	Lodhran	11	11	3	27.3
6	M.Garh	33	38	8	24.2
7	Okara	29	60	7	24.1
8	D.G.Khan	33	43	7	21.2
9	Pakpattan	24	28	5	20.8
10	Vehari	15	15	3	20.0
11	Sahiwal	44	54	7	15.9
12	M.B.Din	8	14	1	12.5
13	Chiniot	47	94	5	10.6
14	Khushab	38	95	4	10.5
15	Chakwal	34	23.125	3	8.8
16	Jhang	12	41	1	8.3
17	Nankana Sahib	28	55.5	2	7.1
18	Kasur	28	72	1	3.6
19	Faisalabad	65	65.7	2	3.1
20	Bahawalnagar	0	0	0	0.0
21	Rajanpur	5	7	0	0.0
22	Layyah	46	46	0	0.0
23	T.T.Sing	15	14	0	0.0
24	Lahore	19	66	0	0.0

25	Sheikhupura	44	60	0	0.0
26	Ferozwala	0	0	0	0.0
27	Sargodha	14	16	0	0.0
28	Minawali	25	48	0	0.0
29	Bhakkar	0	0	0	0.0
30	Gujranwala	14	22	0	0.0
31	Hafizabad	26	43.25	0	0.0
32	Sialkot	63	85.5	0	0.0
33	Narowal	27	18	0	0.0
34	Gujrat	9	14	0	0.0
35	Jhelum	8	8.5	0	0.0
36	Rawalpindi	3	1.1	0	0.0
37	Attock	3	3	0	0.0
G.TOT 2022		913	1392.68	114	12.5

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MILLET CROP FOR 1ST 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	39	5	21.7
2	Khushab	6	21	1	16.7
3	Layyah	26	78	2	7.7
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	1	15	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	10	12	0	0.0
16	Rajanpur	0	0	0	0.0
17	Faisalabad	4	21	0	0.0
18	T.T.Sing	0	0	0	0.0
19	Jhang	0	0	0	0.0
20	Chiniot	0	0	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	2	3	0	0.0
27	Bhakkar	25	72.7	0	0.0
28	Gujranwala	22	26	0	0.0
29	Hafizabad	8	9.5	0	0.0
30	Sialkot	0	0	0	0.0
31	Narowal	1	5	0	0.0
32	M.B.Din	0	0	0	0.0

33	Gujrat	0	0	0	0.0
34	Jehlum	15	16	0	0.0
35	Chakwal	21	10.75	0	0.0
36	Rawalpindi	1	0.2	0	0.0
37	Attock	0	0	0	0.0
G.TOT 2022		165	329.15	8	4.8

FORECAST FOR THE NEXT WEEK:

DISTRICTS	TEMPERATURE	
	Avg.Max. Temp (°C)	Avg. Min. Temp (°C)
Sahiwal	34.3	19.3
Pakpattan	34.1	19.0
Okara	34.0	18.7
Jhang	34.8	20.3
Toba Tek Singh	33.6	19.8
Chiniot	32.6	19.1
Multan	35.0	20.8
Khanewal	35.1	19.0
Vehari	34.9	18.5
Lodhran	35.4	20.6
AVG	34.4	19.5

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