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نظامت اعلیٰ
(پست وارننگ اینڈ کوالٹی کنٹرول
آف پیسٹی سائینسز) پنجاب لاہور

Subject: **PEST SITUATION REPORT OF FALL ARMYWORM FOR THE 2nd WEEK OF APRIL, 2023.**

As per surveillance reports of Pest Warning Wing, the infestation of Fall Armyworm, *Spodoptera frugiperda*, has been observed during 2ND week of April in various Districts of Punjab. (Summary of report annexed).

At present the pest infestation is reported on Maize Crop from 20 districts which is expected to increase in coming period.


Assistant Director of Agri. (PP) Hqr
For Director General

No. 3257-63 /DGA (PW&QCP)

Dated: 17-09-2023

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 2ND WEEK OF APRIL, 2023

| Pest Situation of Maize Pests | | | | | | | | |
|-------------------------------|------------------|-------------------|------|--------------------|------|-------------------------|------|------------|
| | | %age of spots | | | | | | |
| Sr. No. | Pest Name | Current Week 2023 | | Previous week 2023 | | Corresponding week 2022 | | Remarks |
| | | AETL | BETL | AETL | BETL | AETL | BETL | |
| 1 | Maize Stem Borer | 0.00 | 6.73 | 0.00 | 8.16 | 0.77 | 8.62 | - |
| 2 | Fall Armyworm | 9.73 | - | 7.10 | - | 15.54 | - | Increasing |

| Pest Situation of Sorghum Pests | | | | | | | | |
|---------------------------------|------------------|-------------------|------|--------------------|------|-------------------------|------|---------|
| | | %age of spots | | | | | | |
| Sr. No. | Pest Name | Current Week 2023 | | Previous week 2023 | | Corresponding week 2022 | | 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 | 0.00 | - | 0.00 | - | 0.00 | - | - |

| Pest Situation of Millet Pests | | | | | | | | |
|--------------------------------|------------------|-------------------|------|--------------------|------|-------------------------|------|---------|
| | | %age of spots | | | | | | |
| Sr. No. | Pest Name | Current Week 2023 | | Previous week 2023 | | Corresponding week 2022 | | 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 | 0.00 | - | 0.00 | - | 0.00 | - | - |

DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON MAIZE CROP FOR 2ND WEEK OF APRIL, 2023

| Sr. # | District | No. of Spots Visited | Area Surveyed (Acres) | No. of Hot Spots of Fall Armyworm | % age of Hot Spots of Fall Armyworm |
|-------|-----------|----------------------|-----------------------|-----------------------------------|-------------------------------------|
| 1 | D.G.Khan | 10 | 14 | 4 | 40.0 |
| 2 | Bhakkar | 5 | 7.5 | 2 | 40.0 |
| 3 | Khanewal | 32 | 144 | 12 | 37.5 |
| 4 | Layyah | 21 | 62 | 7 | 33.3 |
| 5 | Narowal | 3 | 3.5 | 1 | 33.3 |
| 6 | R.Y.Khan | 15 | 52 | 4 | 26.7 |
| 7 | Sargodha | 51 | 121.5 | 12 | 23.5 |
| 8 | Gujrat | 6 | 48 | 1 | 16.7 |
| 9 | Multan | 34 | 251 | 5 | 14.7 |
| 10 | Kasur | 23 | 123 | 3 | 13.0 |
| 11 | M.Garh | 39 | 146 | 5 | 12.8 |
| 12 | Okara | 24 | 192 | 3 | 12.5 |
| 13 | Hafizabad | 8 | 39 | 1 | 12.5 |

| | | | | | |
|-------------------|---------------|------------|-------------|-----------|------------|
| 14 | Pakpattan | 49 | 174 | 5 | 10.2 |
| 15 | Jhang | 21 | 101 | 2 | 9.5 |
| 16 | Lodhran | 56 | 1107 | 4 | 7.1 |
| 17 | Vehari | 45 | 229 | 3 | 6.7 |
| 18 | Bahawalnagar | 16 | 130 | 1 | 6.3 |
| 19 | Sahiwal | 36 | 309 | 2 | 5.6 |
| 20 | Chiniot | 60 | 383 | 1 | 1.7 |
| 21 | Bahawalpur | 23 | 278 | 0 | 0.0 |
| 22 | Rajapur | 10 | 14 | 0 | 0.0 |
| 23 | Lahore | 23 | 167 | 0 | 0.0 |
| 24 | Sheikhupura | 25 | 111 | 0 | 0.0 |
| 25 | Nankana Sahib | 1 | 4 | 0 | 0.0 |
| 26 | Ferozwala | 0 | 0 | 0 | 0.0 |
| 27 | Gujranwala | 25 | 235 | 0 | 0.0 |
| 28 | Wazirabad | 1 | 2 | 0 | 0.0 |
| 29 | Sialkot | 16 | 138 | 0 | 0.0 |
| 30 | M.B. Din | 5 | 20.25 | 0 | 0.0 |
| 31 | Faisalabad | 74 | 273.8 | 0 | 0.0 |
| 32 | TTSingh | 29 | 160 | 0 | 0.0 |
| 33 | Khushab | 0 | 0 | 0 | 0.0 |
| 34 | Mianwali | 8 | 16.4 | 0 | 0.0 |
| 35 | Jehlum | 0 | 0 | 0 | 0.0 |
| 36 | Chakwal | 4 | 1 | 0 | 0.0 |
| 37 | Rawalpindi | 0 | 0 | 0 | 0.0 |
| 38 | Attock | 4 | 2.3 | 0 | 0.0 |
| G.TOT 2023 | | 802 | 5043 | 78 | 9.7 |

**DISTRICT WISE PEST SCOUTING REPORT OF FALL ARMYWORM ON
SORGHUM CROP FOR 2ND WEEK OF APRIL, 2023**

| Sr. # | District | No. of Spots Visited | Area Surveyed (Acres) | No. of Hot Spots of Fall Armyworm | % age of Hot Spots of Fall Armyworm |
|-------|--------------|----------------------|-----------------------|-----------------------------------|-------------------------------------|
| 1 | Multan | 0 | 0 | 0 | 0.0 |
| 2 | Khanewal | 0 | 0 | 0 | 0.0 |
| 3 | Vehari | 0 | 0 | 0 | 0.0 |
| 4 | Lodhran | 0 | 0 | 0 | 0.0 |
| 5 | Sahiwal | 0 | 0 | 0 | 0.0 |
| 6 | Pakpattan | 0 | 0 | 0 | 0.0 |
| 7 | Okara | 0 | 0 | 0 | 0.0 |
| 8 | Bahawalpur | 0 | 0 | 0 | 0.0 |
| 9 | Bahawalnagar | 0 | 0 | 0 | 0.0 |
| 10 | R.Y.Khan | 0 | 0 | 0 | 0.0 |
| 11 | D.G.Khan | 0 | 0 | 0 | 0.0 |
| 12 | M.Garh | 0 | 0 | 0 | 0.0 |

| | | | | | |
|-------------------|---------------|-----------|-----------|----------|-------------|
| 13 | Rajanpur | 0 | 0 | 0 | 0.0 |
| 14 | Layyah | 0 | 0 | 0 | 0.0 |
| 15 | Faisalabad | 0 | 0 | 0 | 0.0 |
| 16 | T.T.Sing | 0 | 0 | 0 | 0.0 |
| 17 | Jhang | 0 | 0 | 0 | 0.0 |
| 18 | Chiniot | 0 | 0 | 0 | 0.0 |
| 19 | Lahore | 4 | 12 | 0 | 0.0 |
| 20 | Kasur | 0 | 0 | 0 | 0.0 |
| 21 | Sheikhupura | 0 | 0 | 0 | 0.0 |
| 22 | Ferozwala | 0 | 0 | 0 | 0.0 |
| 23 | Nankana Sahib | 0 | 0 | 0 | 0.0 |
| 24 | Sargodha | 0 | 0 | 0 | 0.0 |
| 25 | Khushab | 0 | 0 | 0 | 0.0 |
| 26 | Minawali | 0 | 0 | 0 | 0.0 |
| 27 | Bhakkar | 0 | 0 | 0 | 0.0 |
| 28 | Gujranwala | 5 | 9 | 0 | 0.0 |
| 29 | Hafizabad | 0 | 0 | 0 | 0.0 |
| 30 | Wazirabad | 0 | 0 | 0 | 0.0 |
| 31 | Sialkot | 0 | 0 | 0 | 0.0 |
| 32 | Narowal | 0 | 0 | 0 | 0.0 |
| 33 | M.B.Din | 5 | 12 | 0 | 0.0 |
| 34 | Gujrat | 23 | 17.5 | 0 | 0.0 |
| 35 | Jhelum | 0 | 0 | 0 | 0.0 |
| 36 | Chakwal | 0 | 0 | 0 | 0.0 |
| 37 | Rawalpindi | 0 | 0 | 0 | 0.0 |
| 38 | Attock | 3 | 3 | 0 | 0.0 |
| G.TOT 2023 | | 40 | 54 | 0 | 0.00 |

FORECAST FOR THE NEXT WEEK:

| DISTRICTS | TEMPERATURE | |
|----------------|---------------------|---------------------|
| | Avg. Max. Temp (°C) | Avg. Min. Temp (°C) |
| Sahiwal | 35.6 | 21.5 |
| Pakpattan | 35.3 | 21.2 |
| Okara | 35.1 | 21.0 |
| Jhang | 34.4 | 20.1 |
| Toba Tek Singh | 34.1 | 19.8 |
| Chiniot | 35.4 | 19.6 |
| Multan | 35.8 | 22.3 |
| Khanewal | 36.8 | 21.4 |
| Vehari | 36.5 | 21.2 |
| Lodhran | 36.2 | 23.0 |
| AVG | 35.5 | 21.1 |

Optimum temperature requirement for rapid multiplication of Fall Army Worm is 25-35 °C.

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