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**DIRECTORATE GENERAL, PEST WARNING & QCP, PUNJAB**  
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**PEST ALERT: COTTON CROP IN THIRD WEEK JUNE 2020**

Pest situation trends of cotton crop from pest surveillance reports remained as under during the previous week:

**PEST SITUATION TREND OF COTTON CROP**

| S/No. | Pest Name        | %AGE OF SPOTS |       |               |       |                                 |       | Remarks    |
|-------|------------------|---------------|-------|---------------|-------|---------------------------------|-------|------------|
|       |                  | Current Week  |       | Previous Week |       | Corresponding Week of Last Year |       |            |
|       |                  | AETL          | BETL  | AETL          | BETL  | AETL                            | BETL  |            |
| 1     | Whitefly         | 1.26          | 51.13 | 0.04          | 35.46 | 0.97                            | 41.77 | Increasing |
| 2     | Jassid           | 3.92          | 48.82 | 1.34          | 27.43 | 1.07                            | 33.94 | Increasing |
| 3     | Thrips           | 1.44          | 56.62 | 0.09          | 43.98 | 0.38                            | 43.95 | Increasing |
| 4     | Mealy Bug        | 0.04          | -     | 0.04          | -     | 0.10                            | -     | Stable     |
| 5     | Mites            | 0.00          | 0.96  | 0.00          | 0.62  | 0.00                            | 0.41  | Decreased  |
| 6     | Dusky Cotton Bug | 0.83          | 18.16 | 0.67          | 13.51 | 0.00                            | 1.66  | Increasing |
| 7     | Pink Bollworm    | 0.87          | 7.4   | 0.40          | 6.42  | 0.17                            | 4.90  | Increasing |
| 8     | Heliothus        | 0.13          | 2.96  | 0.04          | 1.38  | 0.07                            | 0.55  | Increasing |
| 9     | Spotted Bollworm | 0.00          | 0.09  | 0.00          | 0.04  | 0.00                            | 0.03  | Increasing |
| 10    | Armyworm         | 3.01          | -     | 1.69          | -     | 0.97                            | -     | Increasing |
| 11    | CLCUV            | 0.04          | -     | 0.00          | -     | 0.07                            | -     | Increasing |

The spots above ETL have been reported in different area of Cotton Zone as under:

| 1. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF COTTON WHITEFLY  |              |            |       |                  |            |
|--|--------------|------------|-------|------------------|------------|
| S/No.  | Tehsil       | % Hot Spot | S/No. | Tehsil           | % Hot Spot |
| 1  | Chichawatni  | 15.6       | 8     | Burewala         | 5.0        |
| 2  | Hasilpur     | 11.3       | 9     | Depalpur         | 4.2        |
| 3  | Pak Pattan   | 10.0       | 10    | Sahiwal          | 3.3        |
| 4  | Arifwala     | 8.3        | 11    | Bahawalnagar     | 2.5        |
| 5  | Okara        | 6.7        | 12    | Sadiqabad        | 2.2        |
| 6  | Vehari       | 5.0        | 13    | Chishtian        | 2.0        |
| 7  | Mailsi       | 5.0        |       |                  |            |
| 2. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF JASSID           |              |            |       |                  |            |
| 1  | Muzaffargarh | 18.6       | 9     | Arifwala         | 8.3        |
| 2  | Chichawatni  | 17.8       | 10    | Depalpur         | 8.3        |
| 3  | Renala Khurd | 12.5       | 11    | Bahawalpur       | 8.2        |
| 4  | Multan       | 11.9       | 12    | Hasilpur         | 7.5        |
| 5  | Shujabad     | 11.4       | 13    | Burewala         | 7.5        |
| 6  | Sahiwal      | 10.0       | 14    | Liaquatpur       | 7.5        |
| 7  | R.Y. Khan    | 10.0       | 15    | Jalalpur Pirwala | 7.4        |
| 8  | Jampur       | 10.0       | 16    | Okara            | 6.7        |
| 3. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF THRIPS           |              |            |       |                  |            |
| 1  | Chishtian    | 14.3       | 8     | Fort Abbas       | 5.0        |
| 2  | Hasilpur     | 9.4        | 9     | Minchanabad      | 5.0        |
| 3  | Bahawalnagar | 7.5        | 10    | Chichawatni      | 4.4        |
| 4  | Haroonabad   | 6.3        | 11    | Arifwala         | 4.2        |
| 5  | Khanewal     | 5.0        | 12    | Depalpur         | 4.2        |
| 6  | Burewala     | 5.0        | 13    | Sahiwal          | 3.3        |
| 7  | Kehror Pacca | 5.0        | 14    | Vehari           | 2.5        |
| 4. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF MEALY BUG        |              |            |       |                  |            |
| 1  | Bahawalpur   |            |       |                  | 1.6        |
| 5. NO HOT SPOTS OF MITES IN ANY TEHSIL OF PUNJAB           |              |            |       |                  |            |
| 6. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF DUSKY COTTON BUG |              |            |       |                  |            |
| 1  | Chishtian    | 12.2       | 4     | Minchanabad      | 7.5        |

| S/No.  | Tehsil       | % Hot Spot | S/No. | Tehsil      | % Hot Spot |
|--|--------------|------------|-------|-------------|------------|
| 2  | Bahawalnagar | 10.0       | 5     | Haroonabad  | 6.3        |
| 3  | Fort Abbas   | 10.0       |       |             |            |
| <b>7. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF PBW</b>                     |              |            |       |             |            |
| 1  | Okara        | 6.7        | 8     | Khanewal    | 2.5        |
| 2  | Mian Channu  | 6.5        | 9     | Kabirwala   | 2.5        |
| 3  | Mailsi       | 5.0        | 10    | Vehari      | 2.5        |
| 4  | Kehror Pacca | 5.0        | 11    | Burewala    | 2.5        |
| 5  | Jampur       | 4.0        | 12    | Lodhran     | 2.3        |
| 6  | BahawalPur   | 3.3        | 13    | Hasilpur    | 1.9        |
| 7  | Shujabad     | 2.9        | 14    | Alipur      | 1.7        |
| <b>8. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF ARMY WORM</b>               |              |            |       |             |            |
| 1  | Chichawatni  | 42.2       | 8     | Sahiwal     | 10.0       |
| 2  | Renala Khurd | 25.0       | 9     | Mian Channu | 8.7        |
| 3  | Depalpur     | 16.7       | 10    | Multan      | 7.1        |
| 4  | Okara        | 13.3       | 11    | Khanewal    | 5.0        |
| 5  | Jhang        | 13.3       | 12    | Pak Pattan  | 5.0        |
| 6  | Hasilpur     | 11.3       | 13    | Minchanabad | 5.0        |
| 7  | Gojra        | 10.3       | 14    | Lodhran     | 4.7        |
| <b>9. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF AMERICAN BOLL WORM</b>      |              |            |       |             |            |
| 1  | Pak Pattan   | 5.0        | 3     | Khanpur     | 2.3        |
| 2  | Depalpur     | 4.2        |       |             |            |
| <b>10. NO HOT SPOTS OF SPOTTED BOLL WORM IN ANY TEHSIL</b>               |              |            |       |             |            |
| <b>11. TEHSIL WISE PERCENTAGE OF HOT SPOTS OF COTTON LEAF CURL VIRUS</b> |              |            |       |             |            |
| 1  | Hasilpur     | 4.2        |       |             | 1.9        |

#### **GENERAL RECOMMENDATIONS PEST MANAGEMENT OF COTTON CROP**

1. Conduct regular pest scouting twice a week for cotton insect pests.
2. Control the pest without delay when population reaches ETL.
3. Use of *Chrysoperla* @ 80-90 cards/acre for sucking pests and *Trichogramma* cards 5-6 for bollworms.
4. Eradicate weeds in and outside the field especially nearby water channels and fellow lands.
5. Manage the pest on alternate host plants.
6. Avoid water excess or stress to the crop.
7. Use recommended pesticides & dose and repeat with different pesticide chemistry when needed.

#### **ECONOMIC THRESHOLD LEVELS OF COTTON INSECT PESTS**

| Insect Pests       | Economic Threshold  | Insect Pests     | Economic Threshold                  |
|--------------------|---|------------------|-------------------------------------|
| Jassid             | 1 Adult or Nymph per leaf   | Whitefly         | 5 Adults or Nymphs or both per Leaf |
| Thrips             | 8-10 Adults or Nymphs per Leaf  | Mealy Bug        | On Damage Appearance                |
| Mites              | On Damage Appearance  | Aphid            | Visible Damage on Top Terminals.    |
| Spotted Boll Worm  | 3 Larvae/ 25 Plants.  | Pink Boll Worm   | 5; Larvae /100 Bolls.               |
| American Boll Worm | 5 Brown Eggs or 3 Small Larvae or Both 5 per 25 Plants (BT or Non-BT Varieties) | Dusky Cotton Bug | 10 per Leaf/Bud                     |
| Army Worm          | (On Appearance)   |                  |                                     |

- Details of Hotspots and Below ETL spots can be seen from the reports already emailed by DG AE office to DDAs and ADAs of Agri. Extension wing & from concerned ADAs (PP) and AOs (PP).
- Action taken reports of hot spots from AD AE should be furnished regularly to concerned DDA and DA (Ext) as well as information to the ADAs (PP) of the District without delay.

  
 ( Dr Muhammad Anjum Ali )  
**DIRECTOR GENERAL**

**CC:**

1. PSO to Minister for Agriculture Punjab, Lahore.
2. PO to Secretary to Government of the Punjab, Agriculture Department, Lahore.
3. Additional Secretary (Task Force) to Government of the Punjab, Agriculture Department, Lahore.
4. Director General Agriculture (Extension & AR) Punjab, Lahore.
5. Chairman PCPA & Crop Life Pakistan Multan and Karachi.
6. Director of Agriculture (Information) Punjab, Lahore.
7. Directors of Agriculture (Extension) and DDAs (PP) of Cotton Zone.
8. Deputy Director of Agriculture (Extension) / Assistant Director (PW) / ADA (Ext) Cotton Zone in Punjab.