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Weekly Report on Management of Important Cotton Pests on Alternate Host Plants in Cotton Districts

Management of Whitefly, Mealy Bug, Dusky Bug

Directorate General Pest Warning &
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Lahore

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Total Area Visited: Total 9392 km were surveyed in 14 districts while in case of ornamental plants 65 Kanals were surveyed. (Table I).

Dusky Cotton Bug: It was observed on 67 trees, 53 weeds and 13 ornamental plants in districts of Multan, Khanewal, Vehari, Lodhran, Sahiwal, Bahawalpur, Bahawalnagar. Farmers were advised to adopt plant protection measures as under;

1. Bury infested plants and weeds carefully.
2. Keep cotton sticks away from the water channels.
3. Keep field crops, vegetables, ornamental plants, orchards, field bunds and water channels free from weeds.
4. Eradicate weeds at their early stage.
5. Remove alternate host plants.
6. Use effective insecticides at recommended doses (Table 2).

Mealy Bug: It was observed in traces on 5 weeds and 3 ornamental plants in district Sahiwal, Bahawalpur and Bahawalnagar. Farmers should monitor its population on every host plant and adopt appropriate control measures in consultation with local field staff of Pest Warning or Extension Wings of Agriculture Department.

1. Apply Mineral Oil (diver) along with recommended insecticides on ornamental plants, field crops and vegetables for its effective control (Table 2).
2. Bury infested plants and weeds carefully.
3. Keep cotton sticks away from the water channels.
4. Keep field crops, vegetables, ornamental plants, orchards, field bunds and water channels free from weeds.
5. Eradicate weeds at their early stages.
6. Uproot carefully the mealy bug infested plants and bury them.
7. Prune the shrubs and trees infested with Mealy bug.

Whitefly: It was observed on 2 Tree and 15 weeds and 1 ornamental plants in district Khanewal and Bahawalpur. Farmers were recommended following measures on the spot;

1. Eradicate weeds which are acting as alternate host plants of Whitefly.
2. Motivate farmers to keep whitefly on alternate hosts at the lower ebb.
3. Avoid excessive use of Nitrogen in vegetables and other crops.
4. Install cards of green lacewing (*Chrysoperla* sp.) in the field crop as biological control agent. Farmers may get cards from Biological Control Labs of Agri. Extension Wing at Vehari, Sahiwal, Faisalabad, T.T.Singh, Jhang, M.Garh, Layyah, Pakpattan and Okara.
5. Apply pesticides as last resort as given in the table 2.

| Table 2: Pesticides recommended against Dusky Bug, Mealy Bug and Whitefly of Cotton | | |
|--|--|------------------|
| S# | Common Name | Dose/Acre |
| Dusky Cotton Bug | | |
| 1 | Fipronyl | 400 ML |
| 2 | Triazophos 40 EC | 1000 ML |
| 3 | Lambda Cyhalothrin 2.5EC | 330 ML |
| 4 | Bifenthrin 10 EC | 300 ML |
| Mealy Bug | | |
| 1 | Imidacloprid 70 WG/ SC | 72 -75 GM |
| 2 | Dimethoate 40% + Diver (Mineral oil) 97% | 200 + 1000 ML |
| 3 | Profenofos50 EC+ Diver (Mineral oil) 97% | 200+1000 ML |
| 4 | Profenofos 50 EC | 800 ML |
| 5 | Chlorpyrifos 40 EC | 1000 ML |
| 6 | Chlorpyrifos 40 EC+ Diver (Mineraloil) 97% | 200+1000 ML |
| 7 | Carbosulfan 20EC | 500 ML |
| 8 | Methidathion 40 EC | 400 ML |
| 9 | Methomyl 42SP | 300 GM |
| 10 | Profenofos + Lambda 61.5 EC | 500 ML |
| Whitefly | | |
| 1 | Imidacloprid 70 WG/ SC | 72 -75 G |
| 2 | Imidacloprid 20 SL | 250 ML |
| 3 | Diafenthiuron 500 SC | 250 ML |
| 4 | Buprofezin 25 WP | 600 G |
| 5 | Acetamiprid 20 %SL | 125 ML |
| 6 | Acetamiprid 20SP | 125 G |
| 7 | Pyriproxyfen 10.8 SC | 500 ML |
| 8 | Spirotetramate 240SC | 125ML |