

ToRs. Guidelines to minimize the impact of pesticides on bees:

• Pesticides issues:

1. The dossier for pesticide registration should include risk assessment studies for intended register pesticides on beneficial insects (pollinators).
2. Re-evaluate regularly the risk assessment studies for the already registered pesticides to confirm their compliance.
3. Planning for running network monitoring program for pesticide residues in honey and honey bees products.
4. Adding bees repellent material to the sprayed insecticides when

treating plant source during
pollination

Beekeepers

1. Coordination between farmers and beekeepers should be in adequate time before pesticide application
2. Colonies and bee yards should be marked by the beekeeper and include any contact information requested by the farmer
3. The colonies should be placed without interfere with crop management and to reduce the likelihood of exposure of hives to pesticides
4. The duration of stay for the colonies and when they placed

will occur (identify a window during bloom when pesticide exposure is least likely)

5. Identification of temporary holding areas, if available, where colonies relocated during pesticide applications,

- **Responsibilities of the farmer**

1. The farmer should provide a list of pesticides products intended to be used while colonies are located in/adjacent to fields, if requested

2. Pesticides application should be before or after the flowering period if possible

3. Prohibition of the dispose of the remainder of the pesticide or washing pesticide equipment's in water sources
4. Disposal of pesticide containers should be done in safe way from the bees
5. Beekeeper should be notified early before spraying at least 48 hours, in addition to the type of the applied pesticides.
6. Use only the registered / recommended pesticides within according their recommendations limits
7. Use the recommended natural materials as much as possible

8. Use methods of integrated pest and disease management if possible or available in the country

Recommendation :

It is important to consider that the impact of pesticides on environment and pollinators can not be reduced without sharing the responsibilities between the concerned parties (government, farmers, beekeepers, pesticides producers).