

Technical Workshop on Locusts in Caucasus and Central Asia (CCA)
Bishkek, Kyrgyzstan, 12-16 November 2012
Background documentation: Monographs, E-Committee on documentation, Video tutorial on locust spraying

- Item 10 of the Provisional Agenda -

Monographs on locust pests in Caucasus and Central Asia

As per Activity 2.2 of the Roadmap for the implementation of the “Five-year Programme to improve national and regional locust management in CCA”, it was envisaged to prepare monographs on the three CCA locust species under the general guidance and coordination of A. Latchininsky. This activity is funded against the FAO Regular Programme.

The following scientists have been identified and recruited in December 2011 to write the monographs:

- Monograph on *Dociostaurus maroccanus* (Thunberg 1815), the Moroccan Locust (DMA): A. Latchininsky;
- Monograph on *Locusta migratoria* (Linnaeus 1758), the Asian Migratory Locust (LMI): V. Kambulin (Kazakhstan) and F. Gapparov (Uzbekistan) ;
- Monograph on *Calliptamus italicus* (Linnaeus 1758), the Italian Locust (CIT): M. Sergeev (Russia) and M. Childebaev (Kazakhstan) .

Numerous other specialists contribute to the monographs, in particular, K. Artokhin (Russia), I. Temreshev (Kazakhstan), E. Abashidze (Georgia), and E. Kokanova (Turkmenistan).

As agreed, the table of contents of the three monographs was prepared by the authors and reviewed by the coordinator, and then submitted to FAO for comments (March 2012). As far as possible, it was tried to harmonize the presentation and table of contents of the three monographs. The language of the first version of the three monographs is Russian. First drafts of the monographs should be completed by the end of 2012.

Translation into English will be made after the first draft of the monograph is ready, in 2013 and/or 2014 (depending on funds availability).

E-Committee on documentation

The “Five-year Programme to improve national and regional locust management in CCA”, as per Activity 2.2 of the Roadmap for its implementation, envisaged the preparation of lists of the most important publications/documents on the three CCA locust species. This activity is funded against the USAID project (GCP/INT/134/USA).

Based on the *Russian Bibliography on Orthopteroid Insects*, prepared by A. Latchininsky in 2011 and available on the FAO website “Locust Watch in CCA”, and its recent updates, such lists were compiled by the members of the E-Committee on documentation: A. Latchininsky (FAO, Chair), V. Kambulin (Kazakhstan), F. Gapparov (Uzbekistan), M. Sergeev (Russia), and E. Abashidze (Georgia).

The list for the Asian Migratory Locust contains over 600 entries; the list for the Italian Locust contains over 200 entries, and the list for the Moroccan Locust contains about 150 entries.

The next step will be to:

- Agree on a short list of the most important publications (by the end of 2012);
- Prepare short abstracts in Russian for the selected publications, which, if possible, will subsequently be scanned and made available for countries on the FAO website “Locust Watch in CCA” (by the end of 2012);
- Translate the abstracts in English and publish them on the FAO website “Locust Watch in CCA” (2013).

Video tutorial on locust spraying in Ultra-Low Volume formulation

With the overall objective to develop the use of Ultra-Low Volume (ULV) formulations for pesticides and related spraying technique in CCA, the “Five-year Programme to improve national and regional locust management in CCA” envisaged the preparation of a video tutorial on ULV locust spraying (activity 4.2.1 of the Roadmap for its implementation). This activity is funded against the USAID project (GCP/INT/134/USA). The objective is to have an audiovisual support for future training workshops in CCA countries. The preparation of a video tutorial implies two steps: first, the shooting/recording of images and second their editing with the required soundtrack.

It had been decided that such video would be made during field operations carried out by the National Center for Locust Control (CNLAA) of Morocco against the Moroccan Locust. Shooting of images was therefore made by a cameraman in June 2012 at the occasion of the internship organized in the country to the benefit of a Kazakh Plant Protection Specialist.

In total, four CDs were recorded, both in the National Center (Agadir) and in the field (Askaoun - province of Taroudant, southern side of the High Atlas mountains- and Tiznit). They included images on ULV locust spraying but many other aspects of locust management were also recorded, as follows:

- Campaign management;
- Locust survey techniques and operations (purpose, equipment, organization, standard survey forms, survey types, methods, itinerary, locust collection, dissection and conservation, density assessment, real time data transmission by radio);
- Locust control techniques and operations using pesticides in ULV formulation (basic principles, equipment including sprayers and protective clothing, weather conditions required for ULV spraying, calibration of sprayers, quality control of spraying operations, evaluation of mortality, equipment maintenance);
- Preparation of locust survey and control teams (vehicles, survey and control equipment, camping kits, other), identification and installation of camps;
- Use of maps and GPS devices;
- Pesticide management (pesticides stocks, empty containers, use of drum-crusher for further disposal of empty containers);
- Information management and preparation of standard monthly bulletin on locust situation and management.

Next step will be to edit the images recorded, with the required soundtrack. This is planned for Year 2 of the implementation of the Five-year Programme (2013).