eLocust

Field Guide

**For use in the field by
locust survey and control officers**

Keith Cressman
FAO Desert Locust Information Service, Rome

eLocust: Setup

Garmin GPS

- Setup menu/interface – NMEA/NMEA, NMEA 0183 2.0, 4800 baud
- Setup menu/navigation – dd mm ss.s

Psion – RealMaps

Special/GPS Moving Map –
- baud rate: 4800
- NMEA Word: *
- Debug? No
- Ignore Errors? Yes
- Extra GPS Info? Yes
- Info Position: Vertical
- Record Log: No

Psion – eLocust

View Menu –
- Check show toolbar
- Check show scrollbars
- Check show record info

Options Menu –
- Check show memo text (in General)
- Check use aliases
- Check use special formats
- Check auto recalc

eLocust: Automatic transfer of GPS coordinates

To automatically enter coordinates into eLocust (at the survey stop or when driving, if you see some interesting vegetation but do not stop):

1. Connect Psion to GPS
2. Turn both on (make sure GPS has view of satellites!)
3. Start eLocust
4. Start RealMaps
5. In RealMaps, start GPS Moving Map (ctrl-G; or press MENU Key, then select Special menu)
6. After your position is shown on the map (with triangle and coordinates in box), stop GPS Moving Map (ESCAPE Key) – your coordinates are now in the Psion's memory
7. Switch to eLocust (SHIFT-K)
8. Go to the current record, tap once with the stylus pen on Date field (to enter date & time), Latitude field (to enter coordinates) and Longitude field (to enter coordinates).

eLocust: Data entry at survey/control location

Location, envrionmental and locust data and comments should be entered into eLocust at each location before moving to the next stop:

1. Upon arriving at the survey or control location, enter the date and GPS coordinates (see instructions above)
2. Leave eLocust and the GPS in the vehicle (in the shade) while you go and collect the data in the field
3. Return to the vehicle. Enter the data by filling out the relevant fields (tap once with the stylus pen and make your selection, followed by ENTER)
4. Move from field to field using the stylus pen and the scroll bar on the right
5. Type in any comments, followed by SAVE
6. When you are finished, press ADD (to go to a new (empty) record, ready for the next survey stop)
7. Start the vehicle and drive to the next stop.

This procedure should be done at each stop *before* moving to the next one.

eLocust: Viewing maps and data

eLocust data can be viewed on maps in the RealMaps program:

1. Make sure both eLocust and RealMap programs are open
2. In RealMaps, select the map that you want to view by zooming in (tap the stylus pen on the map location and then tap Zoom (+) icon on left)
3. go to eLocust (SHIFT-K)
4. In eLocust, press MENU Key and select Options Menu: Show data
5. In the box that appears, select what to view on the map in Show 1 and Show 2, then OK
    * To show only points: select "nothing" in Show 1 and Show 2
    * To show vegetation conditions: select "vegetation" in Show 1 and "nothing" in Show 2
    * To show locust infestations: select "Locusts Present?" in Show 1 and "nothing" in Show 2
6. Another box will appear, if:
    a. You selected "nothing" and "nothing" above, then chose Point in Show What?, then OK
    b. Not, then chose Icon+Text in Show What?, then OK

To see more of the map in RealMaps, use the stylus pen and slowly drag it across the screen.

eLocust: Exporting and printing data

eLocust data can be exported for printing, sending by email, or entering data into the PC.

As a spreadsheet file (coordinates are DD.DDDDD):

1. In eLocust, press MENU Key and select Edit Menu: Clip Options
2. Include Fieldnames = Yes
3. select Edit Menu: Copy all Records
4. Press Sheet Icon, MENU Key, File Menu: Create new file
5. Give a name to the new file and select the folder and disk where to save it
6. In the Sheet program, MENU Key and Edit Menu: Paste

The new file can now be transferred to the PC (connect the Psion to your PC with the cable) or you can print the file from the Psion. Note that the coordinates are now in decimal degrees (DD.DDDDD).

As a word file (coordinates are DDMMSS):

1. In eLocust, press MENU Key and File Menu: Export – text
2. Give a name to the new file (*) and select the folder and disk where to save it
3. Field Delimiter = Tab
4. If you want to only export some of the fields, tab Options button and check on/off Include field? Tap Next button for the next field and so on until you finish
5. Turn off special formats – No

(*) file name without extension can be imported into Word; file name with .txt extension can be opened by Opera web browser (if installed on the Psion).

The new file can now be opened in Word and printed, or transferred to the PC and opened in Word there. If you cannot open the file in Word on the Psion, then you may need to import it into Word by creating a new Word file (File Menu: Create New File – give new name and destination folder and drive) and then import the file (File Menu: More – import text file).

For RAMSES:

1. In eLocust, press MENU Key and File Menu: Standard eLocust Export
2. Filter only new records – No (unless you want to export only those records that are new since your last export)
3. Two files will be automatically saved to c:\ on the Psion (eLocust.dbf and eLocust.DBT)
4. Connect the Psion to the PC with the cable, turn on Remote Link – Cable (Tools Menu)
5. On the PC, double-click the My Psion icon and select the two files on the Psion and copy them to the correct directory on the PC for importing into RAMSES.

In order to transfer files from the Psion to the PC, the PsiWin application must already be installed on the PC. The latest version is 2.33 (compatible with Windows 2000) and can be downloaded from:

   http://www.fao.org/NEWS/GLOBAL/locusts/eldown.htm