



Two days Training Program On eLocust3mPro



Government of India

Ministry of Agriculture & Farmer's Welfare

Department of Agriculture & Farmer's Welfare

Directorate of Plant Protection Quarantine & Storage

Locust Warning Organization, Jodhpur-342001 Rajasthan (India)

**Two days Training Program
On eLocust3mPro**

**During
12-13 July, 2023
at**

**Locust Warning Organization,
Jodhpur-342001
Rajasthan (India)**

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1. Introduction:

Locusts are transboundary pests and have significant impact on food security, trade and the economies of many countries throughout the world. Since they can easily spread to other countries and reach epidemic proportions, their management and control require regional and International Coordination and Cooperation.

The Desert Locust (DL) is considered to be the most dangerous of all migratory locust species in the world due to its ability to reproduce rapidly, migrate long distances, and devastation of crops. In order to minimize the frequency, severity, and duration of plagues, the Food and Agriculture Organization (FAO) of the United Nations operates a global early warning system based on the latest technology led to dramatic improvements in data management, analysis, and forecasting.

In order to this, an android based application eLocust3mPro was launched recently and being used by field survey officers of the locust affected countries. A user having basic technical skill of DL can easily use this application. The application contains all relevant data entry column essential to analyze, monitor and forewarning the locust outbreak, upsurge or plague threats. This data is transferred by internet and no activation or subscription charges are required in use of this application. This application is available on Play store of any smart phone.

FAO is promoting use of elocust3mPro during DLCC sessions (Desert Locust Control Committee). The data related to locust activities alongwith various ecological factors can be entered and transmitted on real-time basis. Data can further be analyzed by using a GIS tool “RAMSES”. Based on analysis of the data, an alert/forewarning can be issued to the stakeholders.

Locust Warning Organisation (LWO), Jodhpur is the prime office for locust control in India. There are eleven offices i.e. ten Locust Circle Offices (LCOs) and one Field Station for Investigations on Locust (FSIL) are governed by the LWO, Jodhpur under supervision of Directorate of Plant Protection, Quarantine and Storage, NH-IV, Faridabad (Haryana).

This two days training program based on usage of “eLocust3mPro” application through android phone was specially designed for newly joined technical staff and as refresher training

for existing one. The program was completed under the chairmanship of Dr. N. Sathyanarayana, Joint Director (PP) LC&R, Dte. of PPQ&S Faridabad.

2. Participants & Resource Persons :

In order to skill development of newly joined staff of Locust Warning Organization including 10 Circle offices and 01 FSIL, 32 participants were identified and trained accordingly. These trainees participant are involved in field survey & related activities at their respective field offices and at Headquarter Faridabad. One of the DLIO of India Chandra Shekhar Sharma, APPO/DLIO, Hqr, Faridabad was identified as resource person. A list of trainees/ participants is annexed (**Annexure-I**)

3. Training Program:

Considering the facts that many new comers have joined the locust scheme either their first entry into the Organization system or transfers from other scheme, the training program provide required knowledge and exposure to these new entrants or inexperienced staff in dealing with locust related work.

Therefore, it was decided to organize a training program on use of “eLocust3mPro” app during 12th & 13th July, 2023. Accordingly a detail schedule of training program including date, time for each classroom and field activities was prepared and got approved by the appropriate authorities. A copy of the program is annexed (**Annexure-II**)

Day 1:- 12.07.2023

4. Registration of the participants: The training program began with the registration of participants / resource persons. During the registration, the participants were provided with folder, note pad & pen.

5. Inaugural Session:

1. Inaugural session started with welcome address by Dr. Virendra Kumar, Assistant Director (PP) Locust Warning Organization, Jodhpur. In his welcome address, he encouraged all the participants to adopt participatory approach during the course of training. It was also emphasized that the participants use their practical experience in order

to improve their skill. Then the function has started by the lighting the lamps together with Dr. N. Sathyanarayana, JD (PP) and Dr. Shaloo Ayri, Deputy Director (Ento.), Directorate of Plant Protection, Quarantine & Storage. (**Annexure-III**)

2. Dr. N. Sathyanarayana, JD (PP) in his special address encouraged trainees to increase the use of “eLocust3mPro”. This android/iOS based application is available free on Google Play store which can easily be downloaded and installed. The existing eLocust3 tablet involved financial obligation to get it activated/deactivated, monthly subscription and while sending each data. Whereas the “eLocust3mPro” is available free of use for users. This mobile app contains detailed data fields which are similar to the tablet and it needs very small amount of internet data for transmission of survey/control data. Therefore, all field officers are advised to replace their tablet with mobile application. Moreover, a proposal to provide financial help to users for their internet pack which is essential to run the application has also been prepared and submitted to competent authority for approval.

6. Pre-evaluation Test: In order to evaluate the skill of the participants, a pre-evaluation test was conducted. The test paper comprised of questions related to biology, behavior, survey & eLocust3mPro. All trainees/participants attempted the pre evaluation test. The comparative result of pre evaluation/post evaluation test is annexed at (**Annexure-IV**)

7. Technical session: Classroom lectures/exercises: A classroom technical session lecture was taken on “eLocust3mPro” app. Downloading, installation, registration and use of app was discussed in detail by using Power Point Presentation followed by a practical session.

All relevant fields related to locust survey and control i.e. Location, Area Surveyed, habitat, Topography, Soil type, Soil moisture, Vegetation stage, Vegetation density, Rain amount, Locust type Hoppers bands, Adults swarm, Control application in detail safety etc. were discussed in detail.

At the end of the session a group discussion on “eLocust3mPro” as well as question answer session were taken where all the trainees’ participants enthusiastically participated in the session which made the atmosphere full of charge and interesting.

Day 2: 13.07.2023

- 8. Classroom lectures/exercises:** During the second day of the training program, data analysis by using RAMSES V4 software and forewarning process were discussed by using power point presentation. In order to issuance of forewarning and alert, various data plotting on map including locust, soil, rainfall & greenness imageries were explained briefly. The process of making DL situation bulletin by using real-time data was also briefed.
- 9. Post training evaluation Test :-** After completion of the technical session a post training evaluation test was undertaken to evaluate the difference in skill of the participants. Result of pre & post evaluation test is annexed (**Annexure-IV**).
- 10. Wrap up:** At the end of the training program, all the activities undertaken during the course of two days training were once again briefed to the participants and doubts were clarified on various topics related to the mobile application.
- 11. Certificate distribution:** By the end of training program “participation/appreciation certificates” were distributed to all participants/Resource Person by dignitaries chairing the program, and end with Vote of thanks by Dr Shaloo Ayri DD-E to all attendees.
- 12. Conclusion:** The following observations were made on the two days training.
 1. Classroom discussions & field exercises viz. demonstration on elocust3mPro and locust survey provided excellent practice training session to the participants which not only improved the skill of the participants but also sensitize them to think beyond the box on all relevant issues.
 2. Pre and Post evaluation test results indicate that participants have acquired the fresh knowledge on the relevant topics covered during the training workshop.
 3. At the end of the program all group leaders briefed the house with improved skill and sense of satisfaction which reflects positivity of participatory approach of the training workshop.
 4. The workshop offered an opportunity to improve technical skill by learning & doing method. All participants exchanged their knowledge and experience during the practical session & group discussion.
 5. The participants expressed their keen interest more in practical session followed by classroom training and suggested to continue such training program frequently in future.

List of Participants/Resource Person

S.No.	Name of Participants	Designation	Station
1	Shri Ram Gopal Meena	PPO	LCO, Nagaur
2	Shri Babu Lal Meena	PPO	LCO, Bikaner
3	Shri Amit Kumar Meena	PPO	FSIL, Bikaner
4	Shri Maharaj Singh	PPO	LCO, Palanpur
5	Shri Shashi Kumar R.S.	PPO	LCO, Bhuj
6	Shri M.S.Dewa	PPO	LCO, Suratgarh
7	Shri Dharmendra Kumar	APPO	LCO, Phalodi
8	Dr. S.P.Bhople	APPO	LCO, Bhuj
9	Shri Virendra Godara	APPO	LCO, Nagaur
10	Ms.Monika Swami	APPO	FSIL, Bikaner
11	Shri Chetan Kumawat	APPO	LCO, Nagaur
12	Shri Laxmi Kant	APPO	LCO, Palanpur
13	Shri Ram Karan Dudi	APPO	LWO, Jodhpur
14	Shri Prema Ram Dhaka	APPO	LCO, Jalore
15	Shri Ram Narayan Singh	APPO	LCO, Bikaner
16	Shri Atul Kakkar	SA	LCO, Churu
17	Shri Aman Kaim	SA	LCO, Jaisalmer
18	Shri Vikash Kumar Meena	SA	LCO, Jaisalmer
19	Shri K.S.Godse	SA	LCO, Palanpur
20	Shri Pooran Bhadu	SA	FSIL, Bikaner
21	Shri Pawan Kumar Sanaura	SA	LCO, Jaisalmer
22	Shri Ajay Jevaria	SA	LWO, Jodhpur
23	Shri Ashok Bohra	SA	LCO, Barmer
24	Shri Sharwan Singh	SA	LWO, Jodhpur
25	Shri Bhanwar Singh	SA	LWO, Jodhpur
26	Shri S.A. Prabhuraj	SA	LCO, Bhuj
27	Shri Maneesh Kumar Sharma	TA	FSIL, Bikaner
28	Shri Gajanan	TA	LCO, Suratgarh
29	Shri Kheta Ram	TA	LCO, Barmer
30	Ms.Soniya Meena	TA	FSIL, Bikaner
31	Shri Subhash Chandra	TA	LCO, Palanpur
32	Shri Yunus Bhai Solanki	TA	LCO, Palanpur
	Name of resource person		
1	Chandra Shekhar Sharma	APPO	Hqr, Faridabad

Schedule of two days Training Programme on eLocust3mpro

During 12th & 13th July 2023

Venue: Locust Warning Organisation, Jodhpur

Date	Time	Agenda
12.07.2023	09:30-10:00	Registration of participants
	10:00- 11:00	Inaugural function
		Welcome address: Dr. Virendra Kumar, assistant Director (PP), LWO, Jodhpur
		Address: Dr. Shaloo Ayri, Deputy Director (E), Locust Division, H.Q. Faridabad
		Special address : Dr. N. Sathyanarayana, Joint Director (PP), Locust Division, H.Q. Faridabad.
	11:00-11:15	Tea Break
	11:15- 11:45	Pre evaluation test
	11:45-13:00	An overview on e Locust3, eLocust3m, eLocustempro and eLocust3g; eLocust3mPro download, installation, registration and operation: By Chandra Shekhar Sharma, APPO, Headquarter, Faridabad.
	13:00-14:00	Lunch
	14:00-17:00	Field exercise: survey, data entry, data transmission
	17:00-17:30	Group Discussion
13.07.2023	10:00-11:00	Some important tips to avoid wrong entry data: By Chandra Shekhar Sharma, APPO, Headquarter, Faridabad.
	11:00-11:30	Tea Break
	11:30-13:00	Data analysis: RAMSES, Different cloud platform of survey data. Use of different data to prepare bulletin: By Chandra Shekhar Sharma, APPO, Headquarter, Faridabad.
	13:00-14:00	Lunch Break
	14:00-14:30	Post training evaluation test
	14:30-15:45	General Discussion and group presentation
	15:45-17:00	Vote for thanks By: Dr. Shaloo Ayri, Deputy Director (E), Locust Division, H.Q. Faridabad

Annexure-III

Pre-Post evaluation test result

S.No.	Name of Participants	Designation	Station	Pre-evaluation	Post-evaluation	Difference (+)
1	Shri Aman Kaim	SA	LCO, Jaisalmer	15	97	82
2	Shri Pooran Bhadu	SA	FSIL, Bikaner	15	95	80
3	Shri Ajay Jevaria	SA	LWO, Jodhpur	23	98	75
4	Ms.Monika Swami	APPO	FSIL, Bikaner	20	90	70
5	Shri Ashok Bohra	SA	LCO, Barmer	05	73	68
6	Shri Atul Kakkar	SA	LCO, Churu	10	77	67
7	Shri Subhash Chandra	TA	LCO, Palanpur	25	90	65
8	Shri Ram Gopal Meena	PPO	LCO, Nagaur	35	100	65
9	Shri Vikash Kumar Meena	SA	LCO, Jaisalmer	18	82	64
10	Shri K.S.Godse	SA	LCO, Palanpur	20	80	60
11	Shri Gajanan	TA	LCO, Suratgarh	18	78	60
12	Shri Maneesh Kumar Sharma	TA	FSIL, Bikaner	10	68	58
13	Shri Babu Lal Meena	PPO	LCO, Bikaner	33	90	57
14	Shri Pawan Kumar Sanaura	SA	LCO, Jaisalmer	15	70	55
15	Shri Dharmendra Kumar	APPO	LCO, Phalodi	35	88	53
16	Dr. S.P.Bhople	APPO	LCO, Bhuj	38	90	52
17	Shri Virendra Godara	APPO	LCO, Nagaur	38	88	50
18	Shri Amit Kumar Meena	PPO	FSIL, Bikaner	40	90	50
19	Shri Maharaj Singh	PPO	LCO, Palanpur	35	80	45
20	Shri Shashi Kumar R.S.	PPO	LCO, Bhuj	45	90	45
21	Shri Sharwan Singh	SA	LWO, Jodhpur	30	72	42
22	Shri Kheta Ram	TA	LCO, Barmer	33	75	42
23	Shri M.S.Dewa	PPO	LCO, Suratgarh	43	85	42
24	Ms.Soniya Meena	TA	FSIL, Bikaner	30	70	40
25	Shri Chetan Kumawat	APPO	LCO, Nagaur	50	88	38
26	Shri Bhanwar Singh	SA	LWO, Jodhpur	30	58	28
27	Shri Laxmi Kant	APPO	LCO, Palanpur	25	48	23
28	Shri S.A. Prabhuraj	SA	LCO, Bhuj	05	28	23
29	Shri Ram Karan Dudi	APPO	LWO, Jodhpur	55	73	18
30	Shri Yunus Bhai Solanki	TA	LCO, Palanpur	15	30	15
31	Shri Ram Narayan Singh	APPO	LCO, Bikaner	73	85	12
32	Shri Prema Ram Dhaka	APPO	LCO, Jalore	45	53	08

Glimpse of event



