



Food and Agriculture Organization
of the United Nations

SWAC - Indo-Pakistan joint border meetings

2016

PROCEEDING OF THE FIRST BORDER MEETING OF 2016 BETWEEN THE DESERT LOCUST OFFICERS OF PAKISTAN AND INDIA HELD AT KHOKHROPAR / MUNABAO BORDER POINT ON 22ND JULY, 2016

The first border meeting of the year-2016 between the Desert Locust officers of Pakistan and India at Khokhropar / Munabao border point held on 22nd July, 2016 at 0800 hours (PST) /0830 hours (IST) on Pakistan side. The following officers attended the meeting.

PAKISTAN

- | | |
|---------------------------|---------------------------------------|
| 1. Mr. Azam Khan, | Director (Technical), DPP, Karachi |
| 2. Mr. Ghulam Qadir Lund, | Asstt. Entomologist, DPP, Karachi |
| 3. Mr. Dharam Pal, | Asstt. Entomologist, DPP, Mirpur Khas |

INDIA

- | | |
|---------------------------|--|
| 1. Dr. S.K. Verma, | Deputy Director (Entomology), LWO Jodhpur |
| 2. Mr. Mahesh Chandra, | Plant Protection Officer (PP), LCO, Barmer |
| 3. Mr. Mahavir Sharma, | Asstt. Plant Protection Officer, LCO, Bhuj |
| 4. Mr. Pramod Kumar Gour, | Scientific Assistant, LCO, Bhuj |

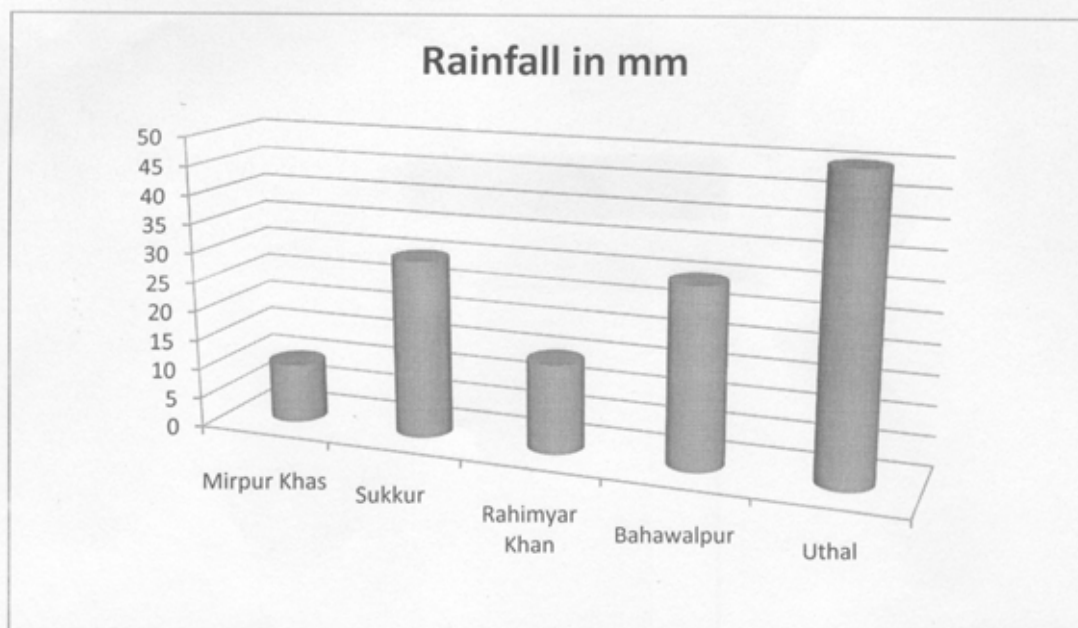
Desert Locust Situation.

(01st June, 2016 to 20th July, 2016)

Distant, cross country and special Locust surveys in the Scheduled desert areas of summer-monsoon breeding zone were conducted by the survey teams in their respective jurisdiction on both sides of the border. As per the survey reports both Pakistan and India remained free from the gregarious as well as solitary locust population during the period under report. However, in three localities of Sukkur region on Pakistan side near Sanewari, i.e. 274018N/70048E, 274154N/70149E and 274457N/70347E some solitary adults were reported with maximum number of 15 adults per hectare, while in Uthal area some solitary locust individuals have also been reported with maximum number of 05 adults per hectare.

Ecology and weather

Dry and hot weather prevailed in most of the summer-monsoon locust breeding areas of Pakistan and India during first fortnight of June, while it remained cloudy in second fortnight of June, 2016. On Pakistan side light rainfall occurred in Mirpur Khas, Rahimyar Khan and Uthal areas, while light to moderate rainfall was reported in Sanewari and Tajjal areas of Sukkur region during the 2nd fortnight of July, 2016. On India side moderate rainfall was observed during second fortnight of June 2016 in the isolated scheduled desert areas. On either side vegetation was mostly dry with medium density, except Tajjal area of Sukkur on Pakistan side where it was greening. On India side vegetation was observed green in all areas of rainfall. Soil moisture was also dry in most of the surveyed areas except some localities in Mirpur Khas, Sukkur and Uthal areas of rainfall in Pakistan, where it was reported as wet. On Indian side soil moisture was also reported wet in the areas of rainfall.



Rainfall recorded on Pakistan side during the period of report

Forecast

Keeping in view the ecological conditions of the field on both sides, the number of solitary individuals may increase in the coming months. Further monsoon rains are expected in the desert areas on either side, due to which the ecological conditions may become more favourable for locust breeding and grouping of solitary individuals may occur in some areas. Therefore, a regular watch by undertaking locust survey in scheduled desert areas on either side may be continued.

Miscellaneous

1 FAO has already informed Pakistan and India regarding a locust threat through **locust watch** therefore, we may remain vigilant for the exogenous locust swarms infiltration from Yemen side also.

2 The fortnight Desert Locust situation bulletins, recent FAO Desert Locust bulletins were exchanged and thoroughly discussed during the meeting.

Date and Venue of next meeting

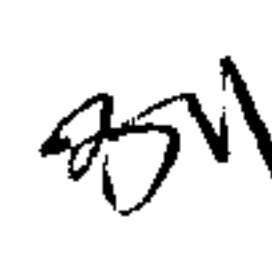
The second joint locust border meeting of the year-2016 will be held at Munabao / Khokhropar on 30th August, 2016 at 0830 hours IST and 0900 hours PST on India side.


Acknowledgement

The Indian delegates acknowledged the cordial hospitality and warm welcome by their Pakistani counterparts.

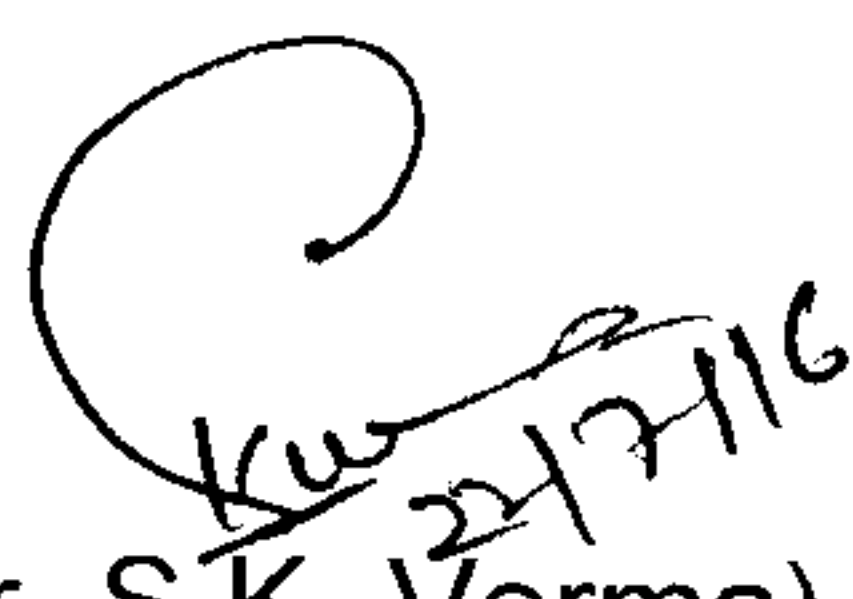
PAKISTAN



 (Azam Khan)
 Director (Technical)
 DPP, Karachi

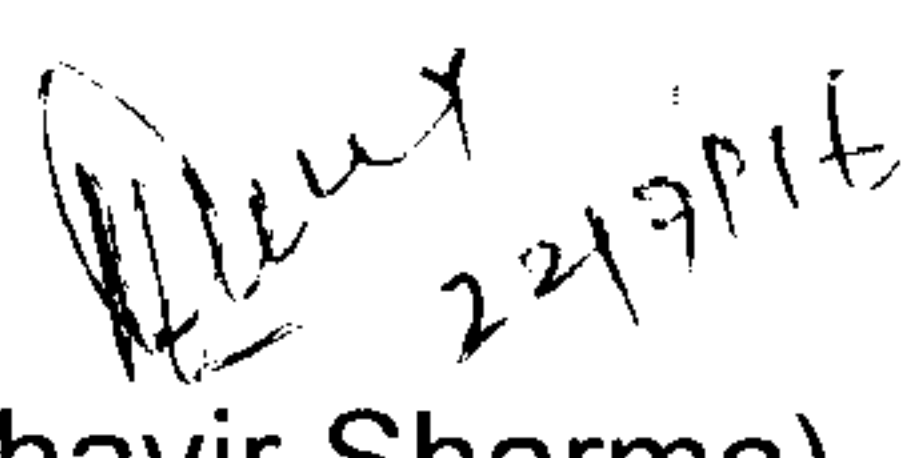

 (Ghulam Qadir Lund)
 Assistant Entomologist
 DPP, Karachi

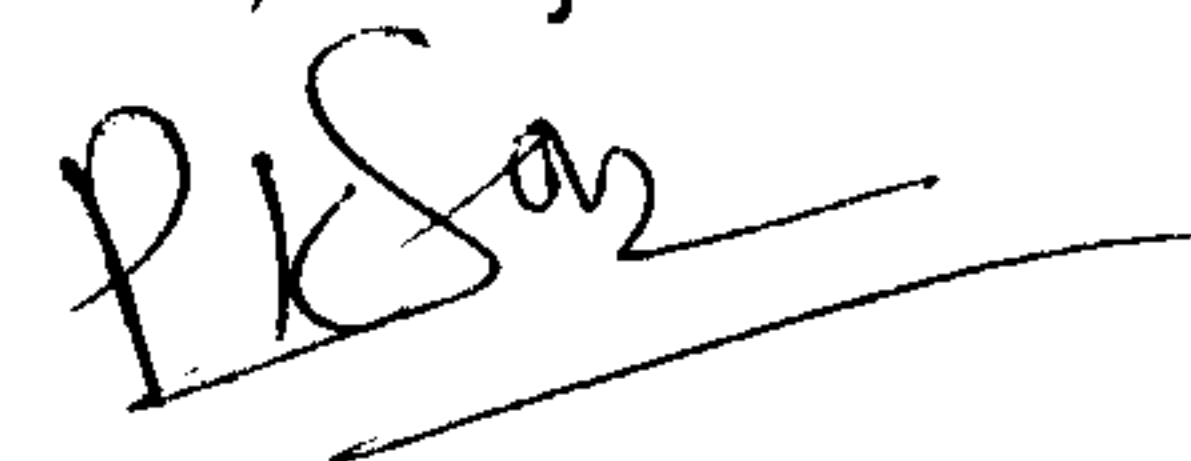

 (Dharam Pal)
 Assistant Entomologist
 DPP, Mirpur Khas

INDIA


 (Dr. S.K. Verma)
 Deputy Director (Entomology)
 LWO Jodhpur


 (Mahesh Chandra)
 Plant Protection Officer (PP)
 LCO, Barmer


 (Mahavir Sharma)
 Asstt. Plant Protection Officer
 LCO, Bhuj


 (Pramod Kumar Gour)
 Scientific Assistant,
 LCO, Bhuj

PROCEEDING OF THE SECOND BORDER MEETING OF THE LOCUST OFFICERS OF INDIA AND PAKISTAN HELD AT MUNABAO/ KHOKHROPAR BORDER POINT (INDIA SIDE) AT 0930 HOURS (IST) 0900 HOURS (PST) ON 30TH AUGUST, 2016

The second border meeting of the year-2016 between the Locust officers of Pakistan and India held on 30th August, 2016 at Munabao / Khokhropar border point (India side) at 0930 hours (IST)/ 0900 hours (PST). The following officers participated in the meeting:-

INDIA

1.	Dr. S.K. Verma	Deputy Director (Entomology)	LWO Jodhpur
2.	Mr. Mahesh Chandra	Plant Protection Officer (PP)	LCO, Barmer
3.	Mr. B. L. Meena	Asstt Plant Protection Officer	LCO, Jaisalmer
4.	Mr. Chandra Shekhar	Scientific Assistant	LWO, Jodhpur

PAKISTAN

1.	Mr. Shams-ur-Rehman	Entomologist	DPP, Karachi
2.	Mr. Ghulam Qadir Lund	Entomologist	DPP, Karachi
3.	Mr. Dharam Pal	Assistant Entomologist	DPP, Mirpur Khas

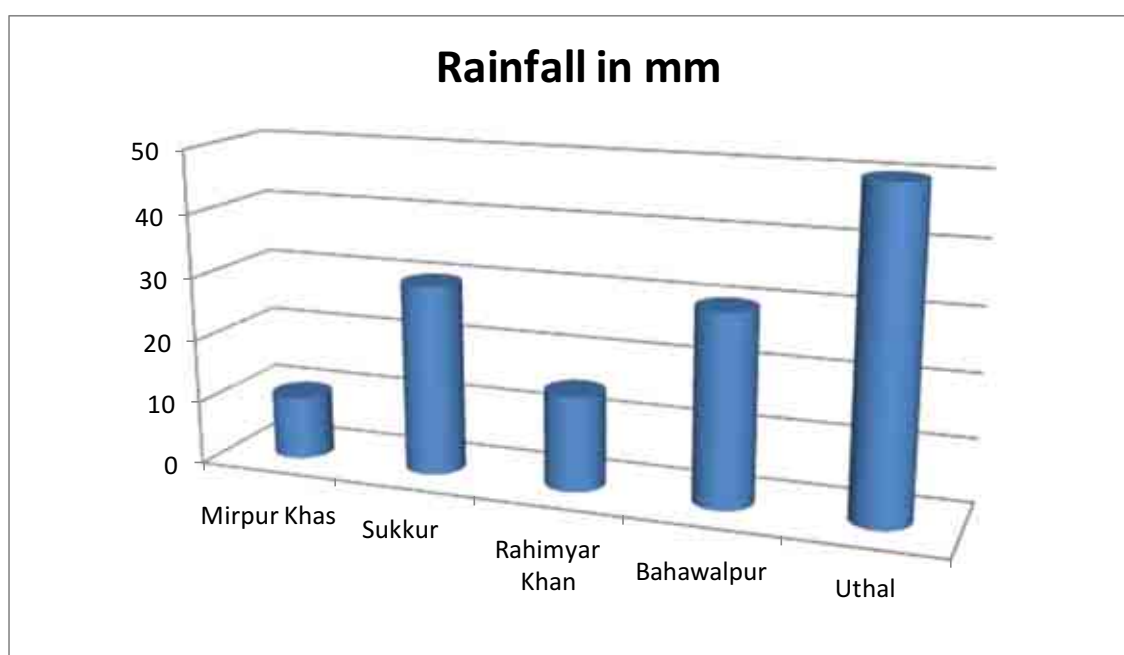
LOCUST SITUATION

(21st July, 2016 to 30th August, 2016)

Distant cross country and special border Locust surveys in the Scheduled Desert Areas of India were conducted by the Locust officers and staff of respective jurisdiction. Based on the survey data and other information it has been established that India remained free from gregarious desert Locust activity during the period under report, however solitary locust populations were observed in two places in Bikaner district with density of 20 adults per hectare at NAL 280123N-731204E on 1/8/2016 and 12 locusts per hectare at BITHANOK 275310N-724218E on 27/07/2016 during the surveys in India. Keeping in view latest FAO bulletin forecasting, three teams were deputed to Indo-Pak border area to conduct intensive locust survey as precautionary measures. Whereas, in Pakistan the routine locust surveys were carried out in summer monsoon breeding areas of Sindh, Punjab and the overlap areas of Uthal in Balochistan during the month of July and August, 2016. In the last week of July, 2016 no gregarious activities from any part of survey areas in the country were reported. It was indicated some swarms migrated with high wind from Yemen and same arrived in Gadani, Sonmiani and Winder the coastal area of Balochistan. Most likely adult mature swarms from Yemen disbursed, mixed, copulated with local solitary population and laid eggs, which hatched in first week of August, 2016. On the 03rd August, 2016 adult, mature, yellow swarms were reported in Alyani goth near Winder in Uthal, district Lasbella. Ground control team was immediately moved to Winder where control operation was started from 04th August, 2016. Adult swarms and hoppers were controlled. The area was cleared by treating 440 hectares on 17th August, 2016. Some adults may have escaped / migrated from overlap area to northeast such as Sukkur and Rahimyar Khan. More vigilance is required in Thar, Nara and Cholistan deserts. In Sukkur a small group of hoppers was observed in one hectare and same was treated on 10th August, 2016.

ECOLOGICAL CONDITIONS

Weather remained hot, cloudy and rainy during the month of July and August in the Scheduled Desert Area of India and Pakistan. Moderate rainfall was observed in the Jaisalmer area adjoining to Bikaner, Jodhpur, Jalore Suratgarh, Churu, Barmer and Nagaur during July 2016. Moderate to heavy rainfall was observed in all the scheduled area of Rajasthan and Gujrat during August 2016. Green / greening vegetation was observed in almost all the parts of scheduled desert area of Rajasthan and Gujarat. Whereas, on Pakistan side light to moderate rainfall occurred in Mirpur Khas, Sukkur, Rahimyar Khan, Bahawalpur and Uthal areas. Vegetation was reported as green to drying. Soil moisture for same period was ranging as wet in recent rainfall areas while other areas were reported as dry.



Rainfall recorded on Pakistan side during the period of report

FORECAST

Keeping in view of ecological conditions like soil moisture, green vegetation rainfall in potential locust breeding areas unusual gregarious locust activity is not expected, whereas, solitary locust population may remain there.

MISCELLANEOUS

Fortnightly Desert Locust Situation Bulletins, FAO Bulletin, RAMSES maps showing locust situation, green vegetation and rainfall estimation for the reporting period of both countries were exchanged and discussed. In the light of FAO Desert Locust bulletin and the Locust Watch of the 12th August, 2016 the locust situation / activity in Yemen was also discussed.

VENUE OF THE NEXT MEETING

The third border meeting of the year-2016 is scheduled to be held at Khokhropar / Munabao border point on 29th September, 2016 at 0900 hours (PST) / 0930 hours (IST) on Pakistan side.

ACKNOWLEDGEMENT

The Locust Officers of both the countries expressed their deep and sincere thanks to the Border Security Force of India and Pakistan Rangers for extending their full cooperation and support in arranging this meeting. Delegates from Pakistan thanked Indian counterparts for their cordial welcome, hospitality and courteous dealing during the course of meeting.

PLACE: Munabao Meeting Hall, India

Date: 30th August, 2016

PARTICIPANTS

PAKISTAN

(Shams- ur- Rehman)
Entomologist
DPP, Mirpur Khas

(Ghulam Qadir Lund)
Entomologist
DPP, Karachi

(Dharam Pal)
Assistant Entomologist
DPP, Mirpur Khas

INDIA

(Dr. S.K. Verma)
Deputy Director (Ento)
LWO, Jodhpur

(Mahesh Chandra)
Plant Protection Officer (PP)
LCO, Barmer

(B. L. Meena)
Asstt. Plant Protection Officer
LCO, Jaisalmer

(Chandra Shekhar)
Scientific Assistant,
LWO, Jodhpur

PROCEEDING OF THE THIRD BORDER MEETING OF 2016 BETWEEN THE DESERT LOCUST OFFICERS OF PAKISTAN AND INDIA HELD AT KHOKHRAPAR / MUNABAO BORDER POINT ON 29TH SEPTEMBER, 2016

The third border meeting of the year-2016 between the Desert Locust officers of Pakistan and India held at Khokhrapar / Munabao border point on 29th September, 2016 at 0900 hours (PST) / 0930 hours (IST) on Pakistan side. The following officers attended the meeting.

PAKISTAN

- | | | |
|---------------------------|-------------------------|------------------|
| 1. Mr. Shams-ur-Rehman, | Entomologist, | DPP, Karachi |
| 2. Mr. Ghulam Qadir Lund, | Entomologist, | DPP, Karachi |
| 3. Mr. Dharam Pal, | Assistant Entomologist, | DPP, Mirpur Khas |
| 4. | | |

INDIA

- | | | |
|--------------------------|----------------------------------|---------------|
| 1. Mr. S.S.Siddu | Plant Protection Officer (Ento), | FSIL, Bikaner |
| 2. Mr. Mahesh Chandra | Plant Protection Officer (PP), | LCO, Barmer |
| 3. Mr. Om Prakash | Asstt. Plant Protection Officer, | LWO, Jodhpur |
| 4. Mr. Pramod Kumar Gour | Scientific Assistant, | LCO, Bhuj |

Desert Locust Situation.

(28th August, 2016 to 27th September, 2016)

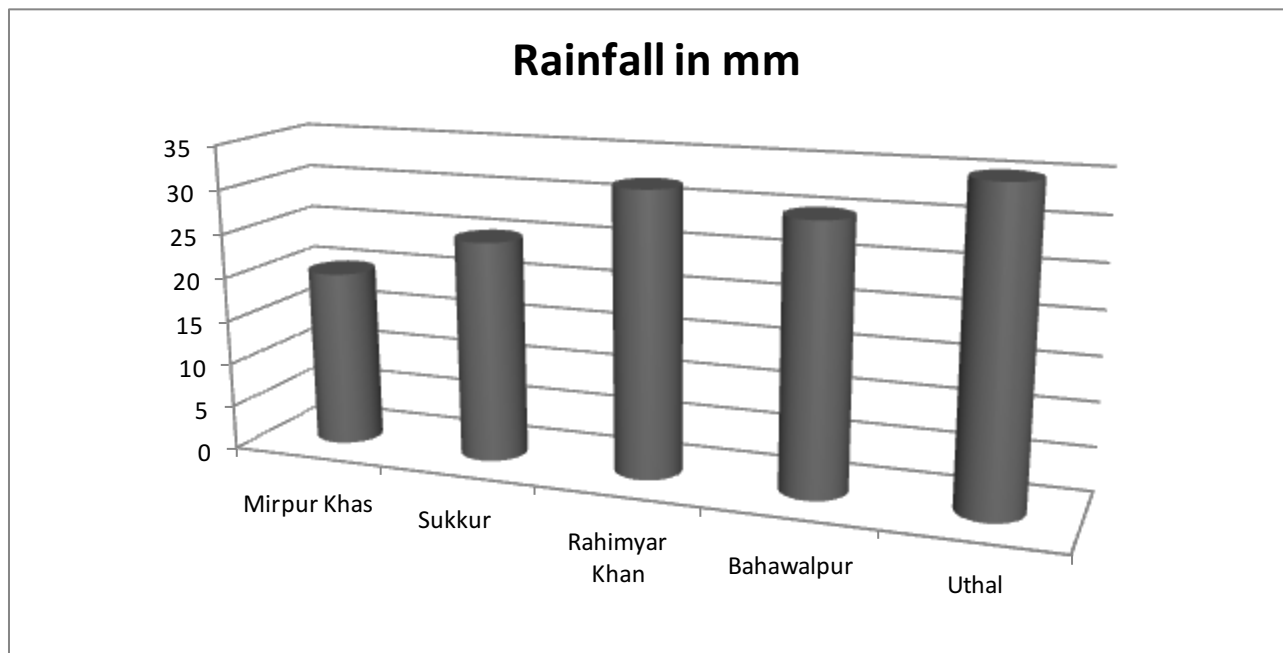
In Pakistan the routine Desert Locust surveys were carried out in summer monsoon breeding areas of Sindh, Punjab and the overlap areas of Uthal in Balochistan during the month of September, 2016. No locust was observed in Mirpur Khas and Sukkur regions during the first fortnight of September. However, small scale, isolated, solitary individuals in different places with maximum population of 50/ha observed in Ashiqwala (275912N/701910E) in Rahimyar Khan desert. In Bahawalpur desert maximum locust population observed as 13/ha in Ghulam Wali (280705N/712423E). Since conclusion of the locust control operation held in Uthal area of Balochistan during August no gregarious locust hatching was reported. At present locust surveys are in progress in Uthal area of Balochistan. No gregarious locust activity has been reported from any part of the survey zones.

In India distant, cross country and special border locust survey in the scheduled desert area were conducted by the locust officers and staff. Based on the survey data and other information, it has been established that India remained free from solitary as well as gregarious desert locust activity during the period.

Ecology and weather

In September hot, dry and sunny weather prevailed in most of the summer-monsoon locust breeding areas of Pakistan. In first fortnight light to medium rainfall occurred in Mirpur Khas, Sukkur, Rahimyar Khan, Bahawalpur and Uthal areas. In second fortnight no rain reported. Vegetation was reported as green to drying. Soil moisture for same period was reported as wet first fortnight while in second it was marked as dry.

In India side weather remained cloudy and rainy during first fortnight of September, 2016 and it remained hot in second fortnight. No rain fall was observed in the scheduled desert area. Vegetation is green to drying in all surveyed areas.



Rainfall recorded on Pakistan side during the period of report

Forecast

Keeping in view the ecological conditions of the field no gregarious activity is foreseen in the next month. Solitary locust population may not have significant fluctuation, if no more rains and exogenous locusts come in. Regular watch by undertaking locust surveys in scheduled desert areas required to be continued.

Miscellaneous

- 1 Exogenous locust infiltration / migration may be kept under strict watch.
- 2 The fortnight Desert Locust situation bulletins, recent FAO Desert Locust bulletins were exchanged and thoroughly discussed during the meeting.

Date and Venue of next meeting

The fourth joint locust border meeting of the year-2016 will be held Munabao/ Khokhropar border point on 19th October, 2016 at 0930 hours IST and 0900 hours PST on India side.

Acknowledgement

The locust officers of both the countries expressed their deep and sincere thanks to Pakistan Rangers and Border Security Force of India for extending their full co-operation and support arranging this meeting. The delegates from India thanked to Pakistani counterparts for their cordial hospitality and warm welcome.

PAKISTAN

-sd -
(Shams-ur-Rehman)
Entomologist
DPP, Mirpur Khas

-sd -
(Ghulam Qadir Lund)
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LCO, Barmer

-sd -
(Om Prakash)
Asstt. Plant Protection Officer
LWO, Jodhpur

-sd-
(Pramod Kumar Gour)
Scientific Assistant,
LCO, Bhuj

**PROCEEDING OF THE FOURTH BORDER MEETING OF THE LOCUST OFFICERS OF INDIA AND PAKISTAN
HELD AT MUNABAO / KHOKHROPAR BORDER POINT (INDIA SIDE) AT 0930 HOURS IST / 0900 HOURS
PST ON 19TH OCTOBER, 2016**

The second border meeting of the year-2016 between the Locust officers of Pakistan and India held on 30th August, 2016 at Munabao / Khokhropar border point (India side) at 0930 hours (IST)/ 0900 hours (PST). The following officers participated in the meeting:-

INDIA

1. Dr. S.K. Verma	Deputy Director (Entomology)	LWO Jodhpur
2. Mr. Mahesh Chandra	Plant Protection Officer (PP)	LCO, Barmer
3. Mr. Om Prakash	Asstt Plant Protection Officer	LCO, Jodhpur
4. Mr. Chandra Shekhar	Scientific Assistant	LWO, Jodhpur

PAKISTAN

1. Mr. Shams-ur-Rehman	Entomologist	DPP, Mirpur Khas
2. Mr. Ghulam Qadir Lund	Entomologist	DPP, Karachi
3. Mr. Dharam Pal	Assistant Entomologist	DPP, Mirpur Khas

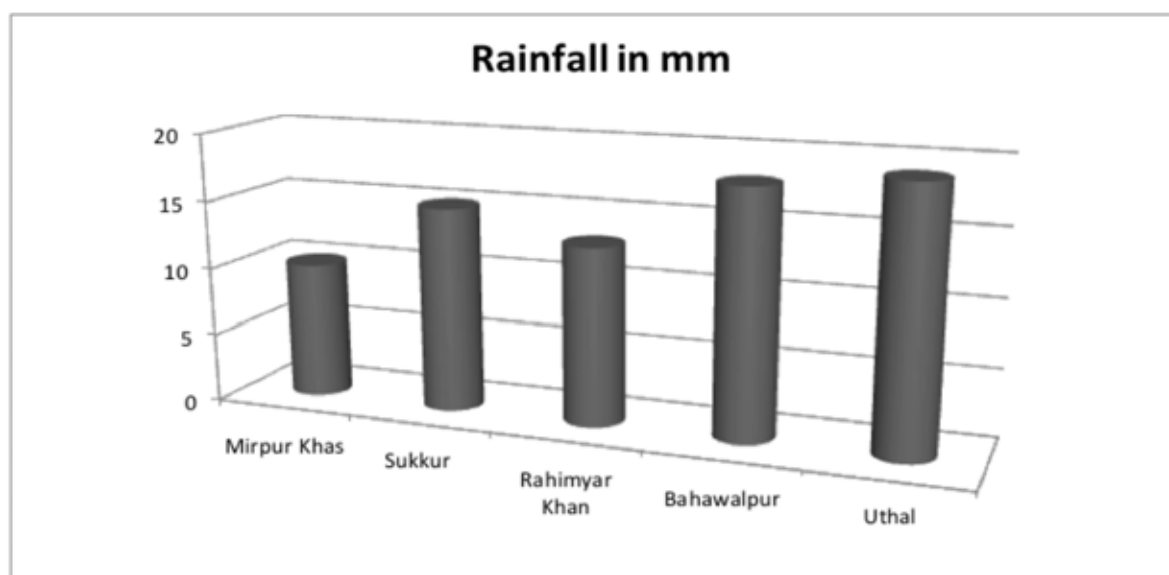
LOCUST SITUATION

(28th September, 2016 to 18th October, 2016)

The routine Locust surveys in the Scheduled Desert Areas of India and Pakistan were conducted by Locust Officers and staff in their respective jurisdiction. Based on the survey data and other information it has been established that both the countries remained free from any gregarious locust activities. Whereas, small scale isolated, solitary individuals were observed in Bahawalpur and Rahimyar Khan deserts of Pakistan.

ECOLOGICAL CONDITIONS

Weather remained cloudy and hot during second fortnight of September and remained same in first fortnight of October 2016. Recent light to moderate rainfall was observed in almost all the scheduled desert area of India except the small Indo-Pak border area adjoining Jaisalmer and Suratgarh. Vegetation is green / drying and dense. Soil moisture is wet at the place where recent moderate rainfall was observed. On Pakistan side, light rainfalls were occurred in Mirpur Khas, Sukkur, Rahimyar Khan, Bahawalpur and Uthal areas. However, overall weather conditions in summer breeding zones in Pakistan remained hot and dry. The vegetation was reported as drying and soil moisture as dry for the same period.



Rainfall recorded on Pakistan side during the period of report

FORECAST

Keeping in view the ecological conditions of the field unusual gregarious locust activity is not expected up to mid-November of this year. Locust population may not flourish up, if no more rains and exogenous locusts come in. Regular watch by undertaking locust survey in scheduled desert areas may be continued in both countries.

MISCELLANEOUS

Fortnightly Desert Locust Situation Bulletins, FAO Bulletins, RAMSES maps showing locust situation, green vegetation and rainfall estimation for the reporting period of both the countries were exchanged and discussed.

VENUE OF THE NEXT MEETING

The fifth and the last Indo-Pakistan locust officers joint border meeting of the year-2016 is proposed to be held at Khokhropar / Munabao border point on 24th November, 2016 at 0900 hours (PST) / 0930 hours (IST) on Pakistan side.

ACKNOWLEDGEMENT

The locust officers of both the countries expressed their deep and sincere thanks to Border Security Force of India and Pakistan Rangers for extending their full co-operation and support for arranging this meeting. The delegates from Pakistan thanked to their Indian counterparts for their cordial welcome, hospitality and courteous dealing during the course meeting.

PLACE: Munabao Meeting Hall, India

Date: 19th October, 2016

PARTICIPANTS

PAKISTAN

(Shams- ur- Rehman)
Entomologist
DPP, Mirpur Khas

(Ghulam Qadir Lund)
Entomologist
DPP, Karachi

(Dharam Pal)
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