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**PROCEEDING OF THE FOURTH BORDER MEETING OF THE LOCUST OFFICERS OF PAKISTAN AND INDIA HELD AT KHOKHROPAR-MUNABAO BORDER POINT AT 0830 HOURS (PST) 0900 HOURS (IST) ON 28<sup>th</sup> SEPTEMBER, 2010**

The fourth border meeting of the year 2010 between the Locust Officers of Pakistan and India held on 28<sup>th</sup> September, 2010 at Khokhropar / Munabao border point at 0830 hours (PST) / 0900 hours (IST) on Pakistan side. The following officers attended the meeting:-

**PAKISTAN**

1. M. Azam Khan, Dy. Director (Locust) Hqs. Karachi.
2. Mr. Abdul Sattar, Assistant Entomologist (L), Mirpur Khas.
3. Mr. Shabaz, Assistant Entomologist (L), Karachi.

**INDIA**

1. Dr. S.P. Gupta, Deputy Director (Ento.), LWO, Jodhpur
2. Mr. K.P. Singh, Deputy Director (Engg.) LWO, Jodhpur
3. Mr. C.M. Meena, Asstt. Plant Protection Officer, LWO, Jodhpur

**LOCUST SITUATION IN PAKISTAN**

**(01<sup>st</sup> August, 2010 to 25<sup>th</sup> September, 2010)**

Pakistan remained free from gregarious locust activity upto 14-09-2010. However, a group of low density adult locust probably infiltrated from across the border and settled at Pir Jatmal (272607N-694800E) near Saine Wari in Gothki District of Thar Desert 6 kilometers inside the border on 15-09-2010. A ground team was immediately moved to the area to undertake the ground control operation. As a result of locust control operation, nine groups of locust adults on an area of 695 hectare were successfully controlled by consuming 695 litres of Malathion 95% ULV pesticide. It is to mention here that the population consisted 90% of yellow adults, which were seen in pairing. Detail is as under: -

Date	Place with Coordinates	Area controlled in hectare	Pesticide consumed in liters	Nos. of groups controlled	Nos. of vehicle used
18-09-2010	Saine Wari (272644N-694816E)	200 hectare	200 liters	One	Two
19-09-2010	Saine Wari (272640N-694849E)	80 hectare	80 liters	One	Two
20-09-2010	Gopi Wari (273517N-695734E)	45 hectare	45 liters	One	One
21-09-2010	Ahsan Wari (273300N-695606E)	70 hectare	70 liters	One	Two
22-09-2010	Gopi Wari (273210N-695558E)	75 hectare	75 liters	Two	Two
22-09-2010	Gopi Wari (273234N-695602E)	25 hectare	25 liters	One	One

Continued on Page: 02

Date	Place with Coordinates	Area controlled in hectare	Pesticide consumed in liters	Nos. of groups controlled	Nos. of vehicle used
23-9-2010	Gopan Wari (273306N-695647E)	120 hectare	120 liters	One	Two
23-9-2010	Gopan Wari (273322N-695703E)	80 hectare	80 liters	One	Two
	<b>TOTAL</b>	<b>695 hectare</b>	<b>695 liters</b>	<b>Nine</b>	

Mature solitary adults ranging from 01-125 per hectare were observed in 128 localities of Bahawalpur, 53 localities of Rahimyar Khan, 30 localities of Sukkur, 07 localities of Uthal and 01 locality of Mirpur Khas areas during the routine field survey from 01-08-2010 to 15-09-2010. A maximum population of 125 adults / hectare was observed at Hikley area (274529N-705517E) in Rahimyar Khan on 05-09-2010.

Region / Outpost	No. of localities	Range of population / hectare	Place of maximum population with dates
<b><u>KARACHI</u></b> Mirpur Khas	01	01	Matan Tay (255427N-694121E) 12-08-2010
Uthal	07	06-25	Mindyari (253212N-663852E) 09-09-2010
<b><u>SUKKUR</u></b> Sukkur	30	22-110	Matarit (264411N-684316E) 06-09-2010
<b><u>BAHAWALPUR</u></b> Bahawalpur	128	05-50	Kala Dar (280015N-711825E) 04-09-2010
Rahimyar Khan	53	10-125	Hikley area (274529N-705517E) 05-09-2010

Isolated solitary breeding was also observed and solitary hoppers were reported at two places each in Cholistan desert of Bahawalpur and Uthal area of Balochistan. Details are as under:

S. No.	Date	Locality	Population of hoppers
1.	09-08-2010	Kakki (275636N-711444E)	1/site
2.	11-08-2010	Wehra Sultan (281512N-720136E)	8/site
3.	22-08-2010	Bijar Goth (253418N-6608040E)	1/site
4.	25-08-2010	Dubai Masjid (253552N-663832E)	1/site

### **WEATHER**

Hot and humid weather prevailed over the entire locust breeding areas during the reporting period. Days are hot while nights are little bit cooler. Light to heavy rainfall occurred in almost all the summer-monsoon breeding areas. The details are as under:

Continued on Page: 03

S. No.	Locality	Frequency of Rainfall	Total rainfall in the current fortnight ((mm)
1.	Mithi	16	297
2.	Chhore	12	250
3.	Rahimyar Khan	07	176
4.	Bahawalpur	10	164
5.	Karachi	06	223
6.	Mirpur Khas	09	116
7.	Nagarparkar	02	51
8.	Sukkur	07	55
9.	Uthal	03	35

**LOCUST SITUATION IN INDIA**  
**(01<sup>st</sup> August, 2010 to 25<sup>th</sup> September, 2010)**

Scheduled distant, cross country and border Desert Locust surveys in the Scheduled Desert Area of India and adjacent Indo- Pak border were conducted by the officers and staff of Locust Warning Organization which revealed that India continued to remain free from gregarious Desert Locust activity. However Solitarious premature and mature adults were reported at few places as given below. Soil moisture was suitable for Locust breeding in scheduled desert area.

S.No.	Date	District/Circle	Location	Coordinates	Population/ha.
1	28.8.2010		Rohidi	254942-701331	5 Nos
2	2.9.2010	Barmer	MKT	255342-700816	2 Nos
3	-do-	-do-	LKT	260359-700534	6 Nos
4	-do-	-do-	New Sundra	260635-700715	7 Nos
5	-do-	-do-	NKT	260744-700803	25 Nos
6	15.9.2010	-do-	Sundra	260555-701052	6 Nos
7	-do-	-do-	NKT	260850-700854	6 Nos
8	20.9.2010	Jodhpur	Nar nadi	260856-725443	50 Nos
9	-do-	-do-	Higola	261310-734331	40 Nos
10	-do-	Jaisalmer	Sam	265445-704605	2 to 10 Nos
11	-do-	-do-	Lunar	264900-702818	2 to 10 Nos
12	-do-	-do-	93 RD.BOP	264826-702232	2 to 10 Nos
13	-do-	Bikaner	Modyat	275015-725216	1 to 5 Nos
14	21.9.2010	Jaisalmer	SeliwaliDhani	274525-724157	20 to 30 Nos
15	-do-	Bikaner	Charayan	-----	6 Nos
16	22.9.2010	-do-	Bajju	275452-723501	4 Nos
17	-do-	-do-	Fatuwala	280143-720638	4 Nos
18	21.9.2010 to 23.9.2010	Barmer	Rohari	255134-701332	10 Nos
19	-do-	-do-	New Sundra	2606471-700734	6 Nos
20	-do-	-do-	NKT BOP	260719-700819	4 Nos
21	-do-	-do-	BUI	260525-701659	10 Nos
22	-do-	-do-	Modradi	260531-702218	10 to 30 Nos

Continued on Page: 04

## WEATHER

(a) **Rainfall:** Moderate to high/severe rainfall has been reported from some parts of the scheduled desert area of India in the range of 0.4 mm to 98.0 mm. District wise rainfall data is given below.

S.No	District	Total rainfall in mm	Frequency of rainfall	Highest rainfall with date
1	Jodhpur	113.1	14	29.0 mm on 2.8.2010
2	Bikaner	64.1	6	22.2 mm on 1.8.2010
3	Barmer	89.3	8	23.9 mm on 4.8.2010
4	Jaisalmer	90.2	10	39.0 mm on 4.8.2010
5	Palanpur	353	15	68.0 mm on 3.8.2010
6	Phalodi	106.0	9	35.0 mm on 10.8.2010
7	Churu	338.6	14	88.8 mm on 20.8.2010
8	Jalore	174.6	15	98.0 mm on 4.8.2010
9	Nagaur	143.6	10	49.0 mm on 1.8.2010
10	Suratgarh	191.0	---	---
11	Bhuj	Moderate	---	---

(b) **Wind direction:** Wind direction at 300 m remained SW to NE during the month of August to September, 2010.

## FORECAST

Due to occurrence of rainfall in most of summer monsoon breeding areas on both sides of the border, the ecological conditions have become conducive for locust breeding as well as the grouping of solitary locust population. Solitary population in these areas may further rise in the coming month. Control operations are in progress on Pakistan side, whereas strict vigilance is being maintained in the area on both sides to keep watch over any further grouping, breeding and indigenous / exogenous locust swarm movement. Both the countries should get ready for any control measures in near future and follow up watch should be maintained in controlled areas to see the result further

## MISCELLANEOUS

1. Fortnightly desert locust situation bulletins for previous month of both countries were exchanged and discussed.

## VENUE OF THE NEXT MEETING

The 05<sup>th</sup> border meeting of the year 2010 would be held at Munabao / Khokhropar border point on 20<sup>th</sup> October, 2010 at 0930 hours (IST) / 0900 hours (PST) on Indian side.

Continued on Page: 05

## ACKNOWLEDGMENT

The Locust Officers of both the countries expressed their deep and sincere thanks to the Pakistan Rangers and the Border Security Forces of India for extending their full cooperation and support in arranging this meeting at Khokhropar Meeting Hall on Pakistan side. Delegates from India thanked to Pakistani delegates for their cordial welcome, hospitality and courteous dealing during the course of meeting.

PLACE: Khokhropar Meeting Hall, PAKISTAN

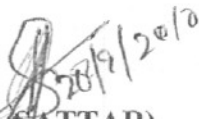
Date: 28<sup>th</sup> September, 2010

## PARTICIPANTS

### PAKISTAN



(M. AZAM KHAN)  
Dy. Director (Locust) Hqs.  
Karachi

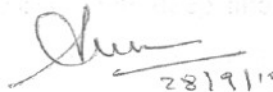


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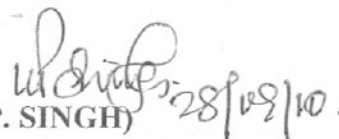


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