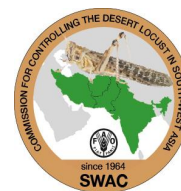


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पत्र सं./ F.No.3-1/2017-/टिडडी/Locust

भारत सरकार/ Government of India

कृषि, एवं किसान कल्याण मंत्रालय Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग/ Department of Agriculture Cooperation and Farmers Welfare

वनस्पति संरक्षण, संगरोध एवं संग्रह निदेशालय

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**पाक्षिक टिडडी स्थिति बुलेटिन/ Fortnightly Locust Situation Bulletin**

Vol. 69 सं./No. 16

अवधि/Period 16-31 August, 2017

**1. सार/SUMMARY:** India continued to be free from gregarious desert locust activity during the 2nd fortnight of August 2017. However, solitary isolated mature/ immature adults with density of 5 to 20 locusts/ha was observed in five localities. The maximum population of 20 locusts/ha was observed at INDRA (27°42'50"N - 70°44'07"E) locality of Jaisalmer district. As per eLocust3 data total 168 spots were surveyed (shown in map with "N" means survey undertaken- no locust found and "L" means solitary locust adult observed) in distant, cross country and special border surveys in the Scheduled Desert Areas (SDA) of Rajasthan and Gujarat during the period under report.

**2. मौसम की पारिस्थितिकी/WEATHER AND ECOLOGY:** As per rainfall estimation map for 3<sup>rd</sup> decade of August 2017, moderate rainfall was observed at Palanpur, Jalore, Nagaur, Churu, Suratgarh, Bikaner, Southern part of Jaisalmer, Northern part of Barmer and Western part of Jodhpur district of Rajasthan. Light rainfall was observed at Phalodi, Southern part of Jaisalmer, Northern part of Barmer and eastern part of Jodhpur. Moderate to heavy rainfall was observed at Bhuj. As per survey results (data), vegetation is dense green in almost all the part of SDA. The area covered with green vegetation and wet soil is more favourable for the locust breeding in the remote areas and due to this reason the area for locust survey is chosen accordingly. The maps showing rainfall estimation for 3<sup>rd</sup> decade of August 2017 with locust situation, the data of soil moisture and green vegetation status observed by surveyors during the surveys in 2nd fortnight of August 2017 are also shown in the enclosed maps.

### **3. टिडडी की स्थिति/LOCUST SITUATION:**

1. Desert Locust (*Schistocerca gregaria*. F)

i) Swarm movement	Nil
ii) Breeding	Nil
iii) Hoppers	Nil
iv) Scattered/ Isolated Adults	05 – 20 Locusts/ha.

4. **पूर्वानुमान/ FORECAST**: Due to wide spread of rainfall in SDA since July onwards with a short and regular interval, availability of dense green vegetation in remote areas and observance of solitary isolated mature/ immature adult locusts during special border survey, small scale breeding is likely to be occurred in coming fortnight/ month.

5. **तैयारी /PREPAREDNESS**: India is equipped with sufficient working eLocust3 units for locust surveys/population monitoring, trained man-power, operational vehicles, well maintained plant protection equipments and pesticides for control operation in case of any locust incursion/outbreak/upsurge. Keeping in view of favourable ecological condition special border survey was conducted and will be continue for next few months.

6. **संबंध/CONTACTS**: During field survey, the teams interacted with the villagers, farmers, nomads, NGOs and state government functionaries to make them aware about locust prevailing activities and advised to inform the nearest LCO or any other government agencies, if any locust development in their areas is observed.

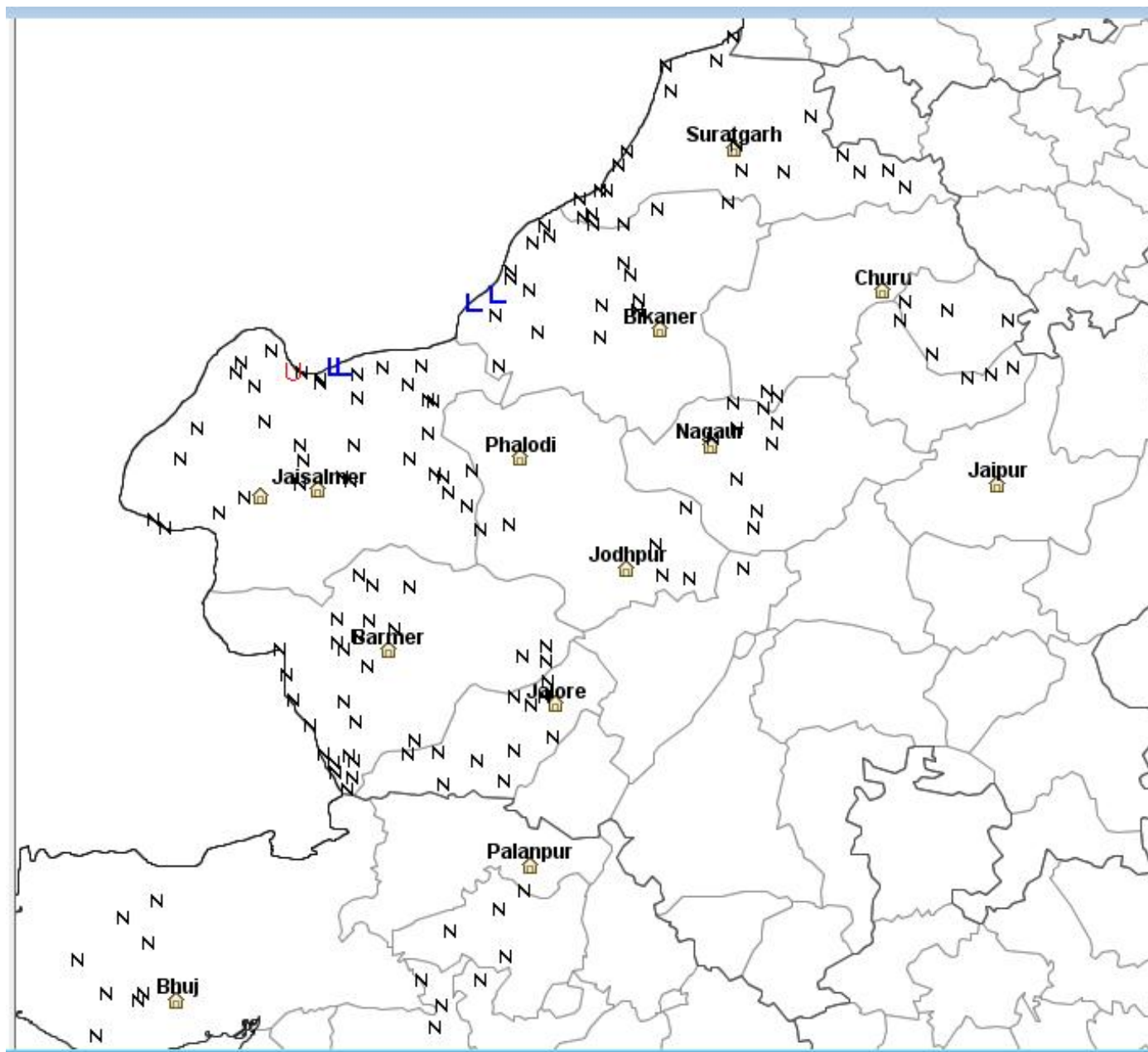
7. **बैठक/ MEETING**: The 2<sup>nd</sup> Indo-pak desert locust border meeting of locust officers was held on 22<sup>nd</sup> August, 2017 at Khokhropar / Munabao border point (Pakistan side) and the 3<sup>rd</sup> border meeting of Indo-pak will be held at Khokhropar / Munabao border point (India side) on 19<sup>th</sup> September, 2017.

**(Dr. B. S. Phogat)**

**Add. Plant Protection Adviser**

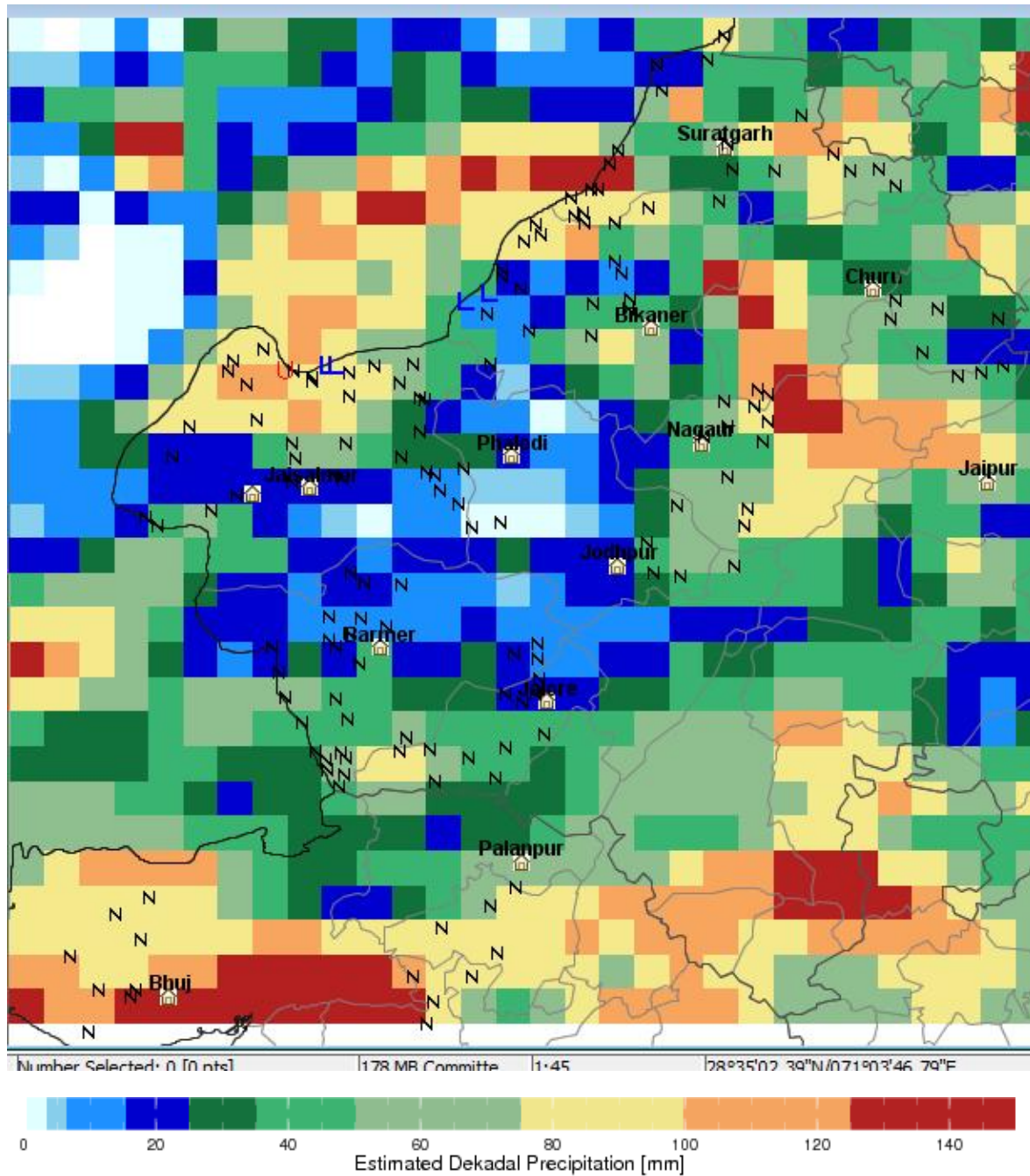
**Map showing Locust situation for 16 to 31 August, 2017**

The Place in map mark with “L” & “U” shows the presence of Locust population and mark with “N” shows the surveys were undertaken and no locust found.

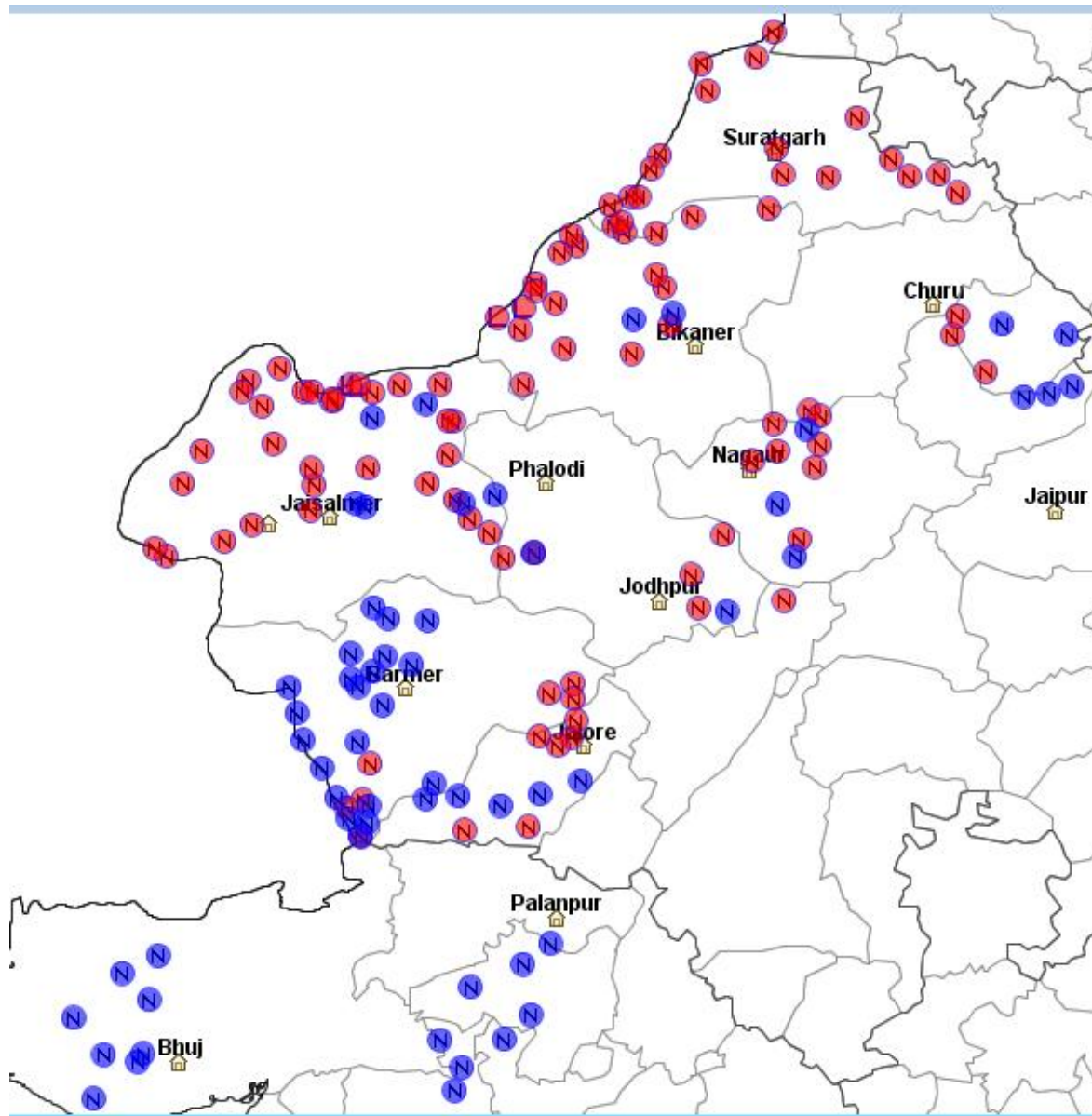


**Map showing rainfall estimation for 21-31 August, 2017**

Moderate rainfall observed at almost all the areas of Scheduled desert except Phalodi, eastern part of Jodhpur, Barmer and Jaisalmer adjoining to Jodhpur, where light rainfall was observed. Heavy to moderate rainfall was observed at Bhuj areas of Gujarat.



Soil moisture during 2<sup>nd</sup> fortnight of August 2017 recorded by surveyor during surveys undertaken. The soil of southern part of SDA is wet where as it is dry at northern part of SDA *i.e.*, Jaisalmer, Bikaner and Suratgarh



Legends 

<input checked="" type="checkbox"/>	Dry
<input checked="" type="checkbox"/>	Wet

Green vegetation observed by the surveyors during locust surveys in the 2<sup>nd</sup> fortnight of August 2017.

