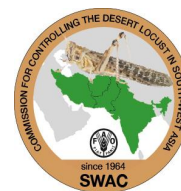


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पत्र सं./ F.No.3-1/2017-/टिडडी/Locust

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 Eelfare

वनस्पति संरक्षण, संगरोध एवं संग्रह निदेशालय

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पाक्षिक टिडडी स्थिति बुलेटिन/ Fortnightly Locust Situation Bulletin

Vol. 69 सं./No. 13

अवधि/Period 01-15 July, 2017

1. सार/SUMMARY: India continued to be free from gregarious and solitary desert locust activity during the 1st fortnight of July 2017. As per eLocust3 data total 147 spots were achieved (shown in map with “N” means survey undertaken and no locust found) in distant and cross country surveys in the Scheduled Desert Area (SDA) of Rajasthan and Gujarat during the period under report.

2. मौसम की परिस्थितिकी/WEATHER AND ECOLOGY: On interpretation of rainfall estimation map for 1st decade of July 2017, moderate rainfall was observed in almost all the areas of scheduled desert of Rajasthan and Gujarat except the area of Suratgarh where light rainfall was observed. Heavy rainfall was observed at Nagaur, Jodhpur, eastern Barmer, northern Bhuj and southern Bikaner. Due to continuous rainfall during summer period, the soil is wet (moisturized) and this situation is more favourable for locust breeding in the remote areas. On interpretation of green vegetation status map for 1st decade of July, newly developed vegetation was observed at Nagaur, Bikaner, Phalodi, Jodhpur, Churu and northern part of Barmer & Jaisalmer district. Vegetation is also green at the Indo-Pak border in Pakistan side adjoining to southern part of Jaisalmer and Bikaner (Locust prone area). The area covered with new developed vegetation is also favourable for the locust breeding. The maps showing green vegetation, rainfall estimation for 1st decade of July 2017 with locust situation, the data of soil moisture and green vegetation status observed by surveyors during the surveys in 1st fortnight of July 2017 are also shown in the maps

3. टिडडी की स्थिति/LOCUST SITUATION:

1. Desert Locust (<i>Schistocerca gregaria</i> _F)	Nil
i) Swarm movement	Nil
ii) Breeding	Nil
iii) Hoppers	Nil
iv) Scattered/ Isolated Adultmms	Nil

4. **पूर्वानुमान/ FORECAST:** Due to moderate rainfall in SDA during June and 1st decade of July 2017 and presence of newly developed vegetation in remote areas, there may be possibility of presence of locust activity. As per survey results the vegetation is green and soil moisture is also wet, due to favourable ecological condition, Small scale breeding is likely to be occurring. As per India metrological department map, the monsoon was activate during 1st week of July and same was confirmed (ground truth) by survey teams.

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/upsurge. The 2nd Indo-Pak locust officers' monthly meeting of 2017 is scheduled to be held on 19th July 2017.

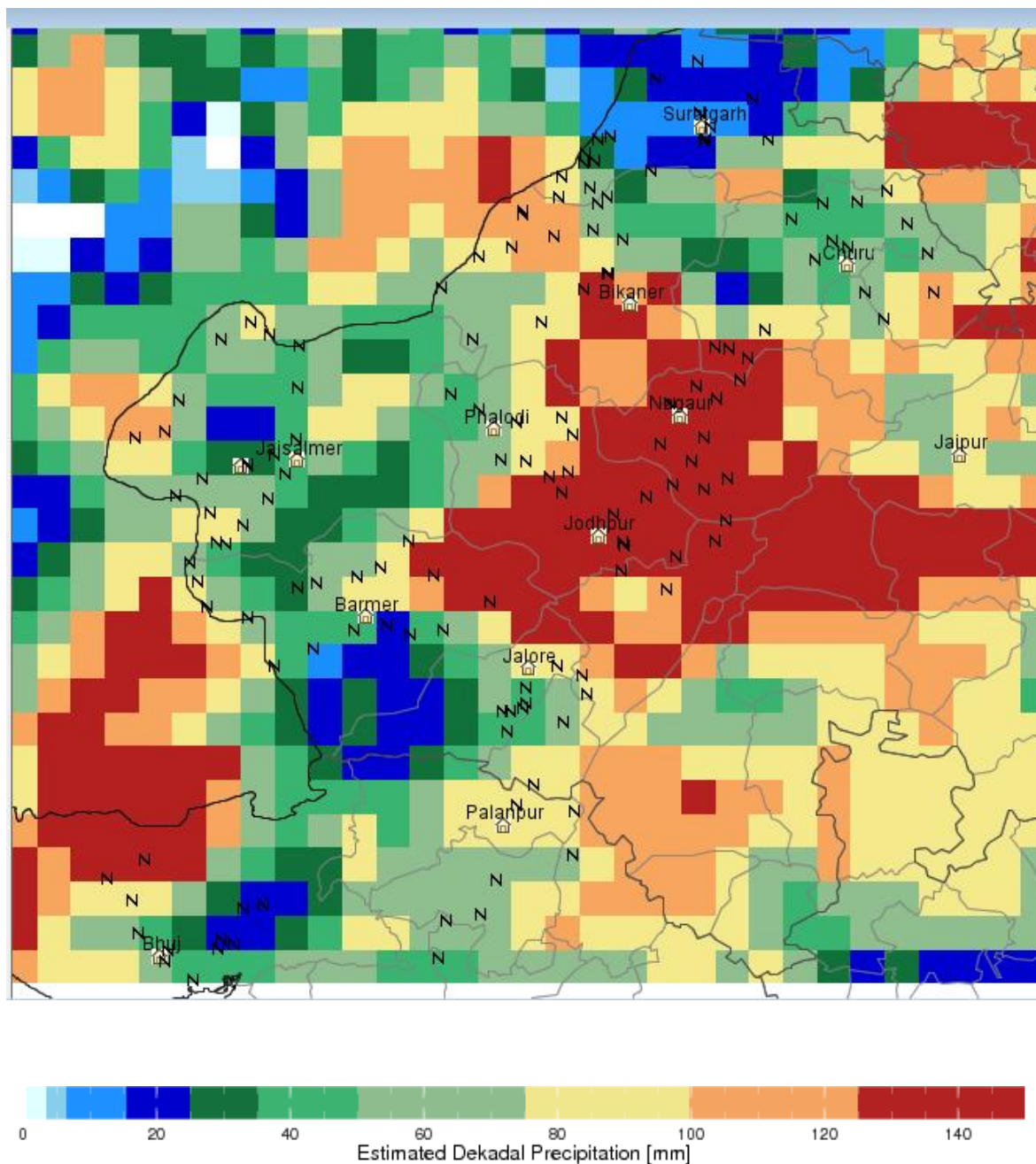
6. **संबंध/CONTACTS:** During field survey, the teams interacted with the villagers, farmers, nomads, NGOs and state government functionaries to make them aware about locust prevailing activities and advised to inform the nearest LCO or any other government agencies, if any locust development in their areas is observed. Light trap for locust was also installed at different fields by surveyors to collect the desert locust.

(Dr. B. S. Phogat)

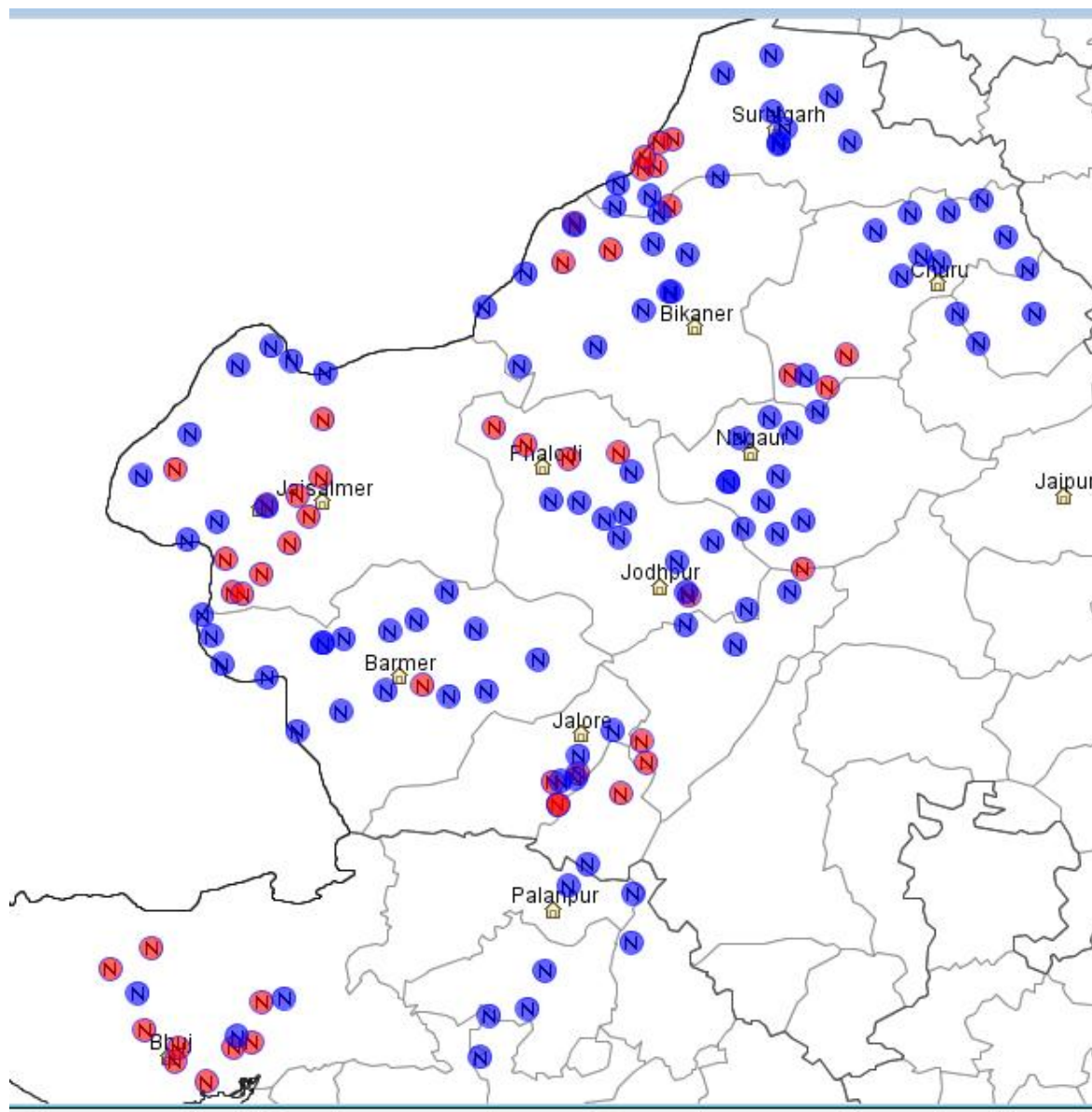
Add. Plant Protection Adviser

Map showing rainfall estimation for 01-10 July 2017

Good rainfall observed at almost all the areas of scheduled desert of Rajasthan and Gujarat. The rainfall is also noticed at Pakistan adjoining to India Border.



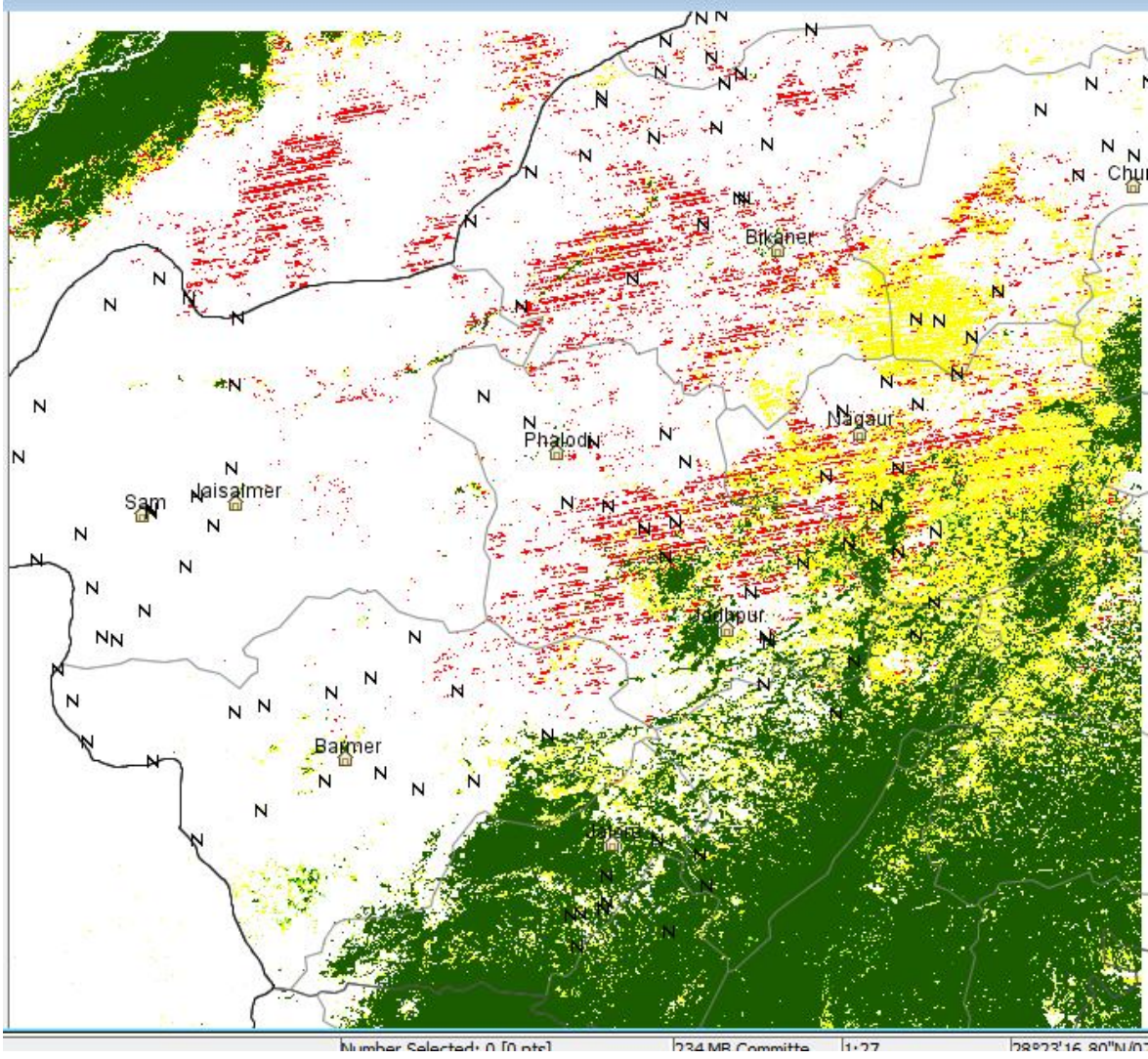
Soil moisture for 1st fortnight of July 2017 recorded by surveyor at the places where surveys were undertaken.



Legends



Map showing green vegetation status from 01-10th July, 2017 obtained from FAO website



Legends



Green vegetation map observed by the surveyors during the surveys.

