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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

DIRECTORATE OF PLANT PROTECTION, QUARANTINE & STORAGE

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पाक्षिक टिडडी स्थिति बुलेटिन/ Fortnightly Locust Situation Bulletin

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अवधि/Period 16-30 September, 2017

1. **सार/SUMMARY:** India continued free from gregarious desert locust activity during the 2nd fortnight of September 2017, as well as no solitary locust population was observed during this period. As per available record 190 spots were surveyed (shown in map with “N” means survey undertaken and no locust found) in distant and cross-country surveys in the Scheduled Desert Areas (SDA) of Rajasthan and Gujarat during the period under report.

2. **मौसम की पारिस्थितिकी/WEATHER AND ECOLOGY:** On interpretation of rainfall estimation map for 3rd decade of September 2017, no rainfall was observed at scheduled desert area of Rajasthan and Gujarat. As per survey data, the vegetation is almost green in all the area of SDA and same is confirmed by attached green vegetation map for 2nd decade of September 2017. As per green vegetation status map, the vegetation is 3 to 5 decade old. As per survey data the soil moisture in most of area are dry and few places are wet. The whole area of SDA covered with green vegetation are favourable for the locust breeding in the remote areas. The maps showing green vegetation status and rainfall estimation for 2 decade and 3rd decade of September respectively along with locust situation of 2nd fortnight of September and the survey data of both soil moisture and green vegetation status observed by surveyors during the surveys in 2nd fortnight of September 2017 shown in the attached maps.

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

1. Desert Locust (*Schistocerca gregaria*_F)

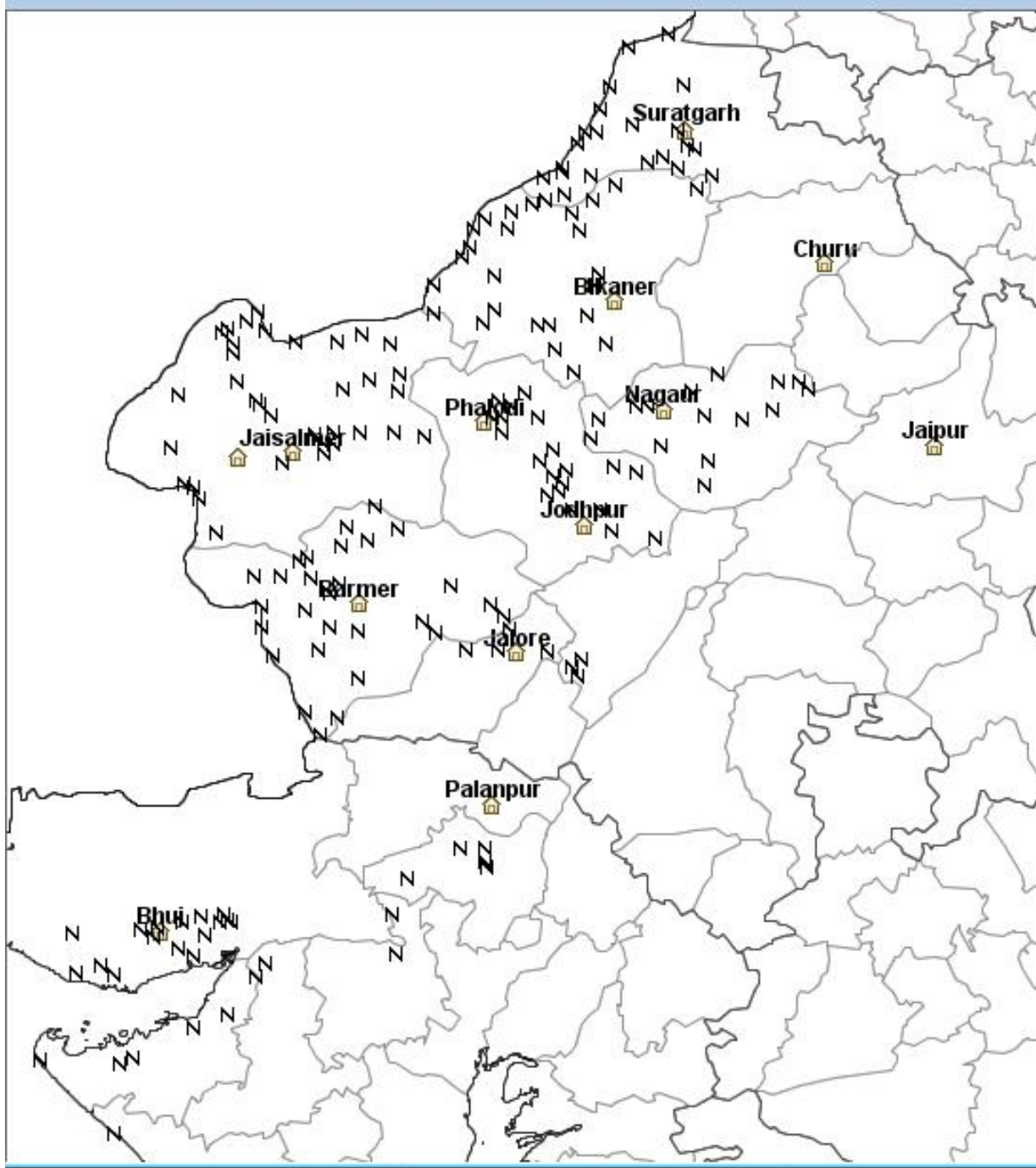
i) Swarm movement	Nil
ii) Breeding	Nil
iii) Hoppers	Nil
iv) Scattered/ Isolated Adult	Nil

4. **पूर्वानुमान/ FORECAST:** Due to wide spread rainfall in SDA since July onward with a short interval, availability of thorough dense newly green vegetation in remote areas and observance of solitary isolated mature/ immature adult locust during previous month as well as availability of solitary adults in Pakistan near the Indo-Pak border, small scale breeding may likely to be occurred in coming fortnight/ month.
5. **तैयारी /PREPAREDNESS/ MEETINGS:** India has equipped itself with sufficient trained man-power, operational vehicles, well maintained P.P. equipment, pesticides and 32 working eLocust3 units (total 11 activated units) for locust surveys/ population monitoring and control operation in case if there is locust outbreak/ upsurge. Keeping in view of favourable ecological condition special border survey will be continue for next month.
6. **संबंध/CONTACTS:** During field survey, surveyors contacted to the villagers including farmers, nomads, NGOs and state functionaries and made aware of the locust activities prevailing at present and advised to inform the nearest LCO or any other government agencies if any locust development in their areas is seen.
7. **बैठक/ MEETINGS:** - 3rd Indo-Pak locust officers' monthly border meeting of 2017 was held on 19th September, 2017 at Munabao (India side) and next will be held on 24th October 2017 at Khokhrapar (Pakistan side)

(Dr. K.L. Gurjar)
Deputy Director (PP)

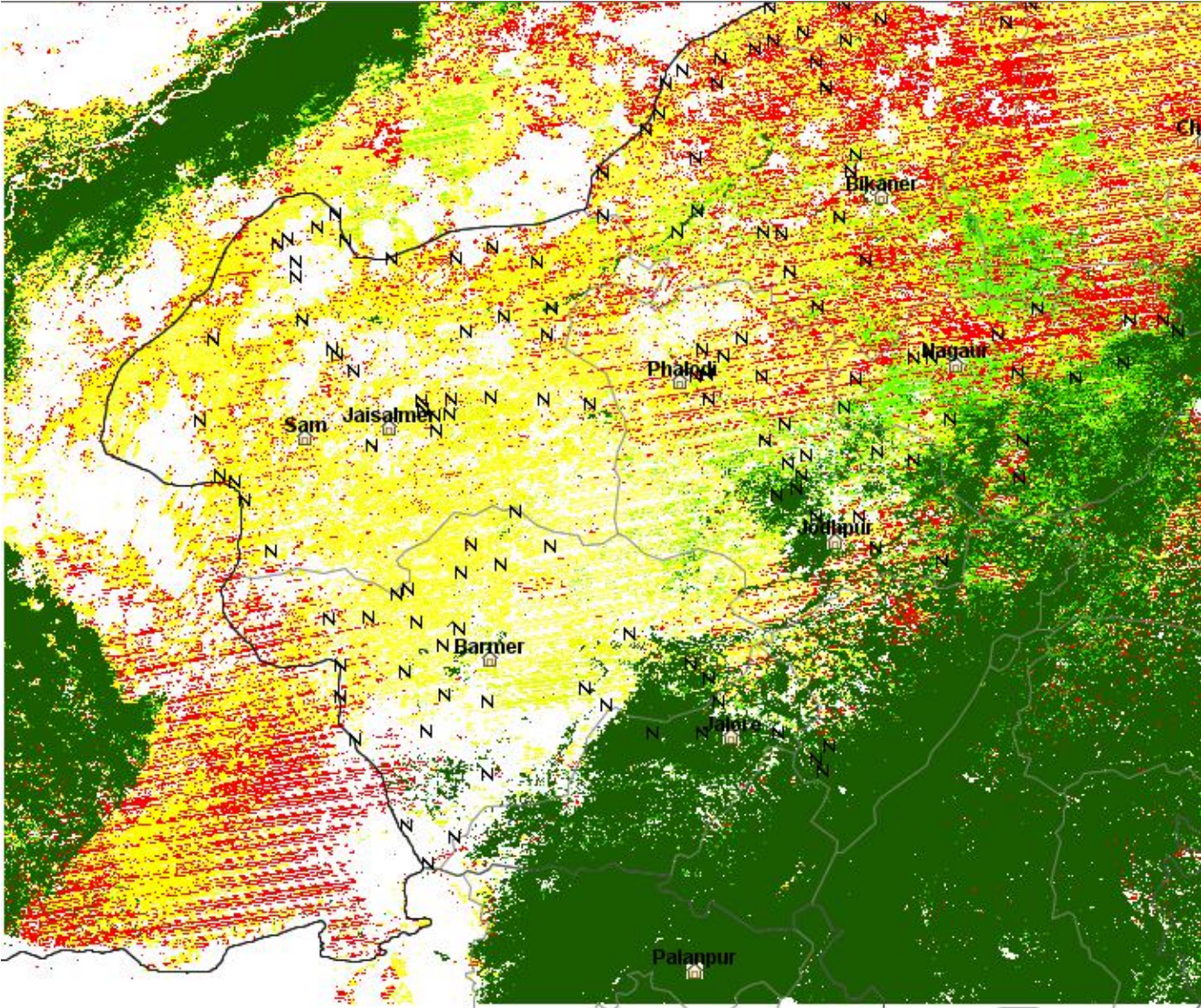
Map showing Locust situation for 16-30 September :-

N means survey were undertaken to that area and no locust population was observed



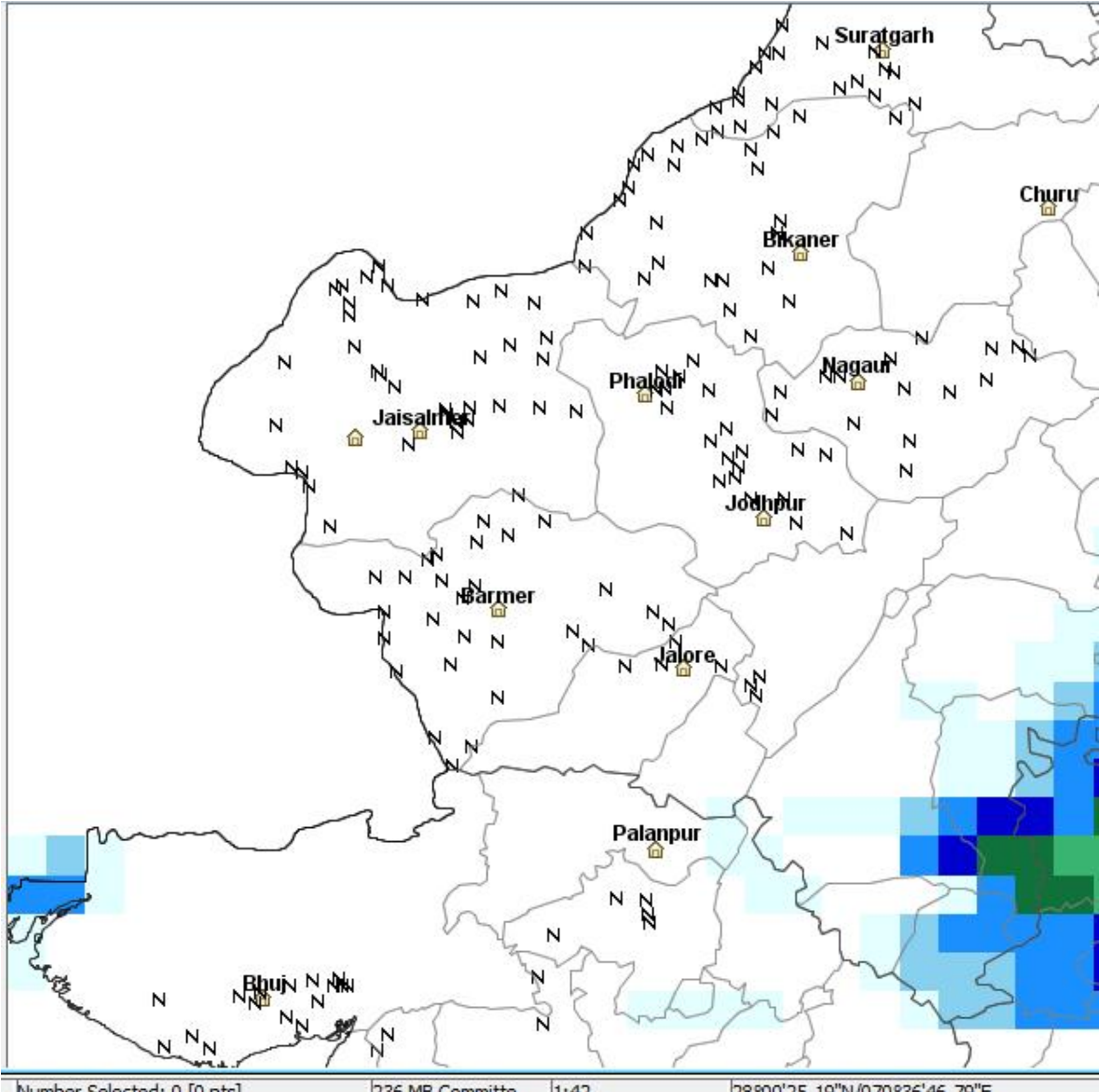
Green vegetation map

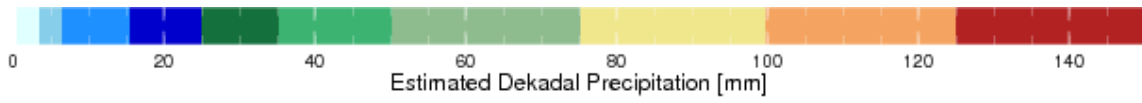
Map is showing the green vegetation of the field. The different color shows the life of the vegetation



Rainfall estimation map for 3rd decade of September 2017

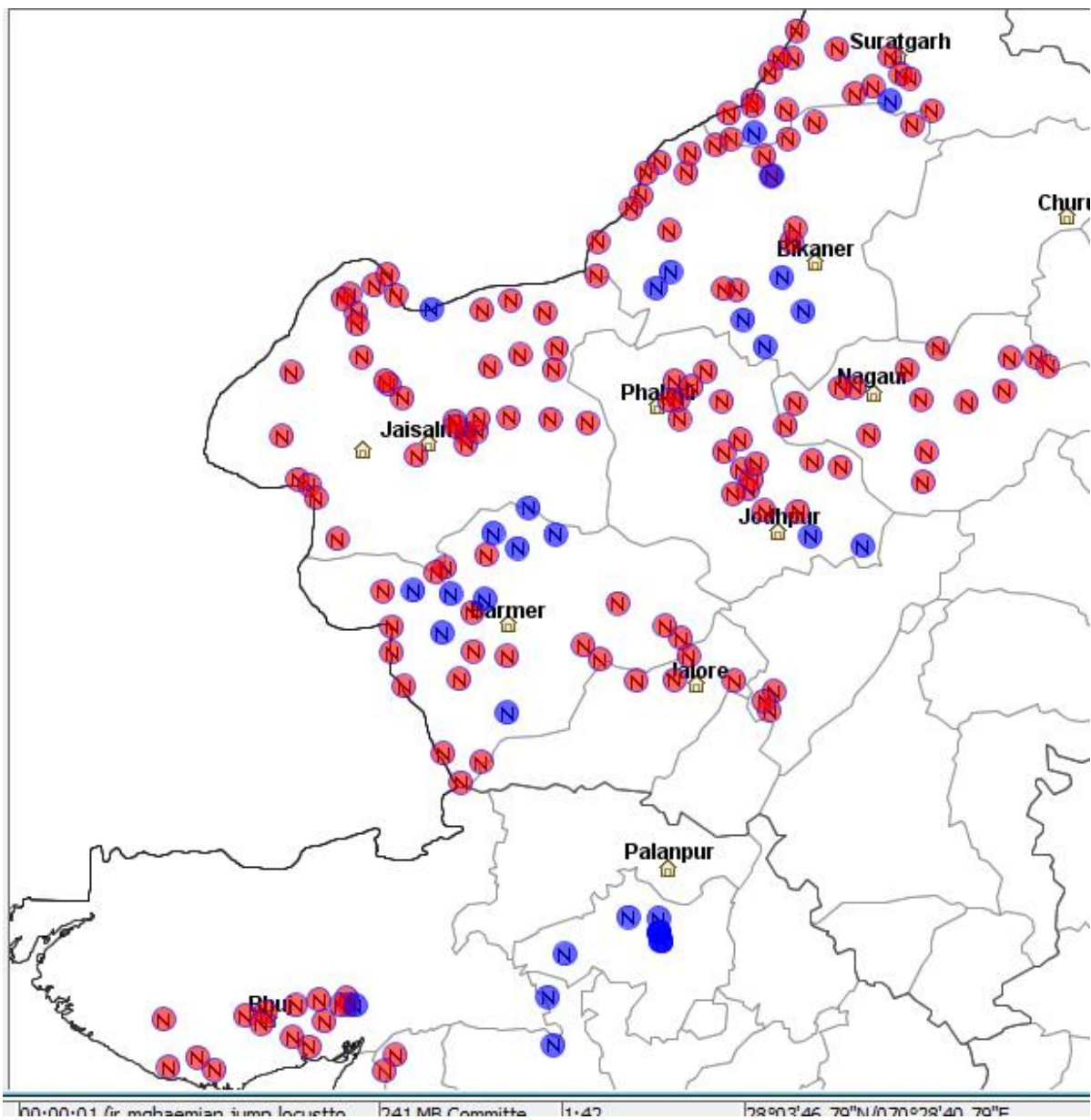
No rainfall observed during this period





Soil moisture during 2nd fortnight of September 2017 recorded by surveyor during surveys undertaken.

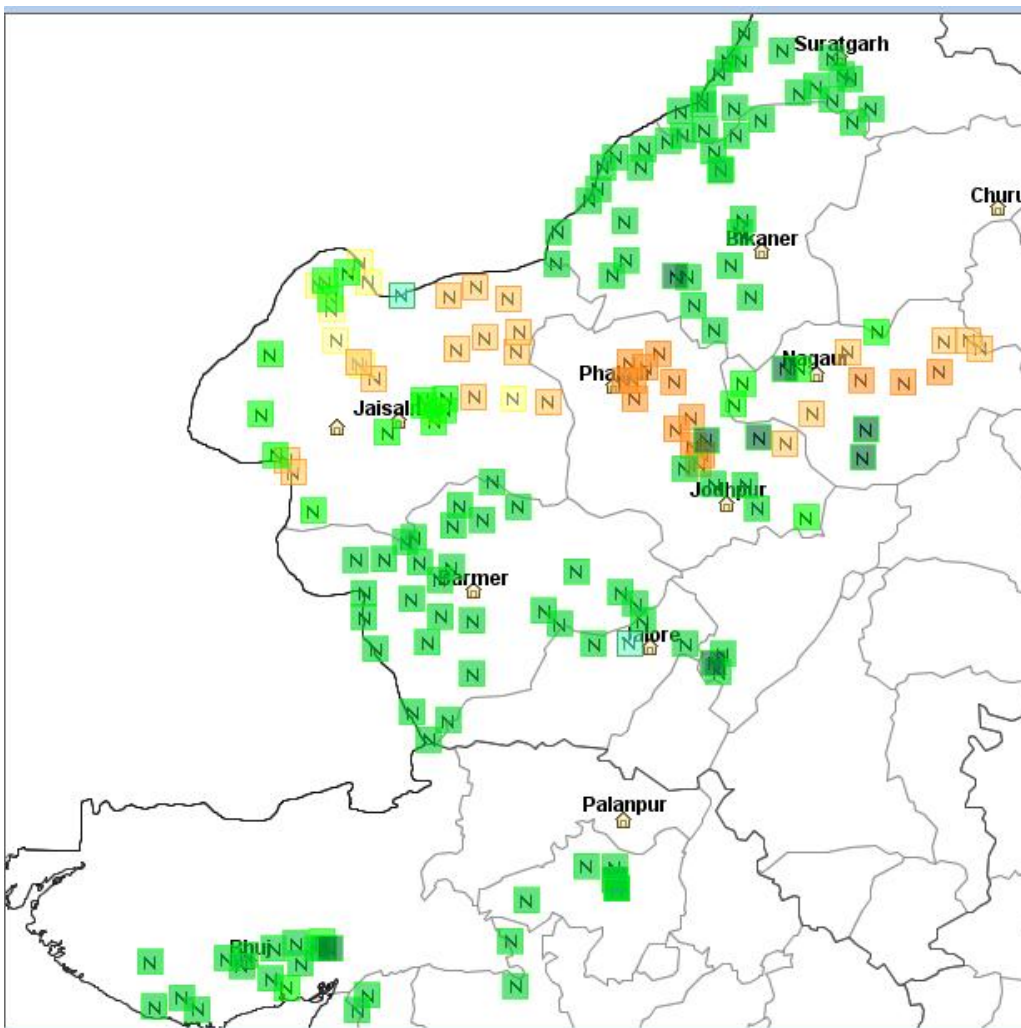
The soil in most area of SDA is wet











Legends

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

Green vegetation observed by the surveyors during conducting locust surveys in the 2nd fortnight of September 2017.
Almost all the area of SDA is green except area of Phalodi and Nagaur where it drying.



.....		<input type="checkbox"/>	Low-density greening
.....		<input type="checkbox"/>	Medium-density green
.....		<input type="checkbox"/>	Low-density green
.....		<input type="checkbox"/>	Dense drying
.....		<input type="checkbox"/>	Medium-density drying
.....		<input type="checkbox"/>	Low-density drying
.....		<input type="checkbox"/>	Medium-density dry
.....		<input type="checkbox"/>	Low-density dry