

Consolidated Agro-Meteorological Advisory for the farmers of Uttarakhand issued by Meteorological Centre, Dehradun with the cooperation of A.M.F.U. Ranichauri, Pantnagar and Roorkee valid from 27-07-2021 (08:30 IST) till 01-08-2021 (08:30 IST):

PART –I: WEATHER INFORMATION

Past weather from 23-07-2021 to 26-07-2021	Weather forecast valid from 27-07-2021 (08:30 IST) till 01-08-2021 (08:30 IST)
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HILLY REGION: A.M.F.U. RANICHAURI

<p>During the period, sky conditions remained generally cloudy to overcast. As per the meteorological data received from A.M.F.U. Ranichauri, light rain was recorded on 23rd & 26th July. Dry weather prevailed during rest of the period. Maximum temperature was between 20.4°C to 24.9°C. The minimum temperature was between 15.0°C to 16.6°C. Relative humidity was between 84% and 100%. Average wind speed was between 2 km/hour to 5 km/hour.</p>	<p>Light to moderate rain/thundershowers likely to occur at most places in Uttarakhand on 27th, 28th, 29th & 30th July. Light to moderate rain/thundershowers likely to occur at many places on 31st July, 2021.</p>
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A.M.F.U-PANTNAGAR (UDHAM SINGH NAGAR AND NAINITAL DISTRICT)

<p>During the period, sky conditions remained partly cloudy to overcast. As per the meteorological data of departmental observatory Pantnagar, moderate rain was recorded on 23rd July and very light rain was recorded on 26th July, 2021. Dry weather prevailed during rest of the period. Maximum temperature was between 31.5°C to 35.2°C and the departure from the normal was between -2°C and 2°C. The minimum temperature was between 24.7°C to 27.8°C and departure from the normal was between 0°C and 3°C. Relative humidity was between 64% and 97%. Average wind speed was between 1 km/hour to 4 km/hour.</p>	<p>Light to moderate rain/thundershowers likely to occur at most places in Uttarakhand on 27th, 28th, 29th & 30th July. Light to moderate rain/thundershowers likely to occur at many places on 31st July, 2021.</p>
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A.M.F.U-Roorkee (HARIDWAR, HILLY AREAS OF DEHRADUN AND PAURI DISTRICTS)

<p>During the period, sky conditions remained generally cloudy to overcast. As per the meteorological data of departmental observatory Dehradun, moderate rain was recorded on 25th & 26th July and very light rain was recorded on 23rd July, 2021. Maximum temperature was between 25.8°C to 34.4°C and the departure from the normal was between -4°C and 4°C. The minimum temperature was between 24.0°C to 25.6°C and departure from the normal was between 1°C and 2°C. Relative humidity was between 70% and 100%. Average wind speed was between 0 km/hour to 3 km/hour.</p>	<p>Light to moderate rain/thundershowers likely to occur at most places in Uttarakhand on 27th, 28th, 29th & 30th July. Light to moderate rain/thundershowers likely to occur at many places on 31st July, 2021.</p>
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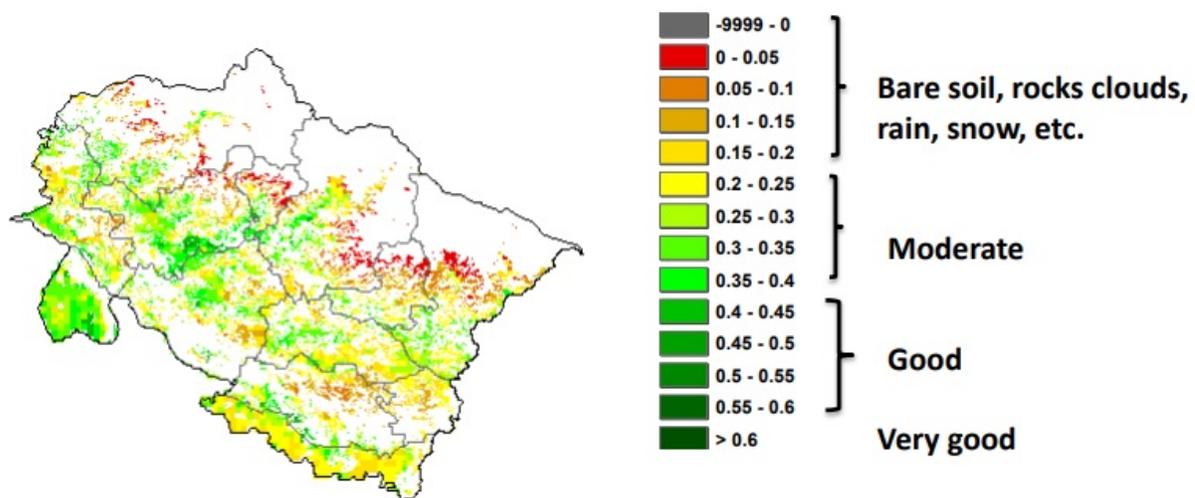
Outlook for next two days: No large change.

WARNING:

27.07.2021	<ul style="list-style-type: none"> •Heavy to very heavy rainfall with intense spells likely to occur at isolated places in Dehradun, Tehri, Nainital, Bageshwar and Pithoragarh districts of Uttarakhand. •Thunderstorm/lightning likely to occur at isolated places in Uttarakhand.
28.07.2021	<ul style="list-style-type: none"> •Heavy to very heavy rainfall with intense spells likely to occur at isolated places in Uttarkashi, Dehradun, Tehri, Pauri, Nainital, Bageshwar and Pithoragarh districts of Uttarakhand. •Thunderstorm/lightning likely to occur at isolated places in Uttarakhand.
29.07.2021	<ul style="list-style-type: none"> •Heavy to very heavy rainfall with intense spells likely to occur at isolated places in Uttarkashi, Dehradun, Tehri, Pauri, Nainital, Bageshwar and Pithoragarh districts of Uttarakhand. •Thunderstorm/lightning likely to occur at isolated places in Uttarakhand.
30.07.2021	Heavy rainfall with intense spells likely to occur at isolated places in Nainital, Champawat, and Pithoragarh districts of Uttarakhand.
31.07.2021	Heavy rainfall with intense spells likely to occur at isolated places in Nainital, Champawat, and Pithoragarh districts of Uttarakhand.

**NOAA/VIIRS/BLENDED NDVI Composite ending on Week no 29
(16.07.2021 to 22.07.2021) over Agricultural region**

Uttarakhand



Agricultural vigour is good over isolated places of the state.

Source: <https://www.star.nesdis.noaa.gov>

**PART –II: ZONAL AGRO-METEOROLOGICAL ADVISORY BASED ON THE ADVISORY
ISSUED BY A.M.F.U. RANICHAURI, PANTNAGAR AND ROORKEE**

HILLY REGION: A.M.F.U. RANICHAURI

Crops/ Animal Husbandry	Crop stage	Agro Meteorological Advisory
GENERAL ADVICE	-	<ul style="list-style-type: none"> Harvest mature fruits from vegetable crops as well as fruit plants. Bunding at terrace of rice fields should be done properly to reduce nutrient losses during moderate to heavy rainfall. Keep the bunds of the crop field clean by removing grasses. Maintain proper drainage channel in the vegetable and pulse crops.
MAIZE	-	Do not allow the rain water to stand in the crop field as this crop is highly sensitive to standing water and promotes bacterial stalk rot.
RICE	-	Farmers are advised to go for first hoeing or weeding in paddy fields where the crop has been transplanted in first week of July month.
FINGER MILLET	-	Keep continue thinning followed by gap filling should be done in finger millet.
GINGER	-	Ensure that the no rhizome should be expose to direct sunlight. Avoid water logging in the field maintained proper drainage channel.
POTATO	-	Dig out mature potato tubers and store them in a safe place.
MANDARIN ORANGE	-	Avoid water stagnation in the basin to prevent Gummosis or Foot rot incidence.
Poultry (CHICK)	-	Proper ventilation and spacing should be followed in poultry farm to prevent the incidence of diseases
Animal Husbandry	COW	Protect wounds from flies to avoid maggots infestation.

A.M.F.U-PANTNAGAR (UDHAM SINGH NAGAR AND NAINITAL DISTRICT)

Crops/ Animal Husbandry	Crop stage	Agro Meteorological Advisory
GENERAL ADVICE	-	<ul style="list-style-type: none"> In view of the second wave of Corona (Covid-19), the farmers are advised to follow the guidelines given by the Government of India, personal hygiene, use of masks, washing hands at appropriate intervals during agricultural operations.
SESAME (GINGELLY/TIL)	-	<p><u>Udham Singh Nagar</u> Sowing of sesame crops should be done in this fortnight by keeping in view the weather forecast.</p>
RICE	-	<p><u>Nainital</u> Remove weeds by weeding and hoeing in the Jethi paddy crop sown last month. Topdressing of Urea @ 1.25 kg/naali should be done in the crop after rain or when there is suitable moisture available in the soil.</p> <p><u>Udham Singh Nagar</u> Transplanting of paddy should be completed this month. Spray fertilizers and weedicides according to the recommendation and keeping in mind the weather forecast.</p>
PIGEON PEA (RED GRAM/ARHAR)	-	<p><u>Udham Singh Nagar</u> Weeding and hoeing should be done in the crop sown in the month of June.</p>

GREEN GRAM	-	<u>Udham Singh Nagar</u> Moong varieties like Pant moong 4 & Pant moong 5 should be selected for sowing in the second fortnight of July. Seed treatment of moong should be done with 2 g thiram and 1 g carbendazim for 1 kg of seed.
POTATO	-	<u>Nainital</u> Moth-affected tuber crop of potato should not be stored. Spray Malathion 10 ml per liters of water on the store before storing the potato.
BRINJAL	-	<u>Nainital</u> Do not let the rainwater accumulated in the field.
BOTTLE GOURD	-	<u>Udham Singh Nagar</u> Make scaffolding in bottle gourd crop. Proper drainage should be maintained in the field of vegetable crops.
BRINJAL	-	<u>Udham Singh Nagar</u> Arrangement for proper drainage should be done in the field of the brinjal crop.
TOMATO	-	<u>Nainital</u> Keeping in view of weather forecast farmers are advised, do not let the rainwater accumulated in the tomato crops.
SOYABEAN	-	<u>Nainital</u> In low and mid-hills, weeding and hoeing should be done in the soybean crops by keeping in view the weather forecast.
Animal Husbandry	GOAT	If the animals have not yet been vaccinated against FMD, hemorrhagic Septicaemia, Black Quarter, Enterotoxemia, etc., this must be done at this time. Adult sheep and goats must be vaccinated against Enterotoxemia.
	COW	Do not let animals graze in irrigated fodder fields, since after the long summer, the sudden growth in the fodder due to the onset of monsoons, leads to the presence of poisonous cyanide in it. This is especially so in the Jowar crop. These fodder crops should, therefore, not be harvested before time or fed to animals.

A.M.F.U-ROORKEE (HARIDWAR, HILLY AREAS OF DEHRADUN AND PAURI DISTRICTS)

Crops/ Animal Husbandry	Crop stage	Agro Meteorological Advisory
GENERAL ADVICE	-	<ul style="list-style-type: none"> • Looking to the forecast of heavy rainfall farmers are advised to do the proper measures of drainage in standing crops. • Avoid spraying of pesticides and application of fertilizer in standing crops during this week.
RICE	-	<ol style="list-style-type: none"> 1. Anticipating heavy rainfall prepare the main field for transplanting rice so as to save both ground and surface water sources. 2. Make provision of drainage in the freshly transplanted rice field to drain out excess water from anticipated rainfall otherwise the planted seedlings will get uprooted and get floated 3. If not transplanted, postpone the transplanting by 2-3 days.
MAIZE	-	Do the proper arrangements of drainage to remove the excess amount of water from the field.
SUGARCANE	-	<ol style="list-style-type: none"> (1) Do the proper arrangements of drainage to remove the excess amount of water from the field. (2) Tie the 2-3 plants of sugarcane crop so that it can be prevent from falling

OKRA/ LADYFINGER	-	Continue the picking of pods of ladyfinger. Do proper measures of drainage to remove the excess amount of rain water from the field.
GUAVA	-	Do the proper measures of drainage in the newly transplanted orchard of fruit plants.
SORGHUM (JOWAR/GREAT MILLET)	-	In order to avoid the water logging conditions in the field of fodder crop do proper arrangements of drainage.
Animal Husbandry	COW	Keep the sheds of pregnant cattle non slippery. Provide the fresh water for drinking to the cattle. Give 20-30 gm/day mineral mixture to milch animal.

(बिक्रम सिंह)
हेड /वैज्ञानिक 'एफ़'
मौसम विज्ञान केंद्र, देहरादून

LEGENDS:

WARNING (TAKE ACTION)	WATCH(BE UPDATED)
ALERT(BE PREPARED)	NO WARNING (NO ACTION)

INTENSITY		DISTRIBUTION		PROBABILITY OF OCCURRENCE	
VERY LIGHT	TRACE - 2.4 mm	ISOLATED	ISOLATED (UPTO 25% AREA)	UNLIKELY	Up to 25%
LIGHT	2.5- 15.5 mm	FEW	SCATTERED (BETWEEN 25-50% AREA)	LIKELY	26 to 50%
MODERATE	15.6 – 64.4 mm	MANY	FAIRLY WIDE SPREAD (BETWEEN 50-75% AREA)	VERY LIKELY	51 to 75%
HEAVY	64.5- 115.5 mm	MOST	WIDE SPREAD (MORE THAN 75% AREA)	MOST LIKELY	Above 75%
VERY HEAVY	115.6- 204.4 mm				
EXTREMELY HEAVY	> 204.4 mm				