

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 06-08-2021 (08:30 IST) till 11-08-2021 (08:30 IST):

**PART –I: WEATHER INFORMATION**

<b>Past weather from 30-07-2021 to 05-08-2021</b>	<b>Weather forecast valid from 06-08-2021 (08:30 IST) till 11-08-2021 (08:30 IST)</b>
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**HILLY REGION: A.M.F.U. RANICHAURI**

<p>During the week, sky conditions remained generally cloudy to overcast. As per the meteorological data received from A.M.F.U. Ranichauri, light rain was recorded on 30<sup>th</sup> July &amp; 5<sup>th</sup> August and very light rain was recorded on 3<sup>rd</sup> August. Dry weather prevailed during rest of the week. Maximum temperature was between 20.3°C to 25.5°C. The minimum temperature was between 14.8°C to 15.6°C. Relative humidity was between 82% 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 9<sup>th</sup> August. Light to moderate rain/thundershowers likely to occur at many places on 8<sup>th</sup> &amp; 10<sup>th</sup> August and at a few places on 6<sup>th</sup> &amp; 7<sup>th</sup> August, 2021.</p>
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**A.M.F.U-PANTNAGAR (UDHAM SINGH NAGAR AND NAINITAL DISTRICT)**

<p>During the week, sky conditions remained partly cloudy to generally cloudy. As per the meteorological data of departmental observatory Pantnagar, light rain was recorded on 30<sup>th</sup> July &amp; 3<sup>rd</sup> August and very light rain was recorded on 1<sup>st</sup> &amp; 2<sup>nd</sup> August, 2021. Dry weather prevailed during rest of the week. Maximum temperature was between 32.6°C to 34.9°C and the departure from the normal was between 0°C and 2°C. The minimum temperature was between 25.2°C to 27.4°C and departure from the normal was between 0°C and 3°C. Relative humidity was between 63% and 92%. Average wind speed was between 2 km/hour to 10 km/hour.</p>	<p>Light to moderate rain/thundershowers likely to occur at most places in Uttarakhand on 9<sup>th</sup> August. Light to moderate rain/thundershowers likely to occur at many places on 8<sup>th</sup> &amp; 10<sup>th</sup> August and at a few places on 6<sup>th</sup> &amp; 7<sup>th</sup> August, 2021.</p>
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**A.M.F.U-ROORKEE (HARIDWAR, HILLY AREAS OF DEHRADUN AND PAURI DISTRICTS)**

<p>During the week, sky conditions remained generally cloudy to overcast. As per the meteorological data of departmental observatory Dehradun, moderate rain was recorded on 30<sup>th</sup>, 31<sup>st</sup> July, 4<sup>th</sup> &amp; 5<sup>th</sup> August, light rain was recorded on 2<sup>nd</sup> August and very light rain was recorded on 01<sup>st</sup> &amp; 3<sup>rd</sup> August, 2021. Maximum temperature was between 29.2°C to 33.4°C and the departure from the normal was between -1°C and 4°C. The minimum temperature was between 22.7°C to 25.3°C and departure from the normal was between 0°C and 3°C. Relative humidity was between 65% and 100%. Average wind speed was between 1 km/hour to 3 km/hour.</p>	<p>Light to moderate rain/thundershowers likely to occur at most places in Uttarakhand on 9<sup>th</sup> August. Light to moderate rain/thundershowers likely to occur at many places on 8<sup>th</sup> &amp; 10<sup>th</sup> August and at a few places on 6<sup>th</sup> &amp; 7<sup>th</sup> August, 2021.</p>
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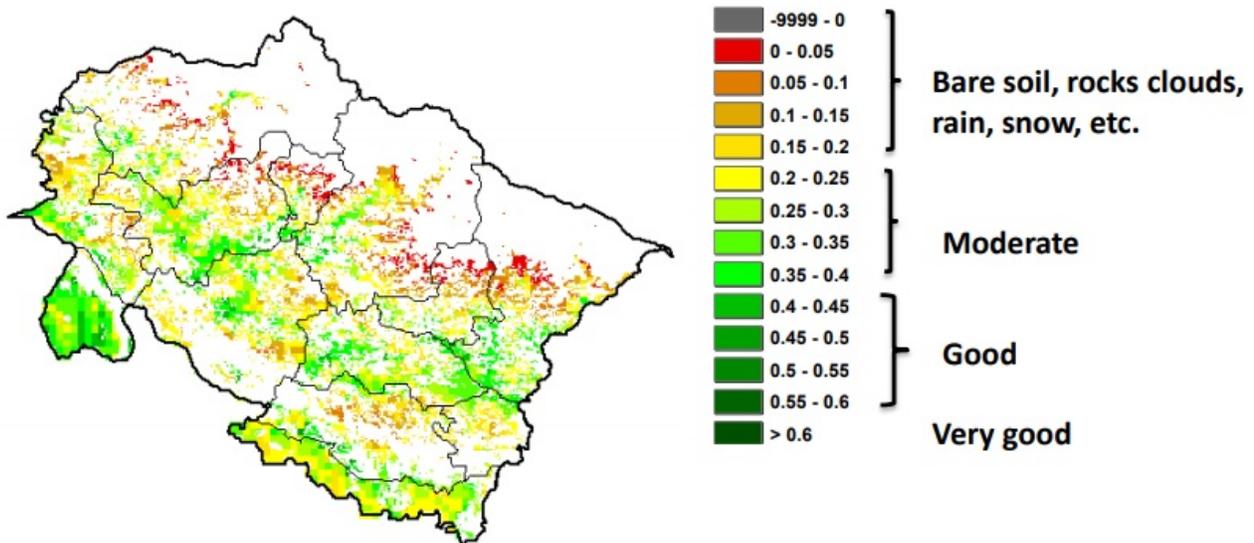
**Outlook for next two days:** Decrease in rainfall.

**WARNING:**

06.08.2021	Thunderstorm accompanied with intense showers and lightning likely to occur at isolated places in especially in hills of Uttarakhand.
07.08.2021	Thunderstorm accompanied with intense showers and lightning likely to occur at isolated places in especially in hills of Uttarakhand.
08.08.2021	Heavy rainfall with intense spells likely to occur at isolated places in Dehradun, Nainital, Champawat and Pithoragarh districts of Uttarakhand.
09.08.2021	Heavy rainfall with intense spells likely to occur at isolated places in Dehradun, Nainital, Bageshwar, Champawat and Pithoragarh districts of Uttarakhand.
10.08.2021	Heavy rainfall with intense spells likely to occur at isolated places in Dehradun, Tehri, Nainital, Champawat and Pithoragarh districts of Uttarakhand.

**NOAA/VIIRS/BLENDED NDVI Composite ending on Week no 30  
(23.07.2021 to 29.07.2021) 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**

<b>Crops/ Animal Husbandry</b>	<b>Crop stage</b>	<b>Agro Meteorological Advisory</b>
GENERAL ADVICE	-	<ul style="list-style-type: none"> <li>Regularly monitor the field crops and apply bioagents like Beauveria bassiana, Bacillus thuringiensis, Trichogramma (Bio agents) as an alternative to chemical pesticides for managing insect pests. In view of Covid-19 pandemic, 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.</li> <li>Planting of evergreen fruit plants can be done in this season. Keep the basin of the plants slightly higher than rest of orchard soil.</li> </ul>
RICE	-	Keep the bunds of the field clean by removing grasses. Manage rodent pests in rice crop.
BARNYARD MILLET	-	Trichogramma (endoparasites of lepidopteran eggs), a bio agent can be used for control of butterflies, moths, and skippers.
GUAVA	-	Keep the basin of the plants slightly higher than rest of orchard soil.
CAPSICUM	-	Fruit picking should be done in morning or evening time. Proper drainage should be maintained in the field of capsicum crop.
CHILLI	-	Proper drainage should be maintained in the field of chilli crop. Protect the crop from fruit rot and die back disease in chilli by spraying 750gm Blitox in 250 litres of water per acre (20 nali) after weather clears up.
Animal Husbandry	BUFFALO	During the rainy season chances of attack of parasites increases due to increase in humidity in the atmosphere. Farmers are advised to control ticks and mites.

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

<b>Crops/ Animal Husbandry</b>	<b>Crop stage</b>	<b>Agro Meteorological Advisory</b>
GENERAL ADVICE	-	<ul style="list-style-type: none"> <li>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.</li> </ul>
SUGARCANE	-	<p><b><u>Udham Singh Nagar</u></b> Keeping in mind the rainfall condition, tying of 5-6 sugarcane in each line should be done at the height of around 2 feet with dried leaves to save them from heavy rain and high wind. Keeping in view the rainfall forecast, it is advised that proper drainage should be maintained in the field.</p>
MAIZE	-	<p><b><u>Nainital</u></b> Keeping in view the possibility of rain in the coming days, do not irrigate the maize crop.</p> <p><b><u>Udham Singh Nagar</u></b> Late sowing of maize should be completed by the first week of August.</p>

OKRA/ LADYFINGER	-	<b><u>Nainital</u></b> To control the yellow vein mosaic virus, remove and destroy the infected plants. <b><u>Udham Singh Nagar</u></b> To control the yellow vein mosaic virus, remove and destroy the infected plants.
VEGETABLE PEA	-	<b><u>Nainital</u></b> In unirrigated (rainfed) mid hilly regions, the arrangement of the seeds of an early variety of pea should be done for sowing them in the mid of August. Seed selected for sowing must be treated before sowing.
PUMPKIN	-	<b><u>Udham Singh Nagar</u></b> On the occurrence of contracted piebald leaves, infected plants should be removed. To control the juice-sucking insect in these crops, sarvangi insecticide should be sprayed by keeping in view the weather forecast.
MANGO	-	<b><u>Udham Singh Nagar</u></b> In the first fortnight of August, the sowing of mango seeds/kernels should be continued. Before grafting the one-year-old seed plants of mango, transplant them in other places then continue the grafting. The establishment of a new orchard should be done. A necessary arrangement should be done for the proper drainage of rainwater.
CHILLI	-	<b><u>Nainital</u></b> Proper drainage should be maintained in the field of chilli crop because if water remains in the field for 24 hours, the crop dries up. If the upper stipe of chili crop is drying after turning black, then infected branches should be removed by plucking to save the crop, and to save the crop from rotting solution of 0.1% Carbendazim should be sprayed but keeping in view the rainfall condition.
Animal Husbandry	BUFFALO	Rainwater should not be given to animals. To save the animals from infected diseases, vaccination should be done on the recommendation of a veterinarian.
Poultry (HEN)	-	<b><u>Udham Singh Nagar</u></b> For getting the maximum profit in the production of poultry, timely vaccination of the poultry birds should be done.

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

<b>Crops/ Animal Husbandry</b>	<b>Crop stage</b>	<b>Agro Meteorological Advisory</b>
GENERAL ADVICE	-	• Avoid spraying of pesticides/insecticides during rain.
RICE	-	1. Continue the transplanting of rice crop. 2. For vegetative growth of rice crop- the crop requires the much water, which possibly be replenished by good rainfall in the upcoming days, therefore farmers are advised to do the proper arrangement of withhold the rainwater in their field.
MAIZE	-	Do not irrigate the crop due to forecast of rainfall. Remove the weeds manually from the field of maize crop.
SUGARCANE	-	Drain out the excess amount of rainwater from the field of sugarcane crop. Looking to the forecast of rainfall farmers are advised to avoid spraying of pesticides/ insecticides during this week.
OKRA/ LADYFINGER	-	Keep the weather forecast in the view while doing the second top dressing of nitrogen in the field of okra/ladyfinger.

PIGEON PEA (RED GRAM/ARHAR)	-	Watch the arhar crop regularly and if any pest or disease appears then do the protection measures accordingly.
BRINJAL	-	Those farmers who want to transplant the nursery of brinjal during this week they are advised to keep the weather forecast in their view while transplanting.
FISHIERIES (CARP)	-	Do disinfection of newly introduced stock.
Animal Husbandry	COW	Looking to the weather conditions as per forecast, there is possibility of outbreak of foot rot disease in the animals, hence farmers are advised to immerse the hoof / foot of the affected animal in 10% solution of Formaline or 5% solution of Copper Sulfate for 2 to 3 minutes in the morning and evening.

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

**LEGENDS:**

<b>WARNING (TAKE ACTION)</b>	<b>WATCH(BE UPDATED)</b>
<b>ALERT(BE PREPARED)</b>	<b>NO WARNING (NO ACTION)</b>

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				