



Summary of Agromet Advisory Services for different States of the country
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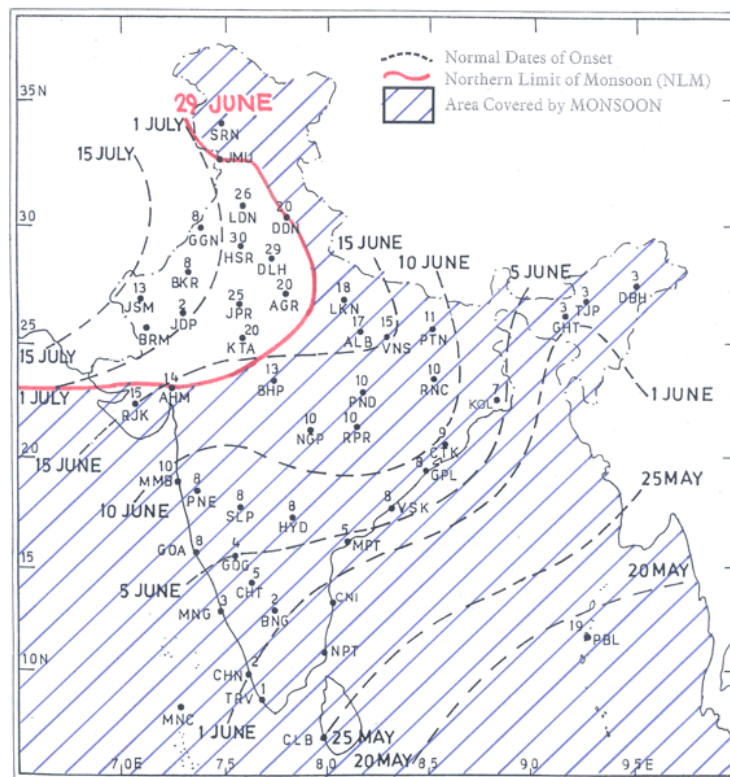
Thursday, 29th June, 2006

(For the period 29th to 3rd July, 2006)

The extended version of the bulletin is also available at <http://imdagrmet.org>

Progress of Southwest Monsoon

PROGRESS OF SOUTHWEST MONSOON 2006



Southwest monsoon has advanced into some more parts of **Gujarat**; remaining parts of **Vidarbha, Chhattisgarh** and **East Uttar Pradesh**; some parts of **West Uttar Pradesh**, many parts of **Madhya Pradesh, Uttaranchal** and **Himachal Pradesh** and most parts of **Jammu & Kashmir**. Northern Limit of Monsoon passes through 23°N/65°E, Bhuja, Ahmedabad, Guna, Jhansi, Baryilly, Dehradun, Shimla, Dharamshala and Jammu.

North West India (Haryana, Punjab, Rajasthan, Uttar Pradesh, Delhi, Himachal Pradesh, Jammu & Kashmir, Uttaranchal)

Punjab & Haryana

Most of the districts of **Haryana** received **excess** rainfall during last week except in **Chandigarh, Gurgaon, Bhiwani., Jind, Mahendragarh, Sonpet** where it was **deficient, scanty** or **no rain** during last week.

All districts of Punjab received **excess rain** except **Muktasar** and **Sangrur** where it was **no rain** during last week.

Rain / thundershowers are likely at many places with isolated squall likely over the State.

Advisories

- Continue transplanting of rice using recommended varieties as there was rain during last week and rain/thundershowers are likely at many places.
- Transplant rice only recommended varieties and avoid excessive use of nitrogen to prevent bacterial leaf blight. Add 37 kg urea to the transplanted rice
- Rain/thundershowers are likely at many places and farmers are advised to keep rain water standing in the fields
- **This is proper time for sowing groundnut.** Continue sowing of healthy seeds of irrigated varieties with adequate irrigation facilities and treat it with fungicides before sowing.
- Start sowing only recommended varieties of maize Apply 15kg urea 150kg single super phosphate, 40kg murate potash and 10 kg Znso4 per acre depending on rainfall. Keep treat the seed before sowing with thrium 4kg per acre to control the attack of maize borer.
- Complete sowing arhar varieties. Start sowing summer moong and mash using recommended varieties.

Rajasthan

Duststorm/ Thunderstorm/ Light to moderate rainfall recorded at isolated places in all the divisions of the state.

Rain /Thundershowers are likely to occur at few places over East Rajasthan and at isolated places over West Rajasthan.

Advisories

- There was no significant rainfall except in Chittorgarh, Dausa, Dunkarpur, Jhunjhu , Sawai Madhopur, Sikar, Udaipur in east Rajasthan and rain or Thundershowers is likely to occur at few places over East Rajasthan for the next three days. Under the circumstances apply irrigation to **Kharif cotton** depending on the rainfall situation. Apply irrigation in the above mentioned districts depending on soil stored moisture and rainfall situation.
- There was no significant rainfall except in Barmer, Bikaner, Hanumankar and Sriganganagar in west Rajasthan and rain or Thundershowers is likely to occur at isolated places over west Rajasthan for the next three days. Under the circumstances apply required irrigation to **Kharif cotton** to bring the soil moisture to field capacity. Apply irrigation in the above mentioned districts depending on the soil profile stored moisture.
- Continue sowing of **groundnut** crop in west Rajasthan and in a non rainy day in east U.P. Select varieties from M-335, M-13, Chandra, MA-10, RG-141, RS-1etc.

Uttar Pradesh

Southwest monsoon advanced further in remaining parts of East U.P. and some parts of West U.P. on 29th June. Rain occurred at many places in **Gorakhpur, Lucknow, Meerut** divisions and few places in remaining divisions of the state on 26th June. Rain occurred at most places in **Gorakhpur, Varanasi, Faizabad** and **Lucknow** divisions and at many places in **Barielly** division and few places in remaining division of U.P. on 27th June. Rain occurred at many places in **Gorakhpur, Varanasi, Bareilly , Moradabad** divisions and many places in **Kanpur** division and few places in remaining divisions of the state on 28th June.

Rain/thundershowers are likely at many places over the State.

Heavy rain likely at isolated places in all divisions of the state during next 48 hours.

Advisories

- There was no significant rainfall in the State except in Banda, Faizabad, Kheri, Ghazipur, Lucknow, Mirzapur, Gorakpur, Jaunpur, Sidharthnagar, and Sitapur districts in East U.P and Agra, Baghpat, Firozabad, Mahamaya Nagar, and Shahjahanpur districts in West U.P and rain/thundershowers are likely at many places over the State for next three days. Under the circumstances, postpone irrigation to the summer sugarcane, and mango crops.
- Postpone sowing of rice, maize, jowar, bajra, kharif pulses and oilseeds during rainy days.

Himachal Pradesh

Rain/thundershowers are likely at many places over the region.

Advisories

- As rain / thundershowers are likely at many places over the State, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to vegetables, moong, apple and maize.
- Continue sowing of vegetables and transplanting of rice after current spell of rain. Select varieties Prabhani Kranti, Arka Anamika for bhindi in middle hills, variety Conender for frenchbean, variety California wonder for Capsicum and varieties Arka Nidhi, PPC for brinjal.

Uttaranchal

Light to moderate rain was recorded at isolated places on 23rd June, and at a few places on 24th to 28th, June. Sky remained partly to generally cloudy.

Rain/thundershowers are likely at many places over the State.

Isolated heavy rainfall (7-12 cm) is likely over the State.

Advisories

- As there was excess rain in Champawat, and Haridwar districts during last week and rain/thundershowers are likely at many places over the State for next three days, postpone irrigation to mango, apple, and sugarcane and vegetables crops.
- Continue field preparation and nursery sowing of rice & cauliflower after the current spells of rain.

Jammu & Kashmir

Light to moderate rain/thundershowers occurred at few places with heavy falls at isolated places on 27th & 28th June. Light rain occurred at isolated places on 26th June.

Rain/ thundershowers likely to occur at few places in J & K state.

Advisories

- Continue land preparation and nursery sowing of rice, maize and fodder crops on a non rainy day as the monsoon has arrived on the State.
- Light to moderate rainfall occurred at a few places in the State during last week and rain/thundershowers are likely to occur at a few places in J&K state. Under the circumstances, apply required irrigation to summer vegetables, pulses, rice and maize crops depending on the rainfall situation.

Delhi

Moderate to heavy rain occurred on 27th and 28th June at many places. Light rain occurred on 26th June at a few places.

Rain / thundershowers are likely at many places over the region.

Advisories

- As there was excess rain during last week and rain / thundershowers are likely at many places over the State for next three days, postpone irrigation to summer vegetable crops, green gram, black gram,

fodder crops and early sown arhar.

- Prepare land for sowing of arhar, maize, bajra, fodder crops and for transplanting of rice, cauliflower, cabbage, brinjal, tomato and chilly after current spell of rain.
- Select arhar varieties like Upas – 120, Manak and T21 and maize varieties like Ganga, Vikram and Kissan for sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain occurred at most places in Kerala on 26th, 27th & 28th June.

Rain / thundershowers are likely at many places over the State.

Isolated heavy rainfall (7-12 cm) is likely over Kerala.

Advisories

- Attack of bud rot and fruit rot (Mahali) disease is reported in arecanut. Spray Bordeaux mixture 1% to control the disease after spells of rain.
- Attack of stem bleeding and bud rot disease and red palm weevil is reported in coconut. Chisel out the affected tissues and paint the wound with tridemorph 5 % and apply coal tar after 1-2 days to control stem bleeding. Use Indofil M-45, @ 4 gm per lit. of water for controlling bud rot. Use Pheromone trap to control red palm weevil. Spraying of chemicals may be undertaken after spells of rain.
- Pollu beetle and Quick wilt disease is reported in pepper. Spray Quinalphose 0.5 % to control Pollu beetle disease and apply Bordeaux mixture @ 1% to control the Quick wilt disease after spells of rainfall.
- Attack of leaf folder & thrips is reported in Virippu rice. Spray Quinalphose 25 EC @ 750 ml/ litre to control the pests after spells of rainfall
- Attack of Sigatoka leaf spot and bunchy top is reported in Banana. Spray 1 % Bordeaux mixture to control leaf spot after spells of rain. Eradicate bunchy top affected plants to reduce the spread of the disease.
- Continue new planting or intercultural operations in coconut, arecanut and rubber after spells of rain.
- Excess rainfall occurred in all the districts in the State except in Wyanad and rainfall is likely to occur at many places for the next three days. Under the circumstances, postpone irrigation to plantation crops and pepper. As rainfall is likely to occur at many places, postpone irrigation in Wyanad also.
- Continue fertilizer application in pepper, rubber and banana after spells of rain.

Tamilnadu

Rainfall occurred at isolated places over the state on 26th, 27th, 28th June 2006.

Rain / thundershowers are likely to occur at isolated places over the State.

Advisories

- Rainfall is likely to occur at isolated places only over the state for the next three days in the state. Under the circumstance, apply required irrigation to cotton, early/mid sugarcane and millets to bring the soil moisture to its field capacity where there was no significant rainfall. Apply irrigation depending on the soil profile stored moisture where there was excess rainfall during last week.
- Maintain 3 – 5 cm water in the Navarai rice field.
- Continue intercultural operations, application of fertilizers in millet crops.
- Harvesting of late season sugarcane may be continued.

- Farmers are advised to prepare the field and take up sowing of *kharif* crops.

Karnataka

Rainfall occurred at most places on all the days over Coastal Karnataka. Over North Interior Karnataka, rainfall occurred at a few places on 26th & 28th and at isolated places on 27th. Over South Interior Karnataka, rainfall occurred at a few places on all the days.

Rain/thundershowers likely to occur at many places over the State.

Heavy to very heavy rainfall (7-25 cm) is likely at a few places over Coastal Karnataka.

Advisories

- There was no significant rainfall in the State during last week except in **Dakshin Kannada, Udupi, Uttar Kannada, Bagalkote, Belgaum, Bidar, Bijapur, Gadag, Gulbarga, Koppal, Dharwad, Bellary, Chikmagalur, Chitradurga, Kodagu, Mysore** districts and rain/thundershowers are likely to occur at many places in the State for the next three days. Under the circumstances postpone irrigation to **sugarcane** crop.
- Farmers are advised to continue sowing of *kharif* crops viz. **rice, jowar, maize, groundnut and cotton** after the current spells of rain.

Andhra Pradesh

Rain/thundershowers are likely at many places over Coastal Andhra Pradesh and at a few places over the rest region

Advisories

- Land preparation and sowing of rice in nursery bed and other *kharif* crops may be continued after spells of rain in coastal AP and on a non rainy day in the rest region.

Eastern Region (Assam, Bihar, Sikkim, West Bengal)

Assam

Rain / thundershowers are likely at many places over Assam.

Advisories

- This is the proper time for sowing of **Sali paddy** and **arhar**.
- Rain/thundershowers are likely at many places over Assam
- As there was rainfall during last week and rain / thundershowers are likely at many places, **sugarcane** should be provided with mechanical support to prevent lodging.
- Since **maize** crop is highly susceptible to water logging provision of surface drainage should be made in the field.
- Avoid irrigation as rain / thundershowers are likely at many places.
- Postpone application of fertilizer and pesticides as rain / thundershowers are likely at many places.
- Under the prevailing weather start sowing of **arhar** and **Sali rice**.

West Bengal

Rain / thundershowers are likely at many places over the State.

Advisories

- As rain / thundershowers are likely at many places over the State for next three days, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to **sugarcane, green gram and jute**.
- Maintain 3 – 5 cm water in **aus rice** field.

- Continue land preparation and sowing of *kharif* vegetables and nursery sowing of *aman* rice after current spell of rain.

Bihar

Rainfall occurred almost at all places over Bihar. Rain occurred at few places on rest days of the week.

Rain/Thundershower likely to occur at many places over Bihar.

Advisories

- There was excess rainfall in the state during last week and rain/thundershowers are likely to occur at many places over the State for the next three days. Under the circumstances, postpone irrigation to vegetables, maize, pulses, and oilseed crops.
- Sowing of short duration rice varieties like Saket-4, Prabhat, radhiva etc. or photosensitive variety like Ragani, Kamini etc. may be done after the current spells of rain where the sowing is not completed.
- Continue application of top dressed Nitrogen in maize after current spells of rain.

Jharkhand

Light to moderate rains occurred at a few places.

Rain or Thundershowers is likely to occur at few places over the state.

Advisories

- Nursery sowing of rice may be undertaken where irrigation facilities are available in non rainy days in middle & lowland.
- Farmers who have already prepared their fields can sow the upland crops rice, maize, mandua, groundnut, arhar, urad etc. in non rainy days.

Sikkim

Sky remained cloudy during the period.

Moderate to nearly heavy rain occurred at many places on 26th and 27th June. Light rain occurred at a few places on 28th June over East Sikkim. Rainfall was normal during the period.

Rain/ thundershowers are likely to occur at many places over the State.

Heavy rain is likely to occur at isolated places over the State during next 24 hrs.

Advisories

- There was normal rainfall in the State during last week and rain/ thundershowers are likely to occur at many places over the State for the next three days. Under the circumstances, postpone irrigation to orange, maize, potato and large cardamom crops.
- Rouge out chirke and foorkey affected large cardamom plants and destroy them by burning.
- Prepare nursery for sowing of *Kharif* rice after current spells of rain.

Arunachal Pradesh

Rain/Thundershower occurred at most places on 22nd, 27th and 28th June, at many places on 24th and 26th June and at a few places on 23rd and 25th June.

Sky remained mainly cloudy over the state during the week.

Rain/thundershowers are likely at a few places over the State. Rainfall activity likely to decrease after 24 hours.

Advisories

- Continue harvesting of matured summer vegetable and maize crops.
- Irrigation may be avoided for matured millet crops.

Central Region (Gujarat, Chattisgarh, Maharashtra, MP & Orissa)

Gujarat

Rainfall occurred at a few places over South Gujarat region, Saurashtra, Kutch, Diu, Daman, Dadra Nagar Haveli and isolated places over North Gujarat region on 26th June. Monsoon was active over Saurashtra, Kutch and rainfall occurred at isolated places over Gujarat region on 27th June. Rainfall occurred at a few places over Gujarat region, Daman, Dadra Nagar Haveli and at isolated places over Saurashtra, Kutch and Diu on 28th June.

Rain / thundershowers are likely at a few places over the State.

Advisories

- As there was no significant rain in all the districts of Gujarat during last week and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to sugarcane and pre-monsoon irrigated cotton depending on rainfall situation.
- Continue land preparation and sowing of *Kharif groundnut*, *Kharif bajra*, *Kharif maize* and *Kharif cotton* on a non-rainy day and nursery preparation of *Kharif rice* with the help of monsoon rain.
- Select high yielding varieties of *Kharif groundnut* like GG_11, 12, 13, 20 and GAU-10, resistant against downey mildew & high yielding varieties of *Kharif bajra* like GHB-15, 27, 235, 316 and MH_169, high yielding varieties of *Kharif maize* like Maize-1, 2, 4, 6 and Ganga safed – 2, Ganga – 11 and Pusa Hybrid – 1 and high yielding varieties of *Kharif cotton* like H_4, 6, 8, 10 and local varieties like Guj. Cotton-16, 17, 23 & Digvijay for South Gujarat, V-797, Guj. Cotton-13, 21 for North Gujarat and cottons local hybrid-7 for entire State.

Chattisgarh

Rain / thundershowers are likely at many places over the State, with likely increase in activity over the region after 48 hours.

Advisories

- As rain / thundershowers are likely at many places over the State for next three days, postpone irrigation, intercultural operation and application of fertilizer and plant protection measures to sugarcane, green gram and early sown summer vegetables.
- Continue sowing of pulses and soybean and nursery sowing of *kharif rice* and *kharif vegetables* after current spell of rain.
- Select varieties like JS – 335, JS – 93-05, PK 1042 of soybean and early varieties of rice like IR 36, IR 64, MTU 1010, Purnima, Danteshwari for sowing.

Maharashtra

Monsoon was active over South Konkan on 26th June & over North Madhya Maharashtra & Konkan on 28th June.

Rainfall occurred at most places over Konkan & South Madhya Maharashtra, at many places over North Madhya Maharashtra & Marathwada. Light to moderate Rainfall occurred at isolated places over Vidarbha.

Rain / thundershowers are likely at many places over Konkan & Goa, Madhya Maharashtra and Vidarbha and at a few places over Marathwada.

Heavy to very heavy rainfall is likely at a few places over Konkan & Goa. Isolated heavy rainfall is likely over Madhya Maharashtra and Vidarbha.

Advisories

- As there was no significant rain in Latur and Nanded districts of Marathwada during last week and rain / thundershowers are likely at a few places over this region, apply irrigation to Sugarcane and Cotton (irrigated) depending on rainfall situation in these districts. As rain / thundershowers are likely at many places over Madhya Maharashtra and Vidarbha for next three days, postpone irrigation to the crops in the districts of these regions.

- For the control of **White Wooly Aphids** in **sugarcane** release 2500 eggs or larvae of *Chrysoperla Carnea* or *Konobatra aphidivora* parasite on the leaves or spray Endosulphan @ 1 ml. plus Metasistox @ 1 ml. mixed in 1 liter water on a non-rainy day in Marathwada region. Postpone the same in Konkan & Goa, Madhya Maharashtra and Vidarbha under prevailing weather condition.
- This is the time for sowing of **Kharif rice, jowar, Kharif groundnut, bajra, soybean, sunflower, kharif cotton, tur and moong**. Select varieties from Indrayani, Pavna Ambemhor 157, Pusa Basmati, Karjat Hybrid, Sahaydri 2, Ratnagiri 24, 73, 711 for Madhya Maharashtra and SKL 6, SYE 1 or 4, PKV, HMV for Vidarbha for **Kharif rice**.
- Select the hybrid varieties from CSH 1, 5, 6, 9, 14, 17, 18, 23, CSH 8 R, SPV 86, 462, 946, PKV 801, 809 and SPH 388 for **jowar** and the varieties from SB 11, Phule Pragati, TMV 10, TAG 26, JL 24, JL 2620 and TPG 41 for **kharif groundnut**.
- Select the varieties from Saburi, BJ 104, BK 560, BD 763, WCC 75 and ICTP 8203 for **bajra**, the varieties from PKV 1, TAMS 38, MAUS 47, 61, 71 or 81, Phule Kalyani and Samruddhi for **soybean** and the varieties from EC 68414, Morden, SS 56, KBSH 11, Surya, PKV SF 9, or 27, SCH 35 for **sunflower**.
- Select the varieties from PA 402, American PH 348, Phule 492 or 388, JLH 168, JLA 794, Ganga, Parbhani Sona for **kharif cotton**, the varieties from T – Vishakha 1, TAT 10, Akola Hybrid 1, Vaishali 853, IPPL 87, AKT 8811, BDN 1& Vipula for **tur** and the varieties from TAP 7, TARM 2 or 18, AKM 8802 or 8803 for **moong**.

Madhya Pradesh

Rainfall occurred at many places in North West M.P. on 26th June and at a few places on 27th June, at isolated place in East and South West M.P. on 26th and 27th June, North and South West M.P. on 28th June, dry weather prevailed in South East M.P. on 28th June.

Rain / thundershowers are likely at many places over the State, with likely increase in activity over the region after 48 hours.

Isolated heavy rainfall (7-12 cm) is likely over East Madhya Pradesh.

Advisories

- Farmers are advised to take up **sowing** of **kharif** crops viz., **cotton, maize, soyabean, urad, rice, jowar and tur** immediately after spells of rain as the monsoon has arrived on the state.
- As rain / thundershowers are likely at many places over the State for next three days, postpone irrigation to **sugarcane**.

Orissa

Rain fall occurred at few places over the state on 28th June and at isolated places during the remaining days.

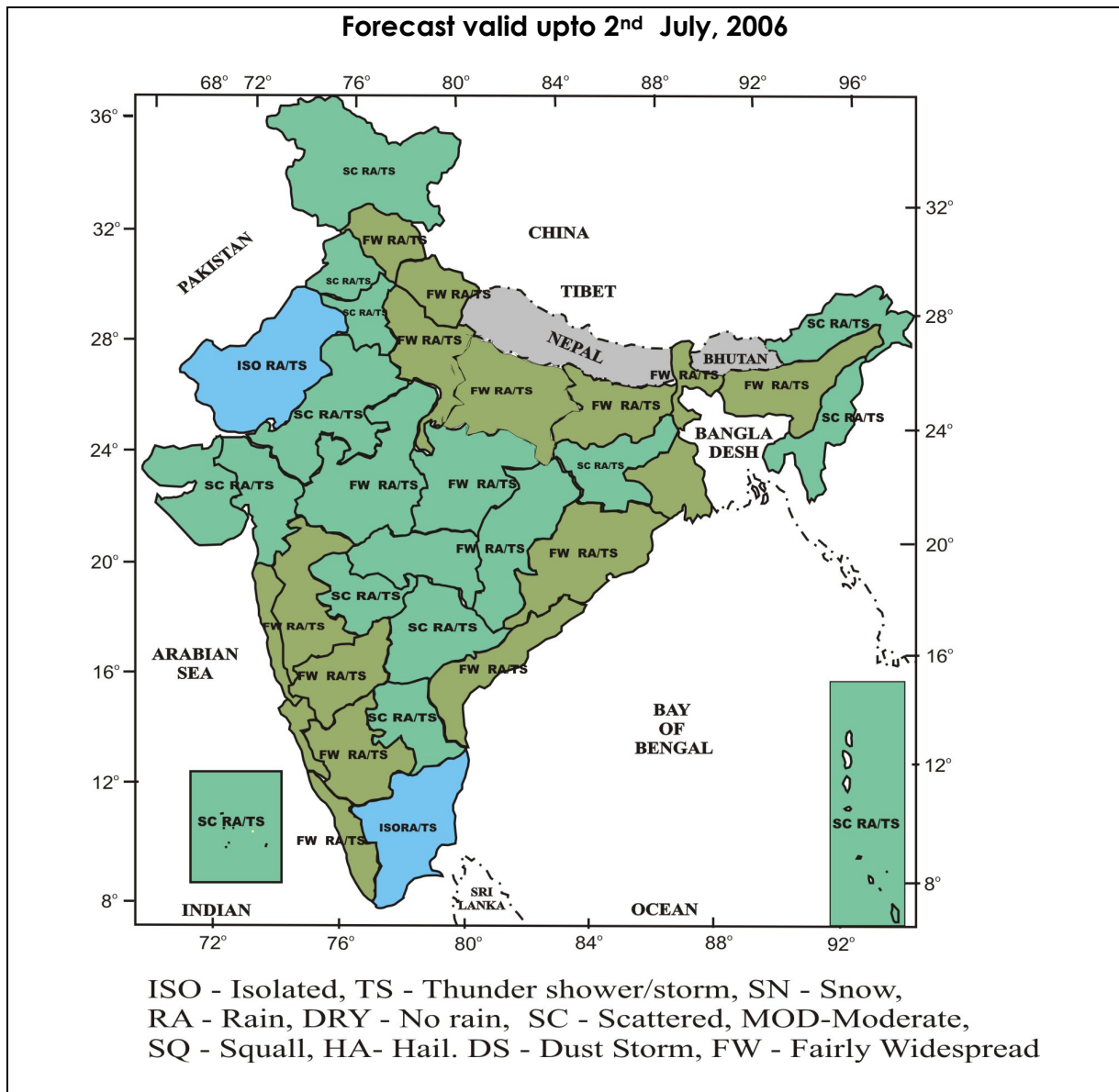
Heavy to very heavy falls occurred at isolated places over south Orissa on 28th June.

Rain or thunder shower likely to occur at many places over the state. The rainfall activity over the state is likely to increase during next 2-3 days with heavy to very heavy falls.

Heavy rain likely to occur at isolated places over Orissa during next 48 hrs.

Advisories

- Farmers are advised to continue land preparation and sowing of **kharif** crops like **rice, groundnut and pulse crops** by utilizing the monsoon showers after current spells of rain.
- As rain or thunder shower likely to occur at many places over the State for next three days. Under the circumstances, postpone irrigation to **vegetables, sugarcane and jute** crops in these districts.
- At five months stage of sugarcane crop perform propping by combining plants of two rows so that the crops do not lodge by wind.



Salient weather features for the week ending 28/06/06

CHIEF FEATURES: After a prolonged hiatus of 16 days, southwest monsoon further advanced over some parts of central and north India during the week.

It advanced into: some more parts of Gujarat region, remaining parts of Madhya Maharashtra, most parts of Marathwada and Telangana and some more parts of Chattisgarh on 23rd; remaining parts of Marathwada, most parts of Vidarbha, remaining parts of Telangana and some more parts of Chattisgarh on 24th and into some more parts of north Arabian Sea and Saurashtra & Kutch and in some parts of east Uttar Pradesh on 27th. The northern limit of monsoon passed through Lat 23^o N/ Long 60^o E, Lat 23^o N/ Long 65^o E, Bhuj, Ahmedabad, Jalgaon, Amraoti, Nagpur, Durg, Ambikapur, Daltonganj, Varanasi, Sultanpur, Lucknow and Kheri, on 27th.

WEEK'S RAINFALL: Weeks rainfall was excess in Sub-Himalayan West Bengal & Sikkim, Bihar, Haryana, Punjab, Himachal Pradesh, Jammu & Kashmir, Madhya Maharashtra, coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, coastal & north interior Karnataka, Kerala and Lakshadweep; normal in Andaman & Nicobar Islands, Nagaland-Manipur-Mizoram-Tripura, east Uttar Pradesh, west Rajasthan, Konkan & Goa, Marathwada and south interior Karnataka. It was deficient over the rest of the country outside Uttaranchal, east Madhya Pradesh and Chattisgarh, where it was scanty.

PRINCIPAL AMOUNTS OF RAINFALL (in cms) DURING THE WEEK.

June 2006

- 22 Berhampur 13, Matisuri, Vadakkancherry 12, Thuckalay 11, Aluva, K. R. Nagara, Koida 9, Akkalkot, Jeypore 8, Solapur 7.
- 23 Peermade 25, Dina, Vadakar, Piravom 13, Khed, Murti 11, Nagarkata 10, Dharmtul 9, Sevoke 8, Saswad, Nandgaon 7.
- 24 Karwar 34, Kollur 21, Agumbe 17, Kunnamkulam 14, Saswad, Ratnagiri 12, Karipur, Belgaum 11, Jaleswar, Dina 9, Lempui 8.
- 25 Kottigehara 20, Mudibidre 14, Udupi, Agumbe, NH 31, Kudula 13, Gwalior, Kasargod 12, Jalapur 11, Karjat, Khonsa 7, Panjim 6.
- 26 Valpoi, Karwar, Agumbe 14, Kasargod, Kollur 13, Kudulu 12, Alipurduar, Bhalukpong 9, Gaganbawada, Murti 8.
- 27 Sevoke 18, Sawantwadi 15, Mathabanga 12, Gaganbawada, Kollur, Rohtak 11, Alipurduar, Gajoldoba 10, Shirali, Ukai 8.
- 28 Chepan 29, Barobhisa 18, Cooch Behar, Gaganbawada 16, Ratnagiri 14, Biham, Siddapur 13, Agumbe 12, Rajkot, Raygada 10.

SEASON'S RAINFALL (01-06-2006 to 28-06-2006): Seasons reinfall was excess in Haryana, Punjab, Madhya Maharashtra, Rayalaseema, Tamil Nadu and interior Karnataka; normal in Nagaland-Manipur-Mizoram-Tripura, West Bengal & Sikkim, Orissa, Jharkhand, Bihar, Uttar Pradesh, Himachal Pradesh, Jammu & Kashmir, Rajasthan, Gujarat region, Konkan & Goa, coastal Andhra Pradesh and Lakshadweep. It was deficient over the rest of the country outside east Madhya Pradesh, Chattisgarh and Vidarbha , where it was scanty.

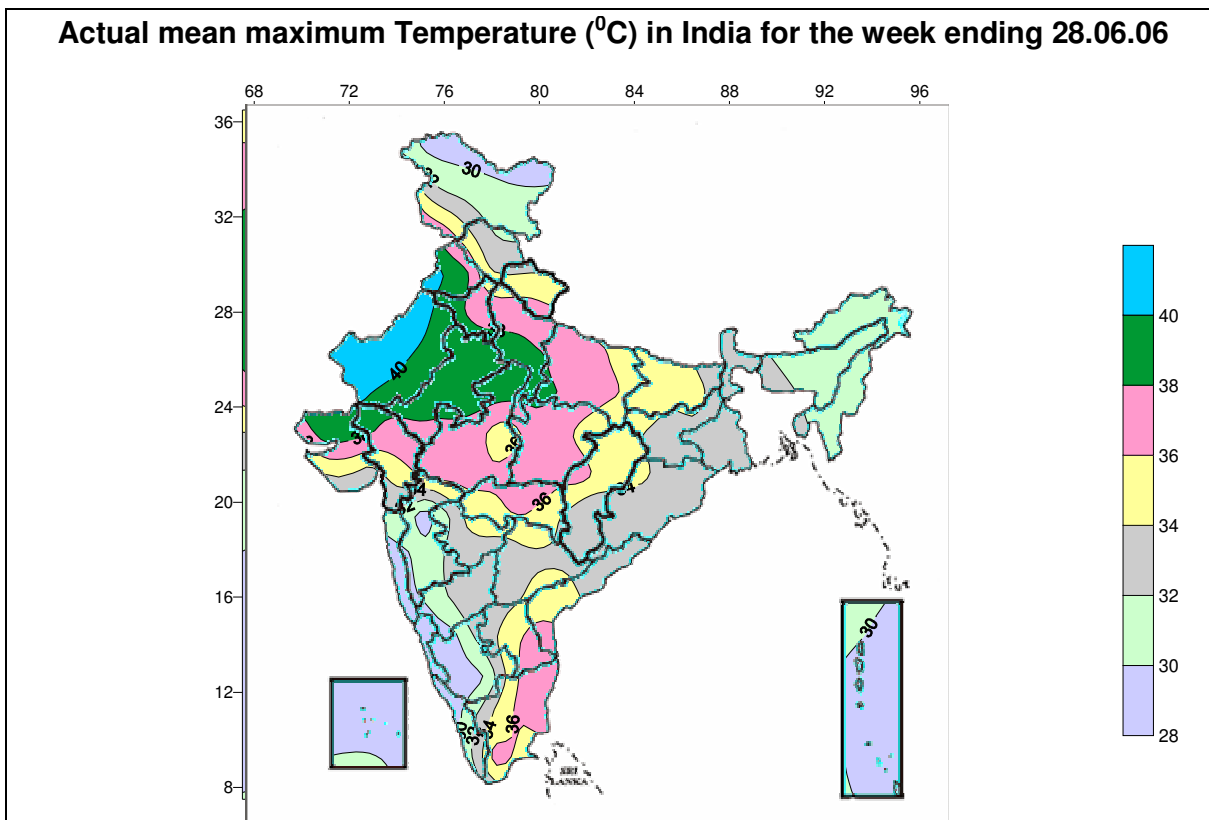
TEMPERATURES: Severe heat wave conditions prevailed in some parts of Rajasthan and north Gujarat region. Heat wave conditions also prevailed on 1 to 2 days in some parts of Rajasthan, west Madhya Pradesh , north Gujarat region and Kutch. **In the regions where the southwest monsoon is yet to set in; day temperatures were appreciably to markedly above normal on 2 days each in Jammu and west Madhya Pradesh . They were appreciably above normal on 1 to 3 days in Jammu & Kashmir, Rajasthan and Madhya Pradesh. They were above normal on 1 to 2 days in west Uttar Pradesh, Rajasthan and west Madhya Pradesh .**

WEATHER AND ASSOCIATED SYNOPTIC FEATURES: (1) The offshore trough at sea level extended from north Maharashtra to Kerala coasts during 22nd to 27th and from south Gujarat to Kerala coasts on 28th. (2) The upper air cyclonic circulation over west central Bay persisted there on 22nd. It lay over: south Orissa and adjoining Chattisgarh on 23rd; Vidarbha and adjoining Marathwada on 24th; Marathwada and neighbourhood on 25th; Gujarat State on 26th; northeast Arabian Sea on 27th and moved away westwards on 28th. (3) An upper air cyclonic circulation lay between 3.1 & 5.8 km a.s.l. over the west central Bay off Andhra coast tilting southwestwards with height during 26th to 28th. (4) Another upper air cyclonic circulation also tilting southwestwards with height lay between 3.6 & 7.6 km a.s.l. over Saurashtra & Kutch on 28th. (5) An upper air cyclonic circulation in the lower tropospheric levels lay over: Vidarbha and adjoining west Madhya Pradesh on 22nd; west Madhya Pradesh and adjoining Gujarat region on 23rd; Gujarat region on 24th; southwest Rajasthan and adjoining Gujarat on 25th and became less marked on 26th. (6) Another upper air cyclonic circulation lay between 1.5 & 4.5 km a.s.l. over: Bihar and adjoining east Uttar Pradesh on 25th; east Uttar Pradesh and neighbourhood on 26th; west Uttar Pradesh and adjoining areas on 27th and became less marked on 28th. (7) The upper air cyclonic circulation over Haryana and adjoining east Rajasthan lay over east Rajasthan and neighbourhood on 22nd and became less marked on 23rd. (8) The upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir moved away northeastwards across the northern parts of the country on 27th. (9) A fresh upper air cyclonic circulation extending upto 4.5 km a.s.l. lay over northeast Afghanistan and adjoining north Pakistan on 27th and over north Pakistan and adjoining Jammu & Kashmir on 28th.

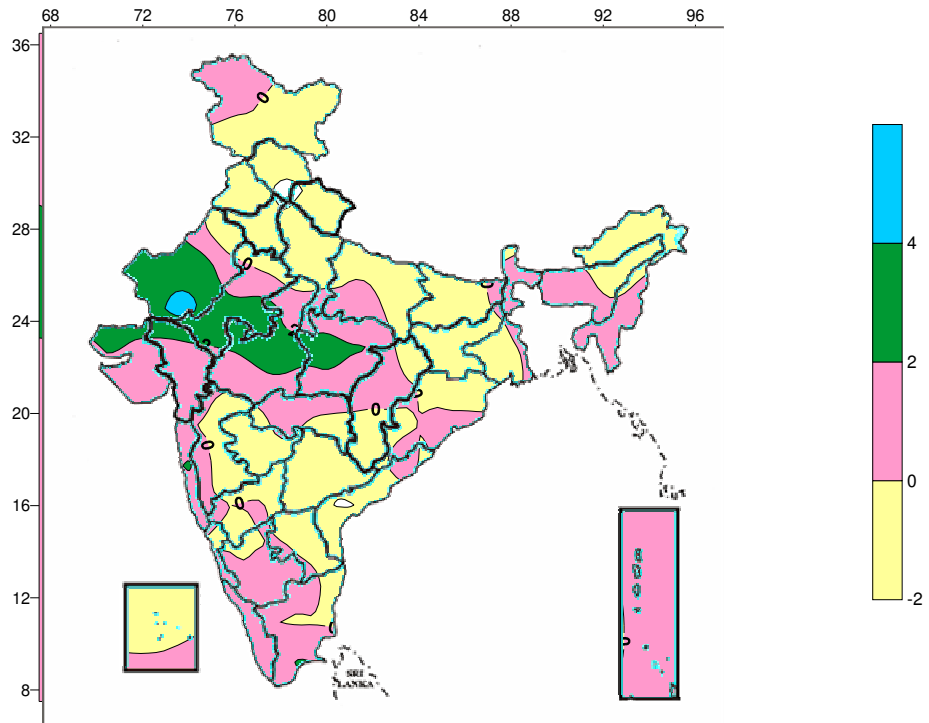
The southwest monsoon has been vigorous on 1 to 2 days in Sub-Himalayan West Bengal & Sikkim and coastal Andhra Pradesh and active on 4 to 6 days in Madhya Maharashtra and Marathwada and on 1 to 3 days in West Bengal & Sikkim, Orissa, Saurashtra & Kutch, Konkan & Goa, coastal Andhra Pradesh, Rayalaseema, costal Karnataka and Kerala.

Very heavy rain occurred on 2 to 4 days in Sub-Himalayan West Bengal & Sikkim, Jharkhand, Konkan & Goa, Madhya Maharashtra, coastal Karnataka, south interior Karnataka and Kerala and on 1 day each in Orissa and Marathwada. Heavy rain also occurred on 2 to 4 days in Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura,. West Bengal & Sikkim, Orissa, Uttar Pradesh, Haryana, Himachal Pradesh, east Rajasthan, Gujarat state, Konkan & Goa, Madhya Maharashtra,

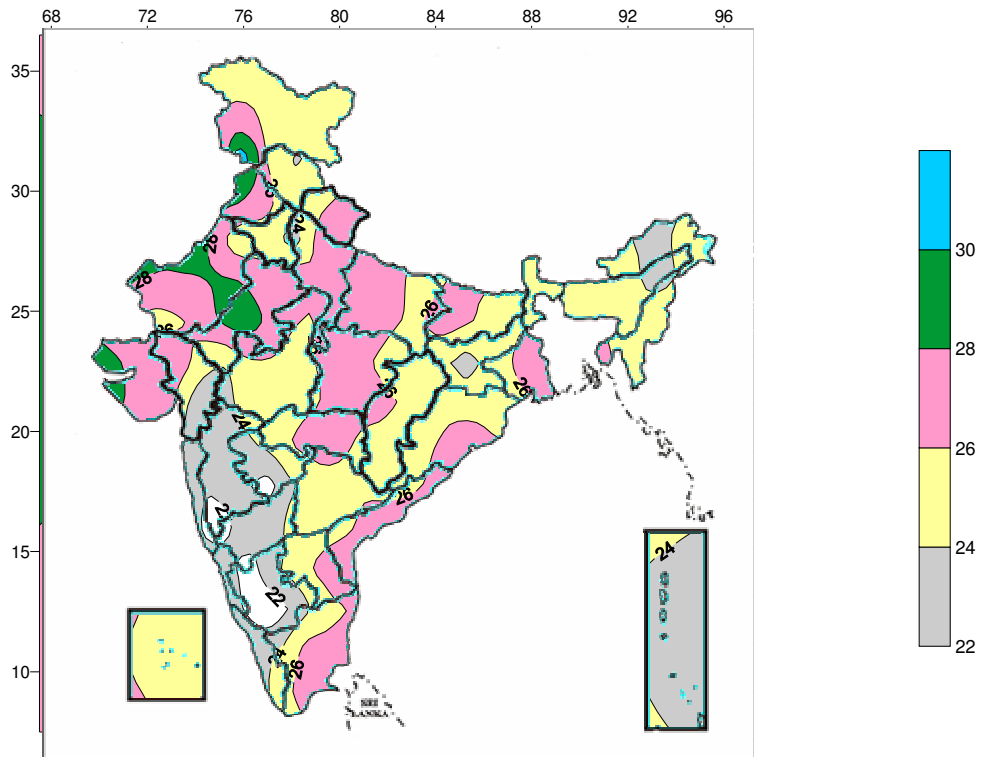
Marathwada, coastal Andhra Pradesh, Tamil Nadu, Karnataka and Kerala and on 1 day each in Andaman & Nicobar Islands, Bihar, Punjab, west Madhya Pradesh, Rayalaseema and Lakshadweep. **Rain or thundershowers occurred at most places on 4 to 7 days in Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Marathwada, coastal Karnataka, Kerala and Lakshadweep and on 1 to 3 days in Arunachal Pradesh, Jharkhand, Bihar, east Uttar Pradesh, Himachal Pradesh, Madhya Maharashtra, Vidarbha and coastal Andhra Pradesh and at many places on 3 to 5 days in Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, West Bengal & Sikkim, Orissa, Punjab and Himachal Pradesh and on 1 to 2 days in Andaman & Nicobar Islands, Bihar, Uttar Pradesh, Haryana, west Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Andhra Pradesh, coastal & north interior Karnataka and Lakshadweep.**



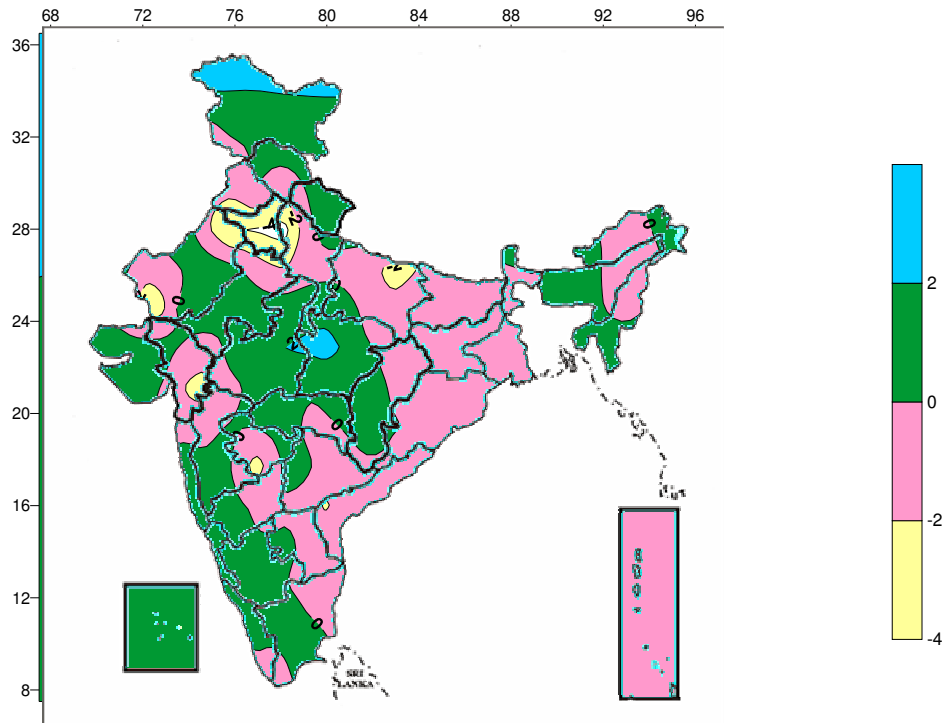
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 28.06.06



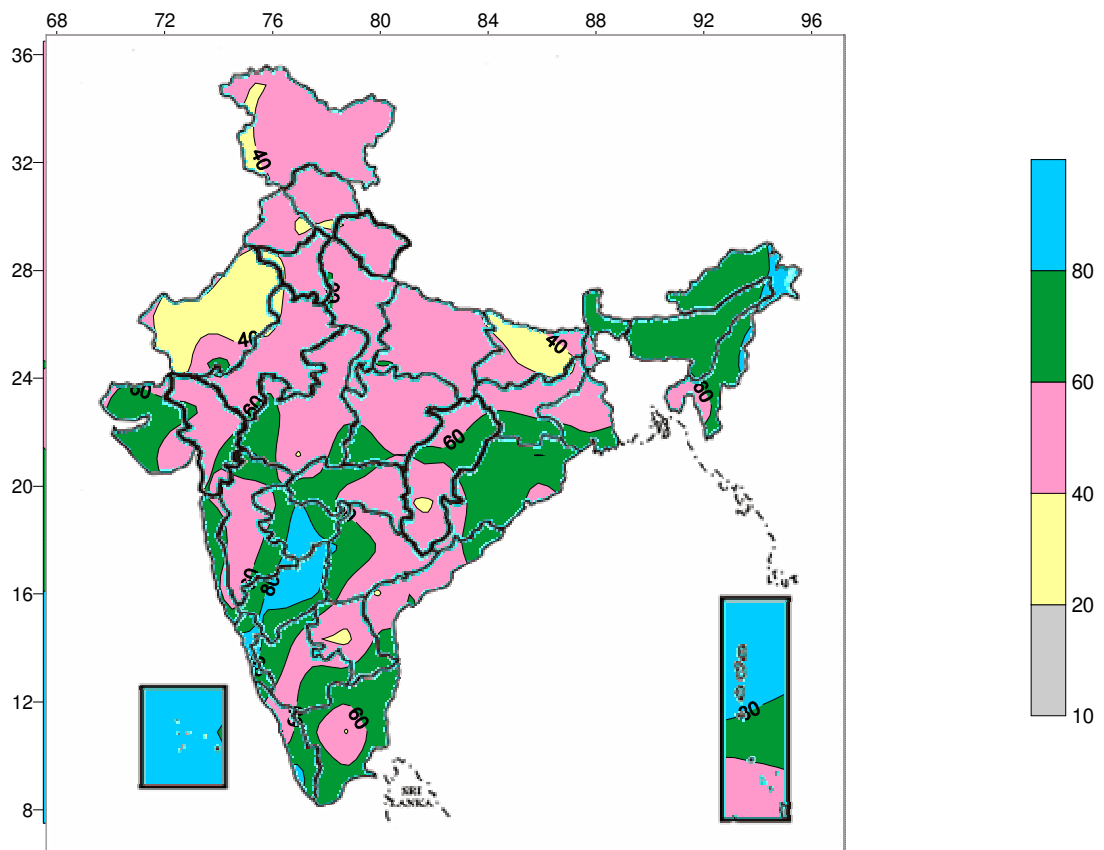
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 28.06.06



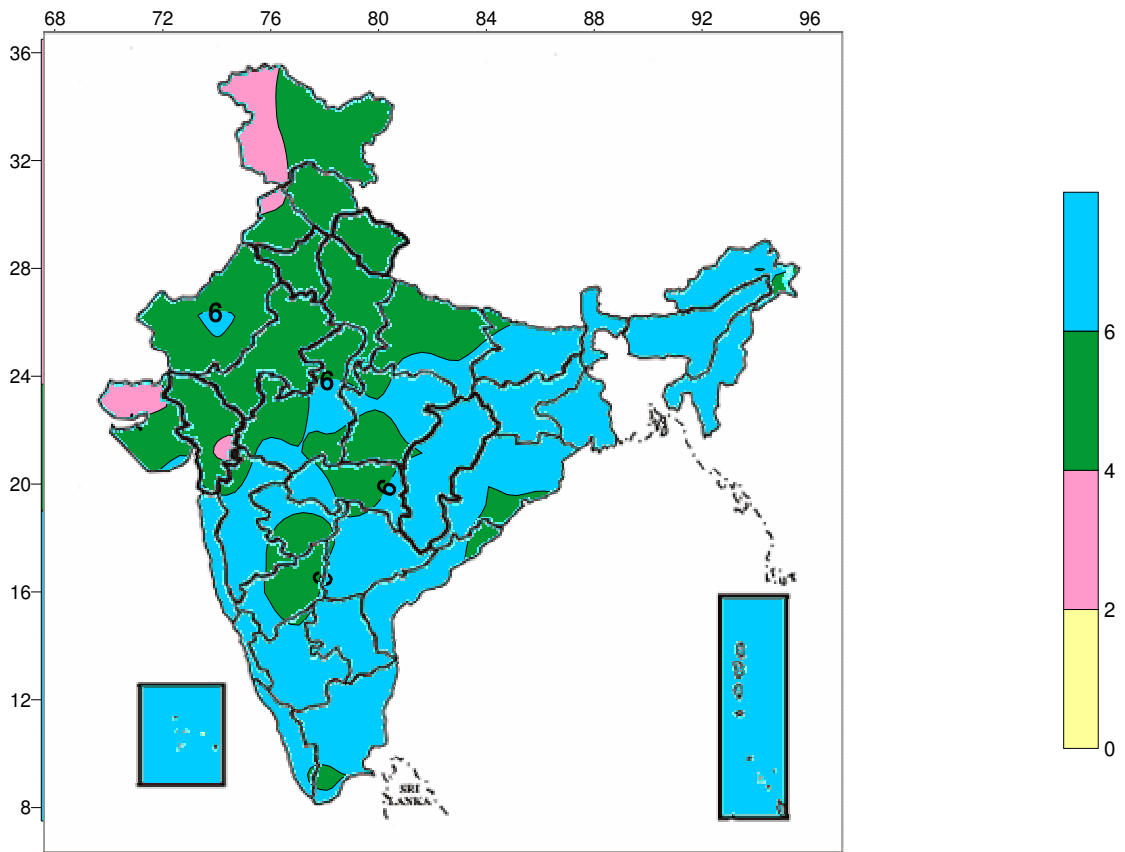
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 28.06.06



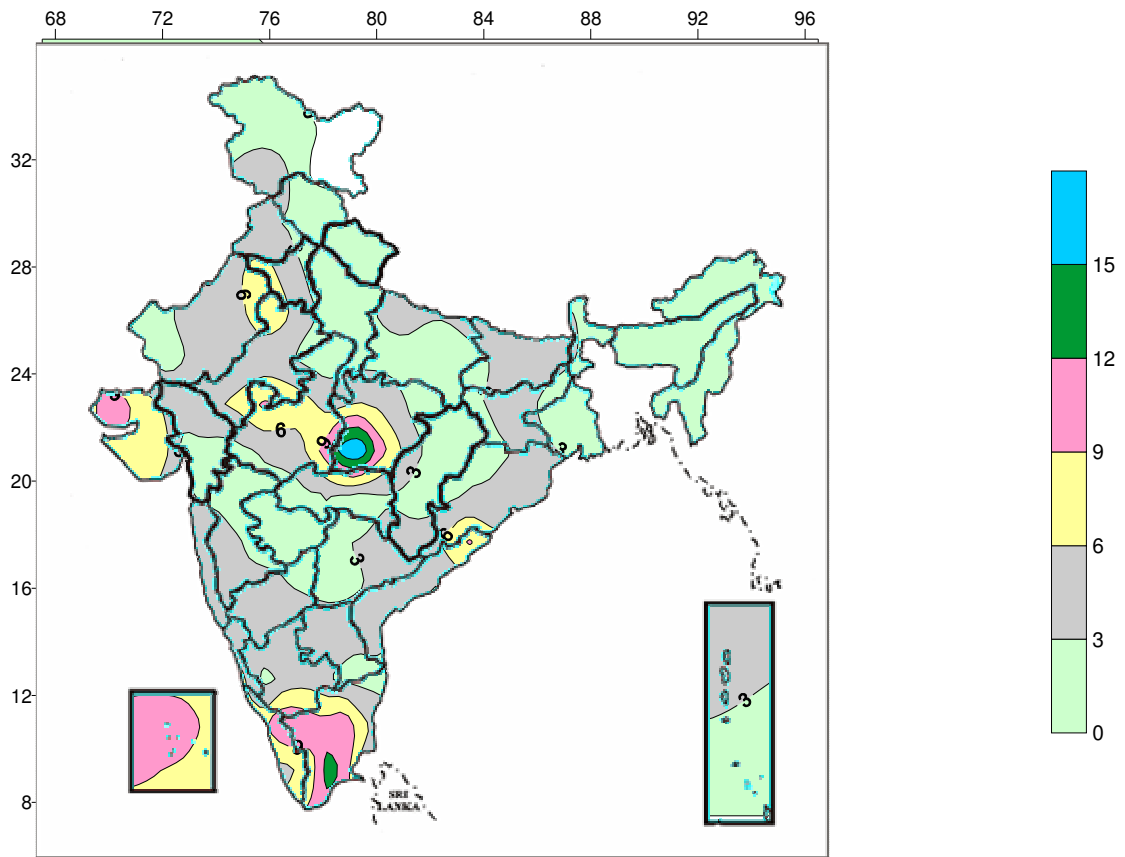
Relative humidity (%) over India for the week ending 28.06.06



Cloud amount (okta) over India for the week ending 28.06.06



Wind speed (knots) over India for the week ending 28.06.06



Desert Locust Forecasting



Rainfall (mm)

Station Name	22.06.06	23.06.06	24.06.06	25.06.06	26.06.06	27.06.06	28.06.06
Amritsar	-	-	-	12	186	-	20
Barmer	-	-	-	21	391	-	-
Sriganganagar	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	2
Dessa	-	-	02	12	06	01	242
Churu	-	-	-	-	-	-	187

Temperature (degree celcius)

Station Name	22.06.06	23.06.06	24.06.06	25.06.06	26.06.06	27.06.06	28.06.06
Amritsar	33	34	34	33	27	-	24
Barmer	35.5	37.5	38.5	37	32	32	36
Sriganganagar	33	34.5	36	37	-	36.5	32.5
Jaisalmer	36	37.5	39.5	39.5	35.5	35.5	31.5
Kota	35.5	37	37.5	36.5	33.5	34	32
Dessa	34.5	35.0	35.0	30.5	29	31.5	-
Churu	-	-	-	-	-	-	-

Wind

Station Name	22.06.06		23.06.06		24.06.06		25.06.06		26.06.06		27.06.06		28.06.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	05	SE	08	SW	-	-	-	-	11	E	-	-	-	-
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganganagar	20	SE	-	-	-	-	-	-	-	-	-	-	-	-
Jaisalmer	-	-	04	NNE	-	-	-	-	04	N	06	SW	15	NE
Kota	05	NNW	13	SE	-	-	-	-	08	SW	04	W	11	W
Dessa	05	NNW	02	S	-	-	15	E	11	S	08	SE	-	-
Churu	20	SE	15	SE	-	-	-	-	04	W	17	W	08	WSW

As rainfall was reported in some parts of Punjab & Rajasthan in this week there is mild chance of occurrence of locust incidence. It is advised to make continuous monitoring of the incidence of locust in north-western region of the country.

CROP – STATE – STAGE

Delhi				
Vegetable crops	Fodder (Mixed maize , Lobia)	Arhar	Early sown arhar	Green gram, black gram
Vegetative / flowering / fruiting / harvesting	vegetative	sowing	Germination / early vegetative	Vegetative / flowering
Fodder (jowar, bajra)	Rice	Maize	Bajra	
sowing	Land preparation for transplanting	Land preparation & sowing	Land preparation & sowing	
Haryana				
Sunflower	Sugarcane	Paddy	Groundnut/Maize /Pulses	Early sown Cotton
Harvesting	Vegetative	Transplanting	sowing	Vegetative
Himachal Pradesh				
Rice	Maize	Apple	Tomato, brinjal, ladies finger	Fodder crops
Land preparation & transplanting	Germination / early vegetative	Fruit development	flowering/ fruiting / harvesting	Early vegetative / vegetative
Moong / Mash				
flowering / pod formation				
Jammu & Kashmir				
Vegetables crops	Rice	Maize		
Transplanting / Emergence / vegetative	Nursery preparation & sowing	Knee-high / Vegetative		
Punjab				
Sugarcane	Paddy	Groundnut/Maize /Pulses	Early sown Cotton	
Vegetative	Transplanting	sowing	Vegetative	
Rajasthan				
Zaide moong	Zaide fodder	cotton	Groundnut	
Harvesting	Vegetative / Harvesting	Early Vegetative	Sowing	
Uttar Pradesh				
Pulses (Gram, Urad, Moong)	Kharif Pulses (Urad & Moong)	Oilseeds	Sugarcane	Summer vegetables
Harvesting	Sowing	Harvesting	vegetative	vegetative
Mango	New Mango	Kharif rice	Kharif Vegetables	Kharif Oilseeds (Til, Soybean, Groundnut)
Harvesting	Active growth	Land preparation & nursery sowing	Sowing	Sowing
Kharif Maize, Jowar, Bajra				
Sowing				
Uttaranchal				
Rice & cauliflower	Mango	Lady's finger / French Bean	Sugarcane	Chilli & Tomato
Seedling	Maturity	Fruiting	Tillering	Fruiting / maturity
Apple				
Fruit growth				
Assam				
Maize	Sugarcane	jute	Summer vegetables	Early ahu rice
Vegetative	Vegetative	vegetative	vegetative / flowering / fruiting / harvesting	Grain formation / harvesting
Regular ahu rice				
tillering				
Arunachal Pradesh				
Wet seeded rice	maize	Summer vegetables	ginger	millet

Vegetative	Harvesting	Harvesting	Sowing	Grain maturity
Jhum paddy				
Panicle initiation				

Bihar

Vegetables, Pulses and Oilseeds	Rice	Maize		
Early vegetative	Sowing/ Seedling/ Transplanting	Early Vegetative		

Jharkhand

Rice	Upland crops (rice, maize, mandua, groundnut, arhar, urad etc.)			
Nursery sowing	Sowing			

Sikkim

Orange	Rice	Large Cardamom	Kharif vegetables	Potato
Early fruiting	Transplanting (low hills) Early tillering (high hills)	Seed formation	vegetative	Tuber Maturity (in low & mid hills)
Maize	Ginger			
Flowering	Vegetative			

West Bengal

Aus rice	sugarcane	Jute	Green Gram	
Seedling / Tillering	early vegetative / vegetative	Early vegetative / Vegetative	Vegetative / Flowering	

Chattisgarh

Chilly, Cabbage, Tomato, Brinjal	Kharif Vegetables	Sugarcane	Kharif rice	Pulses & Soybean
(summer veg.- Vegetative / flowering / fruiting / harvesing)	Sowing / nursery sowing	Vegetative	Land preparation & nursery sowing	Sowing
Green gram				
Vegetative / flowering / pod formation				

Gujarat

Kharif Maize	Kharif groundnut	Sugarcane	Kharif bajra	Kharif Rice
Land preparation & sowing	Land preparation & sowing	Vegetative / elongation	Land preparation & sowing	Land preparation & nursery sowing
Kharif Cotton				
Land preparation & nursery sowing				

Maharashtra

Kharif Groundnut	Earlier sown Groundnut	Irrigated Cotton	Sugarcane (Seasonal)	Bajra
Sowing	Germination	vegetative	Early vegetative	Sowing
Earlier sown Bajra	Jowar	Earlier sown Jowar	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)
Germination	Sowing	Germination	Germination / Seedling	Sowing / Preparation of nursery beds
Kharif sunflower	Earlier sown Sunflower	Soybean	Earlier sown Soyabean	Kharif Cotton
Sowing	Germination	Sowing	Germination	Sowing
Earlier sown Cotton	Tur	Earlier sown Tur	Moong	Earlier sown Moong
Germination	Sowing	Germination	Sowing	Germination

Madhya Pradesh

Sugarcane	Moong	Kharif crops		
Tillering	Vegetative / flowering	sowing		

Orissa

Vegetables	Groundnut	Kharif Groundnut	Sugarcane (pre-seasonal)	Pulses
Flowering / fruiting / harvesting	harvesting	Sowing	Vegetative/tillering	Harvesting
Kharif rice	jute			
Sowing / nursery sowing	Vegetative			

Andhra Pradesh

Rabi maize/sunflower	Rabi rice	Rabi Groundnut		
End harvesting	End harvesting	End harvesting		

Karnataka

Early planted sugarcane	Sugarcane	New sugarcane	Kharif crops (jowar, maize, groundnut, cotton)	
Early vegetative	Vegetative -ratoon crop	planting	Germination / seedling	

Kerala

Rubber	Virippu Rice			
Tapping	Tillering			

Tamil Nadu

Rice (Navarai)	Millets	Summer irrigated cotton	Early & mid sugarcane	Late season sugarcane
Grain formation / Maturity	Transplanting / Vegetative	Vegetative	Vegetative / Grand growth	Maturity / Harvesting
Rice (Kuruvai)				
Nursery / Transplanting				