



Summary of Agromet Advisory Services for different States of the country

Issued by

Agricultural Meteorology Division, India Meteorological
Department, Pune, India

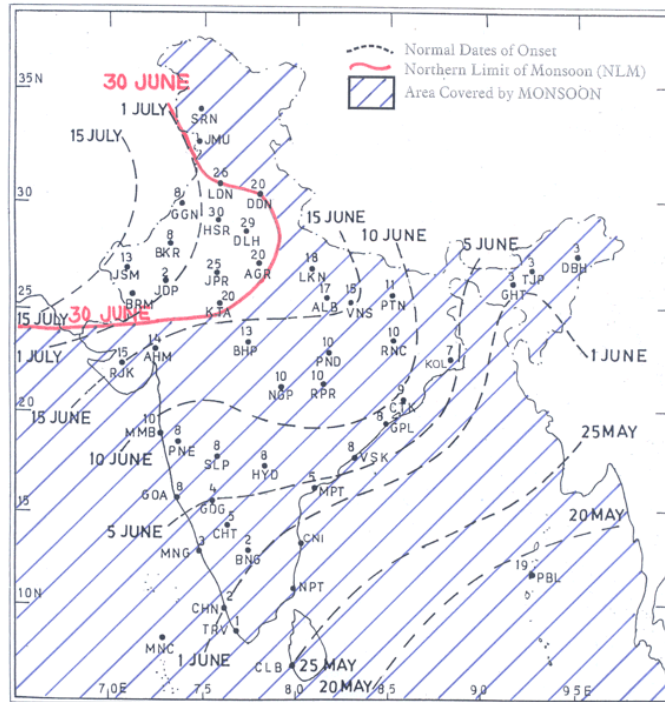
Thursday, 6th July, 2006

(For the period 6th to 10th July, 2006)

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

Progress of Southwest Monsoon

PROGRESS OF SOUTHWEST MONSOON 2006



Progress of monsoon

The southwest monsoon has advanced into most parts of north Arabian sea, entire Gujarat state, some parts of east Rajasthan, entire west Madhya Pradesh; some more parts of west Uttar Pradesh, entire Himachal Pradesh and some parts of Punjab. Northern limit of monsoon passes through Lat. 24°N/Long. 60°E, Lat. 24°N/Long. 68°E, Udiapur, Jhalawar, Gwalior, Bareilly, Dehra Dun, Ambala and Amritsar.

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

Punjab & Haryana

All the districts of Punjab received deficient / scanty / no rain except Ropar district where it was excess during last week.

Most of the districts of Haryana received deficient / scanty / no rain during last week except in Fatehbad, Sirsa and Yamunanagar districts where it was normal or excess during last week.

Rain / thundershowers are likely at isolated places over Punjab and at a few places over Haryana.

Advisories

- As weak rainfall activity likely to continue for next five days, it is suggested that further transplanting of paddy may be stopped and available water resources may be utilized to sustain the already transplanted paddy.

- It is further advised to keep water standing in the field to check iron deficiency.
- Sowing of direct basmati may also be considered depending upon water availability in view of anticipated subdued rainfall.
- This is proper time for sowing groundnut and *kharif* pulses. Continue sowing of healthy seeds of irrigated varieties with adequate irrigation facilities and treat it with fungicides before sowing.
- Prevailing weather conditions i.e. high humidity, cloudiness may favour the incidences of top shoot borer in sugarcane. Recommended plant protection measures i.e. 12 kg carbofuran 36 or phorate 10G may be applied.

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 many places over south Rajasthan and at few places over North Rajasthan.

Isolated heavy rainfall is likely over south Rajasthan

Advisories

- Continue sowing of *kharif* crops like **groundnut, bajra, maize, soyabean** and **pulses** crop after current spells of rain in south Rajasthan and on a non rainy day in north Rajasthan.
- Rain or thundershower is likely to occur at many places over south Rajasthan and at few places over North Rajasthan for the next three days. Under this circumstances postpone irrigation to *kharif* cotton in south Rajasthan. Apply irrigation depending on rainfall situation in North Rajasthan.

Uttar Pradesh

Rain occurred at few places in **Gorakhpur, Varanasi, Lucknow & Allahabad** divisions and isolated places in remaining divisions of the state on 3rd July. Rain occurred at isolated places in **Gorakhpur, Varanasi & Faizabad** divisions on 4th July and in **Gorakhpur, Varanasi, Faizabad** and **Lucknow** divisions on 5th July and weather was dry in remaining divisions of the state on 4th and 5th July.

Rain / thundershowers are likely at isolated places over the State. Rainfall is likely to increase during next 2-3 days in East U.P.

Advisories

- There was no significant rainfall in the State during last week except in **Bahraich, Balrampur, Gonda, Kanpur City, Kanpur Dehat, Shrawasti, Gorakpur, Sultanpur, and Sitapur** districts in East U.P and **Aligarh, Firozabad, and Ghaziabad** districts in West U.P and rain / thundershowers are likely at isolated places only over the State for next three days. Under the circumstances, apply irrigation to the **summer sugarcane, vegetables** and **mango** crops to bring the soil moisture to field capacity.
- Continue sowing of **rice, maize, jowar, bajra, kharif pulses** and **oilseeds** in East U.P.
- Continue harvesting of **sunflower, gram, urad, and mung**.

Himachal Pradesh

Precipitation occurred at isolated places in the State.

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

Advisories

- As there was significant rain in **Bilaspur, Kinnaur** and **Una** districts during last week and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to **Vegetables** and **Maize** in these districts depending on soil moisture status and rainfall situation. As remaining districts of the State received no significant rainfall, apply irrigation in these districts depending on rainfall situation.
- Continue sowing of **bhindi** (var. Prabhani Kranti, Arka Anamika) and **frenchbean** (var. Conender) and transplanting of **rice, brinjal** (Arka Nidhi, PPC), **Capsicum** (California wonder) and **tomato** on a non-

rainy day.

- Cut worm and white grub attack is reported in vegetables. Spray chloropyriphos @ 160 ml per 32 litres of water on a non-rainy day for controlling cut worm and white grub.

Uttaranchal

Light to moderate rain was recorded at many places on 30th June, 1st July and on 5th July, at a few places on 29th June and 4th July and at isolated places on 2nd & 3rd July. Sky remained partly to generally cloudy.

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

Advisories

- There was no significant rain except in Chamoli, Dehradun, Garhwal Pauri, and Uttar Kashi districts during last week and rain / thundershowers are likely at few places over the State for next three days, apply irrigation to mango, apple, and sugarcane and vegetable crops depending on the rainfall situation. Apply irrigation in the above mentioned districts depending on the rainfall situation and soil profile stored moisture.
- Continue nursery sowing and transplanting of rice & cauliflower on non rainy days.

Jammu & Kashmir

Light to moderate rain / thundershowers occurred at few places on 3rd July and at isolated places on 6th July. Weather remained mainly dry on 5th July 2006.

Rain / thundershowers are likely at isolated places in J & K state.

Advisories

- Continue land preparation and sowing of rice, maize and fodder crops with the monsoon showers.
- Light to moderate rainfall occurred at a few places in the State during last week and rain / thundershowers are likely to occur at isolated places in J&K state. Under the circumstances, apply required irrigation to summer vegetables, pulses, rice and maize to bring the soil moisture to its field capacity.

Delhi

The State received no rain during last week.

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

Advisories

- As there was no rain during last week and rain / thundershowers are likely at isolated places over the State for next three days, apply irrigation to summer vegetable crops, green gram, black gram, fodder crops and early sown arhar.
- Prepare land and continue sowing of arhar, maize, bajra, fodder crops and transplanting of rice, cauliflower, cabbage, brinjal, tomato and chilly with irrigation facilities.
- 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 the State on 3rd, 4th & 5th July.

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

Advisories

- Attack of Sigatoka leaf spot, bunchy top and pseudo stem weevil is reported in banana. Spray 1 % Bordeaux mixture to control leaf spot after current spells of rain. Eradicate bunchy top affected plants to reduce the spread of the disease. Fill the leaf axils with chlorophyriphos @ 2.5 ml / litre of

water after spells of rain to control the pest.

- 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 current 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 current spells of rainfall.
- Attack of **bud rot** and **fruit rot (Mahali)** diseases is reported in **arecanut**. Continue spraying Bordeaux mixture 1% after current spells of rainfall to control the diseases.
- Attack of **leaf folder**, **thrips** and **gall fly** is reported in **Virippu rice**. Spray Quinalphos 25 EC @ 750 ml/ litre after current spells of rainfall to control leaf folder & thrips. Spray Sevin 50%, 3gm or Ekalux 25% 2ml/litre of water after current spells of rainfall to control gall fly.
- As rainfall is likely to occur at many places for the next three days over the State, postpone irrigation to **plantation crops** and **pepper**.

Tamilnadu

Rainfall occurred at isolated places over the state on 3rd, 4th and 5th July.

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

Advisories

- There was no significant rainfall in the state except in **Coimbatore**, **Kanyakumari** and **Thirunelveli** districts and rainfall is likely to occur only at isolated places over Tamil Nadu for the next three days. Under the circumstances, apply required irrigation to **cotton**, **early / mid sugarcane** and **millets** to bring the soil moisture to its field capacity. Apply irrigation depending on the soil profile stored moisture in the above mentioned districts as there was excess rainfall during last week.
- 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 3rd & 5th and at isolated places on 4th July. Over South Interior Karnataka, rainfall occurred at a few places on all the days.

Rain / thundershowers are likely at many places over Coastal Karnataka and isolated places over North and South Interior Karnataka.

Advisories

- Postpone irrigation and top dressing of Nitrogen in **sugarcane** in **coastal Karnataka** as there was rain during last week and rain is likely to occur at many places in this region.
- Farmers are advised to continue sowing of *kharif* rice after the current spells of rain in coastal Karnataka. Same may be continued in Interior Karnataka.
- Release predators like *Dipha* sp, adopt wider spacing and inter-cropping with soyabean and pulses of short duration for ratoon crop to control **wooly aphids** in **Mysore**, **Mandya**, **Hassan**, **Bidar** & **Bagalkote** districts.

Andhra Pradesh

Southwest monsoon has been vigorous on 3rd July over Coastal Andhra Pradesh and active on 29th June and over Telangana on 29th & 30th June and on 4th & 5th July. Rain occurred at a few places over Coastal Andhra Pradesh on 30th June, 1st, 2nd & 4th July and over Telangana from 1st to 3rd July and over

Rayalaseema on 29th June. It was isolated over Coastal Andhra Pradesh on 5th July and over Rayalaseema on 30th June and 03rd July. Weather was generally dry elsewhere over the state during the week.

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

Advisories

- Land preparation and sowing of rice in nursery bed and other *kharif* crops may be continued with available moisture in Srikakulam, Visakapattinam, Vizianagaram, Adilabad, Karimnagar, Khammam, Medak and Nizamabad as there was excess rainfall during last week. As there was no significant rainfall in remaining districts of the state and rain / thundershowers are likely to occur only at isolated places for the next three days, sowing of *kharif* crops may be continued with assured life saving irrigation.
- Stem borer incidence is noticed in rice nursery. Apply carbofuran granule @ 2kg/nursery to control the pest.

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

Assam

Light to moderate rain occurred at many places on 4th & 5th and at a few places on 3rd with isolated heavy to very heavy falls on 4th July over the State.

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

Advisories

- As rain / thundershowers are likely at most places over the State, postpone irrigation, intercultural operation and application of fertilizer and plant protection measures to sugarcane, summer vegetables, early *ahu* rice, jute, maize and regular *ahu* rice.
- Make arrangement for draining out excess water from the field under prevailing weather condition. Maintain 5 – 7 cm water in early *ahu* rice and regular *ahu* rice fields.
- Postpone harvesting of matured crops of early *ahu* rice.
- Postpone sowing of arhar and sowing / transplanting of *Sali* rice.

West Bengal

Rainfall was above normal over West Dinajpur, normal over Hoogly, Scanty over Howrah, Nadia, North Dinajpur and deficient over rest of the districts during last week.

Rain / thundershowers are likely at many places over Sub-Himalayan West Bengal & isolated over remaining parts of the State. Rainfall activity over Sub-Himalayan West Bengal is likely to increase during next 2-3 days.

Advisories

- As most of the districts of Gangetic West Bengal received no significant rain during last week and rain / thundershowers are likely at isolated places over this region, apply irrigation to sugarcane, green gram and jute in these districts.
- Maintain 5 – 7 cm water in the *aus* rice field.
- Continue sowing of groundnut and nursery sowing of *aman* rice in Gangetic West Bengal.
- As rain / thundershowers are likely at many places over Sub-Himalayan West Bengal, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to sugarcane, green gram, *aus* rice and jute and also postpone nursery sowing of *aman* rice in this region.

Bihar

Rain / thundershower occurred at one or two places over the State.

Rain / thundershower are likely at isolated places over the State. Rainfall is likely to increase during next

2-3 days.

Advisories

- There was no significant rainfall in the State except in **Aurangabad, Purnea and Rohtas** districts during last week and rain / thundershowers are likely to occur only at isolated places over the State for the next three days. Under the circumstances, apply irrigation to **vegetables, maize, pulses and oilseed** crops to bring the soil moisture to field capacity.
- Continue sowing of short duration **rice** varieties like Saket-4, Prabhat, radhiva etc. or photosensitive variety like Ragani, Kamini etc.
- Continue application of top dressed Nitrogen in **maize, pulses and oilseeds**.

Jharkhand

Rain occurred at a few places over the State.

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

Advisories

- Nursery sowing of **rice** may be continued where irrigation facilities are available.
- Continue sowing of upland crops like **rice, maize, mandua, groundnut, arhar, and urad** etc. with assured irrigation facilities.

Sikkim

Sky remained generally cloudy during the period.

Moderate to nearly heavy rain occurred at many places on 4th & 5th July. Very light to light rain occurred at a few places on 3rd July. Rainfall was normal during the period.

Rain / thundershowers are likely at many places over the State. Rainfall over the State is likely to increase during next 2-3 days.

Heavy to very heavy rainfall is also likely at a few places over the State during next 3-4 days.

Advisories

- As rain / thundershowers are likely to occur at many places over the State for the next three days, postpone irrigation to **orange, maize, potato and large cardamom** crops.
- Rouge out **chirke** and **foorkey** affected **large cardamom** plants and destroy them by burning.
- Continue preparing nursery for sowing of **kharif rice** after current spells of rain. The seedlings from nursery beds should be transplanted after 20-30 days as seedlings older than 30 days would reduce the yield.

Arunachal Pradesh

Rain / thundershower occurred at most places on 4th and 5th July, at many places on 29th June and at a few places on 30th June, at one or two places on 1st and 3rd July and weather remained dry on 2nd July.

Rain / thundershowers are likely at many places over the State with isolated heavy to very heavy falls at a few places.

Heavy rainfall likely to occur at isolated places over the state with very heavy rainfall over east Arunachal Pradesh during next 48 hrs.

Advisories

- Continue harvesting of matured **maize** crops after current spells of rain.
- Provide drainage to remove excess water from the **wet seeded rice** field during heavy rainfall.
- Continue sowing of new **ginger** crop in some parts of high altitude, middle area and foothills of Arunachal Pradesh after current spells of rain.

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

Gujarat

Monsoon was active over Saurashtra, rainfall occurred at isolated places over Gujarat region on 3rd July. Monsoon was vigorous over Saurashtra, rainfall occurred at many places over Gujarat region, Dadra Nagar Haveli at a few places over Kutch on 4th July. Monsoon was vigorous over South Gujarat region, active over North Gujarat region, Saurashtra, Daman, Dadra Nagar Haveli on 5th July.

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

Advisories

- As rain / thundershowers are likely at many places over the State, postpone irrigation, intercultural operation and application of fertilizer and plant protection measures to **sugarcane** and **pre-monsoon irrigated cotton**.
- Postpone preparation of land and sowing of **Kharif groundnut**, **Kharif bajra**, **Kharif maize** and **Kharif cotton** and nursery preparation / transplanting of **Kharif rice**.
- Make arrangement for draining out excess water from the **already sown crop fields** and nursery bed of **kharif rice**.

Chattisgarh

Bilaspur, Janjgir, Jashpurnagar, Kowardna, Korba, Koriya, Raigarh and Surguja districts of the State received deficient or scanty rain whereas remaining districts received excess or normal rain during last week.

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

Advisories

- As there was no significant rain in Bilaspur, Janjgir, Jashpurnagar, Kowardna, Korba, Koriya, Raigarh and Surguja districts and rain / thundershowers are likely at isolated places over the State for next three days, apply irrigation to **sugarcane**, and **early sown summer vegetables**, **green gram** and **black gram** in these districts. As the remaining districts of the State received rain during last week, postpone irrigation in these districts.
- Continue sowing of **Kharif vegetables**, **red gram**, **green gram**, **black gram**, **soybean**, **groundnut** and nursery sowing of **Kharif rice** with the use of recent monsoon rain.
- Select early varieties of **rice** like IR 36, IR 64, MTU 1010, Purnima, Danteshwari and varieties like Asha, B.D.N-2, Laxmi -148, C-11 of **red gram**, J- 851, Pusa Vishal, BM-4, Malvia Jyoti 12 of **green gram**, KU – 96-3 TPU -4, TU -94-2, PU -30 of **black gram**, JS – 335, JS – 93-05, JS – 80-21 and Indira Soya – 9 of **soybean** and SB11, AK-24, TAG-26, AK- 159 of **groundnut** for sowing.

Maharashtra

Monsoon was active over East Vidarbha, North Konkan & South Madhya Maharashtra. Monsoon was also active over Marathwada & North Madhya Maharashtra on 5th July. Rainfall occurred at most places over South Konkan, Vidarbha and Marathwada.

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

Advisories

- As there was excess rain in most of the districts of the State during last week, postpone irrigation to **Sugarcane** and **Cotton (irrigated)**.
- 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 in Vidarbha and on a non-rainy day in Madhya Maharashtra and Marathwada region.

- Continue sowing of nursery of *Kharif rice* in Vidarbha. Select varieties from SKL 6, SYE 1 or 4, PKV, HMV.
- Continue sowing of *jowar, Kharif groundnut, bajra, soybean, sunflower, kharif cotton, tur* and *moong* in Vidarbha and on a non-rainy day in Marathwada with the help of recent monsoon rain. Farmers in Madhya Maharashtra are advised to postpone sowing operation for another two days.
- 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*, from PKV 1, TAMS 38, MAUS 47, 61, 71 or 81, Phule Kalyani and Samruddhi for *soybean* and 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*, from T – Vishakha 1, TAT 10, Akola Hybrid 1, Vaishali 853, IPPL 87, AKT 8811, BDN 1& Vipula for *tur* and from TAP 7, TARM 2 or 18, AKM 8802 or 8803 for *moong*.

Madhya Pradesh

Monsoon has been active in South East M. P. on 3rd and 5th July, rainfall occurred at many places in South East M. P. on 4th July and South West M. P. on 4th July and North East M. P. on 5th July and at isolated places over rest of the state on remaining period.

Rain / thundershowers are likely at many places with isolated heavy falls over West Madhya Pradesh and isolated over the rest region.

Advisories

- Farmers are advised to take up **sowing** of *kharif crops viz., cotton, maize, soyabean, urad, rice, jowar* and *tur* immediately after current spells of rain in West Madhya Pradesh. Continue sowing in East Madhya Pradesh.
- As rain / thundershowers are likely at many places over West Madhya Pradesh for next three days, postpone irrigation to *sugarcane*. Apply irrigation in East Madhya Pradesh.

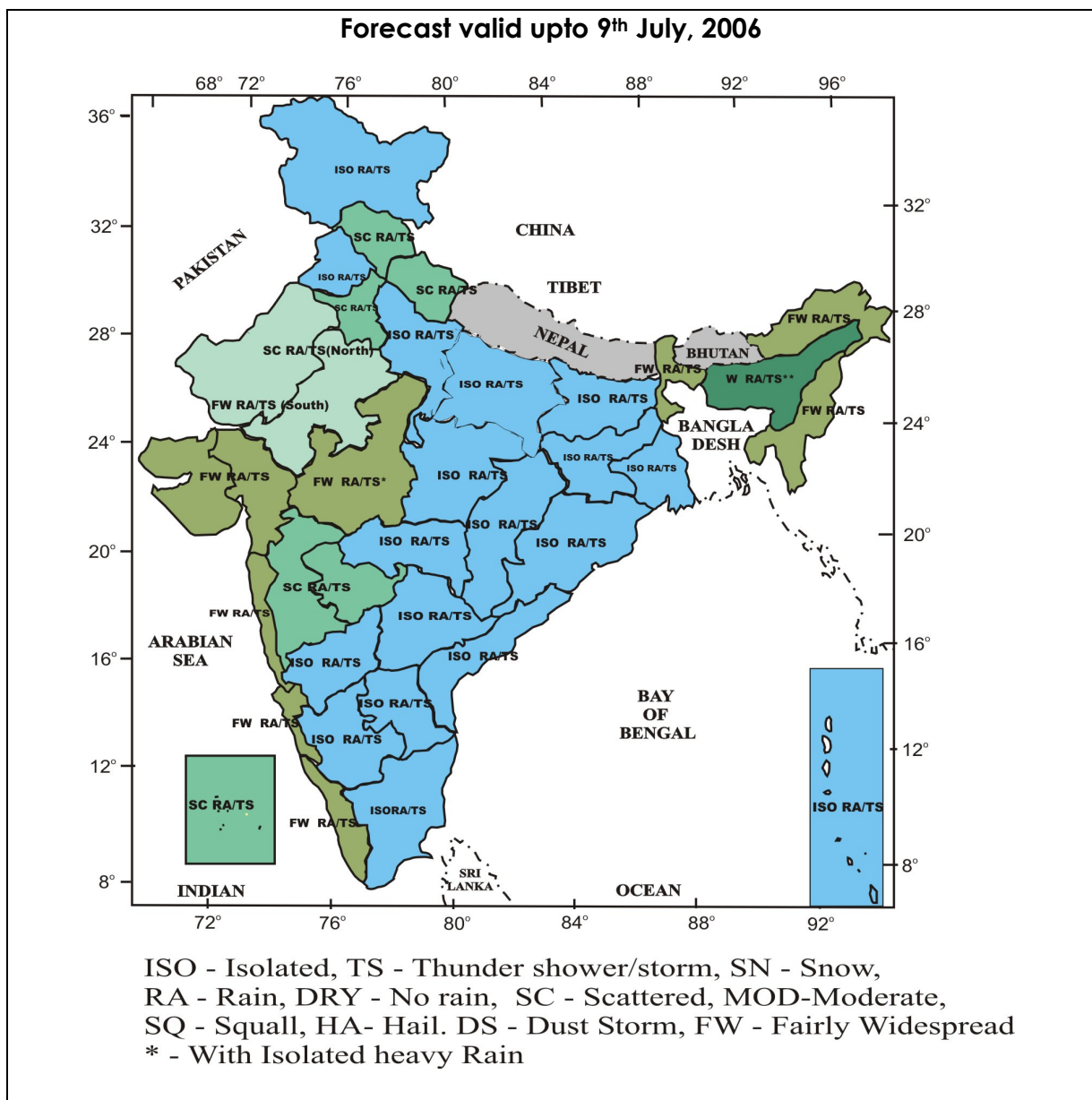
Orissa

Southwest monsoon was vigorous over the State on 3rd and 4th July. Rain fall occurred at most places over the state on 3rd and 4th July and at a few places on 5th July. Heavy to very heavy falls occurred at isolated places over the State on 3rd and 4th July.

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

Advisories

- Farmers are advised to continue land preparation and sowing of *kharif crops* like *rice, groundnut and pulse crops* by utilizing the monsoon showers.
- As excess rainfall occurred at most places over Orissa during last week, postpone irrigation to *vegetables, sugarcane* and *jute* crops.
- 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 05/07/06

CHIEF FEATURES: 1) A deep depression formed over the north Bay on 2nd, which moved in a westerly direction across the central parts of the country. 2) Southwest monsoon covered parts of northwest India in the beginning of the week.

It advanced into: some more parts of Gujarat region, entire Vidarbha, most parts of west Madhya Pradesh, entire east Madhya Pradesh, Chattisgarh and east Uttar Pradesh, some parts of west Uttar Pradesh, entire Uttaranchal, parts of Himachal Pradesh and entire Jammu & Kashmir on 29th and most parts of north Arabian Sea, entire Gujarat State, some parts of east Rajasthan, entire west Madhya Pradesh, some more parts of west Uttar Pradesh, entire Himachal Pradesh and some parts of Punjab on 30th

WEEK'S RAINFALL: Week's rainfall was excess in Orissa, Gujarat state, Maharashtra & Goa states, Chattisgarh, coastal Andhra Pradesh, Telangana and interior Karnataka; normal in Uttaranchal, Rajasthan, coastal Karnataka and Kerala. It was deficient over the rest of the country outside Assam & Meghalaya, west Uttar Pradesh and Rayalaseema where it was scanty.

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

June 2006

29 Khed 23, Nilkund 20, Hinganghat, Pali, Bhalukpong 16, Mahabaleshwar 15, Rajura 14, Agumbe 13, Pindwara 11, Katni 10, Arang, Vadkara 9.

30 Vyara, Agumbe 23, Mangroi 20, Matheran 18, Maliya 17, Karjat, Belthangadi 16, Anandpursahib, Karkala 15, Manathavady 12, Cannur 11.

July 2006

01 Nimapara 23, Kakatpur 19, Karjat, Mhasala 18, Bardoli, Madhuban 15, Agumbe 13, Sikandarpur 9, Dhanora 8, Munnar, Londa 7.

02 Puri 27, Gaganbawada 17, Mangroi, Agumbe 16, Nimapada, Chiplun 15, Sawanwadi 12, Dharamsthala 11, Nilkund 10, Alipurduar 9.

03 Nawrangpur 38, Pali 33, Rayagada 30, Bhira 27, Kankir 25, Gariaband, Patapatnam 19, Londa, Bhagmandala 17, Yellapura, Vythiri 10.

04 Titlagarh 32, Junagad 31, Bhira 27, Pannel, Mahabaleshwar 24, Gadochiroli 23, Kanker, Kalasa, Bhagmandala 21, Vythiri 20, Gariabad 19.

SEASON'S RAINFALL (01-06-2006 to 05-07-2006): Seasons rainfall was excess in Orissa, Gujarat region, Madhya Maharashtra, Rayalaseema and interior Karnataka; normal in Nagaland-Manipur-Mizoram-Tripura, Jharkhand, east Uttar Pradesh, Haryana, Punjab, Himachal Pradesh, Jammu & Kashmir, Rajasthan, Saurashtra & Kutch, Konkan & Goa, Marathwada, Vidarbha, coastal Andhra Pradesh, Telangana, Tamil Nadu, coastal Karnataka, Kerala and Lakshadweep. It was deficient over the rest of the country outside east Madhya Pradesh, where it was scanty.

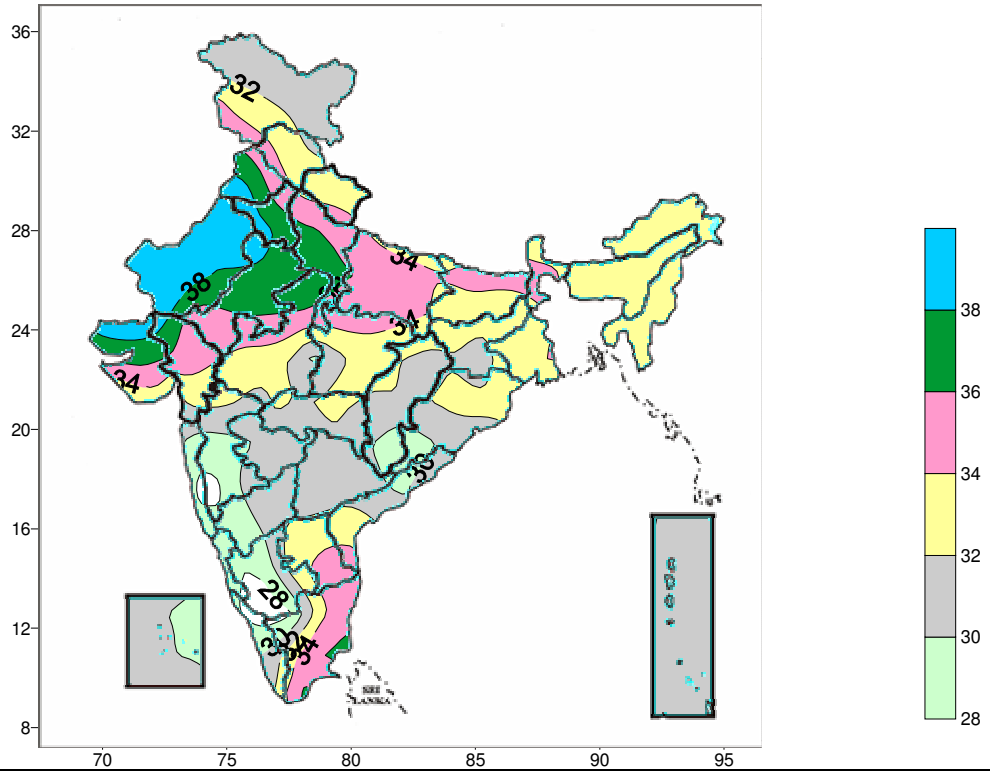
TEMPERATURES: Heat wave conditions prevailed on 3 days in some parts of west Rajasthan. In the regions where the southwest monsoon is yet to set in; day temperatures were appreciably above normal on 1 to 4 days in Haryana and Rajasthan and they were above normal on 1 to 2 days in Haryana and Rajasthan.

WEATHER AND ASSOCIATED SYNOPTIC FEATURES: (1) Last week's upper air cyclonic circulation off north Andhra – south Orissa coasts persisted there on 29th. Under It's influence, a low pressure area formed over the north Bay on 30th June. It became well marked over there on 1st July and rapidly concentrated into a deep depression which lay centred at 0830 hrs. IST of 2nd near Lat. 20.5^o N/ Long. 89.0^o E and lay centred at 1730 hrs. IST of 2nd near Lat. 20.5^o N/ Long. 88.0^o E about 150 km southeast of Balasore. Moving westwards, it crossed Orissa coast between Paradip and Chandbali around 2030 hrs. IST of 2nd and lay close to Cuttack at 0830 hrs. IST of 3rd. Subsequently it moved westnorthwestwards and lay close to Sambalpur (Orissa) at 1730 hrs. IST of 3rd and close to Raipur (Chattisgarh) at 0830 hrs. IST of 4th. Thereafter it weakened into a depression over Vidarbha and neighbourhood by 1430 hrs. IST and lay centred close to Nagpur at 1730 hrs. IST of 4th. Continuing it's westnorthwestward movement, it lay close to Betul (west Madhya Pradesh) at 0830 hrs. IST of 5th. It further weakened into a well marked low pressure area over west Madhya Pradesh and adjoining southeast Rajasthan by the afternoon and lay over south Rajasthan and adjoining west Madhya Pradesh in the evening of 5th. (2) The upper air cyclonic circulation over Saurashtra & Kutch and neighbourhood persisted between 1.5 & 5.8 km a.s.l. over northeast Arabian Sea and adjoining Gujarat State till 1st July. It lay over: Gujarat State on 2nd; Gujarat Region and adjoining Madhya Maharashtra on 3rd & 4th and merged with the circulation associated with the depression on 5th. (3) The seasonal east–west trough at sea level generally passed through Ganganagar, Agra, Allahabad, Daltonganj and thence north Bay. However, it's western end shifted much to the south and passed through south Rajasthan and central parts of Madhya Pradesh, subsequent to the westward movement of the depression. (4) The offshore trough at sea level extended from south Gujarat to Kerala coasts throughout the week with a steep pressure gradient along the west coast. (5) The upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir moved away northeastwards across Jammu & Kashmir on 1st July. (6) A fresh upper air cyclonic circulation extending upto 4.5 km a.s.l. lay over north Pakistan and adjoining Jammu & Kashmir on 5th.

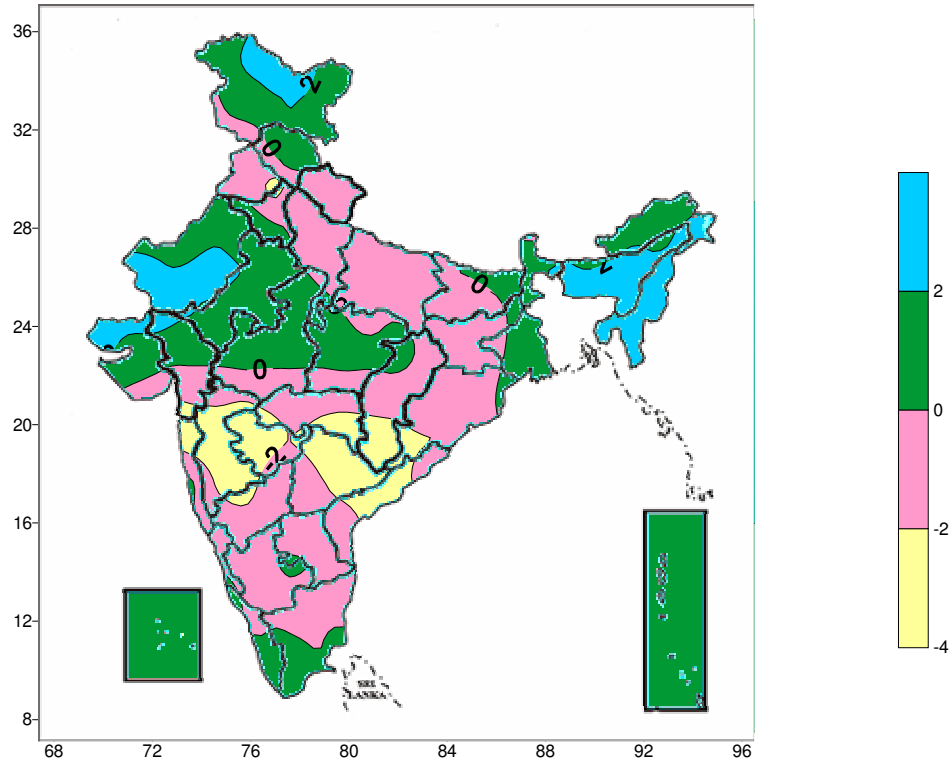
The southwest monsoon has been vigorous on 1 to 3 days in Orissa, Gujarat region and coastal Andhra Pradesh and active on 2 to 4 days in east Madhya Pradesh, Saurashtra & Kutch, Chattisgarh and Telangana and on 1 day each in Arunachal Pradesh, West Bengal & Sikkim, west Madhya Pradesh, Gujarat region, Konkan & Goa, Madhya Maharashtra, Marathwada, interior Karnataka and Kerala.

Very heavy rain occurred on 4 to 6 days in Orissa, Gujarat region, Konkan & Goa, Madhya Maharashtra and south interior Karnataka and on 1 to 3 days in Arunachal Pradesh, Assam & Meghalaya, Punjab, Himachal Pradesh, Saurashtra & Kutch, Marathwada, Vidarbha, Chattisgarh, coastal Andhra Pradesh, Telangana, coastal Karnataka and Kerala. Heavy rain also occurred on 3 to 5 days in Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Vidarbha, Telangana, Tamil Nadu, coastal & north interior Karnataka and Kerala and on 1 to 2 days in Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Gangetic West Bengal, Orissa, Bihar, west Uttar Pradesh, Haryana, Himachal Pradesh, east Rajasthan, Madhya Pradesh, Gujarat state, Madhya Maharashtra, Chattisgarh, coastal Andhra Pradesh and south interior Karnataka. Rain or thundershowers occurred at most places on 7 days each in Konkan & Goa, coastal Karnataka and Kerala and on 1 to 3 days in Andaman & Nicobar Islands, Arunachal Pradesh, West Bengal & Sikkim, Orissa, Bihar, Himachal Pradesh, Gujarat state, Marathwada, Vidarbha, Chattisgarh and Lakshadweep; at many places on 3 to 5 days in West Bengal & Sikkim, east Madhya Pradesh, Madhya Maharashtra and Telangana and on 1 to 2 days in Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Rajasthan, west Madhya Pradesh, Gujarat state, Marathwada, Vidarbha, Chattisgarh, coastal Andhra Pradesh, north interior Karnataka and Lakshadweep.

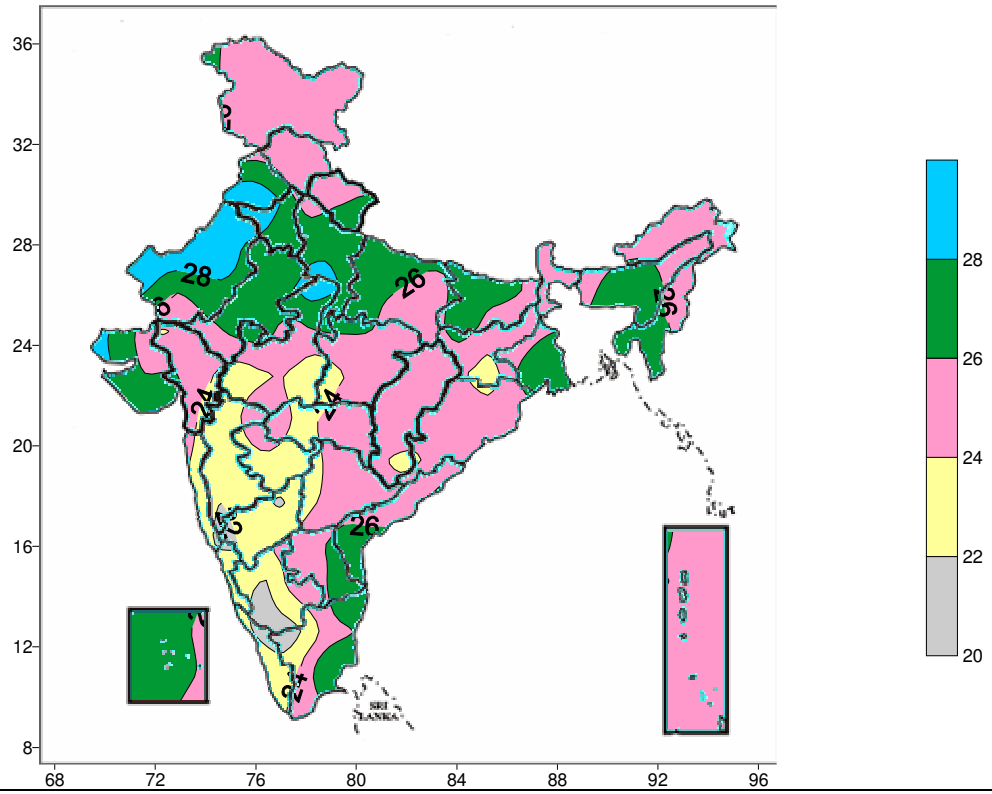
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 05.07.06



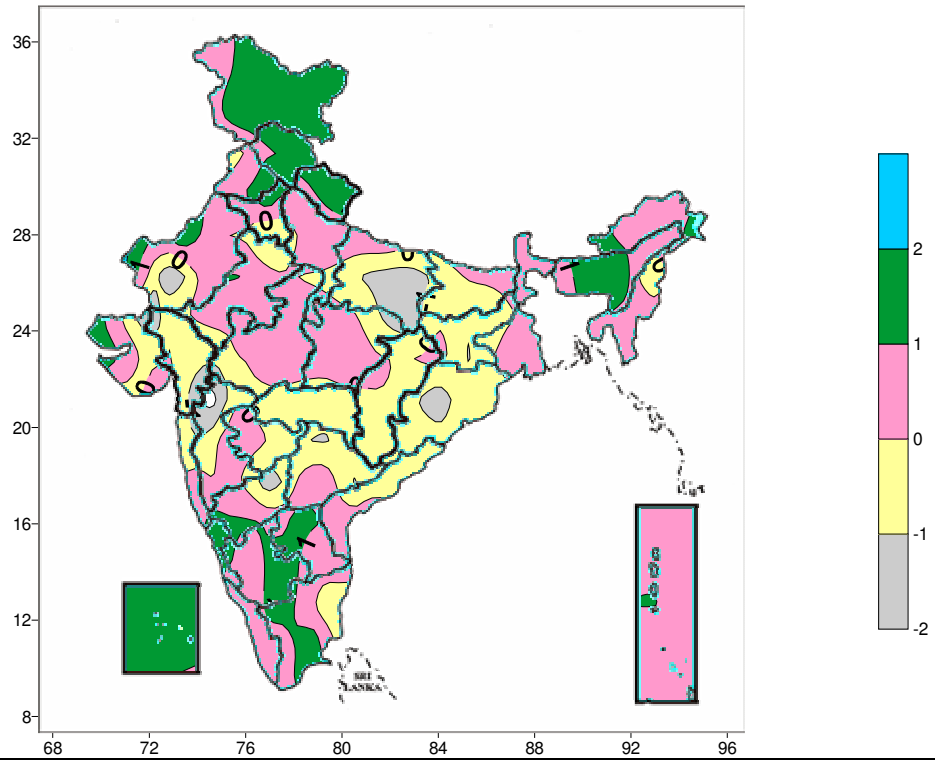
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 05.07.06



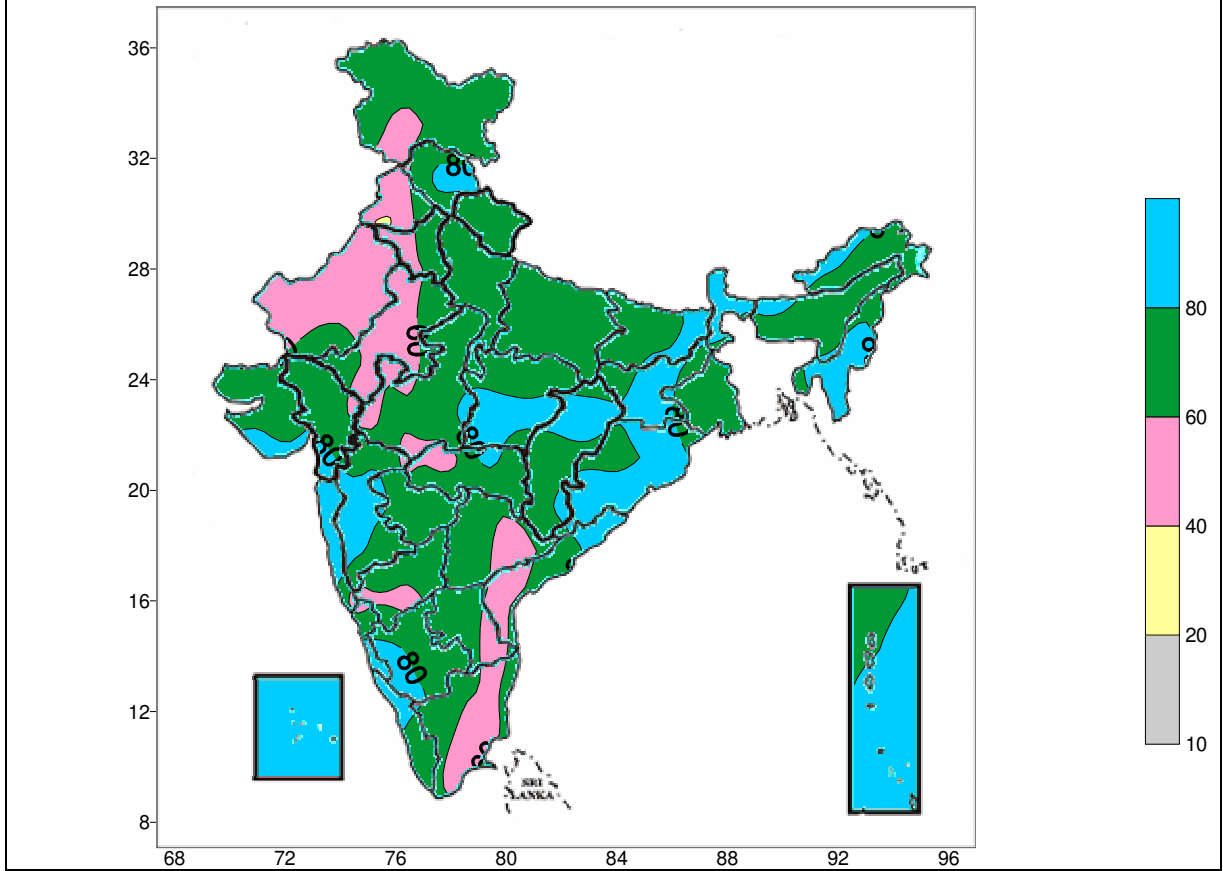
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 05.07.06



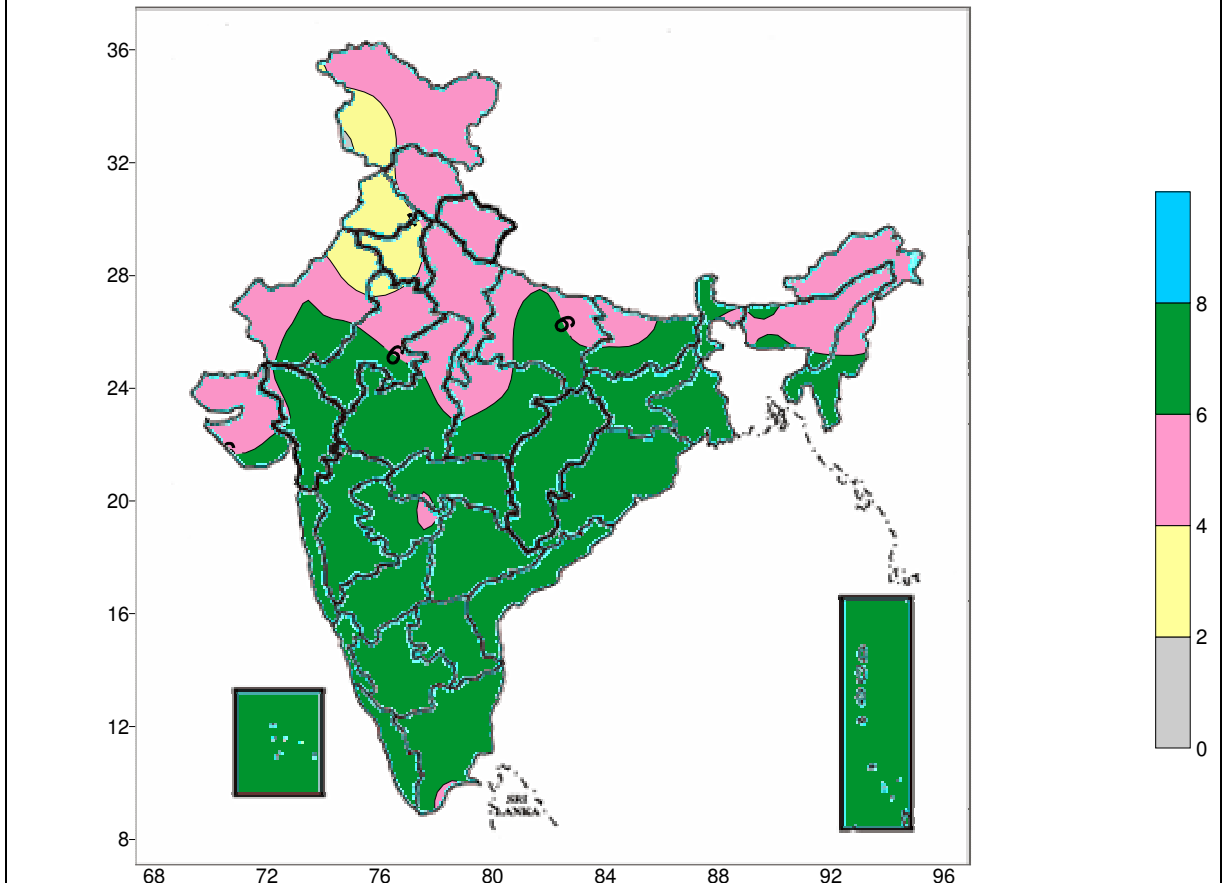
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 05.07.06



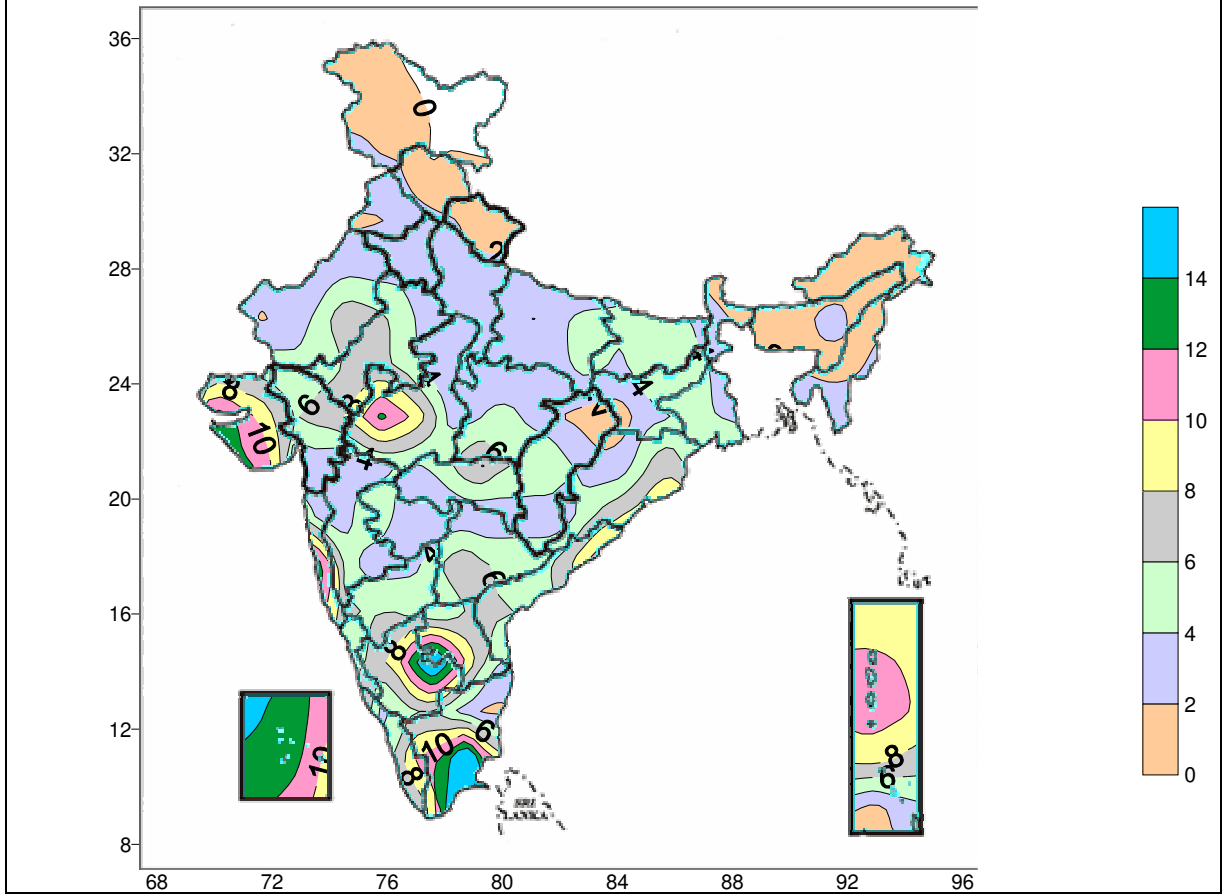
Relative humidity (%) over India for the week ending 05.07.06



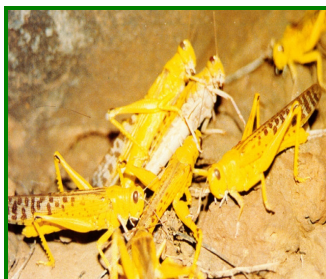
Cloud amount (okta) over India for the week ending 05.07.06



Wind speed (knots) over India for the week ending 05.07.06



Desert Locust Forecasting



Rainfall (mm)							
Station Name	29.6.06	30.6.06	1.7.06	2.7.06	3.7.06	4.7.06	5.7.06
Amritsar	-	118	-	-	-	-	-
Barmer	-	-	-	-	2.4	52	31
Sriganganagar	-	441	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-
Dessa	-	-	-	-	-	-	-
Churu	-	1	-	-	-	-	-

Temperature (degree celcius)							
Station Name	29.6.06	30.6.06	1.7.06	2.7.06	3.7.06	4.7.06	5.7.06
Amritsar	30	28.5	30	31.5	32.5	31.5	32
Barmer	32.5	32	34	34	36	36	36
Sriganganagar	35	28.5	31.5	35	37	35	37.5
Jaisalmer	33	34.5	35	36	36.5	37.5	32.5
Kota	30.5	31.5	32.5	33	34.5	33.5	34.5
Dessa	30	27.5	31.5	32	-	31	32.5
Churu	-	-	-	-	-	-	-

Wind														
Station Name	29.6.06		30.6.06		1.7.06		2.7.06		3.7.06		4.7.06		5.7.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	13	SE	08	SW	-	-	-	-	05	NE	07	E	25	S
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganganagar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaisalmer	03	ENE	04	NNE	-	-	-	-	05	S	14	N	02	ESE
Kota	07	NW	13	SE	-	-	-	-	15	NE	21	NNE	21	ENE
Dessa	-	-	02	S	-	-	-	-	-	-	13	N	09	NNE
Churu	13	WNW	15	SE	-	-	-	-	12	E	08	E	19	E

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 / Germination	Vegetative
Bajra				
Sowing				

Himachal Pradesh

Rice	Maize	Apple	Tomato, brinjal, ladies finger	Fodder crops
transplanting	early vegetative/ vegetative	maturity	flowering/ fruiting / harvesting	vegetative
Moong / Mash	Fruit plants			
flowering / pod formation	fruiting			

Jammu & Kashmir

Vegetables crops	Rice	Maize		
Transplanting / Emergence / vegetative	Nursery preparation & sowing	Knee-high / Vegetative		

Punjab

Sugarcane	Paddy	Groundnut/Maize /Pulses	Early sown Cotton	Kharif pulses
Vegetative	Transplanting	Sowing / germination	Vegetative	Sowing

Rajasthan

Zaide moong	Zaide fodder	cotton	Groundnut	Bajra / Maize / Soyabean / Pulses
Harvesting	Vegetative / Harvesting	Early Vegetative	Sowing	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 <i>ahu</i> rice
silking / tasseling / cob formation	Vegetative	Vegetative/maturity	vegetative / flowering / fruiting / harvesting	Grain formation // grain maturity harvesting

Regular ahu rice	Arhar	Sali rice		
tillering / panicle initiation / flowering stage	Sowing	sowing / transplanting		

Arunachal Pradesh

Wet seeded rice	maize	Summer vegetables	ginger	millet
Vegetative	Harvesting	Harvesting	Sowing	Grain maturity
Jhum paddy				
Panicle initiation				

Bihar

Vegetables	Rice	Maize	Pulses and Oil seeds	
Early vegetative	Sowing/ Seedling/ Transplanting	Vegetative	Early vegetative	

Jharkhand

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

Sikkim

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

West Bengal

Aus rice	sugarcane	Jute	Green Gram	Aman rice
Tillering/ panicle initiation/ flowering	Early vegetative / vegetative	Vegetative	Vegetative / Flowering	Nursery sowing
Groundnut				
Sowing				

Chattisgarh

Chilly, Cabbage, Tomato, Brinjal	Kharif Vegetables	Sugarcane	Kharif rice	Soybean
(summer veg.- Vegetative / flowering / fruiting / harvesing)	Sowing / nursery sowing	Vegetative	Land preparation & nursery sowing	Sowing
Green gram(early sown)	Red Gram	Blackgram / Greengram	Groundnut	
Vegetative / flowering / pod formation	sowing	sowing	Sowing	

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 / transplanting
Kharif Cotton	Early sown groundnut	Early sown bajra	Early sown Maize	Early sown cotton
Land preparation & nursery sowing	Germination/ seedling/ early vegetative	Germination/ seedling/ early vegetative	Germination/ seedling/ early vegetative	Germination/ seedling/ early vegetative

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 / germination

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	Early sown Groundnut	Kharif Groundnut	Sugarcane (pre-seasonal)	Early sown Pulses
Flowering / fruiting / harvesting	Germination / early vegetative	Sowing	Vegetative/tillering	Germination / early vegetative
Kharif rice	jute	Pulses		
Sowing / nursery sowing	Vegetative	Sowing		

Andhra Pradesh

Rabi maize/sunflower	Rabi rice	Kharif crops (Groundnut/Maize/Chillies/Cotton /Tur)		
End harvesting	End harvesting	Sowing		

Karnataka

Early planted sugarcane	Sugarcane	New sugarcane	Kharif crops (jowar, maize, groundnut, cotton)	Groundnut
Early vegetative	Vegetative - ratoon crop	planting	Germination / seedling	Branching stage
Kharif rice				
Nursery sowing				

Kerala

Rubber	Virippu Rice			
Tapping	Tillering			

Tamil Nadu

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