



Summary of Agromet Advisory Services for different States of the country

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

Agromet Advisory for the Problem Areas

Andhra Pradesh

Weather Forecast

- Rain/thundershowers are likely at few places over Andhra Pradesh during next 48 hours and increase thereafter.

Advisories

Coastal AP

- Farmers in **West Godavari, Krishna, Guntur** and **Prakasam** districts are advised to undertake sowing of red gram (LRG 38 and 41) and chillies (LCA 334 and 353) with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days. Undertake transplanting of rice (BPT 5204) in a week.
- Farmers in **Srikakulam, Vijayanagaram** and **Visakappattinam** districts are advised to undertake sowing of groundnut (JL 24), green gram (MGG 295 and LGG 450 and 460) and red gram (LRG 30 and 41) with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days. Farmers in Srikakulam district are advised to continue transplanting of rice (RGL 2537 and Swarna Mashoori).
- In **West Godavari, Guntur** and **Krishna** districts, there was good amount (70-110 mm) of rainfall during last week. **Prakasam** district received 32 mm of rainfall. There is also possibility of ~25-40 mm rainfall in the above districts for the next five days. With the realized rainfall, sowing of cotton will be completed. Nursery sowing of rice is also completed. In some places, 15 days old nursery is there.

Rayalaseema

- Farmers in **Ananthapur** and **Kurnool** districts are advised to continue sowing of groundnut (K6, ICGV 9114 and Narayani) along with red gram (LRG 30 and 41) as intercrop. If groundnut sowing is not undertaken, undertake sowing of red gram as monocrop. Also undertake planting of acid lime, papaya, sweet orange and mango with realized rainfall during last week.
- In **Chittoor** district, there was sufficient amount of rainfall (41 mm) for the week ending 30th July. There is a possibility of ~25 mm rainfall for the next five days. Out of 102 mm normal rainfall for the month of July, 94 mm was received so far. Due to continuous dry spell upto second week of July, only 73000 ha could be sown for groundnut out of 148552 ha normal area. But as on 30th July, with receipt of good amount of rainfall, sowing of groundnut is completed in 130000 ha. Remaining 18500 ha will be covered in 3-4 days. Total area to be under cultivation is 231353 ha and so far 182473 ha are now under crops. Agricultural operations are revived and in full swing.
- Farmers in **Chittoor** district are advised to complete sowing of groundnut at the earliest with realized rainfall during last week and also with possibility of sufficient amount of rainfall for the next five days and undertake sowing of castor, red gram, horse gram and tomato in August. Due to continuous dry spell, minor incidences of thrips and sucking pests are reported in groundnut.
- In **Cuddappah** district, there was deficit rainfall (14 mm) for the week ending 30th July. There is a possibility of ~25 mm rainfall for the next five days. Due to continuous dry spell upto second week of July, only 15000 ha could be sown for groundnut out of normal groundnut area of 137393 ha. But with the receipt of deficit rainfall during last week, so far sowing is

completed in 39000 ha. Total area to be under cultivation is 234097 ha but only 74415 ha is now under crops due to dry spell upto second week of July and deficit rainfall for the past two weeks.

- In **Nellore** district, there was excess rainfall (47 mm) for the week ending 30th July. There is a possibility of ~20 mm rainfall for the next five days. Rice is cultivated in 32000 ha. But this year, transplanting of rice was completed in 62000 ha with the use of bore wells. Total area to be under cultivation is 115410 ha and so far 96815 ha are now under crops. Agricultural operations are in full swing.
- Farmers in **Cuddappah** district are advised to undertake sowing of alternate crops like castor, red gram and horse gram with realized rainfall during last week and also with possibility of some amount of rainfall for the next five days (~25 mm) and transplanting of rice in August with canal irrigation.

Telangana

- Due to receipt of sufficient amount of rainfall during last week and also with possibility of good amount of rainfall for the next five days, farmers in **Medak, Warrangal, Karimnagar** and **Nizamabad** and in plains of **Adilabad** and **Khammam** are advised to undertake transplanting of rice (JGL 1798).
- In high altitude areas of **East Godavari** and **Adilabad**, around 90 mm of rainfall was received during last week; **Khammam** received 157 mm and **Visakappattinam** received 70 mm of rainfall.
- In view of sufficient amount of rainfall received during last week and also with possibility of good amount of rainfall for the next five days, farmers in high altitude areas of **East Godavari, Adilabad, Khammam** and **Visakappattinam** districts are advised to complete transplanting of rice and continue sowing of maize (Aswini and Varun), ragi (Godavari and Ratnagiri) and minor millets.

Rainfall Distribution during last three weeks

Districts	Rainfall (% Departure) for last three weeks and season ending				Cumulative forecast rainfall (mm) for next 5 days (1 st to 5 th August)***
	16/07/08	23/07/08	30/07/08	Season ending-	
Coastal Andhra Pradesh					Coastal Andhra Pradesh
East Godavari	-26	-4	83	10	East Godavari 70
Guntur	31	43	69	11	Guntur 74
Krishna	-23	14	89	12	Krishna 60
Nellore	-58	-2	123	-20	Nellore 41
Prakasam	-92	116	12	-31	Prakasam 60
Sirkakulam	-3	-24	129	-19	Sirkakulam 44
Visakhapatnam	-62	-35	74	-28	Visakhapatnam 59
Vizianagram	-17	31	214	0	Vizianagram 49
West Godavari	-2	53	85	7	West Godavari 63
Telangana					Telangana
Adilabad	-82	-47	7	-27	Adilabad 53
Hyderabad	-98	-73	55	-47	Hyderabad 52
Karimnagar	-69	-26	-8	-23	Karimnagar 53
Khammam	-60	3	99	29	Khammam 57
Mehabubnagar	-90	-55	3	-51	Mehabubnagar 62
Medak	-95	-38	4	-50	Medak 53
Nalgonda	-91	27	-2	-32	Nalgonda 56
Nizamabad	-95	-28	55	-25	Nizamabad 46
Rangareddy	-76	-63	32	-41	Rangareddy 66
Warangal	-88	7	41	-3	Warangal 63
Rayalaseema					Rayalaseema
Anantapur	340	86	39	57	Anantapur 22
Chittoor	-1	21	82	-7	Chittoor 18
Cuddappah	-15	-33	-47	-64	Cuddappah 28
Kurnool	-44	8	47	-25	Kurnool 41

Legends				
(20% or more excess)	(-19 to +19% normal)	(-20 to -59% deficient rainfall)		
(-60 to -99 % scanty rainfall)	(-100% no rainfall)	**		(Data not available)

***Final district level forecast after value addition is available in the Meteorological Centre, Hyderabad.

Kerala

Weather Forecast

- Rain/thundershowers are likely **at many places** over Kerala.
- Isolated heavy rainfall is likely over the State.

Advisories

- Late transplanting of paddy may lead to the attack of gall midge. Monitor the crop for the pest and undertake plant protection measures to control the pest.
- **Malappuram, Kozhikode, Kasargod and Kannur** districts received 215-300 mm rainfall during last week. Due to continuous dry spell upto second week of July, rice varieties like Adhira, Jyoti and Jaya showed stress symptoms. The crop now recovers with receipt of some amount of rainfall during last two weeks
- Farmers in **Thrissur** are advised to complete sowing of bitter gourd, Dolichos bean (DL 6 and Revathy), Amaranthus (CO 6) and cowpea with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days. Farmers in other districts are advised to undertake intercultural operations and application of fertilizers in rice.
- As there is a possibility of good amount of rainfall for the next five days, farmers are advised to undertake intercultural operations and application of fertilizers in rice after receipt of rains.
- **Palakkad** (208 mm), **Thrissur** (173 mm), **Ernakulam** (164 mm) and parts of **Malappuram** (213 mm) received varied amounts of rainfall during last week. There is a possibility of ~50 mm rainfall in the districts for the next five days. Crops like rice and vegetable suffered due to dry conditions upto second week of July now recover from the stress.

Rainfall Distribution during last three weeks

Districts	Rainfall (% Departure) for last three weeks and season ending				Cumulative forecast rainfall (mm) for next 5 days (1 st to 5 th August) ***	
	16/07/08	23/07/09	30/07/08	Season ending-		
Kerala					Kerala	
Alappuzha	5	42	103	15	Alappuzha	53
Kannur	-86	-94	20	-39	Kannur	70
Ernakulam	-31	-25	8	-36	Ernakulam	59
Idukki	-45	-37	96	-27	Idukki	72
Kasaragod	-67	-77	39	-21	Kasaragod	77
Kollam	-6	-5	162	-27	Kollam	60
Kottayam	-15	1	70	-30	Kottayam	62
Kozhikode	-65	-95	33	-31	Kozhikode	68
Malappuram	-73	-91	39	-38	Malappuram	64
Palakkad	-64	-88	60	-31	Palakkad	52
Pathanamthitta	32	39	123	-13	Pathanamthitta	64
Thiruvananthapuram	19	-25	141	-39	Thiruvananthapuram	49
Thrissur	-63	-69	15	-38	Thrissur	56
Wyanad	-85	-85	28	-61	Wyanad	60

***Final district level forecast after value addition is available in the Meteorological Centre, Thiruvananthapuram.

Karnataka

Weather Forecast

- Rain/thundershowers are likely **at many places** over Coastal Karnataka and **at a few places** over South Interior Karnataka and **isolated** over the rest region
- Isolated heavy rainfall is likely over coastal Karnataka.

North Interior Karnataka

Advisories

- Farmers in **Bidar** region are advised to continue sowing of red gram (Maruti and BSMR 736), bajra and spreading groundnut till the end of July with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days.
- There was good amount of rainfall in **Dharwad, Haveri** and **Belgaum** districts (~45 mm) for the week ending 30.07.08 with a possibility of ~45 mm of rainfall for the next five days. Sowing of maize, onion, chillies is continued.
- Farmers in **Dharwad, Haveri** and **Belgaum** districts are Advised to undertake sowing of maize (Kargil, M 330), planting of onion and transplanting of chillies with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days. Also in parts of **Belgaum** and **Haveri** sowing of groundnut (JL 24) may be undertaken.
- In **Gulbarga** and **Raichur**, there were 85 and 37 mm of rainfall, respectively, for the week ending 30.07.08 with a possibility of ~30 mm of rainfall for the next five days. Due to continuous dry spell upto second week of July, ~10% area is under cultivation. Due to delay in release of water from Dungabdra canal, rice nursery is over aged (40-50 days). As transplanting could not be done with these old seedlings, farmers now shift to cotton (25% of rice area) with the release of water from this week.
- In view of sufficient amount of rainfall received during last week, farmers in **Gulbarga** and **Raichur** districts are advised to continue sowing of cotton (Bt cotton), late varieties of red gram (GS 1, Maruti, PT 221 and Asha) and bajra (WCC 75 and ICTP) upto second week of August and sunflower during second week of August.
- **In Koppal, Bijapur, Bellary, Gadag and Bagalkot, there was excess/normal rainfall only during first week of June. Since second week of June upto third week of July, all the above districts received scanty rainfall. There was excess/normal rainfall only during last week of July (actual: 14-27 mm).**
- These five districts (plus parts of Dharwad) comprise 36.63 lakh under cultivation. Out of which 5.82 lakh ha area is under irrigation and remaining area is under rainfed. These rainfed area is predominantly *rabi* belt and in an area of around 8 lakh ha, *kharif* crops are undertaken. Farmers in areas where red soils and shallow black soils present, go for *kharif* crops predominantly. Farmers in areas where medium to deep black soils present, go for *rabi* crops predominantly. Even *kharif* crops are taken in medium to deep black soils in some areas. Following is a detailed report about status of monsoon and crops during 2008 in these districts (**Source: AMFU and KVKs in the region**).

In Bijapur, only 2 per cent of *kharif* cropping area has been sown in low lying areas. But due to dry conditions, the standing crops wither and could not be saved. **In Bagalkot**, sowing of green gram, pearl millet, ground nut and soybean crops was undertaken. 25-30% *kharif* crops area was covered including sugarcane. For the week ending 30.07.08, some of the areas in the district received thundershowers. However, large area of the rainfed crops faces extreme stress condition. Rainfed crops in the district are likely to be failure. **In Bellary**, only ten percent of the *kharif* cropping area was sown. *Kharif* sorghum, the major crop, has failed due to continuous dry spell during the season. No remedial measures could be taken up. **In Gadag**, only seven percent of the *kharif* crop area has been taken up for sowing, of which green gram was predominant has failed. No remedial measures could be taken up. **In Koppal**, green gram and pearl millet were sown in less than 10% of *kharif* cropping area. They are withering and could not be saved. **In parts of**

Dharwad, sowing of green gram, cotton and soybean has been taken up in parts of the district. The rainfed crops face extreme stress condition.

- The Contingent crop plan that can be suggested for **August first fortnight sowing**, (Failure of rainfall in the months of June and July)
- In red soils and shallow black soils, undertake sowing of sunflower, navane, castor, ragi, bajra, horsegram, bajra + pigeonpea (2:1 rows); groundnut + pigeonpea (3:1 or 4:2 rows) and fodder maize and bajra. In medium to deep black soils, undertake sowing of pigeonpea, bajra, sunflower, horsegram, *herbaciium* cotton + groundnut and fodder maize and bajra
- The Contingent crop plan that can suggested for **August second fortnight sowing**, (Failure of rainfall in the months of June and July and first fortnight of August)
- In red soils and shallow black soils, undertake sowing of sunflower, navane, castor, and fodder maize and bajra. In medium to deep black soils (where *kharif* sowing are done), undertake sowing of pigeonpea, bajra, Sunflower, horsegram, *herbaciium* cotton + groundnut and fodder maize and fodder bajra. In medium to deep black soils (where *kharif* sowings are not done but preserved for *rabi* sowings), avoid sowing of any crops during *kharif*. Soil and water conservation measures (compartment bunding, counter bunds, repeated harrowing etc) may be followed.

Coastal Karnataka

- In view of good amount of rainfall received during last week and also with possibility of good amount of rainfall for the next five days ~140 to 200 mm), farmers are advised to undertake transplanting of rice (MO 4 and Champaka). If nursery is not raised, undertake direct drum seeding of rice. Also undertake planting of cashew and banana with the realized rainfall.

South Interior Karnataka

- Due to receipt of sufficient amount of rainfall during last week and also with possibility of good amount of rainfall for the next five days, farmers are advised to complete sowing of jowar, red gram, cowpea, horse gram and maize and planting of onion, potato, garlic and chillies.
- In **Chitradurga**, there was 25 mm of rainfall during last week and chance of 38 mm rainfall for the next five days. Normally groundnut sowing is undertaken in 1.5 lakh ha area. But so far, sowing of groundnut is completed in 90000 ha only. Still 40% area is to be sown. Particularly, in **Molakalmur taluk**, dry conditions prevail continuously for 2.5 months and agricultural operations are severely affected. In other parts of the district, crops like groundnut, sunflower, maize, ragi and red gram are in good condition and now at germination/seedling stage.
- Due to receipt of sufficient amount of rainfall during last week and also with possibility of good amount of rainfall for the next five days, farmers in **Chitradurga** are advised to undertake sowing of groundnut (TMV 2) upto second week of August and sowing of horse gram, sunflower and ragi after second week of August. Also apply fertilizers and manures to orchard crops (pomegranate, sapota and mosambi) as there is sufficient moisture in the field.
- **Mysore** and **Tumkur** received 45-48 mm and **Mandya** and **Samraj Nagar** districts received 25-28 mm during last week and also possibility of good amount of rainfall for the next five days. There is a possibility of 80 mm in **Mysore** and 30 mm in **Tumkur** and 44-50 mm rainfall in **Mandya** and **Samraj Nagar** districts for the next five days.
- Farmers are advised to undertake sowing of ragi (Indaf 8, MR 1, 6 L 5, HR 911 and GPU 28) upto July end and GPU 28 and Indaf 5 varieties of ragi, sunflower (KBSH 41 and 44), maize (NAC 6004 and NAC 6002 varieties and Nityashri hybrid) and short duration pulses like green gram, black gram, cowpea and horse gram upto next month. With the receipt of water from KRS, undertake transplanting of Thella, Hamza, KRH 1, Mangala, Mukthi, Bilimukthi and Rasi upto July end and undertake planting of sugarcane (CO varieties – 419, 62175, 7804, 8371 and 86032)

Rainfall Distribution during last three weeks

Districts	Rainfall (% Departure) for last three weeks and season ending				Cumulative forecast rainfall (mm) for next 5 days (1 st to 5 th August) ***
	16/07/08	23/07/08	30/07/08	Season ending-	
Coastal Karnataka					Coastal Karnataka
Dakshin Kannada	-76	**	60	-20	Dakshin Kannada 78
Udupi	-89	**	37	-24	Udupi 88
Uttar Kannada	-83	**	31	-36	Uttar Kannada 77
North Interior Karnataka					North Interior Karnataka
Bagalkote	-69	**	-16	-49	Bagalkote 39
Belgaum	-74	**	32	-21	Belgaum 55
Bidar	-91	**	38	-27	Bidar 47
Bijapur	-92	**	-4	-67	Bijapur 64
Dharwad	-87	**	28	-34	Dharwad 68
Gadag	-87	**	-25	-31	Gadag 45
Gulbarga	-92	**	89	-39	Gulbarga 79
Haveri	-91	**	52	-27	Haveri 48
Koppal	-92	**	-16	-60	Koppal 30
Raichur	-87	**	9	-66	Raichur 39
South Interior Karnataka					South Interior Karnataka
Bangalore Rural	134	**	71	3	Bangalore Rural 14
Bangalore Urban	196	**	145	81	Bangalore Urban 18
Bellary	-53	**	-35	-57	Bellary 28
Chamarajnar	13	**	101	14	Chamarajnar 14
Chickmagalur	-73	**	149	-2	Chickmagalur 56
Chitradurga	-25	**	51	-8	Chitradurga 23
Davangere	-83	**	44	-32	Davangere 41
Hassan	-77	**	58	-48	Hassan 38
Kodagu	-74	**	191	-7	Kodagu 65
Kolar	205	**	103	37	Kolar 18
Mandya	169	**	110	81	Mandya 19
Mysore	-12	**	162	1	Mysore 37
Shimoga	-81	**	102	-20	Shimoga 66
Tumkur	169	**	145	65	Tumkur 12

***Final district level forecast after value addition is available in the Meteorological Centre, Bangalore.

Maharashtra

Weather Forecast

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

Advisories

- As most of the the districts of **Konkan, Madhya Maharashtra, Marathwada** and **Vidarbha** received rain during last week and rain is likely to occur at many places in Konkan, Madhya Maharashtra and Vidarbha and at a few places over Marathwada for next three days, postpone irrigation to the crops. Also make arrangement of draining out of excess water from the fields in Vidarbha and Konkan.
- **Konkan** has received sufficient rain during last few days as well as during the season and is also likely to receive good rain during next five days. Transplanting of rice has already been carried out in most of the areas. Farmers are advised to complete transplanting of rice in Konkan if not done till date. The varieties are Ratnagiri 1, Ratnagiri 24, Ratnagiri 711, Palghar 1, Karjat 1, Karjat 184, Ratna, Masuri etc. and hybrid varieties like Sahyadri 1,

Sahyadri 2, Sahyadri 3 etc. Farmers are also advised to complete sowing of ragi varieties like Dapoli 1 and Dapoli 2 etc.

- Districts of **East Vidarbha** received sufficient rain during last week and are also likely to receive rain during next five days. Conditions are favourable for transplanting operations of rice in most parts of **East Vidarbha (Gondia, Bhandara, Gadchiroli and Chandrapur districts)**. The varieties of rice are PKVHMT, PKV Khamang, Shindewahi 1, Shindewahi 5, Shindewahi 2001, Makarand, Sakoli 8, MTU 1001. Farmers are advised to sow the crops like soybean, cotton, tur etc. Select varieties from TAMS-38, JS-335 & PK-472 varieties for soybean, BT Ransi, PKV hybrid 7 etc. for cotton and Maruti, C 11 etc. for red gram.
- All the districts of **West Vidarbha** received good rain during last week and are also likely to receive rain during next 5 days. Even condition has improved in the districts like **Akola, Amravati and Buldana** which received limited rainfall during earlier weeks. Farmers are advised to sow kharif crops like red gram, bajra and sunflower etc. Select varieties from C 11, BDN 2, TAT 10, ICPL 87 etc. varieties for red gram, Shradha, Saburi etc. for bajra and Morden, PKVSF 9, TAS 82 etc. for sunflower.
- Sowing is also delayed in all the districts of **Marathwada** (worst affected subdivision in the country) due to continuous dry spell. Most of the districts of this region received rain during last week and are also likely to receive rain during next 5 days. Farmers of this region are advised to prepare land with rain during last week and expected rain during next five days and undertake sowing of short duration kharif crops (hybrid bajra, sunflower and inter crops like tur + soybean, bajra + tur, castor + tur and castor + sesame). Select varieties from GHD 558, Shradha, Saburi, AHB 1666 (Pratima), ICTT 8230 etc. for hybrid bajra, AIMS 92901, PPC 6 (Sampada) etc. for bajra, LS 11, Morden, KDSH 1 for sunflower, MAUS 47, MAUS 71 (Samridhi) for soybean, BDN 708, BSMR 736, BSMR 853 for red gram, DCS 1 (Jyoti), Aruna for castor and No. 85, Phule 1, Punjab 1 for sesame.
- Sowing is also delayed in **Madhya Maharashtra** except **Kolhapur** and **Satara** districts which received sufficient rain to carry out sowing / transplanting operation during earlier weeks and during the season.
- Utilising rain during earlier weeks and expected rain during next five days sowing may also be continued in **Nandurbar** and **Nashik** districts if not done till date. For sowing select the varieties like PA 402, American PH 348, Phule 492 or 388, JLH 168, JLA 794, Ganga, Parbhani Sona for kharif Cotton, BDN-1, BDN-2 and ICPL-87119 for tur, EC-68414, SS-56 & Bhanu for sunflower, DS-228, MACS-124, JS-335 for soybean, S-8, M-2 and BM-4 for green gram and T-9 and TPU-4 for black gram.
- Sowing is also delayed in remaining districts of **Madhya Maharashtra i.e. Ahmednagar, Dhule, Pune, Jalgaon, Sangli and Solapur** due to continuous deficient rain during earlier weeks. However, these districts except **Sangli** received rain during last week and may receive rain during next five days. Farmers of this region are advised to prepare land with realized rain during last week and expected rain during next five days and undertake sowing of short duration kharif crops (red gram, sunflower, soybean and castor and inter crops like sunflower + tur, tur + cluster bean etc.). Select varieties from ICPL 87 for red gram, Girija and Aruna for castor and KBSH 1, RSH 1, MSFH 8, MSFH 17, KBSH 44 etc. for hybrid sunflower and SS 56, Morden, EC 68414, Bhanu etc. for high yielding varieties of sunflower for Dhule and Ahmednagar districts and ICPL 87 for red gram, MSFH 17, SS 56, Morden, Bhanu for sunflower, JAUCH 1, GCH 7, DCH 519 etc. for castor and JS 335, MACS 450 etc. for soybean for Pune, Jalgaon and Solapur districts.
- **Sangli** continued to receive poor rain during last week. However, this district may receive rain during next five days. Farmers of this district are advised to prepare land with expected rain during next five days and wait for sufficient rain for sowing of short duration kharif crops.

Rainfall Distribution during last three weeks

Districts	Rainfall (% Departure) for last three weeks and season ending				Cumulative forecast rainfall (mm) for next 5 days (1 st to 5 th August) ***
	16/07/08	23/07/08	30/07/08	Season ending	
Konkan & Goa					Konkan & Goa
Goa	-37	-25	7	-18	Goa 63
Mumbai	-57	-93	245	28	Mumbai 0
Raigad	-69	-81	90	-6	Raigad 74
Ratnagiri	-70	-76	49	-21	Ratnagiri 86
Sindhudurg	-75	-39	44	-20	Sindhudurg 96
Thane	-34	-86	87	2	
Madhya Maharashtra					Madhya Maharashtra
Ahmednagar	-85	-80	96	-49	Ahmednagar 39
Dhule	-96	-100	136	-48	Dhule 17
Jalgaon	-67	-99	124	-40	Jalgaon 17
Kolhapur	-66	-88	53	-13	Kolhapur 83
Nandurbar	38	-99	-64	-25	Nandurbar 20
Nasik	48	-60	102	13	Nasik 32
Pune	-87	-99	-45	-56	Pune 61
Sangli	-95	-99	-30	-58	Sangli 51
Satara	-78	-85	-35	-48	Satara 82
Solapur	-95	-98	120	-55	Solapur 41
Marathwada					Marathwada
Aurangabad	-74	-91	12	-51	Aurangabad 20
Beed	-95	-60	-3	-59	Beed 26
Jalna	-100	-53	63	-39	Jalna 24
Latur	-67	-42	-20	-56	Latur 31
Nanded	-86	-34	-26	-48	Nanded 30
Usmanabad	-78	-76	40	-51	Usmanabad 30
Parbhani	-80	-64	105	-26	Parbhani 26
Vidarbha					Vidarbha
Akola	-89	-74	57	-44	Akola 32
Amraoti	-93	-47	115	-36	Amraoti 39
Bhandara	-63	-21	68	-19	Bhandara 66
Buldhana	-84	-32	114	-11	Buldhana 26
Chandrapur	-82	-30	73	-20	Chandrapur 80
Gadchiroli	-80	-49	60	8	Gadchiroli 83
Gondia	-57	-41	70	-5	Gondia 71
Nagpur	-78	-33	190	2	Nagpur 54
Wardha	-91	36	200	-7	Wardha 48
Washim	-85	-17	21	-32	Washim 29
Yeotmal	-84	-8	4	-49	Yeotmal 39
					Hingole 27

***Final district level forecast after value addition is available in the Regional Meteorological Centre, Mumbai.

Gujarat

Weather Forecast

- Isolated rain/thundershowers are likely over the State.

Advisories

- As the districts of South Gujarat region like **Broach, Narmada, Surat, Navsari**, The **Dangs** and **Valsad** received rain during last week and are likely to receive light to moderate rain during next five days, farmers are advised to complete preparation of land and transplanting of rice and sowing of other kharif crops in the districts of this region if not done till date.

- In Gujarat region, the districts like **Anand, Vadodara, Kheda, Panchmahal** and **Dahod** received rain during last week and are likely to receive little rain during next 5 days. The farmers of **Anand** and **Kheda** are advised to complete transplanting of rice varieties like **Gurjari** during this week. The farmers of all these districts are advised to complete sowing of cotton (varieties GCOT 4, GCOT 6), soybean (variety JS 335), green gram (variety GM 4) and Cluster bean within this week. The crops like castor (varieties GCH 4, GCH 5) and cluster bean may be sown upto middle of August in these districts.
- In Gujarat region, **Ahmedabad** also received rain during last week. The farmers of this district are advised to complete transplanting of rice varieties like Gurjari and GR 11 during this week. The farmers may also sow cotton (varieties COT Hybrid 10, COT Hybrid 12) and castor (varieties GCH 4, GCH 5) upto middle of August.
- In north Gujarat region, **Banaskantha** and **Patan** received deficient rain during last week and also deficient or scanty rain during the season. However, **Gandhinagar** and **Sabarkantha** received good rain during last week. As large area of **Gandhinagar** and **Sabarkantha** and considerable area of **Patan** and **Banaskantha** are under irrigation, sowing of cotton in **Patan** and **Sabarkantha** and groundnut in **Banaskantha** and **Sabarkantha** have already been done with assured irrigation. Farmers are advised to sow sesame, cluster bean, fodder maize and castor in the areas of **Gandhinagar** and **Sabarkantha** where sowing could not be done till date. The farmers who could not sow crops in **Banaskantha** and **Patan** are advised to prepare land with limited rain and wait for sufficient monsoon rain for sowing of kharif crops. Select varieties from Gujarat Til 1, Gujarat Til 2 for sesame, Gujarat Cluster bean 2 for cluster bean and African Tall for maize.
- In the districts of **Saurashtra** and **Kutch**, cotton and groundnut have already been sown during earlier part of the season utilizing rainfall occurred during earlier period and the crops are also in good condition. The farmers who could not sow the crops till date are advised to prepare land and undertake sowing of green gram (GG4, GG 2 and K 851) and black gram (T 9 and GB 1) during this week and castor (varieties GCH 4, GCH 6, GCH 7 etc.) and red gram (BDN 2, GT 1 etc.) upto middle of August utilizing realized rain during last week.

Rainfall Distribution during last three weeks

Districts	Rainfall (% Departure) for last three weeks and season ending				Cumulative forecast rainfall (mm) for next 5 days (1 st to 5 th August) ***
	16/07/08	23/07/08	30/07/08	Season ending	
Gujarat region					
Ahmedabad	-28	-97	9	-25	Gujarat region
Anand	-59	-92	-30	-54	Ahmedabad 16
Banaskantha	-31	-97	-68	-66	Anand 24
Baroda	31	-92	-7	-38	Banaskantha 18
Broach	75	-86	-49	-31	Baroda 22
Dahod	93	-99	-41	-47	Broach 25
Dangs,	14	-86	-58	-41	Dahod 21
DNH & Daman	-1	-88	66	-27	Dangs, 34
Gandhinagar	-6	-100	-8	-43	DNH & Daman 0
Kheda	-20	-99	34	-43	Gandhinagar 19
Mehsana	26	-99	-23	-41	Kheda 22
Narmada	110	-75	-59	-18	Mehsana 21
Navsari	-2	-89	6	-11	Narmada 25
Panchmahal	16	-97	-2	-45	Navsari 34
Patan	-31	-100	-31	-59	Panchmahal 22
Sabarkantha	-3	-97	35	-30	Patan 12
Surat	25	-84	-19	-8	Sabarkantha 26
Valsad	-1	-80	52	-13	Surat 28
					Valsad 42
Saurashtra, Kutch & Diu region					
Amreli	-86	-89	184	6	Saurashtra, Kutch & Diu region
Bhavnagar	4	-92	-23	-14	Amreli 23
Diu	-83	-90	265	12	Bhavnagar 21
Jamnagar	-96	-99	121	4	Diu 0
Junagarh	-91	-89	278	31	Jamnagar 17
Kutch	-95	-98	-47	-54	Junagarh 31
Porbandara	-99	-99	332	-17	Kutch 7

Rajkot	-96	-98	66	-24	Porbandara	28
Surendranagar	-97	-98	-31	-61	Rajkot	13
					Surendranagar	11

***Final district level forecast after value addition is available in the Meteorological Centre, Ahmedabad.

Agromet Advisory for Normal Areas

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

Punjab

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

Advisories

- Farmers are advised to undertake sowing of short duration hybrid maize 3459, PMH2 & Parkaash in the remaining areas of undulating plain and sub-montane undulating plain zone comprising of Gurdaspur, Hoshiarpur, Ropar, Ludhiana and Patiala districts as good amount of rainfall is expected during next five days and the second fortnight of July is the optimum time sowing maize in these zones. In the remaining districts sowing of other *kharif* crops including maize have already been completed.
- As good amount of rainfall is likely at many places over all the districts of State during next five days, farmers are advised to postpone irrigation to the standing crops like sugarcane, vegetables and early sown cotton, groundnut and maize. Also provide adequate drainage facilities in maize and cotton to avoid waterlogging as these crops are more susceptible to waterlogging.
- Farmers are advised to undertake weeding, intercultural operations and application of fertilisers in already sown crops after current spells of rain as more rainfall is likely with heavy to very heavy rainfall.

Haryana

Weather Forecast

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

Advisories

- Attack of mealy bug in cotton is reported. As per the preliminary report there has been severe attack in Sirsa and Fatehabad Districts and worst affected as more than half of the area under cotton sowing falls in these Districts and the farmers are advised to take precautionary measures such as regular monitoring of the mealy bug infestation on cotton crop and also on weed. Uproot the weeds and destroy them properly.
- Farmers are advised to complete transplanting of rice in western and eastern zone by taking advantage of expected rainfall.
- Farmers in western zone are advised to continue sowing of bajra, guar and pulses in rainfed areas with certified seeds of bajra (HHB 60, HHB 67, HHB 67 improved, HHB 117, HHB 146, HC 10 & HC 20); guar (HG 75, HG 365 & HG 563); groundnut (MH 2, MH 4, M 45, M13), maize(HM1, HM2, HM4, HM5 & QPM1) and moong (Asha & Muskan) as good amount of rainfall is expected during next five days.
- As good amount of rainfall is likely at many places over all the districts of State during next five days, farmers are advised to postpone irrigation to the standing crops like sugarcane, vegetables and sugarcane, early sown cotton, maize, guar and bajra crops. Also provide adequate drainage facilities in maize and cotton to avoid waterlogging as these crops are more susceptible to waterlogging.
- Farmers are advised to undertake weeding, intercultural operations and application of fertilisers in already sown crops after current spells of rain as more rainfall is likely with heavy to very heavy rainfall.

Rajasthan

Weather Forecast

- Rain/thundershowers are likely at many places over Rajasthan during next 48 hours and decrease thereafter.

Advisories

- Undertake intercultural operations in already sown *kharif* crops in and around Karauli and Dholpur.
- Weather conditions are favourable for mild incidences of white grub in groundnut. Monitor the crop for the pest. To control the pest, spray Endosulfan @ 2.5 litres/ha on a non rainy day in Dausa and Jaipur.
- Undertake intercultural operations and application of fertilizers in already sown bajra (fodder), cowpea and red gram in Barmer, Churu, Jalore, Jodhpur and Pali districts and in bajra, sorghum (grain and fodder), til and cluster beans in Sawai Madhepur, Karauli, Dholpur and Bharathpur districts.
- Undertake thinning in groundnut, red gram and cotton to maintain optimum population in Sawai Madhopur, Karauli, Dholpur and Bharathpur districts.
- Due to cloudy conditions, leaf spot disease may occur in groundnut in Dausa and Jaipur districts. Monitor the crop for the disease and spray Mancozeb @ 2 g/litre of water. Also monitor cluster beans for bacterial blight and spray Agromycin @ 0.3 g/litre of water.
- Vaccinate the cattle to save from infections/diseases like Black Quarter and FMD etc in Alwar, Sawai Madhopur, Karauli, Dholpur and Bharathpur districts

Uttar Pradesh

Weather Forecast

- Rain/thundershowers are likely at many places over the West U.P. Rain/thundershowers are likely at a few places over the East U.P.

Advisories

- Undertake intercultural operations in already sown *kharif* crops in and around Karauli and Dholpur.
- Weather conditions are favourable for mild incidences of bacterial blight in green gram and cowpea. Monitor the crop for the pest. To control the disease, spray Copper oxy chloride @ 2g/ litre of water in Dausa and Jaipur.
- Undertake intercultural operations and application of fertilizers in already sown bajra (fodder), cowpea and red gram in Barmer, Churu, Jalore, Jodhpur and Pali districts and in bajra, sorghum (grain and fodder), til and cluster beans in Sawai Madhepur, Karauli, Dholpur and Bharathpur districts.
- Undertake thinning in groundnut, red gram and cotton to maintain optimum population in Sawai Madhopur, Karauli, Dholpur and Bharathpur districts.
- Weather conditions are favourable for mild incidences of stem borer in sorghum in Tonk district. Monitor the crop for the pest and spray Endosulfan @ 4 g/litre of water.
- Vaccinate the cattle to save from infections/ diseases like Black Quarter and FMD etc in Alwar, Sawai Madhopur, Karauli, Dholpur and Bharathpur districts

Himachal Pradesh

Weather Forecast

- 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 along with isolated heavy to very heavy rainfall for next 48 hours, postpone irrigation and intercultural operation to the crops. Also arrange for draining out of excess water from the field.

- As maize crop is very much susceptible to water logging, ensure proper drainage in already sown maize field.
- Prepare land and complete sowing / transplanting of rice.
- Complete preparation of land and sowing of maize by ploughing and mixing biological manures properly.
- It is optimum time for transplanting of summer annuals viz. Gladiolus, glardia, gomphrina, rudevekia, celosia, balsam cleome, kochia and zenia. Transplanting may be done in the evening.
- It is optimum time for plantation of evergreen plants like Mango, litchi, guava, citrus, loquat and amla in Sub-mountain & Low hills Sub tropical zone. Plant the saplings in 3x3x3 cubic feet pit. Add 40-50 kg FYM + 300g SSP + chlorpyriphos @ 10ml / 10 litres of water per pit before planting.
- There is chance of attack of red beetle and fruit fly in cucurbits in Sub-mountain & Low hills Sub tropical zone as weather is conducive. If infestation crosses economic threshold level, spray malathion 1 ml / litre +50 gram gur or sugar to control these insects.
- The weather is congenial for spread of fruit rot in tomato, chilli and shimla mirch. For control, apply Dithane M-45 @ 2-3 g per litre of water in 10-15 days interval.
- Undertake sowing and application of plant protection measures after current spells of rain.

Uttarakhand

Weather Forecast

- Rain/thundershowers are likely at many places over the state.

Advisories

- Farmers are advised to continue sowing of groundnut, maize, amaranthus, finger millet, soybean and vegetables in the remaining areas of Tehri, Haridwar, Dehradun, Nainital and Pauri Districts as sufficient rainfall for sowing was received in these districts.
- Farmers are advised to complete sowing of moong varieties like Pant Moong-2, Pant Moong-4, Narendra Moong-1 and soybean in remaining areas of Uttam Singh Nagar district by utilizing the realized rainfall.
- As rain/thundershowers are likely at many places over the State for the next three days along with isolated heavy to very heavy rainfall in next 48 hours, postpone irrigation to sugarcane, vegetable crops and orchard trees.
- Undertake intercultural operations in early transplanted rice, orchards and sugarcane after current spells of rain to keep the field weed free.

Jammu & Kashmir

Weather Forecast

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

Advisories

- As rain/thundershowers is likely at a few places over Jammu & Kashmir during next three days, apply irrigation to the standing crops.
- Undertake intercultural operations, application of fertilizers and pesticides to the standing crops on a non rainy day
- Undertake sowing of cabbage and cauliflower and planting of fruit crops in Jammu division.
- Monitor pulses for mosaic and bhindi for yellow vein mosaic disease in Jammu division. Collect and destroy the affected plants to prevent further damage.

Delhi

Weather Forecast

- Rain/thundershowers are likely at many places over the state.

Advisories

- As rain / thundershowers are likely at many places over the state, postpone irrigation and intercultural operation to the standing crops.
- Prepare land and sow bajra. Select varieties from high yielding varieties Pusa Safed, ICMB 221, Pusa 226 and hybrid varieties IHRBH 8294, GHB 183, Pusa 23 etc. for sowing of bajra. Adopt seed rate of 4 – 5 kg / ha. Maintain line to line distance of 45 cm at the time of sowing.
- Farmers are advised to complete sowing of green gram and black gram. Sowing of fodder crops like sorghum, bajra, maize and lobia may also be undertaken.
- The farmers are advised to prepare nursery of medium maturing cauliflower as the weather is conducive for the same.
- The farmers are advised to sow early maturing raddish varieties like Pusa Desi on the ridge.
- There is chance of attack of fruit and shoot borer in brinjal due to favourable weather condition. Farmers are advised to collect the infested shoots from 15 days old plants and destroy them. Apply rogor or endosulphon @ 2 ml / litre of water to control the insect.
- There is chance of attack of fruit fly in vegetables due to favourable weather condition. Farmers are advised to collect the infested fruits and destroy them. Apply malathion @ 2 ml / litre of water to control fruit fly.
- Undertake application of plant protection measures after current spells of rain.

Under the prevailing weather conditions there are chances of small-scale breeding along the **Indo-Pakistan** border.
As part of the early warning system, regular surveys are recommended.

Southern Region (Tamilnadu)

Tamilnadu

Weather Forecast

- Isolated rain/thundershowers are likely over the state.

Advisories

- Apply irrigation to groundnut, sugarcane and pulse crops as there was no significant rainfall during last week except in Coimbatore, Dindigul, Sivagangai, Trichy and Theni and rain/thundershowers likely at isolated places over the State. Postpone irrigation in the above districts as there was excess rainfall during last week.
- Completee transplanting of *kuruvai* rice in the main field in Thanjavur, Trichy, Karur, Nagappattinam and Perambalur districts.
- Undertake land preparation and sowing of bhindi in Northwestern zone (in and around Namakkal). Monitor turmeric for leaf spot and spray Mancozeb @ 2.5 g/litre of water to control the disease.
- Undertake Sowing of bhindi, tomato and cowpea in Chennai, Cuddalore, Kanchipuram, Thiruvavarur, Thiruvannamalai, Vellore and Villupuram districts.
- Monitor sorghum for stem borer in Thirunelveli, Tuticorin and Virudhunagar districts. Spray Carbaryl 4% granules to control the pests.
- Undertake land preparation and sowing of bhindi in and around Dindigul.

Eastern Region (Assam, Arunachal Pradesh, Bihar, Jharkhand, Sikkim, West Bengal)

Assam

Weather Forecast

- 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 irrigation and intercultural operation to the crops.
- Maintain 3 – 5 cm of water in regular *ahu* rice field.
- Provide mechanical support to the sugarcane crops to prevent lodging.
- There is more chance of attack of fruit fly, fruit borer and powdery mildew in vegetables as the weather condition is favourable. For control of fruit fly and fruit borer in summer vegetables, Malathion 50 EC @ 2.5 ml per litre of water should be applied. Also for control of disease such as powdery mildew apply bavistan @ 2.5 ml / litre of water or Diathine Z-78 or Captaf @ 2 g / litre of water.
- Undertake application of pesticides after current spells of rain.
- Prepare land and undertake transplanting of *Sali* rice. Recommended paddy varieties are Ranjit, Mahsuri, Bahadur, Kushal etc. Before uprooting the seedlings from the nursery, apply Carbofuran @ 3.0 g/m² area in the seedbed to protect the seedlings from stem borer, gall midge, leaf folder etc in the main field.
- Prepare land and sow cauliflower, tomato, cucumber, capsicum etc. as early season crop after current spells of rain. The early varieties of cauliflower like Pusa Keteki, Pusa Deepali, Early Kuwary, Early Chinese Prince, Jowahar Moti etc. can be sown within 15th July to 15th August.
- Prepare the well-drained sandy loam soils for sowing of sesamum. Select recommended varieties of sesamum for this zone like Madhabi, Gauri, Binayak, Punjab Til No-1 etc.

Arunachal Pradesh

Weather Forecast

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

Advisories

- As the State received sufficient rainfall during last week in most of the districts and also good amount of rain / thundershowers are likely at a few places during next three days over the State, postpone irrigation to the standing millet and maize crops.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, wet seeded rice, *jhum* rice and millets on a non rainy day.

Bihar

Weather Forecast

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

Advisories

- Farmers are advised to continue sowing of *kharif* vegetables like brinjal, onion and chilies in nursery bed in view of abating of wet spells and favourable weather conditions for sowing.
- As sufficient rainfall occurred in last two weeks and light to moderate rain/thundershowers are likely at a few places over the State, postpone irrigation to early sown maize, sugarcane and vegetables. Apply irrigation in Gaya and Supaul districts as there was insufficient rainfall during last week and no significant rainfall is expected in next five days.

- There is mild chance of attack of red spider mite in vegetables. If attack crosses economic threshold level, for controlling the red spider mite spray the crop with sulfex @ 3kg/ha or share @ 3 kg/ha in 700 litre of water on a non rainy day.
- There is mild chance of attack of mealy bug and anthracnose in fruits. If attack crosses economic threshold level, spray the crop with Endosulfan @ 1.5 ml + Chlorthalonil @ 2g + Planofix @ 1 ml per litre of water on a non rainy day.
- Monitor the sugarcane crop for shoot borer incidence. If attack crosses economic threshold level, apply pesticides on a non rainy day.
- Undertake intercultural operations, spraying, application of fertilisers on a non rainy day.

Jharkhand

Weather Forecast

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

Advisories

- Farmers are advised to continue preparation of main field and undertake transplanting of *kharif* rice in low lands of all the districts as there was sufficient rainfall during last week in almost all the districts and good amount of rainfall is expected in next five days.
- Continue land preparation and sowing of *kharif* maize and arhar in all the districts by utilizing the realized rainfall during last week.
- Transplanting of tomato may be continued with upland varieties like Pusa rubi, Pusa early, selection-12 etc. in Dumka and adjoining districts by taking advantage of the realized rainfall during last week and expected rainfall during the next five days.
- As there was sufficient rainfall in all the districts of the State during last few weeks and light to moderate amount of rainfall are likely at a few places over the State during next 3 days, farmers are advised, not apply irrigation to early sown maize, arhar, urd and vegetables.
- Undertake intercultural operations, spraying and application of fertilisers in early sown maize, arhar, urd and vegetables on a non rainy day.

Sikkim

Weather Forecast

- Rain/thundershowers are likely at a few places over state.

Advisories

- As rain/thundershower are likely at a few places over the State for next three days, apply irrigation to orange, large cardamom, ginger and vegetable crops.
- Monitor orange for trunk borer and undertake plant protection measures on a non rainy day to control the pest. Also undertake deshooting and debugging.
- Gap filling / replanting may be continued in newly planted large cardamom in mid and low hills up to August. Planting materials may be selected from high yielding sucker nurseries free from pest / disease infestation or diseases free high yielding elite garden. Chirke and foorkey infected plants may be destroyed by uprooting / burial at regular intervals in the pits. Regular inspections may be carried out to observe caterpillar/ shoot borer/shoot fly incidence if any and may be hand picked and destroyed mechanically. 1% Bordeaux mixture or copper oxychloried @ 3gm/ltr of water may be sprayed to the cardamom plants on a non rainy day to protect from fungal diseases.
- Complete transplanting of rice in Medium and High hills by utilizing the monsoon showers.
- Undertake earthing up and application of compost in seed potato in high hills on a non rainy day.

- Monitor ginger for bacterial wilt in Medium and High hills and collect and destroy the affected plants completely to prevent further spread of the disease.

West Bengal

Weather Forecast

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

Advisories

- As most of the districts of West Bengal received sufficient rain during earlier weeks and rain is also likely to occur at a few places for next three days, postpone irrigation to the crops.
- Maintain 3 – 5 cm water in the aus rice field.
- In late sown direct seeded aus rice, apply last dose of top dressing (@ 3 to 4 kg Urea per Bigha).
- Fruit and vine rot is reported in pointed gourd in New Alluvial Zone. Due to cloudy weather and high humidity, there is more chance of attack of fruit rot due to fungus. Remove the infected fruits from the land. Spray blitox (4 gm per lt) or blue-copper oxide on a non-rainy day.
- Land preparation and sowing of broadcasted *aman* rice may be undertaken. Select H.Y.V like Tilak, Kachhary, Patnai-23, Raghusal etc. Recommended varieties for those lands where water logging cannot take more than 6-8” are Pankaj, C.N-540, C.R- 1009, C.R-1010, C.R-1011, Sarnodhan.
- Wherever rice nurseries are ready, undertake land preparation and transplanting of *aman* rice. Transplant 2 – 3 seedlings of 20 – 25 days in line at a distance of 20 cm from line to line and 15 cm from plant to plant.
- Complete sowing of pigeon pea and soybean after current spells of rain. Select varieties from B-7, UPS-A-120 etc. for pigeon pea and J.S.-2; Soyamax etc. for soybean.
- Prepare nurseries for early cauliflower. Treat the seeds before sowing. Cover the bed with polythene and ensure proper drainage. Select improved varieties of cauliflower like Kanwari, Jowhar, Moti, Early Patna etc.
- Undertake cultivation of tomato. Select improved varieties of tomato like Pusa Rubi, Pusa Early, S-2, Roma Super etc.

Central Region (Chhattisgarh, Maharashtra, MP & Orissa)

Chhattisgarh

Weather Forecast

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

Advisories

- As rain / thundershower is likely to occur at many places over the State for next three days, postpone irrigation to the standing crops. As isolated heavy to very heavy rainfall is likely over South Chhattisgarh, arrange for draining out excess water from the fields in this region.
- Provide mechanical support to sugarcane to avoid lodging.
- Farmers are advised to plough and prepare the fields weed free and complete sowing / transplanting of rice if not done till date. Undertake transplanting of 20 – 25 days old seedlings of rice. The spacing between plant and row should be 20 x 15 cm. For medium duration varieties two plants per hill and for hybrids one plant per hill should be transplanted.
- Due to uneven distribution of the rainfall in Chhattisgarh Plains agroclimatic zone, districts like Rajnandgaon, Kawardha, Durg, Kanker and Raipur are still suffering from deficit rainfall conditions. In these districts rice crop is suffering from weed infestation. Wherever rice crop is of 25-30 days old weed control measures should be adopted and for the effective

control of narrow leaved weeds spray Whip Super @ 625 g / ha and for broad leaved weeds spray Allmix @ 20 g / ha in 500 litres of water. If the crop is suffering from both the weeds, mixture of above weedicides can also be used. Apply the chemicals after current spells of rain.

- Farmers are advised for sowing of pigeon pea, green gram, *urad* and sesame in the areas where crops could not be sown till date due to deficient rain.
- Prepare nursery for chilli, tomato and brinjal and also early varieties of cabbage and cauliflower.
- Undertake sowing of okra as soon as possible. To save the crop from Yellow vein mosaic resistant varieties such as Pusa Vaibhav, Akra Anamika and Pusa Savani should be chosen. Also undertake sowing of cowpea and beans.

Madhya Pradesh

Weather Forecast

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

Advisories

- Postpone irrigation in south Madhya Pradesh as rain/thundershowers are likely to occur at many places for the next three days. As there was no significant rainfall during last week and rain/thundershowers are at a few places over north Madhya Pradesh for the next three days, apply irrigation to sugarcane.
- Undertake intercultural operations, application of fertilizers and pesticides after spells of rain in south Madhya Pradesh and on a non rainy day in north Madhya Pradesh.
- Undertake land preparation and nursery sowing of cauliflower and transplanting of tomato, chillies and brinjal, cucurbits and planting of fruit crops in and around Jabalpur.
- Farmers in Ujjain, Ratlam, Shajapur, Rajgarh, Neemuch, Mandsaur, Indore and Dewas are advised to complete land preparation and sowing of maize, soyabean, jowar, fodder and transplanting of vegetables like brinjal, tomato, cauliflower, chillies and onion and sowing of bottle gourd and bitter gourd in the main field by utilizing the monsoon showers. In early sown crops, undertake intercultural operations after spells of rain in south Madhya Pradesh and on a non rainy day in north Madhya Pradesh.
- Monitor cucurbitaceous crops for red pumpkin beetle and spray Methyl Parathion @ 2 ml/litre of water to control the pest. Spray the chemical after spells of rain in south Madhya Pradesh and on a non rainy day in north Madhya Pradesh.
- Due to rainy conditions, vaccinate the cattle to save from infections/diseases like Anthrax, Galgotu, Black Quarter and FMD etc. As high humidity prevails, keep the sheds aerated and dry in Ujjain, Ratlam, Shajapur, Rajgarh, Neemuch, Mandsaur, Indore, Jabalpur and Dewas.

Orissa

Weather Forecast

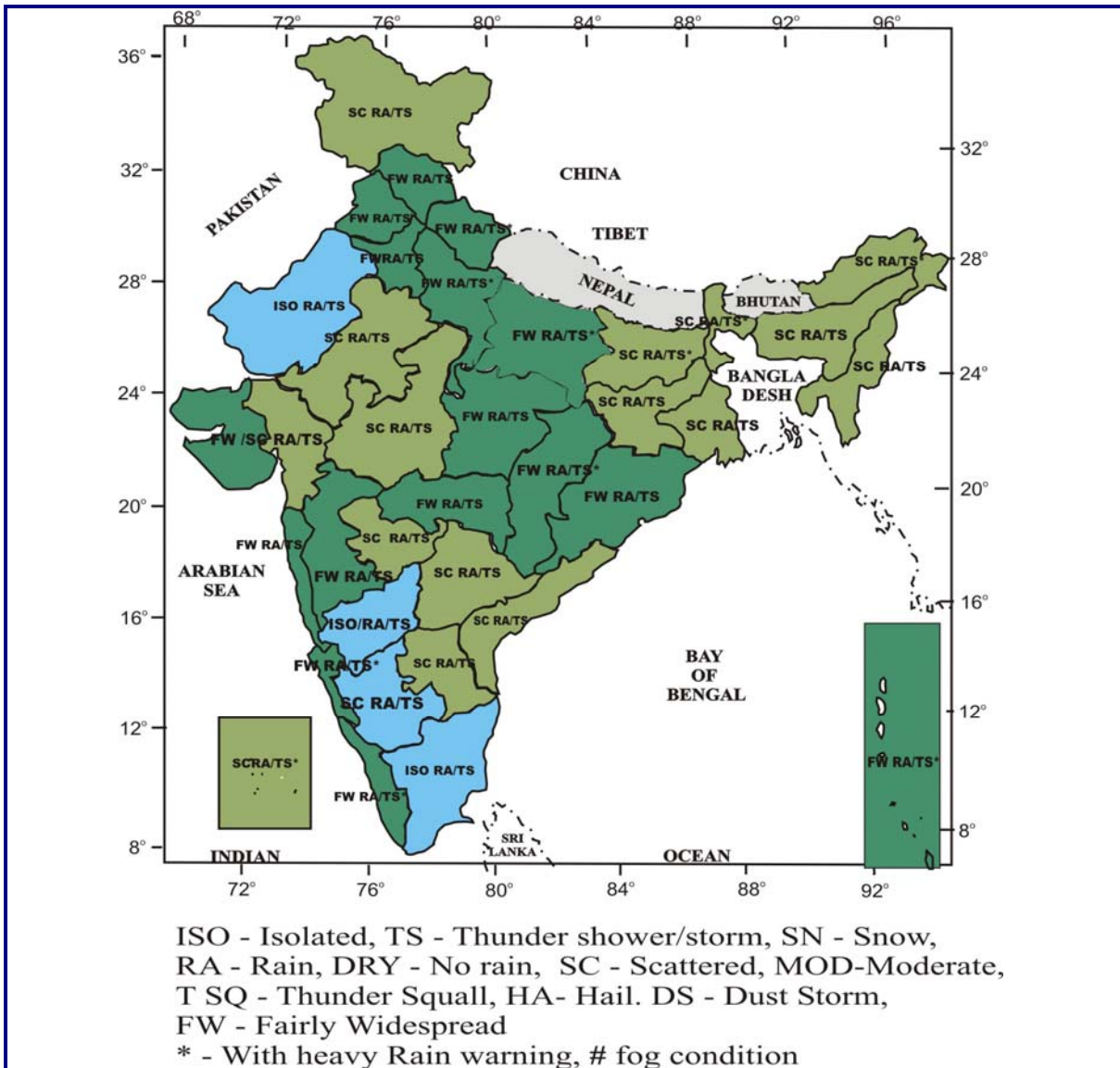
- Rain/thundershowers are likely at many places over Orissa.

Advisories

- Farmers are advised to undertake transplanting of rice and also complete sowing of groundnut, cotton, sesame, maize and greengram and blackgram in uplands of East and South-Eastern coastal plain zone utilizing the realized rainfall.
- Farmers are advised to undertake sowing of rice in the uplands of western Orissa, with extra early varieties like Kalinga-3 and Heera. If not available go for early duration varieties like Khandagiri, Pathara and Parijat as sufficient rainfall for sowing has occurred during last week.

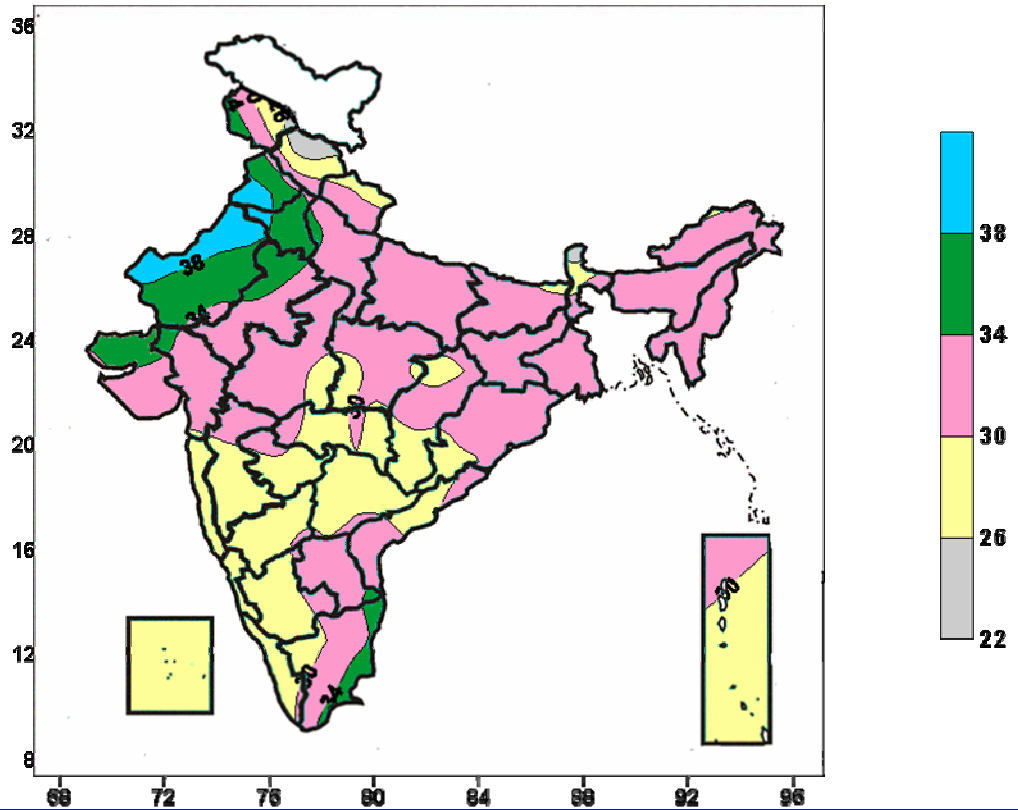
- Rice seedlings in nursery bed are affected by blight in Keonjhar and adjacent districts and if required, spray the crop with 1 g Plantomycin + 2 g Copper oxy Chloride per litre of water after current spells of rain.
- White ant attack in groundnut has been occurred in rainfall deficit areas of coastal region, farmers are advised to go for soil drenching with 2 ml. Chloropyriphos per litre of water thoroughly.

Forecast Valid upto 3^d August, 2008

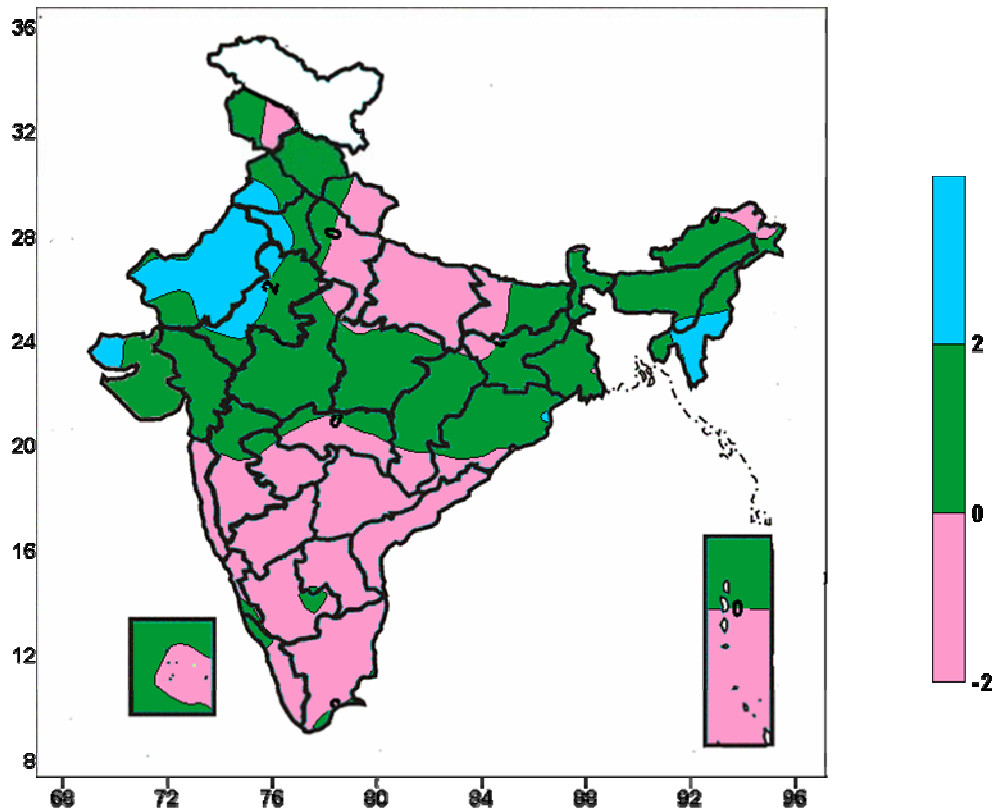


Contour maps for the week ending 30th July, 2008

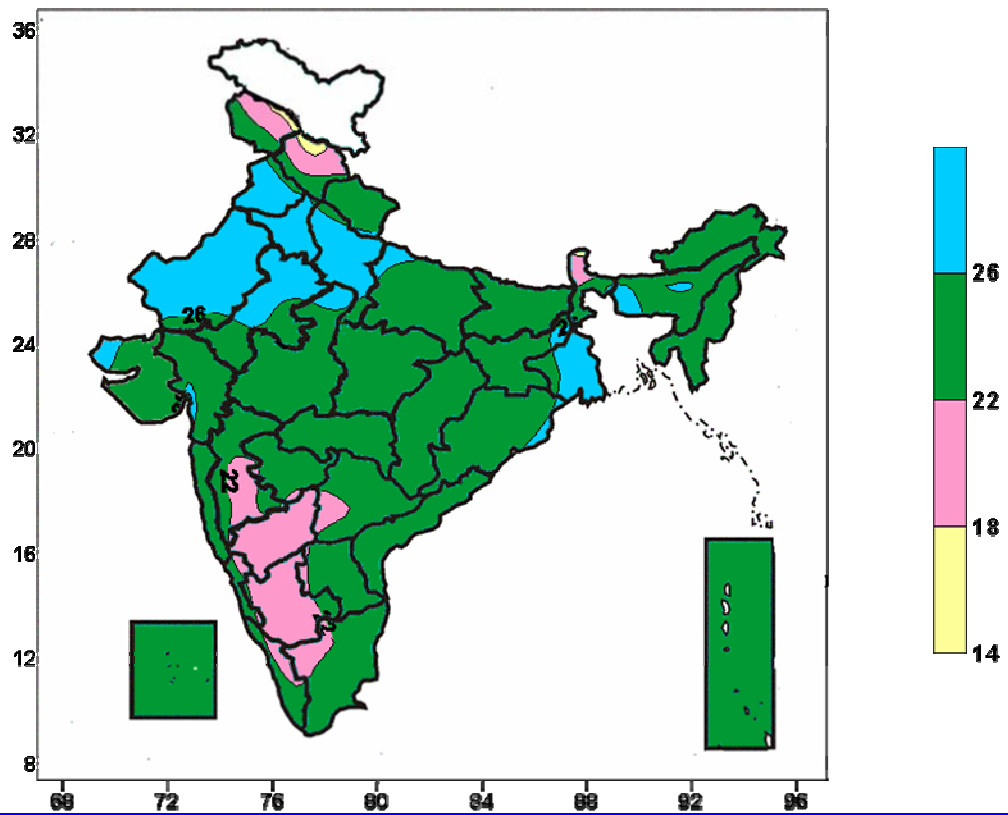
Actual Mean Maximum Temperature (°C) In India for the week ending 30.7.08



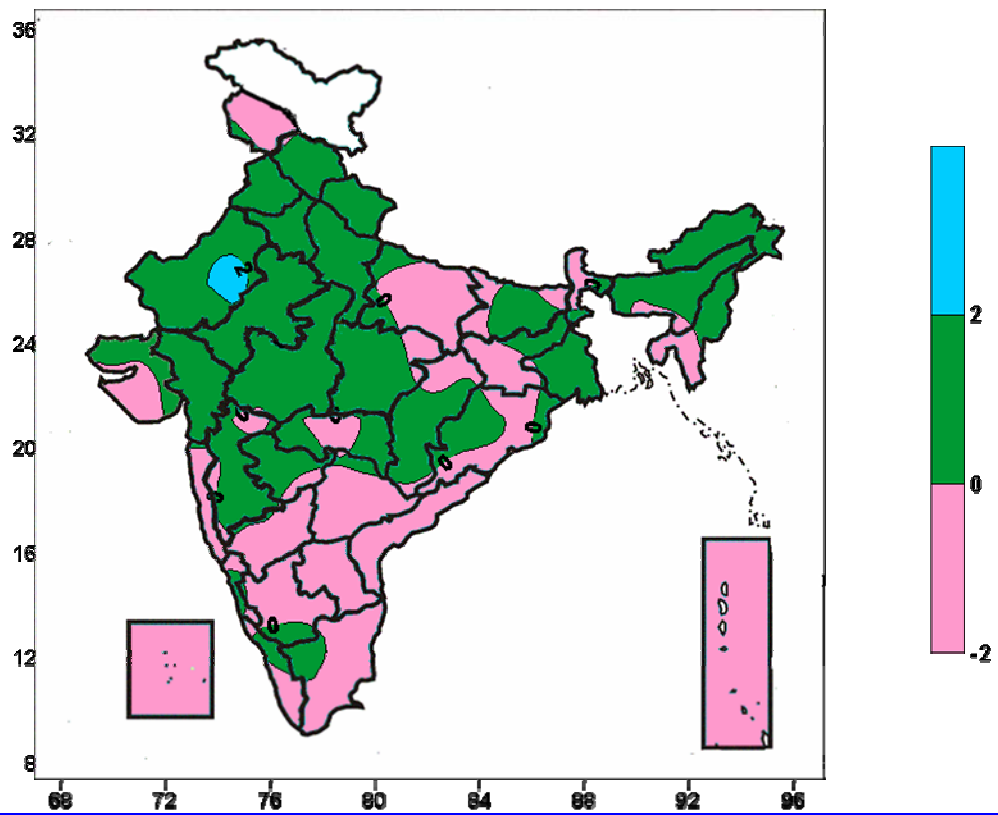
Maximum Temperature (°C) Anomaly In India for the week ending 30.7.08



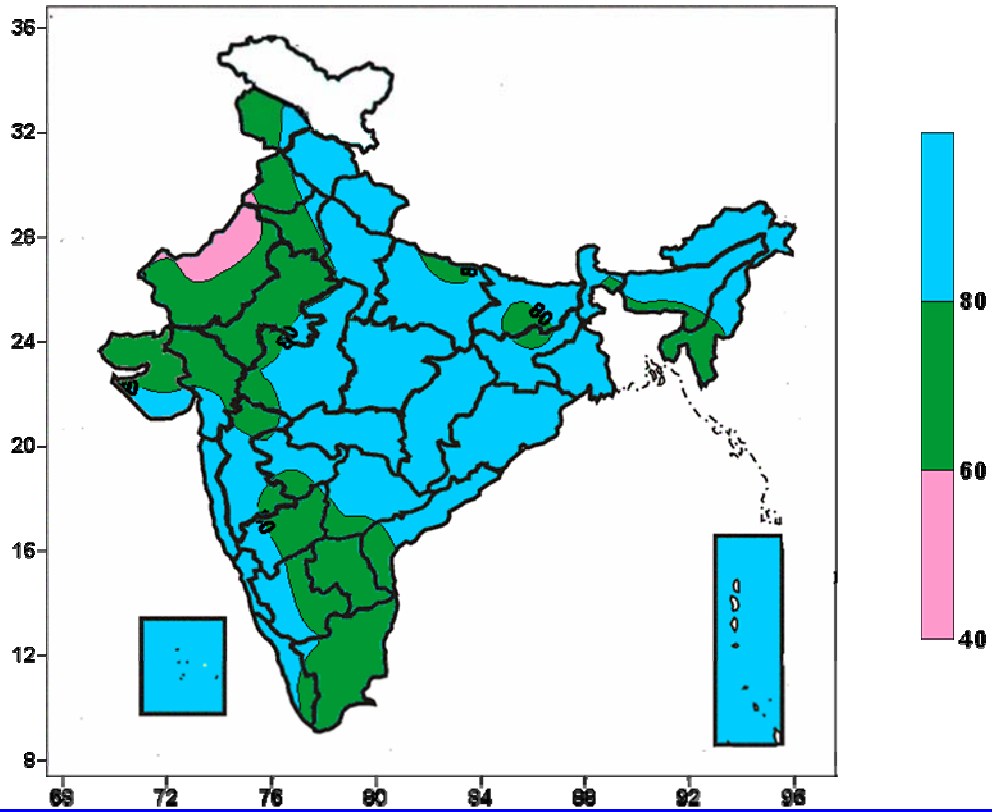
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 30.7.08



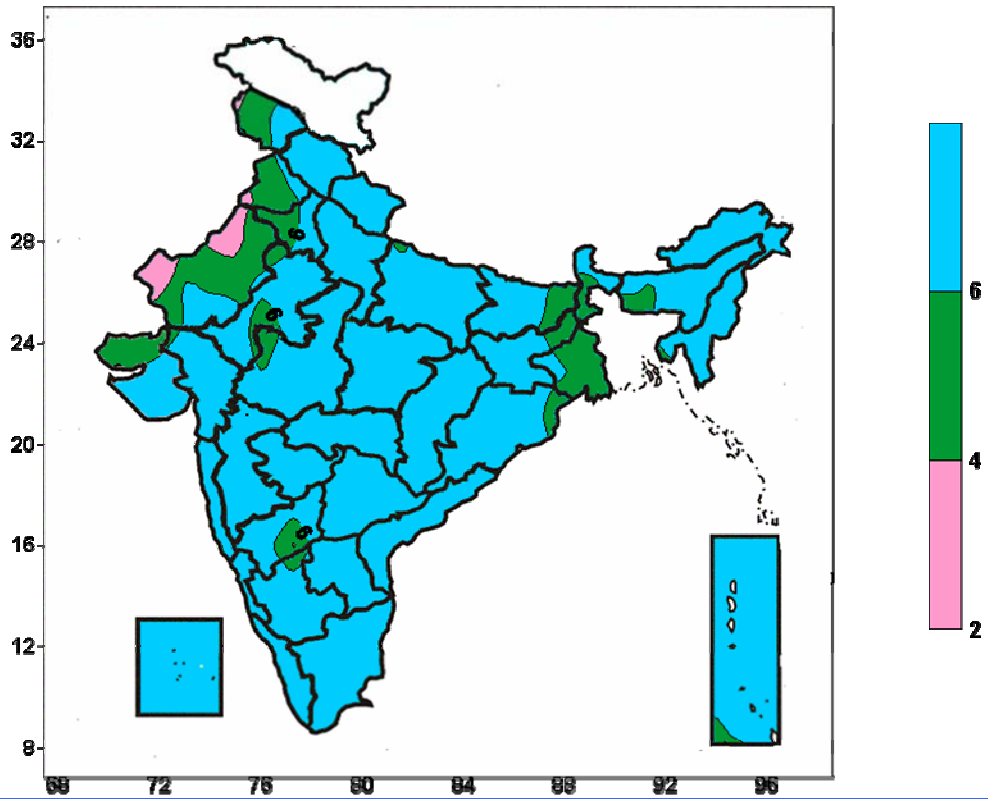
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 30.7.08



Relative Humidity (%) over India for the week ending 30.7.08



Cloud amount (okta) over India for the week ending 30.7.08



Wind speed (knots) over India for the week ending 30.7.08

