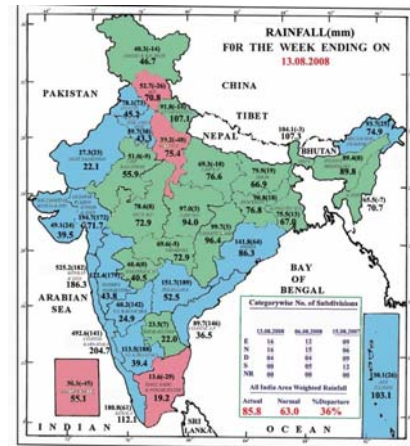
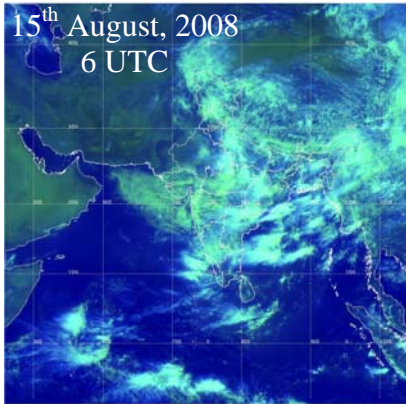




GOVERNMENT OF INDIA
INDIA METEOROLOGICAL DEPARTMENT



National Agromet Advisory Bulletin

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Thursday, 14th August, 2008

The bulletin is also displayed in the website (<http://imdagrmet.org>) of the Division

Issued by
National Agrometeorological Advisory Service Centre
Agricultural Meteorology Division, India Meteorological Department,
Shivajinagar, Pune

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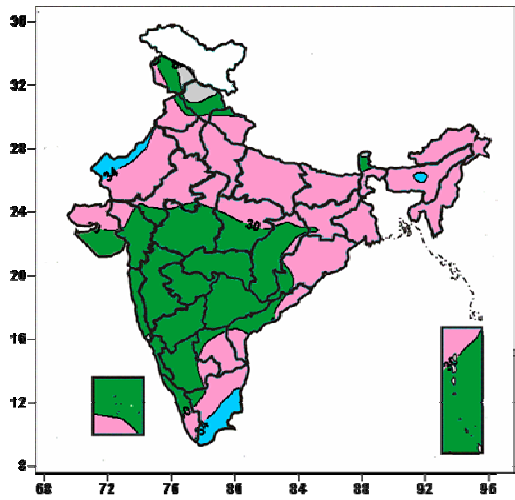
Comparison of weekly rainfall distribution (in % dep.) in different Met. Sub-divisions during past 5 weeks

Sub-division	Cumulative Rainfall (% Dep.) for the period					Sub-division	Cumulative Rainfall (% Dep.) for the period				
	16 th July	23 rd July	30 th July	6 th Aug.	12 th Aug.		16 th July	23 rd July	30 th July	6 th Aug.	12 th Aug.
A & N Islands	-23	-31	6	104	26	West M. P.	13	-96	-10	-7	8
Arunachal Pradesh	-2	11	-6	14	25	East M. P.	-41	-48	11	4	3
Assam and Meghalaya	-13	2	-28	-19	0	Gujarat region	10	-91	-32	56	172
NNMT	1	-15	-29	62	-7	Saurashtra and Kutch	-87	-96	-21	35	24
SH West Bengal & Sikkim	12	51	10	14	-3	Konkan and Goa	-57	-69	-11	8	182
Gangetic West Bengal	41	19	40	-62	13	Madhya Maharashtra	-62	-91	-38	-4	179
Orissa	-25	-46	20	-19	64	Marathwada	-83	-57	-48	-3	0
Jharkhand	7	-13	17	-73	18	Vidarbha	-81	-31	-17	60	-5
Bihar	36	68	35	-74	19	Chattisgarh	-53	-43	-7	-16	3
East Uttar Pradesh	18	35	57	-78	-10	Coastal A. P.	-27	24	-5	99	146
West Uttar Pradesh	-9	-29	56	-27	-48	Telangana	-81	-22	-20	125	189
Uttaranchal	0	0	28	-2	-14	Rayalseema	48	17	-13	-17	7
Haryana, Chandigarh and Delhi	-2	-50	26	37	38	TamilNadu & Pondicherry	-12	91	9	-37	-29
Punjab	5	-57	30	53	73	Coastal Karnataka	-83	-84	-29	-35	141
Himachal Pradesh	-49	-41	-6	-13	-26	N. I. Karnataka	-86	-66	-39	6	142
J & K	-35	-41	15	55	-14	S. I. Karnataka	-42	-42	-10	-14	188
West Rajasthan	59	-99	-6	314	23	Kerala	-52	-57	-33	-40	61
East Rajasthan	45	-86	12	43	-9	Lakshadweep	54	54	2	-78	-45

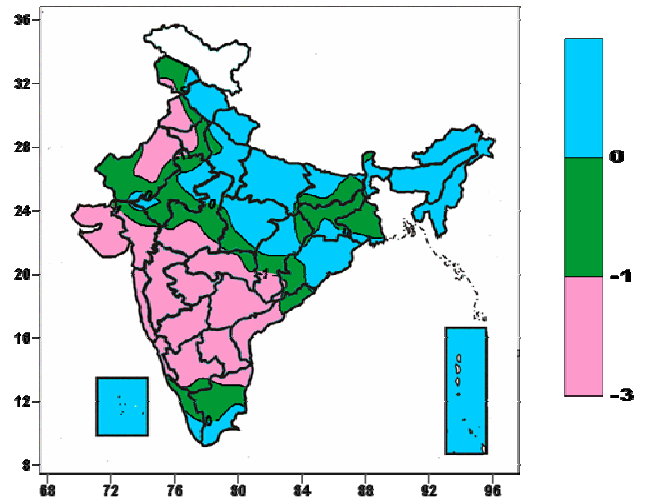
Even though the sub-divisions like Gangetic West Bengal, Jharkhand, Bihar and East Uttar Pradesh, Coastal Karnataka and Kerala received deficient/scanty rain during previous week, rainfall situation is normal due to receipt of excess/normal rain during last week. West Uttar Pradesh, Lakshadweep and Tamil Nadu and Pondicherry received deficient/scanty rain during last two weeks. However, rainfall situation was normal in other sub-divisions of the country.

Contour maps for the week ending 13.8.08

Actual Mean Maximum Temperature (°C) in India for the week ending 13.08.08



Maximum Temperature (°C) Anomaly in India for the week ending 13.08.08



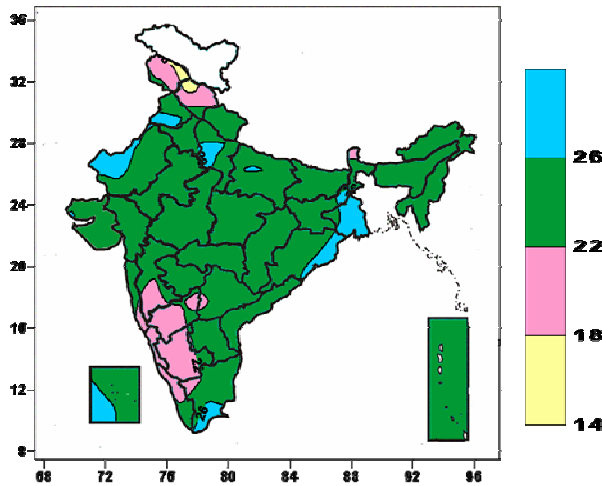
Actual Mean Maximum Temperature ranges between 34 to 38 °C over little part of West Rajasthan, Assam and some part Tamil Nadu, 30 to 34 °C over Punjab, Haryana, Uttarakhand, Uttar Pradesh, most part of Rajasthan Northern Gujarat East and North East India, little part of Coastal Andhra Pradesh, most part of Rayalaseema, Tamil Nadu and Kerala, 26 to 30°C over remaining part of the country except in some part of

Maximum Temperature anomaly ranges between 0 to 2°C over North eastern States, Himachal Pradesh, Uttarakhand, Most part of Uttar Pradesh, some part of Bihar, little part of Jharkhand, Sub Himalayan West Bengal Orissa, some part of Chattisgarh and Madhya Pradesh, Tamil Nadu, Kerala, Lakshadweep and Andaman Nicobar island, -1 to 0°C some parts of Jammu & Kashmir, Punjab, Haryana, little part of Uttar Pradesh Most part of Rajasthan, some part of

Himachal Pradesh and Uttarakhand where it is 22 to 26°C.

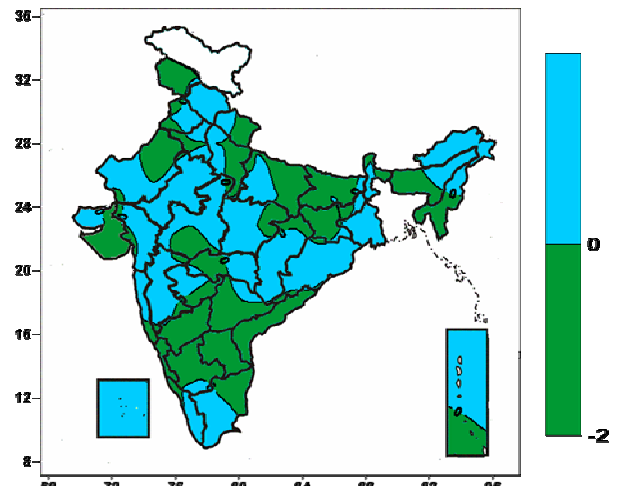
Madhya Pradesh, North Gujarat, some part of Vidarbha, Chattisgarh, coastal Andhra Pradesh, Tamil Nadu and Kerala and -3 to -1°C rest of the Country.

Actual Mean Minimum Temperature (°C) in India for the week ending 13.08.08



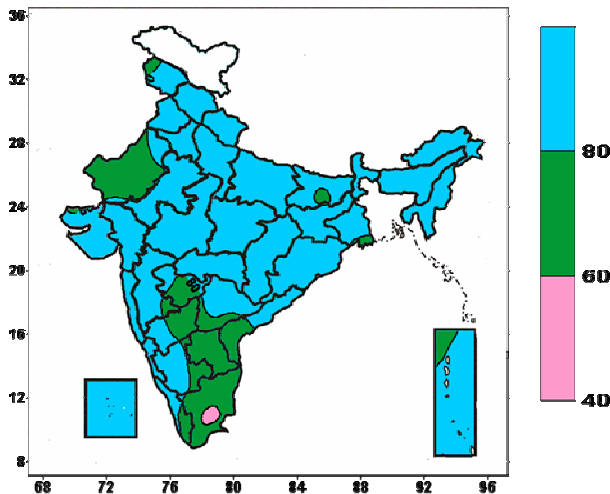
Actual Mean Minimum Temperature ranges between 26 to 30°C over some part of Punjab, little part of Uttar Pradesh, some part of West Rajasthan, Gangetic West Bengal, coastal Orissa, some part of Lakshadweep and some part of Tamil Nadu, 22 to 26°C in most part of the country except some parts of Konkan, Madhya Maharashtra, Karnataka and Jammu-Kashmir where it was 18 to 22°C and 14 to 18°C in very little part of Jammu & Kashmir.

Minimum Temperature (°C) Anomaly in India for the week ending 13.08.08



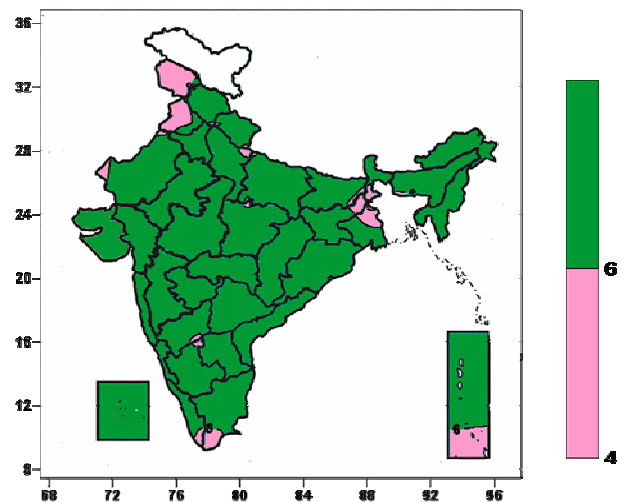
Temperature anomaly ranges between 0 to 2°C over Himachal Pradesh, Konkan and Goa, Madhya Pradesh, Gangetic West Bengal, Arunachal Pradesh, Chattisgarh and Lakshadweep, most part of Haryana, Punjab, Uttar Pradesh, Uttarakhand, Sub Himalayan West Bengal and Sikkim, Assam, Rajasthan, Gujarat, Marathwada, Madhya Pradesh, Orissa, Tamil Nadu, south interior Karnataka and Andaman Nicobar island rest of the country where it was -2 to 0.

Relative Humidity (%) over India for the week ending 13.08.08



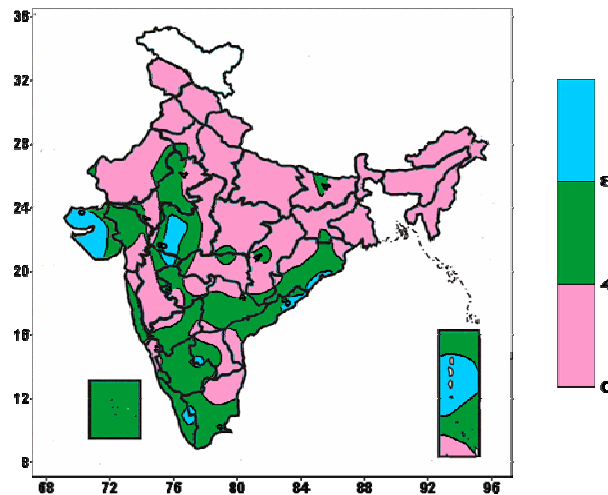
Relative Humidity was above 80 to 100% in the country except in some parts of West Rajasthan, little part of Bihar and Gangetic West Bengal, Most part of Marathwada, little part of South Madhya Maharashtra, Interior Karnatak, some part of Telangana and Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu and some part of Kerala and Lakshadweep where it was 60 to 80% and very little parts of Tamil Nadu were it was 40 to 60%.

Cloud amount (okta) over India for the week ending 13.08.08



Cloud amount ranges between 6 to 8 okta in the country except in some part Punjab, Jammu Kashmir and little part of Kerala, Tamil Nadu, West Bengal, Rajasthan and Andaman Nicobar island.

Wind speed (knots) over India for the week ending 13.08.08



Wind speed ranges between 8 to 12 knots in West part of Saurashtra and Kutch, some part of West Madhya Pradesh, Andaman & Nicobar and little part of Kerala and Orissa , 4 to 8 knots in entire parts of Lakshadweep, most part of Kerala, Karnataka, Andhra Pradesh, Andaman Nicobar, Maharashtra, Gujarat, Orissa, some parts of Madhya Pradesh, Rajasthan and Tamil nadu little part of Chattisgarh, Haryana, Bihar, Jharkhand and rest of the country where it was 0 to 4 knots.

Districtwise Rainfall Distribution Problem Areas

Maharashtra

Konkan & Goa

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Goa	-37	-25	7	29	305	Ratnagiri	-70	-76	49	8	110
Mumbai	-57	-93	245	-24	107	Sindhudurg	-75	-39	44	36	252
Raigad	-69	-81	90	-11	152	Thane	-34	-86	87	5	210

Madhya Maharashtra

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Ahmednagar	-85	-80	96	63	76	Nasik	48	-60	102	74	711
Dhule	-96	-100	136	-66	9	Pune	-87	-99	-45	-64	101
Jalgaon	-67	-99	124	-42	-33	Sangli	-95	-99	-30	-77	205
Kolhapur	-66	-88	53	43	312	Satara	-78	-85	-35	12	195
Nandurbar	38	-99	-64	-63	263	Sholapur	-95	-98	120	78	-34

Marathwada

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Aurangabad	-74	-91	12	-41	0	Nanded	-86	-34	-26	-45	18
Beed	-95	-60	-3	63	18	Usmanabad	-78	-76	40	125	-37
Jalna	-100	-53	63	-57	-4	Parbhani	-80	-64	105	-38	-33
Latur	-67	-42	-20	34	17						

Vidhrabha

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Akola	-89	-74	57	-49	11	Gondia	-57	-41	70	104	11
Amraoti	-93	-47	115	-45	-16	Nagpur	-78	-33	190	23	-4
Bhandara	-63	-21	68	42	-7	Wardha	-91	36	200	49	-16
Buldhana	-84	-32	114	-50	-3	Washim	-85	-17	21	-38	-31
Chandrapur	-82	-30	73	169	16	Yeotmal	-84	-8	4	34	-5
Gadchiroli	-80	-49	60	132	-11						

Even though the Mumbai, Dhule, Nandurbar, Pune, Sangali, Aurangabad, Jalana, Nanded, Parbhani, Akola, Amraoti, Buldhana received deficient/scanty rain during previous week, rainfall situation is normal due to receipt of excess/normal rain during last week. Jalgaon, Washim and Parbhani received deficient rain during last two weeks. However, rainfall situation was normal in other sub-divisions of the country.

Gujarat Region

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Ahmedabad	-28	-97	9	154	35	Kheda	-20	-99	34	39	178
Anand	-59	-92	-30	53	98	Mehsana	26	-99	-23	87	132
Banaskantha	-31	-97	-68	143	163	Narmada	110	-75	-59	12	135
Baroda	31	-92	-7	4	170	Navsari	-2	-89	6	77	355
Broach	75	-86	-49	-13	129	Panchmahal	16	-97	-2	-18	118
Dahod	93	-99	-41	-17	99	Patan	-31	-100	-31	218	89
Dangs,	14	-86	-58	67	333	Sabarkantha	-3	-97	35	-13	118
DNH & Daman	-1	-88	66	39	279	Surat	25	-84	-19	52	191
Gandhinagar	-6	-100	-8	93	265	Valsad	-1	-80	52	49	343

Saurashtra & Kutch

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Amreli	-86	-89	184	-37	50	Kutch	-95	-98	-47	71	46
Bhavnagar	4	-92	-23	134	87	Porbandara	-99	-99	332	-30	22
Diu	-83	-90	265	-26	242	Rajkot	-96	-98	66	8	78
Jamnagar	-96	-99	121	-38	0	Surendranagar	-97	-98	-31	90	92
Junagarh	-91	-89	278	-39	43						

Even though both the sub-divisions received scanty rain during third week of July, rainfall situation is normal due to receipt of excess/normal rain during last two weeks in Gujarat region and last week in Saurashtra region.

Andhra Pradesh Coastal A.P

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
East Godavari	-26	-4	83	218	88	Sirkakulam	-3	-24	129	7	78
Guntur	31	43	69	154	290	Visakhapatnam	-62	-35	74	-15	45
Krishna	-23	14	89	226	364	Vizianagram	-17	31	214	6	42
Nellore	-58	-2	123	-36	64	West Godavari	-2	53	85	233	147
Prakasam	-92	116	12	-26	116						

Telangana

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Adilabad	-82	-47	7	152	48	Medak	-95	-38	4	30	381
Hyderabad	-98	-73	55	149	558	Nalgonda	-91	27	-2	188	359
Karimnagar	-69	-26	-8	110	153	Nizamabad	-95	-28	55	34	170
Khammam	-60	3	99	189	198	Rangareddy	-76	-63	32	95	360
Mehabubnagar	-90	-55	3	12	79	Warangal	-88	7	41	240	238

Rayalseema

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Anantapur	340	86	39	-23	-9	Cuddapah	-15	-33	-47	-30	-33
Chittoor	-1	21	82	-79	-19	Kurnool	-44	8	47	34	73

During second/third week of July Telangana received deficient/scanty rainfall, the situation is normal due to receipt of excess/normal rain during last two weeks in the state.

Kerala

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Alappuzha	5	42	103	-100	68	Kozhikode	-65	-95	33	-51	362
Kannur	-86	-94	20	-92	199	Malappuram	-73	-91	39	-86	41
Ernakulam	-31	-25	8	-57	26	Palakkad	-64	-88	60	-32	27
Idukki	-45	-37	96	-100	101	Pathanamthitta	32	39	123	-100	130
Kasaragod	-67	-77	39	-76	-100	Thiruvananthapuram	19	-25	141	-86	-34
Kollam	-6	-5	162	-100	65	Thrissur	-63	-69	15	-95	29
Kottayam	-15	1	70	-94	83	Wyanad	-85	-85	28	-80	121

Even though the state received scanty rain during third week of July and first week of August, rainfall situation is normal due to receipt of excess rain during last week.

Karnataka Coastal Karnataka

District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08	District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08
Dakshin Kannada	-76	**	60	-34	-13	Uttar Kannada	-83	**	31	-29	-16
Udupi	-89	**	37	-50	-17						

North Interior Karnataka

District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08	District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08
Bagalkote	-69	**	-16	-56	-47	Gadag	-87	**	-25	-67	-23
Belgaum	-74	**	32	30	21	Gulbarga	-92	**	89	16	-28
Bidar	-91	**	38	74	3	Haveri	-91	**	52	17	13
Bijapur	-92	**	-4	-30	-59	Koppal	-92	**	-16	-1	-50
Dharwad	-87	**	28	8	10	Raichur	-87	**	9	-47	-62

South Interior Karnataka

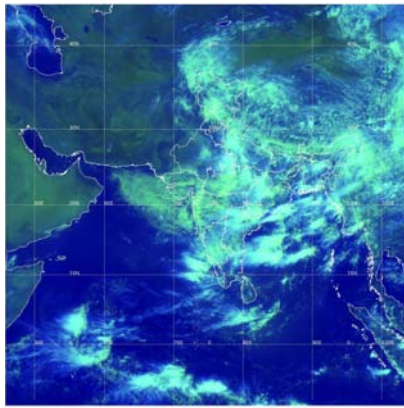
District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08	District	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08
Bangalore Rural	134	**	71	-25	-2	Hassan	-77	**	58	-57	-39
Bangalore Urban	196	**	145	13	47	Kodagu	-74	**	191	25	15
Bellary	-53	**	-35	-27	-44	Kolar	205	**	103	-43	28
Chamarajnagar	13	**	101	-60	12	Mandya	169	**	110	-64	61
Chickmagalur	-73	**	149	8	30	Mysore	-12	**	162	-33	8
Chitradurga	-25	**	51	-10	7	Shimoga	-81	**	102	-14	6
Davangere	-83	**	44	4	-7	Tumkur	169	**	145	-35	47

Even though the state received deficient/scanty rain up to second week of, rainfall situation is normal due to receipt of normal/excess rain during last three weeks.

Districtwise Rainfall Distribution for remaining states is given in Annexure II

Chief Synoptic Feature (Based on 1430 hours IST observations of 14th August, 2008)

- The upper air cyclonic circulation over north Rajasthan persists and interacting with mid-latitude westerly trough currently lying along Long 72^oE. Under this scenario, fairly widespread rainfall with isolated heavy to very heavy falls is likely over East Rajasthan during next 24 hours and over Haryana, Chandigarh & Delhi, Himachal Pradesh, West Uttar Pradesh and Uttarakhand during next 2-3 days.
- The axis of monsoon trough passes through Bikaner, Alwar, Etawah, Muzaffarpur, Malda and thence eastwards to Nagaland. Under its influence, fairly widespread rainfall activity with isolated heavy to very heavy falls is likely over northeastern States, Sub-Himalayan West Bengal & Sikkim and Gangetic plains during next 3-4 days.



Satellite image of 6 UTC on 15th August 08

Zone-wise Forecast

NORTHWEST INDIA [J & K, H. P., UTTARAKHAND, PUNJAB, HARYANA, DELHI, WEST UP] (Forecast valid upto 1430 hours IST of 17th August, 2008)

Rain/thundershowers are likely **at many places** over the region during next 48 hours and decrease thereafter.

Quantitative District Weather Forecast for next five days:

Rather moderate rainfall will occur over the region except in Uttar Pradesh and Uttarakhand where rather moderate to rather heavy rainfall will occur.

EAST INDIA [EAST UP, JHARKHAND, BIHAR, ORISSA, WEST BENGAL & SIKKIM] (Forecast valid upto 1430 hours IST of 17th August, 2008)

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

Quantitative District Weather Forecast for next five days:

Rather moderate/moderate rainfall will occur over the region

NORTHEAST INDIA [Arunachal Pradesh, NMM & T, Assam, Meghalaya,] (Forecast valid upto 1430 hours IST of 17th August, 2008)

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

Quantitative District Weather Forecast for next five days:

In Assam and Arunachal Pradesh rather moderate to moderate rainfall will occur except in Morigaon and Nowgong district of Assam, where for first one or two days heavy rainfall will occur.

SOUTH INDIA [TN, AP, KERALA,, KARNATAKA, LAKSHADWEEP, ANDAMAN & NICOBAR ISLANDS] (Forecast valid upto 1430 hours IST of 17th August, 2008)

Rain/thundershowers are likely at many places over Coastal Karnataka, Kerala and Lakshadweep. Rain/thundershowers are likely at a few places over north Tamil Nadu, Coastal Andhra Pradesh and South Interior Karnataka and isolated over the rest region.

Quantitative District Weather Forecast for next five days:

Light to rather moderate/moderate rainfall will occur over the region.

WEST INDIA [GOA, MAHARASHTRA (OTHER THAN VIDARBHA), GUJARAT, RAJASTHAN] (Forecast valid upto 1430 hours IST of 17th August, 2008)

Rain/thundershowers are likely at **many** places Konkan & Goa, Madhya Maharashtra during next 24 hours and decrease thereafter. Rain/thundershowers are likely at **many** places over East Rajasthan during next 24 hours and decrease thereafter. Rain/thundershowers are likely at a **few** places over the rest region.

Quantitative District Weather Forecast for next five days:

Light to rather moderate rainfall will occur over the region.

CENTRAL INDIA [M.P., CHHATTISGARH, VIDARBHA] (Forecast valid upto 1430 hours IST of 17th August, 2008)

Rain/thundershowers are likely at many places over Chhattisgarh. Rain/thundershowers are likely at many places over East Madhya Pradesh during next 48 hours and decrease thereafter. Rain/thundershowers are likely at a few places over West Madhya Pradesh. Isolated rain/thundershowers is likely over Vidarbha.

Quantitative District Weather Forecast for next five days:

In Chattisgarh and East Madhya Pradesh rather moderate rainfall will occur and in West Madhya Pradesh light rainfall will occur.

Warning :

Isolated heavy to very heavy rainfall is likely over northeastern States, Sub-Himalayan West Bengal & Sikkim, Uttarakhand, Himachal Pradesh, Haryana, Uttar Pradesh and Bihar. Isolated heavy to very heavy rainfall is likely over Konkan & Goa, Madhya Maharashtra, and East Rajasthan during next 24 hours.

Weather Outlook from 1430 IST of 17th to 1430 IST of 19th August, 2008 (Based on numerical weather products):

Fairly widespread rainfall activity likely over Gangetic plains and northeastern states.

Sub-due rainfall activity is likely over Peninsular India. possibility of isolated heavy to very heavy falls.

Zonewise Agromet Advisories

NORTH WEST INDIA [J & K, H. P., UTTARAKHAND, PUNJAB, HARYANA, DELHI, WEST UP]

J & K

- **Standing Crops:** Pulses (vegetative), Rice (vegetative stage in Kashmir division).
- As rain/thundershowers is likely at many places during next two days, postpone irrigation to the standing crops.
- In Kashmir regions, drain out water from rice fields after maximum tillering stage. Apply top dressing of nitrogen to rice in Jammu and Kashmir regions after spells of rain.
- Undertake sowing of cabbage and cauliflower in the nursery in Jammu and Kashmir divisions and planting of fruit crops like mango, citrus, litchi, loquat, guava, amla and papaya in Jammu division after spells of rain.
- **Plant Protection:** Present weather is congenial for blight and leaf spot in tomato and downy mildew in cucurbits. Monitor the crops for the diseases and spray the crop with fixed copper @0.3% or diathane Z-78 @0.2% at 10-12 days intervals after spells of rain in Jammu region.

Himachal Pradesh

- **Standing crops:** Vegetables (vegetative / flowering / fruiting / harvesting), Maize (early vegetative / vegetative), Rice (early vegetative / tillering), Apple (fruit development), Tea (plucking), new planting of evergreen fruit plants and nursery sowing of tomato.
- As rain / thundershowers are likely at many places over the State along with isolated heavy to very heavy rain for next 48 hours, postpone irrigation and intercultural operation to the crops and also make arrangement of draining out of excess water from the field.
- Undertake sowing and application of plant protection measures after current spells of rain.
- Maintain 3 – 5 cm water in rice field.
- Start sowing of nurseries of tomato.
- **Plant Protection:** It is optimum time for planting 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 + chlorpyrifos @ 10ml / 10 litres of water per pit before planting.
- 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.
- Fruit borer is also appearing in brinjal, okra and tomato and there is also chance of more infestation. For control, spray carbaryl @ 2 g / litre.
- Rice blast is appearing and there is also more chance of infestation as weather condition is conducive. For control, spray Blitox-50 (3 g per litre of water) or Bavistin (1 g per litre of water). Weather is also conducive for infestation of rice hispa. For control, chlorpyrifos 20 EC @ 2.5 ml per litre may be applied if infestation crosses economic threshold level.
- Weather is conducive for attack of blue beetle in roses and balsam. For control spray metacid @ 0.05%.

Uttarakhand

- **Standing Crops:** Sugarcane (vegetative), Maize, groundnut and vegetables (early vegetative / vegetative), Rice (early vegetative / tillering), Urd (proper time for sowing).
- As rain / thundershowers are likely at many places over the State along with isolated heavy to very heavy rain during next 48 hours, postpone irrigation and intercultural operation to the crop and also arrange for draining out excess water from the field.
- Remove excess water accumulated due to heavy rain from the field of rice and maintain 3 – 5 cm of water in the field.
- The farmers who could not sow the crops till date may undertake sowing of urd after current spells of rain. Select the varieties from Narendra Urd-1, PU-30 or PU-35 for sowing during this week only.

Punjab

- **Standing Crops:** Rice (seedling/early vegetative), Horticultural crops (vegetative), Sugarcane (vegetative), Early sown cotton, maize and groundnut (early vegetative to late vegetative), Sunflower (vegetative/flowering).
- As most of the districts received rain during last week and rain is likely to occur at many places for next 48 hours, farmers are advised to postpone irrigation and intercultural operations.
- Farmers are advised to complete 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, and Patiala districts as good amount of rainfall occurred during last week and good amount of rainfall is also expected during next five days.
- **Plant Protection:** Prevailing weather conditions may favour the incidence of bacterial leaf blight and leaf spot in cotton. Farmers are advised to spray recommended pesticides after current spells of rainfall.

Haryana

- **Standing Crops:** Rice (early vegetative / tillering), Sugarcane (vegetative), Horticulture crops (vegetative), Sunflower (vegetative/flowering).
- As most of the districts received rain during last week and rain is likely to occur at many places along with heavy to very heavy rain for next 48 hours, farmers are advised to postpone irrigation and intercultural operation to the crops and also arrange for draining out excess water from the field.
- As heavy rain is expected, prop up the sugarcane crop by trash twist method to save it from lodging.
- Farmers are advised to undertake application of pesticides as mentioned below after current spells of rain.
- There may be infestation of thrips and pyrilla in sugarcane as the weather condition is conducive. For effective control, spray 350 ml Endosulfan 50 EC in 600 liters of water / acre.
- Prevailing weather conditions may favour the incidence of bacterial leaf blight and leaf spot in cotton. Farmers are advised to spray recommended pesticides.

Delhi

- **Standing crops:** Maize (early vegetative / vegetative / tasseling / silking stage), arhar, bajra and fodder sorghum (early vegetative / vegetative stage), Sugarcane (vegetative stage). Kharif rice (tillering stage).
- As there was sufficient rain during last week and rain / thundershowers are likely at many places over the state, postpone irrigation and intercultural operation to the standing crops and also arrange for draining out excess water from the field to avoid water logging.
- Provide mechanical support to sugarcane to save the crops from lodging.
- The farmers are advised to transplant cauliflower seedlings after current spells of rain.
- The farmers are advised to sow early maturing raddish varieties like Hill Queen on the ridge.
- **Plant Protection:** There is chance of attack of stem borer in rice due to favourable weather condition. Farmers are advised to use pheromone traps within the crop field to reduce the infestation. Trichogramma card @ 1 – 3 cards/acre may also be used.

Uttar Pradesh

- **Standing Crops:** Summer sugarcane (vegetative), Newly planted Mango trees (fruit setting), Kharif Rice (proper time for transplanting), Kharif pulses and maize (proper time for sowing)
- As rain/thundershowers are likely at many places over the State during next two/three days with isolated heavy rainfall over the State during next 48 hours, postpone irrigation to sugarcane and early sown kharif crops. Drain out excess water from the fields.
- Undertake intercultural operations, application of fertilizers and pesticides after spells of rain.
- Farmers in Bahraich, Bareilly, Bijnore, Pillibhit, Rampur, Saharanpur and Sharaswati nagar are advised to continue transplanting of rice. Undertake transplanting of brinjal, tomato and chillies (plains) and cauliflower in hilly region. Complete sowing of soyabean.
- **Plant Protection:** Weather conditions are conducive for mild incidences citrus canker in Banda, Barari, Chitrakut, Hamirpur, Jalaun, Jhansi, Lalitpur and Mahoba districts. Monitor the crop and spray Blitox @ 3-4 g/liter of water to control canker.

EAST INDIA [EAST UP, JHARKHAND, BIHAR, ORISSA, WEST BENGAL & SIKKIM]

Bihar

- **Standing Crops:** Sugarcane (vegetative), Kharif rice (early vegetative), Maize (vegetative)
- As rain/thundershower are likely at many places over the State during next three days with isolated heavy to very heavy rainfall during the next 48 hours, postpone irrigation to the standing sugarcane, maize and vegetable crops. Arrange for drainage facilities to avoid water stagnation
- Farmers in Aurangabad, Banka, Bhabua, Buxar, Bhagalpur, Gaya, Jhanabad, Jamui, Lakhisarai, Munger, Nalanda, Nawada, Patna, Rohtas, Saboyur and Sheikhpura districts are advised to drain out excess water from the fields of maize, arhar, til, sunflower and vegetable crops. After receding of water, transplanting of rice may be continued. In early transplanted rice, stem borer incidence is reported. Monitor the crop and spray Endosulfan @ 1.5 ml/litre of water after current spells of rain. Monitor maize for stem borer and apply Carbofuran after spells of rain. Monitor brinjal and ladies finger for fruit borer and spray Endosulfan @ 2 ml/litre of water after spells of rain. After receding of water, transplanting of cauliflower may be undertaken.
- Farmers in Begusarai, Darbhanga, East Champaran, Gopalganj, Madhubani, Muzaffarpur, Pusa, Samstipur, Saran, Sheohar, Sitamarhi, Siwan, Vaishali and West Champaran districts are advised to undertake intercultural operations and application of 30 kg N/ha to short duration varieties and 15 kg N/ha to long duration varieties of rice after spells of rain.
- Monitor the sugarcane crop for shoot borer incidence. If attack crosses economic threshold level, apply pesticides after spells of rain.
- Undertake intercultural operations, spraying and application of fertilisers after current spells of rain.

Jharkhand

- **Standing Crops:** Kharif rice and Early sown maize (early vegetative).
- As rain/thundershower is likely at many places over the State during next three days, postpone irrigation to early sown maize, arhar, urd and vegetables.
- Farmers are advised to continue preparation of main field and undertake transplanting of kharif rice in low lands of all the districts by utilizing the monsoon showers.
- Continue land preparation and sowing of maize and arhar by utilizing the monsoon showers.
- Transplanting of tomato may be continued with varieties like Pusa rubi, Pusa early, selection-12 etc. in Dumka and adjoining districts by utilizing the monsoon showers.
- Undertake intercultural operations, spraying and application of fertilisers in early sown maize, arhar, urd and vegetables after spells of rain.

Orissa

- **Standing crops:** kharif Rice (proper time for transplanting), Sugarcane (vegetative), Maize, cotton (proper time for sowing of maize and cotton), Early sown crop (early vegetative), Early sown Jute (early vegetative).
- As rain/thundershowers are likely to occur at many places for the next three days, postpone irrigation to the standing crops.
- Farmers are advised to apply top dressing of fertilizers in transplanted rice and other crops after current spells of rain.
- Farmers in Bhubaneswar, Cuttack, Gajapati, Ganjam, Jagatsinghpur, Kendrapara, Khurda, Nayagarh and Puri districts are advised to drain out excess water from recently transplanted rice fields. Undertake transplanting of brinjal after spells of rain.
- Due to high rainfall and cloudy conditions in Bargarh, Bolangir, Boudh, Chiplima, Jharsuguda, Sambalpur, and Sonapur, there is possibility of stem borer and gall midge incidence in rice. Apply Carbofuran 3G @ 12 kg/ac after spells of rain.
- There is possibility of occurrence of aphid in maize crop in the prevailing weather in Keonjhar and Mayurbhanj districts and apply 300 ml Metasystox in 200 litre of water per acre as foliar spray after current spells of rain.
- Weather conditions are favourable for the attack of stem borer and blast in rice in Bhadrak. Monitor the crop for the pest and disease and spray Chlorpyrifos @ 400 ml/acre to control the pest and spray Biomycin @ 2 ml/liter of water after current spells of rain.

West Bengal

- **Standing Crops:** Sugarcane (vegetative), jute (vegetative / maturity), Aus rice (grain formation), Pigeon pea and soybean (early vegetative / vegetative), Already transplanted aman rice (early vegetative / tillering), This is the time for preparation of land and sowing / transplanting of aman rice, sowing of tomato and nursery preparation of cauliflower.
- As most of the districts of West Bengal received sufficient rain during earlier weeks and rain is also likely to occur at many places over the State, postpone irrigation and intercultural operation to the crops. As isolated heavy to very heavy rainfall is also likely over Sub Himalayan West Bengal during next 48 hours, arrange for draining out excess water from the fields of this region.
- Maintain 3 – 5 cm water in the aus rice and already transplanted aman rice fields.
- 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.
- 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, Pusa Ketki, S-20, Roma Super etc. and some leaf curl virus tolerant hybrid varieties like NS-585, NP-5005, INDUM-9502, 9802 etc.
- As isolated heavy to very heavy rainfall is likely over Sub Himalayan West Bengal during next 48 hours, arrange for draining out excess water from the fields of already sown crops of this region.
- **Plant Protection:** There is chance of attack of rice bug in aus rice in Red Lateritic zone. For controlling rice bug, apply Hostathion @ 1 ml per litre of water.
- 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 litre of water) or blue-copper oxide.
- Undertake plant protection measures after current spells of rain.

Sikkim

- **Standing Crops:** Orange (fruiting/harvesting), Large cardamom (capsule development / maturity), Ginger (vegetative).
- As rain/thundershower are likely at many places over the State during next three days with isolated heavy to very heavy rainfall during the next 48 hours, postpone irrigation to orange, large cardamom, ginger and vegetable crops. Arrange for drainage facilities to avoid water stagnation.
- 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 oxychloride @ 3gm/ltr of water may be sprayed to the cardamom plants after current spells of rain to protect from fungal diseases.
- During the tillering stage, water level of 3-4 cm should be maintained in rice fields in medium and high hills to enable maximum tillering.
- Undertake earthing up and application of compost in seed potato in high hills after current spells of rain.
- 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.

NORTHEAST INDIA [ARUNACHAL PRADESH, NMM & T, ASSAM, MEGHALAYA]

Arunachal Pradesh

- **Standing crops:** Ginger (rhizome formation), Vegetables (harvesting), Wet seeded rice (vegetative), Jhum rice (grain formation), Millets (grain formation) and maize (cob formation).
- As rain/thundershower are likely at many places over the State during next three days with isolated heavy to very heavy rainfall during the next 48 hours, postpone irrigation to the standing maize (cob formation) millet and ginger crops. Arrange for drainage facilities to avoid water stagnation.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, wet seeded rice, jhum rice and millets after spells of rain.

Assam

- **Standing crops:** Maize (cob maturity / harvesting), sugarcane (vegetative stage). Arhar (vegetative), Early transplanted sali rice (early vegetative / tillering).
- As most of the districts received rain during last week and rain/thundershowers are likely at many places over the State for next three days, postpone irrigation to the crops. As there is chance of heavy to very heavy rain during next 48 hours over the State, arrange for draining out excess water from the field.
- Because of more rain there is chance of stagnation of water, drain out excess water and maintain 3 – 5 cm of water in Sali rice field wherever crops are at tillering stage.
- Provide mechanical support to the sugarcane crops to prevent lodging to be caused by heavy rain.
- This is proper weather condition for preparation of land and transplanting of Sali rice. 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.
- 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.
- Undertake application of pesticides and sowing / transplanting after current spells of rain.
- 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.

Andhra Pradesh

- **Standing Crops: Sugarcane (grand growth)**

Coastal AP

Plain Land

- Farmers in Krishna, Guntur and Prakasam districts are advised to continue transplanting of rice (BPT 5204) after receding of water from the fields. In early transplanted crop, drain out the excess water and top dress urea.

Plant Protection: Due to continuous rain, damping off disease is reported in chillies. Spray Copper oxy chloride to control the disease. Undertake resowing of cotton crop and gap filling to maintain optimum plant population where the crop was damaged due to heavy rainfall.

High Altitude Areas

- Farmers in high altitude regions of Srikakulam, East Godavari, Vijayanagaram, Visakappattinam and Khammam are advised to continue transplanting of Sarwa rice upto end of August.

Plant Protection: Due to high humidity and cloudy conditions in parts of Visakappattinam district, attack of leaf folder is reported in early transplanted rice. Spray Chlorpyrifos @ 2 ml/liter of water to control the pest.

- Attack of bud necrosis and sucking pests is reported in groundnut in Ananthapur and Cuddappah districts. Farmers are advised to undertake plant protection measures to control the pests.
- Due to heavy rainfall during last week and stagnation of water in Srikakulam, Vijayanagaram and Visakappattinam districts, attack of cut worm and sheath blight is reported in Swarna varieties of rice. Also due to high humidity and cloudy conditions, attack of blast is reported. Farmers in these districts are advised to undertake plant protection measures to control the pests and diseases. Farmers in Srikakulam are advised to complete transplanting of rice (RGL 2537, Srikakulam Sannalu and Swarna Mashoori) with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days

Rayalaseema

Farmers in all the districts are advised to go for intercultural operation under prevailing normal weather condition.

Plant Protection: Attack of red hairy caterpillar in groundnut, stem borer in paddy and internode borer in sugarcane is reported in Chiththoor district. Farmers are advised to undertake plant protection measures to control the pests and diseases. Farmers are advised to continue sowing of castor, red gram, horse gram and tomato in August.

Telangana

Due to heavy rainfall in Karimnagar, Nizamabad and Adilabad, cotton and soyabean crops were partially damaged. Farmers are advised to undertake sowing of sorghum, sunflower and red gram, where the crops were completely damaged, after receding of water. Farmers in all the districts are advised to go for intercultural operation under prevailing normal weather condition.

Karnataka

- **Standing Crops:** Annual sugarcane (tillering), Early sown Kharif crops (vegetative).

Coastal Karnataka

- Farmers are advised to undertake transplanting of rice (Jyoti, MO 4 and Champaka) in Udupi and Dakshin Kannada. If nursery is not raised, undertake direct drum seeding of rice. Also undertake intercultural operations in early transplanted rice, cashew and banana after spells of rain.
- **Plant Protection:** Due to intermittent rains upto first week of August, attack of case worm and leaf roller was noticed in rice. Due to high rainfall during last week, these pest incidences reduced now. Farmers are advised to monitor the crop to prevent further incidence.

North Interior Karnataka

- Due to water logging conditions, farmers are advised to postpone sowing of maize (Kargil and M 330) and sowing may be undertaken during the next week Also in parts of i, resowing of groundnut (JL 24) replanting of onion may be undertaken where seed germination is poor due to insufficient rainfall received during first week of August.
- Farmers in Bidar region are advised to complete sowing of niger within 15th of August and continue sowing of sunflower till the end of August with realized rainfall during last week (110 mm) and also with possibility of sufficient amount of rainfall for the next five days (15-20 mm).
- In view of sufficient amount of rainfall received during last week, farmers in Gulbarga district are advised to continue sowing of cotton (Bt cotton) and late varieties of red gram (GS 1, Maruti, PT 221 and Asha) upto 15th August and sunflower (KBSH 1, RSH 1, SP 275, SP244 and Darsa Kaveri) during second fortnight of August. Due to good amount of rainfall, attack of yellow vein mosaic virus and Anthracnose is reported in green gram. Undertake plant protection measures to control the diseases.
- Farmers in Raichur area are advised to continue sowing of continue sowing of cotton (Bt cotton) and late varieties of red gram (GS 1, Maruti, PT 221 and Asha) wherever there is access to canal water.
- **Plant Protection:** Due to cloudy weather conditions, attack of leaf eating caterpillars and sucking pests is reported in cowpea, green gram and soyabean.in Belgaum and Haver Undertake plant protection measures to control the pests.

South Interior Karnataka

- Due to receipt of sufficient amount of rainfall in Bellary and Gadag with a possibility of 20 mm rainfall during next five days, farmers are advised to undertake contingent plan (August first fortnight) as:
- Detail contingent planning is available in Annexure 1. But farmers in Bijapur, Bagalkot and Koppal may wait for sowing until sufficient rainfall is received.
- Farmers in Mysore and Tumkur districts are advised to undertake sowing of ragi (GPU 28 and Indaf 5), 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 rice (Thella, Hamza, KRH 1, Mangala, Mukthi, Bilimukthi and Rasi) and undertake planting of sugarcane (CO varieties – 419, 62175, 7804, 8371 and 86032). Due to cloudy weather, attack of blast is reported in rice and ragi nursery. Spray Hinosan or Kitacin to control the disease.
- In Molakalmur taluk of Chitradurga disitric, due to scanty rainfall upto first week of August, sowing of groundnut, castor and red gram could not be undertaken. Due to sufficient rainfall received during last week, farmers are advised to undertake sowing of these crops now.
- **Plant Protection:** Due to excess moisture, incidences of Tikka leaf spot, wilting, Sclerotium rot and leaf eating caterpillar in groundnut, wilting and sucking pests in cotton, aphids in tobacco, Colerago in arecanut and stem borer, leaf folder and blast in rice are reported in Shimoga. . Farmers are advised to drain out excess water

Kerala

- **Standing Crops:** Rice (tillering)
- Rain/thundershowers are likely to occur at many places for the next three days. Farmers are advised to postpone irrigation to rice and plantation crops.
- Application of fertilizers and pesticides and intercultural operations may be undertaken after current spells of rain.
- Farmers In Malappuram, Kasargod, Kozhikode and Kannur districts are advised to undertake intercultural operations and application of fertilizers in plantation crops (coconut, arecanut, pepper

and cashew) and rice after current spells of rain. Farmers in Wayanad and Idukki are advised to continue transplanting of Nanja rice (Samata Triveni, Wayanad 1, Kanchana, Varsha and Uma) with realized rainfall during last week and also with possibility of good amount of rainfall for the next five days. Undertake intercultural operations in coffee, pepper and ginger after spells of rain.

- **Plant Protection** Farmers in Thiruvananthapuram, Kollam and Pathanamthitta are advised to monitor virippu rice (at milky stage) for rice bug and sheath blight. Monitor the crop for the pest and disease and undertake plant protection measures after spells of rain to control the pest. Undertake weeding and application of urea to rice at late tillering/panicle initiation after spells of rain.
- Attack of mahali disease is reported in arecanut in Thrissur. Apply 1% Bordeaux mixture after spells of rain to control the disease.

Tamilnadu

- **Standing Crops** : Rice (Kuruvai)(nursery sowing), Early, Mid Sugarcane (cane development/maturity stage), Special season sugarcane (grand growth stage) Sorghum (vegetative) Cotton (boll maturity/picking stage)
- Apply irrigation to groundnut, sugarcane and pulse crops as there was no significant rainfall during last week except in Coimbatore, Kanyakumari, Theni and Thirunelveli districts and rain/thundershowers likely at isolated places over the State. Postpone irrigation in the above districts as there was excess rainfall during last week.
- Continue transplanting of Kuruvai rice in the main field in Thanjavur, Trichy, Karur, Nagappattinam and Perambalur districts using canal water.
- Undertake sowing of bhindi, tomato and cowpea in Chennai, Cuddalore, Kanchipuram, Thiruvavur, Thiruvannamalai, Vellore and Villupuram districts using irrigation water.
- As there is possibility of good rainfall in August (Adipattam) and using the available moisture in the soil, maize, jowar, bajra, ragi and other minor cereals may be sown in Namakkal area.
- **Plant Protection:**
- Present weather is conducive for mild incidences of leaf folder in paddy in Coimbatore. Spray Monocrotophos @ 1 litre/ha to control the pest. Also monitor groundnut for rust and spray Tridemorph @ 500 ml/ha to control the disease.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

Maharashtra

- **Standing Crops:** Sugarcane (pre-seasonal) (elongation / cane development), sugarcane (Suru) (active growth / elongation). Irrigated cotton (vegetative growth / floral bud formation). Kharif groundnut (flowering stage in Kolhapur and germination / early vegetative / vegetative stage in other parts of the State), Kharif cotton (early vegetative / vegetative). Kharif rice (tillering stage in Konkan and Kolhapur), This is proper time for land preparation and sowing of tur, sunflower, black gram, green gram and transplanting of kharif rice in east Vidarbha.

Konkan

- **Konkan.** Farmers are advised to postpone irrigation to the rice and s ragi crops and arrange for adequate drainage to avoid water logging.

Madhya Maharashtra

- Because of good amount of realized and expected rainfall farmers in **Nandurbar, Ahmednagar, Dhule, Pune, Jalgaon, Sangli** and **Solapur** districts are advised to prepare land and complete sowing of short duration kharif crops (red gram, sunflower, soybean and castor and inter crops like sunflower + tur, tur + cluster bean etc.) immediately under contingent planning (Detail contingent planning is available in Annexure 1).

Marathwada

- Sowing is also delayed in all the districts of **Marathwada** due to continuous dry spell during earlier part of the season. As, most of the districts of this region received rain during last couple of weeks, farmers of this region are advised to prepare land utilizing realized rain and complete sowing of short duration kharif crops (hybrid bajra, sunflower and inter crops like tur + soybean, bajra + tur, castor + tur and castor + sesame) (Detail contingent planning is available in Annexure 1).

Vidarbha

- As the Districts of **East Vidarbha** received sufficient rain during last week, conditions are favourable for completing transplanting operations of rice in these districts. The varieties of rice are PKVHMT, PKV Khamang, Shindewahi 1, Shindewahi 5, Shindewahi 2001, Makarand, Sakoli 8, MTU 1001. Farmers are also advised to complete sowing of tur. Select varieties from Maruti, C 11 etc. for red gram.
- The districts of **West Vidarbha** also received good rain during last week. Even condition is expected to improve in the districts like **Akola, Amravati** and **Buldana** which received limited rainfall during earlier weeks of the season. Farmers are advised to complete sowing of kharif crops like red gram, bajra and sunflower etc. utilizing realized rain. 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.

Gujarat

- **Standing Crops:** Sugarcane (vegetative), Kharif groundnut (early vegetative /vegetative), Kharif cotton (early vegetative / vegetative), Kharif rice (land preparation and transplanting), Early transplanted rice (early vegetative / tillering), Other kharif crops (land preparation and sowing), Already sown crops (germination / early vegetative / vegetative).

North Gujarat

- In **this** region, the districts like **Anand, Vadodara, Kheda, Panchmahal** and **Dahod** received rain during last few weeks. The farmers of **Anand** and **Kheda** are advised to complete transplanting of rice during this week. The varieties are Masuri, GR-101, 102,103 & 104 and Narmada. The farmers of all these districts are advised to complete sowing of castor (varieties GCH 4, GCH 5) and cluster bean within this week. The farmers of these districts may also undertake transplanting of tobacco seedlings in this week. Suitable varieties are Anand 119, GT – 4 and GT – 7 for rained conditions and A – 2, 119 GT – 5, 9 and GTH – 1 for irrigated conditions.
- Good rain also received in **Ahmedabad** during last couple of weeks. The farmers of this district are advised to complete transplanting of rice varieties like Gurjari and GR 11 and sowing of cotton (varieties COT Hybrid 10, COT Hybrid 12) and castor (varieties GCH 4, GCH 5) during this week.
- Even though rain was poor during earlier part of the season in **Banaskantha, Patan, Gandhinagar** and **Sabarkantha**, but the districts received good rain during last couple of weeks. As large area of **Gandhinagar** and **Sabarkantha** and considerable area of **Patan** and **Banaskantha** are under irrigation, timely sowing of cotton in **Patan** and **Sabarkantha** and groundnut in **Banaskantha** and **Sabarkantha** have already been done with assured irrigation. Utilising realized rain, farmers of rained areas are advised to complete sowing of sesame, cluster bean, fodder maize and castor in these districts. Select varieties from Gujarat Til 1, Gujarat Til 2 for sesame, Gujarat Cluster bean 2 for cluster bean and African Tall for maize.

South Gujarat

- As all the districts of **South Gujarat** region received well distributed rain during the season, sowing of crops have already been carried out in most of the areas and the standing crops are also at good condition. As these districts received good rain during last couple of weeks and are likely to receive good rain during next five days, farmers are advised to postpone irrigation to the crops.

Suarashtra and Kutch

- 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 districts of this region received rain during last few weeks. The farmers who did not sow the crops till date are advised to prepare land and complete sowing of castor (varieties GCH 4, GCH 6, GCH 7 etc.) and red gram (BDN 2, GT 1 etc.) within this week utilizing realized rain.
- Already sown / transplanted other crops in different parts of the State are at germination / early vegetative / vegetative stage and in good condition. As all the districts of the State received rain during last week, postpone irrigation to the crops.

Rajasthan

- **Standing Crops:** Groundnut, bajra, jowar, maize, sesame, cluster beans, red gram, cotton, vegetables. All the crops are in vegetative condition.
- As rain/thundershower are likely at many places over the State during next 24 hours along with isolated heavy to very heavy rainfall during the next 24 hours, postpone irrigation to the crops. Drain out excess water from the crop fields.

East Rajasthan

- Farmers in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur are advised to drain out excess water from the fields of bajra, jowar, maize, sesame, cluster beans, red gram, cotton, groundnut, fruits and vegetable crops.
- Weather conditions are favourable for mild incidences of white fly and jassids in cotton in Alwar and Dholpur. Monitor the crop for the pest. To control the pest, spray Dimethoate or Methyl Demeton @ 1 litre/ha.
- **Plant Protection:** Weather conditions are favourable for mild incidences of Tikka leaf spot in groundnut in Alwar, Dholpur, Karauli and Sawai Madhepur. Monitor the crop for the pest. To control the pest, spray Carbendazim @ 500 ppm.

West Rajasthan

- Farmers in Jalore and Jodhpur are advised to sow bajra and other pulsed after current spells of rain. Short duration varieties of pulsed may be taken up for sowing. Optimum spacing may be maintained. Carry out intercultural operations for application fertilizers..
- Weather condition is conducive for sowing of chillies and other other vegetables.
- As monsoon is active take on priority basis short duration fodder crops in Pali district. Apply first dose of nitrogen fertilized to cotton crop.
- **Plant Protection:** Weather conditions are favourable for mild incidences of Tikka leaf spot and white grub in groundnut and bacterial blight in cluster beans in Bikaner and Jaisalmer districts. Monitor the crops for the pests and diseases. To control Tikka leaf spot, spray Dithane M 45 @ 2 g/ litre of water. Spray Chlorpyrifos @ 1 litre/bigha. To control bacterial blight spray Streptocyclin @ 1g/10 liters of water

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Standing Crops :** Sugarcane (grand growth)
- As there was no significant rainfall during last week and rain / thundershower is likely at a few places over the State for next three days, apply irrigation to the crops.
- Undertake intercultural operations and application of fertilizers and plant protection measures on a non rainy day.

- Prepare land and nursery for medium varieties of cauliflower. Undertake land preparation and planting of kharif vegetables like brinjal, tomato, early cauliflower and chilli in and around Jabalpur. Also undertake planting of guava, citrus, mango and anola during this period.
- There is chance of attack of fruit and shoot borer in brinjal. Spray trizophos 40 EC @ 800 ml / ha on a non rainy day to control the pest.
- Weather conditions are favourable for the incidences of green leaf hopper in maize and sucking pests in vegetable crops. Apply Phorate on a non rainy day to control green leaf hopper and spray Methyl Demeton @ 1 ml/litre of water on a non rainy day to control sucking pests.
- 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.

Chattisgarh

- **Standing Crops:** Autumn sugarcane (vegetative), Soybean, groundnut and black gram (early vegetative / vegetative), Early transplanted rice (early vegetative / tillering), Pigeon pea, green gram, urad and sesame (early vegetative / vegetative).
- As rain / thundershower is likely to occur at many places over the State for next three days, postpone irrigation and intercultural operation to the standing crops.
- Conditions are favourable for biasi and transplanting of kharif rice in most of the districts of the State except some parts of Raipur, Rajnangdaon, Durg and Kanker districts. Farmers are advised to complete the transplanting and 'biasi' of rice as early as possible, wherever 5-10 cm of standing water is accumulated in the rice fields. 'Saghan Chalai' (Gap filling after biasi) should be done at the earliest after 'biasi' operation.
- Due to poor rain during earlier weeks in Raipur, Rajnangdaon, Durg and Kanker districts, some parts are presently under deficit rainfall conditions and farmers could not be able to complete the transplanting of kharif rice in time within 20-25 days of nursery sowing. Hence, if old aged nurseries (more than 35 days) are used for transplanting, then under delayed transplanting conditions, planting of 3-4 seedlings/hill is recommended with 15-20 % more chemical fertilizers.
- Prepare land and undertake transplanting of chilli and brinjal and preparation of nurseries of 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 spray Confidor @ 4 ml / 15 litres water at the interval of 15 to 20 days. Also undertake sowing of cowpea and beans.
- Provide mechanical support to sugarcane to avoid lodging.

Annexure I

Contingent planning for South Interior Karnataka:

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, herbacium cotton + groundnut and fodder maize and bajra. During August second fortnight, 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* sowings are done), undertake sowing of pigeonpea, bajra, Sunflower, horsegram, herbacium 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, contour bunds, repeated harrowing etc) may be followed.

Contingent planning for Madhya Maharashtra:

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.

Contingent planning for Marathwada:

Select varieties from GHD 558, Shradha, Saburi, AHB 1666 (Pratima), ICTT 8230 etc. for hybrid bajra, AIMT 92901, PPC 6 (Sampada) etc. for bajra, LS 11, Morden, KDSH 1 for sunflower, MAUS 47, MAUS 71 (Samriddhi) 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.

Annexure II
Rainfall distribution in different regions of the country during last
Five weeks (17/07/08 to 13/08/08)

NORTH WEST INDIA

Punjab

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Amritsar	212	-85	-100	57	339	Kapurthala	163	-78	12	**	-100
Bhatinda	53	-65	-70	9	-34	Ludhiana	-6	-34	-93	248	81
Faridkot	**	-35	-100	-100	304	Moga	-28	-61	-100	167	45
Fatehgarh	-92	-48	-100	-83	-56	Muktesar	-75	-100	-100	360	92
Ferozpur	-86	-100	-100	-100	3	Nawashahar	2	-88	-100	482	-13
Gurdaspur	-19	-59	-99	12	3	Patiala	53	-79	-78	40	250
Hoshiarpur	-24	58	-96	138	77	Ropar	-69	-53	-59	254	-9
Jalandhar	11	-40	-87	117	33	Sangrur	-23	-89	-94	-86	-62

Delhi

16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
26	-86	-52	-26	20

Haryana

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Ambala	-33	679	-36	174	109	Karnal	-13	520	-96	-25	-18
Bhiwani	-24	3733	-88	311	232	Kurukshetra	-72	**	-100	-73	-31
Chandigarh	-86	755	-60	361	40	Mahendragarh	-27	2757	-93	264	-4
Faridabad	17	**	-34	-83	4	Panchkula	-39	4900	-96	-28	7
Fatehabad	23	**	-100	-59	-28	Panipat	47	-63	-100	-59	-45
Gurgaon	-31	**	-81	-80	-4	Rewari	38	**	-72	19	-21
Hissar	95	521	-100	-52	46	Rohtak	-45	2242	-72	-80	7
Jhajar	86	**	-62	102	169	Sirsa	-67	4125	-99	35	93
Jind	-15	**	-96	-54	37	Sonepat	42	-26	-42	-17	96
Katihal	-34	**	-100	76	-13	Yamunanagar	32	-28	-40	127	-43

Himachal Pradesh

District	16.07.08	23/07/08	30.07.08	06.08.08	13.08.08	District	16.07.08	23/07/08	30.07.08	06.08.08	13.08.08
Bilaspur	-45	431	26	-21	82	Lahaul & Spiti	-82	**	-94	-73	-52
Chamba	-64	**	-63	-61	-73	Mandi	-45	-15	-55	-25	-47
Hamirpur	-55	312	-61	10	20	Shimla	-58	53	-68	-29	5
Kangra	-57	53	-44	18	-49	Sirmaur	-25	1626	-37	-21	-40
Kinnaur	25	-74	-99	-50	149	Solan	-18	**	-63	-23	-6
Kullu	-17	18	27	70	43	Una	-22	263	-65	135	136

West UP

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Agra	-26	-75	-66	28	-37	Jhansi	-2	-45	-14	84	-68
Aligarh	107	-99	**	-95	-62	Jotiba Phule Nagar	**	**	**	-32	**
Auraiya	-52	-98	185	-60	-68	Lalitpur	-56	-100	-100	-93	**
Badaun	16	-5	-43	**	-84	Mahamaya Nagar	-3	**	**	**	**
Baghpat	-23	39	-100	-100	**	Mainpuri	33	-28	-54	-98	-100
Bareilly	57	236	-35	2	-49	Mathura	9	18	7	196	72
Bijnor	-71	-80	**	**	-100	Meerut	-55	-85	-69	-96	-100

Bulandsahar	48	-14	-52	10	6	Moradabad	-21	34	-98	66	-21
Etah	-57	-100	**	**	**	Muzzaffarnagar	**	-76	-88	**	**
Etawah	46	-78	8	-72	-50	Pilibhit	**	-55	-92	**	-99
Firozabad	87	-74	-79	-100	-90	Rampur	**	-20	-100	**	**
Ghaziabad	**	-97	-100	-100	**	Saharanpur	**	-73	-50	**	**
Hamirpur	69	-57	59	-43	-47	Shahjahanpur	-31	137	-16	-85	-12
Jalaun	-45	-99	44	-67	-38						

Uttarakhand

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Almora	-42	-31	-86	-42	-96	Haridwar	72	68	64	-42	-84
Chamoli	88	-7	23	-11	17	Nainital	-40	46	-79	-14	-49
Champawat	-30	34	-42	3	33	Pithoragarh	-67	-71	-75	-65	-52
Dehradun	-38	38	-58	72	31	Rudraprayag	-4	-76	-55	-60	-29
Garhwal (P)	10	2	-100	15	-50	Udham Sing	**	**	-88	-99	**
Garhwal (T)	-21	-40	-48	-5	-55	Uttar Kashi	10	-2	1	48	39

EAST INDIA West Bengal (GWB)

District	16.07.08	23/07/08	30.07.08	06.08.08	13.08.08	District	16.07.08	23/07/08	30.07.08	06.08.08	13.08.08
Bankura	22	53	61	-33	-22	Murshidabad	-69	95	**	-95	-65
Birbhum	30	72	-66	-50	68	24 Pargana (N)	44	68	-71	-73	-60
Burdwan	81	58	19	-69	55	Nadia	85	-51	-44	-74	-49
Hooghly	234	**	-81	-60	24	Purulia	-31	17	54	-47	-18
Howrah	118	-81	-12	-50	-8	24 Pargana (S)	115	-63	-55	-63	10
Midnapore	-15	28	-34	-66	61						

SHWB

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Coochbehar	-44	134	-34	-16	13	Malda	51	88	13	-13	20
Darjeeling	31	-12	-45	94	1	Dinajpur (N)	4	40	-79	47	**
Jalpaiguri	8	96	-50	23	-13	Dinajpur (S)	153	48	-65	133	95

Orissa

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Angul	27	**	-11	-24	**	Kandhamal	-57	**	-7	-14	**
Balasore	-16	**	15	-56	**	Kendrapara	-40	**	-35	-77	**
Bargarh	-61	**	-6	-69	**	Keonjhar	-3	**	132	-26	**
Bhadrak	-44	**	-17	-54	**	Khurda	25	**	39	-2	**
Bolangir	-25	**	61	-39	**	Koraput	-56	**	82	29	**
Boudh	-46	**	51	-21	**	Malkangiri	-56	**	160	3	**
Cuttack	-15	**	102	6	**	Mayurbhanj	-10	**	39	-38	**
Deogarh	-47	**	-86	-35	**	Nawapara	-60	**	-13	-15	**
Dhenkanal	-10	**	56	-20	**	Nawarangpur	-53	**	284	88	**
Gajapati	43	**	15	-2	**	Nayagarh	69	**	209	79	**
Ganjam	-16	**	121	**	**	Puri	8	**	91	31	**
Jagatsingpur	-10	**	-10	-43	**	Rayagada	-31	**	-11	18	**
Jajpur	-42	**	34	-55	**	Sambalpur	-46	**	-18	-32	**
Jharsuguda	-15	**	21	-83	**	Sonepur	25	**	18	-40	**
Kalahandi	-36	**	74	-23	**	Sundargarh	-3	**	40	-41	**

Bihar

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Araria	54	160	43	-67	-65	Madhepura	**	**	**	**	**
Aurangabad	-23	-15	-15	-95	91	Madhubani	12	81	-64	-69	-76
Begusarai	**	**	**	**	**	Monghyar	124	380	-46	-49	240
Bhabua	**	**	**	**	**	Muzaffarpur	172	239	-38	-67	17
Bhagalpur	-55	62	-62	-97	26	Nalanda	**	**	**	**	**
Bhojpur	-1	**	-70	-98	7	Patna	195	75	-43	-94	146
Buxar	-54	-46	-44	-99	216	Purnea	122	148	-79	42	24
Darbhanga	120	141	-25	-75	-80	Rohtas	-34	-52	-56	-96	97
East	72	121	-52	-72	22	Saharsha	-4	127	-28	-9	-19
Gaya	28	-63	-85	-92	-27	Samstipur	102	86	-53	-93	-63
Gopalganj	**	**	**	**	**	Saran	**	**	**	**	-61
Jhanabad	-100	30	-45	-100	-32	Sitamarhi	17	26	6	-99	232
Jamui	**	**	**	**	**	Siwan	41	190	-43	-74	-20
Kathihar	9	-32	-89	-41	48	Supaul	-99	-30	-90	-98	-61
Khagadia	3	217	-68	-84	-20	Vaishali	171	50	-85	-98	-92
Kishanganj	**	**	**	-96	**	West	28	175	-52	-58	60

Jharkhand

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Bokaro	60	-11	-37	-80	26	Lohardagga	**	**	**	**	**
Dhanbad	63	21	-12	-80	-9	Pakur	**	**	**	**	**
East Singbhum	-16	-7	-55	-70	-35	Palamau	-19	-14	-66	-67	72
Girioih	78	24	45	-42	**	Ranchi	-4	9	25	-70	48
Godda	**	**	**	**	**	Sahebganj	**	**	**	-87	**
Gumla	**	**	**	**	**	Santhal Parganas	57	41	-40	-77	23
Hazaribagh	24	3	-1	-82	123	West Singbhum	-54	-97	48	-80	-75
Koderna	**	**	**	**	**						

Uttar Pradesh (East UP)

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Allahabad	-45	-65	23	-92	143	Kanpur Dehat	-69	-37	-26	-97	-47
Ambedkar Nagar	-100	-35	2	-84	**	Kheri	121	150	25	-28	-65
Azamgarh	-78	-72	-100	-100	-69	Kushi nagar	-58	-37	-21	**	-5
Bahraich	137	4	-78	-56	-15	Lucknow	18	144	66	-55	-86
Ballia	26	34	-33	-90	134	Maharajganj	-36	11	-94	-99	16
Balrampur	137	142	-96	-94	-47	Mau	-37	8	-14	-95	-77
Banda	-25	-57	15	-84	-24	Mirzapur	-17	-58	-29	-68	**
Barabanki	-36	16	37	-88	24	Pratapgarh	-74	-22	58	-44	-20
Basti	90	93	31	-66	69	RaiBareilly	-81	-28	-23	-96	-25
Deoria	-6	-94	-76	**	**	Sahuji Maharaj Nagar	-63	**	**	**	-6
Faizabad	44	124	-38	-52	**	Sant Ravidas Shrawasti	-75	51	-77	**	-97
Farrukhabad	9	211	-22	-45	-23	Sidharthnag	178	4	-59	-44	-51
Fatehpur	-70	-41	5	-94	-54	Sitapur	56	229	-73	-50	-8
Gazipur	52	-45	44	-96	-82	Sonbhadra	112	197	78	-64	91
Gonda	15	-51	-60	-83	-9	Sultanpur	-15	-40	-90	-98	-82
Gorakhpur	204	150	-53	-93	-59	Unnao	3	58	32	-92	98
Hardoi	-33	138	**	-85	40	Varanasi	-29	48	-21	-99	-100
Jaunpur	-54	3	54	-99	-89						

Kanpur City	-10	-77	-7	-62	107						
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Sikkim

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Sikkim	5	-12	-19	-26	-4

NORTHEAST INDIA

Assam

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Barpeta	-28	**	-69	33	407	Kamrup	-21	**	-48	-66	33
Bongaigaon	18	**	-64	-41	295	Karbj Analog	-69	**	2	54	-33
Cachar	-3	**	17	106	-31	Karimganj	-32	**	-47	28	-69
Darrang	95	**	-45	-90	-61	Kokrajhar	-37	**	-61	-23	254
Dhubri	-66	**	-79	-91	-30	Lakhimpur	**	**	-61	-7	-46
Dibrugarh	31	**	-49	-8	-25	Morigaon	48	**	-2	-37	-11
East Garo Hills	-88	**	**	-62	89	N.C.Hills	**	**	**	**	**
East Khasi Hills	123	**	11	-26	83	Nalbari	11	**	-12	-55	107
Goalpara	-15	**	-43	-77	164	Nowgong	-80	**	-67	-17	-44
Golghat	-1	**	42	-48	-46	Sibsagar	49	**	-67	153	-90
Hailakandi	13	**	-55	281	42	Sonitpur	81	**	-2	40	41
Jaintia Hills	**	**	**	**	**	Tinsukia	100	**	-25	52	-70
Jorhat	132	**	-67	20	6						

Arunachal Pradesh

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Changlang	-43	**	-73	-33	-58	Tawang	-41	**	23	64	-30
Dibang Valley	**	**	**	**	**	Tirap	1	**	-25	29	-40
East Kameng	-32	**	-11	-57	33	Upper Siang	**	**	**	**	
East Slang	-34	**	-58	-12	-42	Upper Subansiri	-7	**	-48	-54	33
Lohit	22	**	-42	52	-70	West Kameng	29	**	40	176	151
Lower Subansiri	-40	**	-57	-39	29	West Stang	11	**	-87	**	65
Papumpara	294	**	-1	410	476						

SOUTH PENINSULA

TamilNadu

Districts	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16/07/08	23.07.08	30.07.08	06.08.08	13.08.08
Chennai	-81	-100	-47	-69	-75	Pudukottai	-26	117	-68	-97	-94
Coimbatore	130	168	777	253	648	Ramanathapuram	92	81	-41	-95	-100
Cuddalore	-40	28	-20	106	-99	Salem	-41	216	-5	-49	23
Dharmapuri	-27	120	-37	-81	109	Sivaganga	29	64	5	-47	-100
Dindigul	80	77	-53	-39	-84	Thanjavur	-74	173	-56	-70	-91
Erode	157	252	-86	-100	-39	Theni	-17	-62	792	71	384
Kanchipuram	-91	-17	-38	**	-76	Tirunelveli	3	-61	386	-73	496
Kanyakumari	366	-60	550	-72	179	Tiruvallur	-26	-25	23	-85	-65
Karur	-92	165	-99	-93	-99	Tiruvannamalai	-29	121	-57	-32	-93
Krishnagiri	128	170	-26	-27	-22	Tiruvarur	-66	112	-82	-66	-91
Madurai	-5	201	-94	-79	-100	Trichy	50	635	-100	-100	-99
Nagapattinam	-76	-48	-81	19	-85	Tuticorin	40	46	-100	-100	-100
Namakkal	-16	186	-67	-92	-66	Vellore	-36	22	-46	-68	-42
Nilgiris	-69	-10	137	-27	52	Villupuram	-72	-1	-54	-55	-92
Perambalur	-86	83	-99	**	-100	Virudhunagar	-85	251	-34	-100	-100
Pondicherry	-97	-91	-95	28	-94						

WEST INDIA

**Rajasthan
East Rajasthan**

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Ajmer	0	**	-32	162	95	Jaipur	36	**	-72	33	-36
Alwar	-12	**	-66	7	-9	Jhalawar	26	**	-13	-1	-30
Banswara	55	**	-2	-53	5	Jhunjhunu	-15	**	-92	184	-15
Baran	61	**	-21	27	-45	Karauli	101	**	-71	77	-55
Bharatpur	-18	**	-59	-38	-6	Kota	35	**	-42	130	-65
Bhilwara	-5	**	-10	33	-31	Rajsamand	-72	**	17	77	-28
Bundi	8	**	-25	7	-58	Sawai Madhopur	137	**	-47	60	-73
Chittorgarh	181	**	53	37	105	Sikar	35	**	-98	190	-58
Dausa	55	**	-35	83	-51	Sirohi	74	**	-49	78	-30
Dholpur	31	**	-37	5	9	Tonk	142	**	-74	74	-11
Dungarpur	-19	**	109	-54	22	Udaipur	20	**	160	22	79

West Rajasthan

District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	District	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Barmer	167	**	-31	50	62	Jalore	51	**	-29	55	64
Bikaner	67	**	-36	369	-26	Jodhpur	15	**	-68	319	-58
Churu	21	**	-74	271	83	Nagaur	20	**	-71	418	1
Hanumangarh	146	**	-95	394	0	Pali	-64	**	-59	133	84
Jaisalmer	141	**	-49	1014	13	Sri Ganganagar	88	**	-93	546	47

**CENTRAL INDIA
Chattisgarh**

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Bastar	-54	-46	**	2	-100	Kowardna	-69	79	**	-39	-75
Bilaspur	-78	-7	**	-48	-86	Korba	-24	-59	**	-39	-100
Dantewara	-81	-75	**	52	**	Koriya	-92	5	**	-98	-91
Dhamtari	-76	-54	**	-64	-100	Mahasumund	-57	-37	**	-84	-100
Durg	-90	-78	**	74	-100	Raigarh	-39	-64	**	-71	-100
Janjgir	-47	-36	**	-37	-100	Raipur	-45	26	**	-6	-96
Jashpurnagar	-15	-38	**	-56	-58	Rajandgaon	-63	-58	**	48	-100
Kanker	-80	-72	**	5	-100	Surguja	-10	-31	**	-93	-90

East Madhya Pradesh

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Balaghat	-24	-79	**	91	-91	Panna	-100	-80	**	-98	**
Chhatarpur	-54	-55	**	-6	-100	Rewa	-94	74	**	-87	-100
Chindwara	-80	-78	**	1	-55	Sagar	54	-99	**	41	-91
Damoh	2	-36	**	-32	-25	Satna	-63	-46	**	-93	-100
Dindori	-42	-35	**	22	-96	Seoni	-40	-26	**	44	-100
Jabalpur	-23	-42	**	89	-100	Shahdol	-86	-100	**	-61	**
Katni	-49	-93	**	-60	**	Sidhi	-52	28	**	**	-36
Mandla	-23	-28	**	65	-30	Tikamgarh	-37	-8	**	12	264
Narsingpur	-17	-8	**	66	-100	Umariya	4	-84	**	-75	-100

West Madhya Pradesh

Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08	Districts	16.07.08	23.07.08	30.07.08	06.08.08	13.08.08
Badwani	-74	-100	**	-79	**	Khargone	-44	-100	**	-72	-67
Betul	-63	-97	**	-33	-66	Mandsaur	155	-100	**	-6	-71
Bhind	45	-98	**	73	1	Morena	15	-77	**	1	-19
Bhopal	103	-100	**	6	27	Neemuch	182	-100	**	-7	8
Datia	83	-73	**	-49	-63	Raisen	18	-99	**	65	-79
Dewas	-37	-100	**	-24	59	Rajgarh	32	-94	**	-25	-53
Dhar	17	-100	**	-79	53	Ratlam	46	-99	**	-46	-35
Guna	-15	-82	**	8	-100	Sehore	-5	-100	**	-5	-100
Gwalior	91	-95	**	19	-12	Shajapur	60	-100	**	-85	-56
Harda	-62	-100	**	-1	-100	Sheopur Kalani	68	-100	**	99	-82
Hosangabad	-17	-99	**	75	-97	Shivpuri	-18	-89	**	34	-26
Indore	-1	-98	**	-24	-71	Ujjain	15	-100	**	-58	-54
Jhabua	73	-100	**	-65	61	Vidisha	93	-100	**	-20	-100
Khandwa	-67	-97	**	-4	-81						