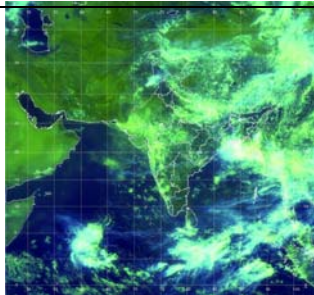




National Agromet Advisory Bulletin

Thursday, 6th August, 2009 (For the period 6th August to 10th August, 2009)



Chief Synoptic Feature (Based on 1430 hours IST observations of 6th August 2009)

- Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls is likely along the foot hills of Himalayas, northeastern states, West Bengal & Sikkim and Bihar during next 2-3 days.
- **KALPANA-1 Cloud Imagery at 1430 hours IST** shows convective clouds over parts of north & adjoining central Bay of Bengal, north Andaman Sea, West Bengal & Sikkim, northeastern states and Uttarakhand. Low/medium clouds are seen over parts of northwest, west, central, east and Peninsular India.

Salient Agromet Advisories for Farmers

In general, most of the States in Northeast, East and northern parts particularly Himachal Pradesh, Uttar Pradesh, Uttarakhand received moderate rainfall during last week. This rainfall was beneficial for the standing crops as well as sowing/transplanting of *kharif* crops in these regions. Though rainfall activity is subdued in the peninsula and parts of central India, crop condition is found to be satisfactory and farmers in the above mentioned regions are advised to apply light irrigation where the crop is facing stress condition. In the remaining parts of the country crop condition is found to be satisfactory. Brief advisory for the farmers in the country is placed below:

Andhra Pradesh: As the rainfall is not adequate in some districts of the State, different districtwise cropping strategies including sowing of short duration *kharif* crops is advised in many parts of the State. Farmers in Telangana and Rayalaseema are advised to take short duration alternate crop in those areas having sufficient soil moisture. In Rayalaseema farmers are advised to wait for sowings of rainfed groundnut till 15th August.

Assam: Continue transplanting of *sali* rice.

Arunachal Pradesh: Continue transplanting of rice.

Chhattisgarh: Farmers are advised to complete transplanting of rice.

Karnataka: Continue transplanting of rice in coastal Karnataka. Undertake sowing of short duration alternate *kharif* crops in Interior Karnataka where sufficient amount of rainfall received. In north Interior Karnataka use water from naturally available sources like ponds, wells, rivers for irrigation to already sown/transplanted *kharif* crops.

Madhya Pradesh: Farmers are advised to complete transplanting of rice. In East Madhya Pradesh farmers are advised to give light irrigation to already transplanted crops.

Bihar: Transplanting of already raised rice seedlings may be done. Farmers are advised to take sunflower, urd, til, maize and pigeon pea in upland areas in place of rice utilizing the realized rainfall.

Jharkhand: Undertake intercultural and weeding operations particularly in maize, arhar, groundnut.

Gujarat: Continue sowing of castor, jowar, maize, bajra, tur. Undertake intercultural and weeding operations.

Maharashtra: Sowing/transplanting of rice and cotton and is advised in Vidarbha. Sowing of short duration crops viz; hybrid bajra, sunflower, coriander etc. and intercropping systems (bajra + pigeon pea.) where sufficient amount of rainfall is received in Marathwada. In Marathwada apply light irrigation to already transplanted crops.

East Uttar Pradesh: Direct seeding of rice is advised with improved varieties. Select short duration varieties of alternate crops like moong, jowar, bajra, urd, pigeon pea and sesame and adopt closer spacing to compensate the yield loss.

West Uttar Pradesh: Sowing/transplanting of rice, urd, moong, groundnut and vegetables is advised.

Rajasthan: Sowing of Early maturing varieties of green gram, moth bean, cowpea and cluster bean is advised.

Punjab: Complete transplanting of rice by utilizing the realized rain.

Haryana: Complete sowing of short duration varieties of pearl millet, moong, urad, toria. Farmers are advised to conserve moisture.

New Delhi: Present weather is conducive for sowing of sweet corn and baby corn. Undertake transplanting of rice with realized rainfall.

Himachal Pradesh: Continue transplanting of vegetables and planting of horticulture crops.

Jammu & Kashmir: Continue transplanting of Basmati rice utilizing the realized and expected rainfall during next 5 days.

Nagaland Manipur Mizoram Tripura: Continue transplanting of rice. Oilseed crops like sesame, groundnut can be sown upto August end with early maturing varieties.

Sikkim: Water level of 3-4 cm should be maintained in rice field.

Tamil Nadu: Continue sowing of crops like cotton, groundnut and transplanting of rice seedlings.

Uttarakhand: Don't take new transplanting operation. Irrigate rice crop of all growth stages using the own water recourses. Farmers who could not transplant rice due to low rainfall are advised to go for sowing of urd under optimum soil moisture.

West Bengal: Complete transplanting of rice. Retting of jute may be undertaken.

Orissa: Complete sowing of green gram, black gram and urea may be applied in upland. Drain out excess water from jute field.

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

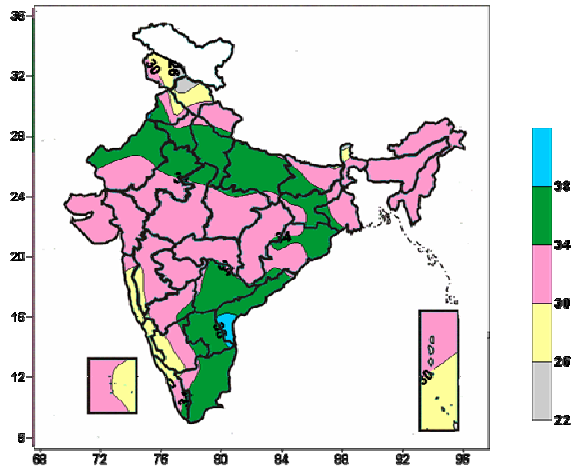
Sub-division	Cumulative Rainfall for the period									
	8 th July		15 th July		22 nd July		29 th July		5 th August	
	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.
A & N Islands	90.4	-15	93.8	-73	97.8	-17	95.1	10	87.7	29
Arunachal Pradesh	126.7	41	128.2	-75	142.1	-69	141.8	-7	99.2	-1
Assam and Meghalaya	127.7	-13	138.5	-66	121.2	-63	125.3	-10	107.3	0
NMMT	73.8	-14	85.2	-37	75.1	-32	76.7	29	71.3	10
SH West Bengal & Sikkim	137.3	9	135.6	-66	128.4	-62	137.6	4	121.6	-16
Gangetic West Bengal	72.1	-6	73.9	-33	69.4	-9	68.9	-9	79.6	19
Orissa	81.0	23	76.7	214	79.7	170	75.0	-49	91.4	-77
Jharkhand	76.7	-8	74.7	-31	78.8	-28	77.4	-34	81.3	-64
Bihar	74.8	-33	80.6	-85	78.9	-71	76.8	34	73.1	-1
East Uttar Pradesh	58.8	-47	76.2	-49	81.0	-63	66.4	10	69.0	-78
West Uttar Pradesh	51.5	-88	65.2	-23	61.7	-51	67.2	-68	63.2	-84
Uttarakhand	83.8	-79	101.1	-39	97.0	14	103.8	-1	107.6	-78
Haryana, Chandigarh & Delhi	28.4	-82	46.8	-55	41.3	-85	40.3	-34	39.7	-80
Punjab	35.8	-93	45.5	-29	44.4	-30	45.3	40	46.7	-14
Himachal Pradesh	48.6	-93	64.5	-35	72.0	-38	76.6	-22	70.4	-81
J & K	29.4	-38	38.7	-37	47.7	-16	51.9	-15	53.4	-57
West Rajasthan	20.1	-41	22.9	14	26.4	-14	24.4	18	19.4	-99
East Rajasthan	40.5	-39	51.6	0	58.5	42	55.4	-20	52.3	-99
West M. P.	63.4	-34	68.3	-1	68.4	82	77.1	-1	77.7	-99
East M. P.	83.0	-8	86.0	8	83.3	61	84.1	-70	93.4	-99
Gujarat region	85.7	-55	84.5	14	74.7	91	82.9	49	77.9	-98
Saurashtra & Kutch	48.2	-47	44.3	97	46.3	239	41.6	289	34.2	-99
Konkan and Goa	263.3	65	227.3	62	235.8	21	232.9	-9	218.7	-85
Madhya Maharashtra	57.5	16	54.5	60	54.2	53	49.3	32	52.3	-90
Marathwada	36.8	53	34.3	47	44.9	-26	54.6	-83	47.8	-99
Vidarbha	75.4	13	76.9	30	70.3	22	74.8	-53	78.2	-99
Chhattisgarh	91.3	-9	86.1	96	88.7	37	92.8	-53	96.9	-95
Coastal A. P.	35.8	-17	30.1	-4	36.2	-33	41.3	-93	33.5	-67
Telangana	47.6	-46	45.6	8	58.4	-49	64.9	-92	57.0	-99
Rayalseema	16.5	-80	17.0	-79	22.4	-87	25.9	-94	21.1	-67
TamilNadu & Pondicherry	14.5	-12	15.5	-34	16.3	9	19.1	-86	14.6	68
Coastal Karnataka	274.6	124	253.3	46	289.0	26	257.4	-39	230.2	-27
N. I. Karnataka	23.6	-12	26.4	73	30.4	7	32.7	-82	29.3	-80
S. I. Karnataka	56.8	68	49.0	70	50.2	127	48.1	-45	45.6	-3
Kerala	203.5	24	170.6	-13	165.3	93	157.5	-62	117.7	-22
Lakshadweep	60.8	169	63.7	-74	65.5	-34	69.4	-92	45.3	-74

The subdivisions like West Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh and Raylaseema received scanty / deficient rain in all the 5 weeks; Jharkhand, East Uttar Pradesh, Telangana and Lakshdweep received scanty / deficient rain in 4 out of last 5 weeks; Bihar, Uttarakhand, Punjab, Jammu & Kashmir, East Rajasthan, Marathwada, Coastal Andhra Pradesh and Lakshadweep received scanty / deficient rain in 3 out of last 5 weeks. Remaining States received normal / excess rain in 2 or more weeks during last 5 weeks.

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

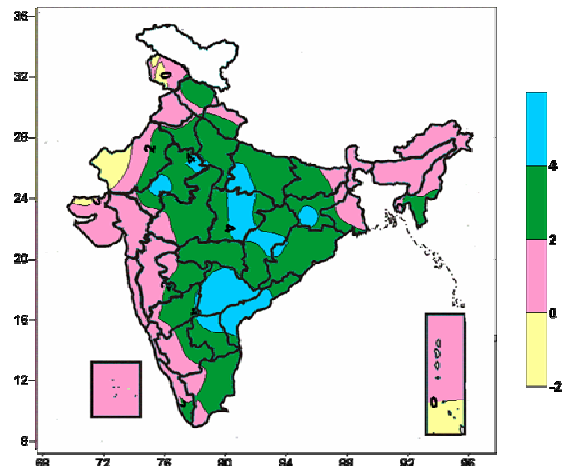
Contour maps for the week ending 05.08.09

Actual Mean Maximum Temperature (°C) in India for the week ending 05.08.09



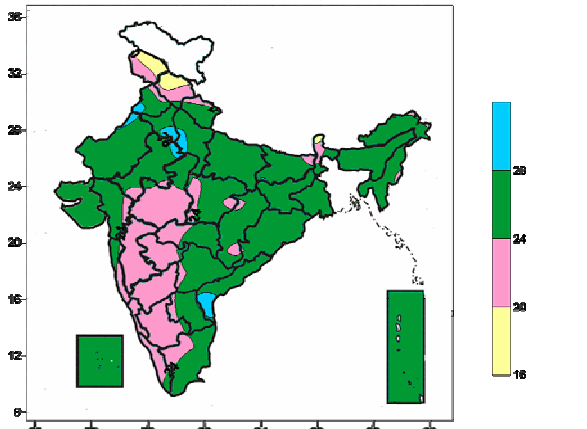
Actual Mean Maximum temperature ranged between 38⁰C and above over some parts of Coastal Andhra Pradesh, Rayalaseema, 34 to 38⁰C over most parts of Haryana, Uttar Pradesh, Jharkhand, Andhra Pradesh, Tamil Nadu, some parts of Uttarakhand, Punjab, Rajasthan, Bihar, Madhya Pradesh, Gangetic West Bengal, Orissa, South & North Interior Karnataka, Kerala, 26 to 30⁰C over most parts of Coastal Karnataka, Konkan & Goa, some parts of Jammu & Kashmir, Himachal Pradesh, Punjab, Sikkim, Kerala, South & North Interior Karnataka, Lakshadweep, Andamana & Nicobar Island, 22 to 26⁰C Jammu & Kashmir, Himachal Pradesh, 30 to 34⁰C over remaining parts of the country.

Maximum Temperature (°C) Anomaly in India for the week ending 05.08.09



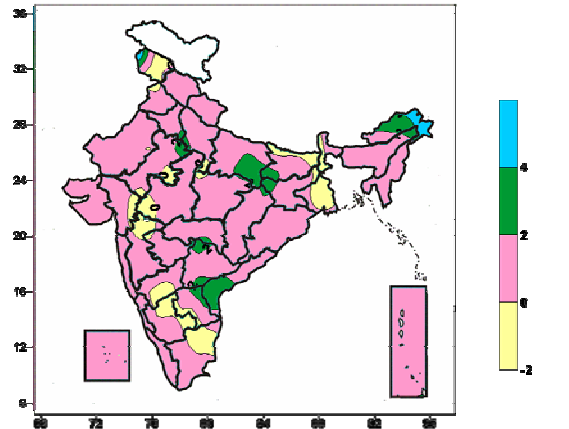
Actual Mean Maximum temperature anomaly ranged between 4⁰C and above over most parts of Coastal Andhra Pradesh, Uttar Pradesh, Telengana, some parts of East Rajasthan, Uttar Pradesh, Jharkhand, Chattisgarh, Orissa, Rayalaseema, 0 to 2⁰C most parts of Jammu & Kashmir, Punjab, West Bengal, Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipuir, Tripura, Konkan & Goa, Madhya Maharashtra, Gujarat, Saurashtra & Kutch, Coastal Karnataka, South Interior Karnataka, Kerala, Lakshadweep, Andaman & Nicibar Island, some parts of Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Rajasthan, Marathwada, West Madhya Pradesh, North Interior Karnataka, Tamil Nadu, -2 to 0⁰C some parts of Jammu & Kashmir, West Rajasthan, Saurashtra & Kutch, Andaman & Nicobar Islands, 2 to 4⁰C over remaining parts of the country.

Actual Mean Minimum Temperature (°C) in India for the week ending 05.08.09



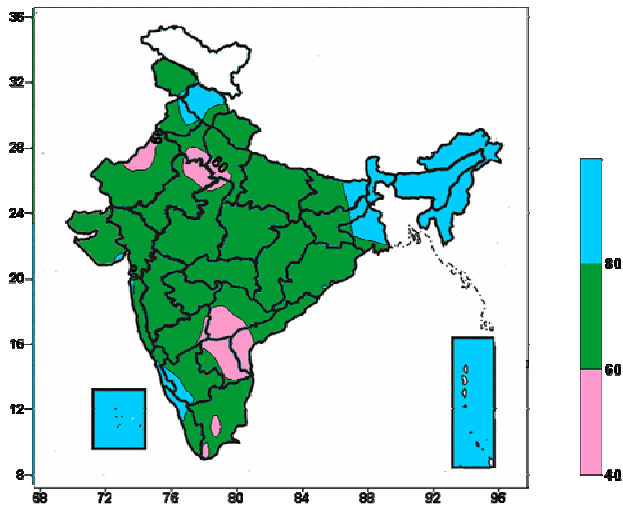
Actual Mean Minimum Temperature ranged between 28⁰C and above over some parts of Punjab, Haryana, Delhi, West Uttar Pradesh, Rajasthan, Costal Andhra Pradesh, 20 to 24⁰C over most parts of Goa, Madhya Maharashtra, Marathwada, West Madhya Pradesh, Kerala, Karnataka, some parts of Jammu & Kashmir, Himachal Pradesh, Punjab, Uttarakhand, East Rajasthan, Bihar, Sub-Himalayan West Bengal, Sikkim, Arunachal Pradesh, Manipur, Orissa, Vidarbha, East Madhya Pradesh, Chattisgarh, Konkan, Gujarat, Tamil Nadu, 16 to 20⁰C over some parts of Jammu & Kashmir, Himachal Pradesh, Sikkim, 24⁰C to 28⁰C over remaining parts of the country.

Minimum Temperature (°C) Anomaly in India for the week ending 05.08.09

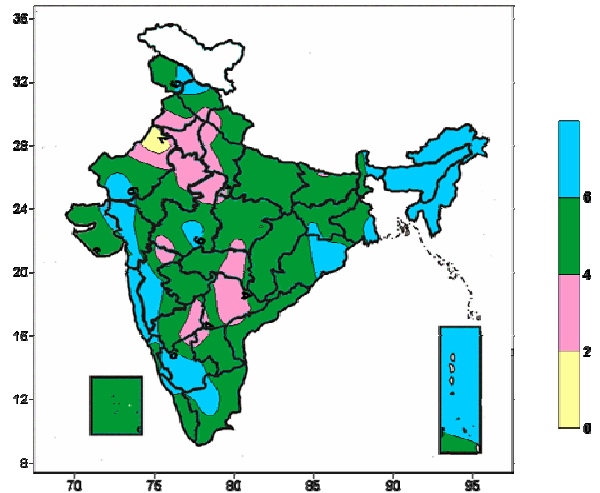


Minimum Temperature anomaly ranged between 4⁰C and above over some parts of Jammu & Kashmir, Arunachal Pradesh, 2 to 4⁰C over some parts of Jammu & Kashmir, Haryana, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Arunachal Pradesh, Assam, Vidarbha, Andhra Pradesh, -2 to 0⁰C over some parts of Jammu & Kashmir, Punjab, West Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal, Sikkim, Gujarat, Madhya Maharashtra, Marathwada, Madhya Pradesh, Rayalaseema, Tamil Nadu, South & North Interior Karnataka, 0 to 2⁰C over remaining parts of the Country.

Relative Humidity (%) over India for the week ending 05.08.09



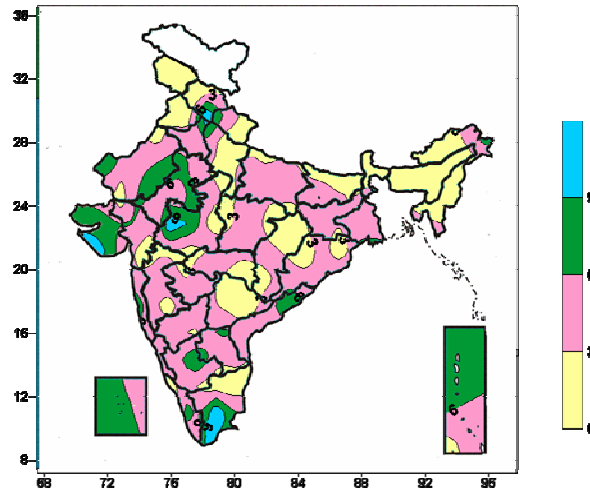
Cloud amount (okta) over India for the week ending 05.08.09



Relative humidity more than 80% over most parts of Himachal Pradesh, West Bengal, Sikkim, Northeast India, Lakshdweep, Andaman & Nicobar Islands, some parts of Punjab, Bihar, Jharkhand, Coastal Karnataka, South Interior Karnataka, 40 to 60% over most parts of Rayalaseema, some parts of Rajasthan, Haryana, West Uttar Pradesh, West Madhya Pradesh, North Interior Karnataka, Telengana, Coastal Andhra Pradesh, Tamil Nadu, 60 to 80 % over remaining parts of the country.

Cloud amount 6 okta and above over most parts of Northeast India, Gujarat, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka, Andaman & Nicobar Islands, some parts of Jammu & Kashmir, Himachal Pradesh, West Rajasthan, Jharkhand, West Bengal, Orissa, Saurashtra & Kutch, West Madhya Pradesh, Coastal & North Interior Karnataka, Kerala, Tamil Nadu, 2 to 4 okta over most parts of Haryana, Delhi, Telengana, some parts of Punjab, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Bihar, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Vidarbha, Andhra Pradesh, Interior Karnataka, 0 to 2 okta over some parts West Rajasthan, 4 to 6 okta over remaining parts of the country.

Wind speed (knots) over India for the week ending 05.08.09



Wind speed ranged between 9 knots and above over some parts of Himachal Pradesh, West Madhya Pradesh, Saurashtra & Kutch, Tamil Nadu, 6 to 9 knots over most parts of Saurashtra & Kutch, Lakshdweep, Andaman & Nicobar Islands, some parts of Punjab, Haryana, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Rajasthan, Arunachal Pradesh, Gujarat, West Madhya Pradesh, Konkan, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Kerala, Tamil Nadu, 0 to 3 knots over most parts of Jammu & Kashmir, Punjab, Sub-Himalayan West Bengal, Sikkim, Northeast India, Telengana, some parts of Himachal Pradesh, Uttarakhand, West Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Orissa, Madhya Pradesh, Chattisgarh, Gujarat, Madhya Maharashtra, Marathwada, Vidarbha, Rayalaseema, Interior Karnataka, Kerala, Tamil Nadu, Andaman & Nicobar Island. 3 to 6 knots over remaining parts of the country.

Zonewise Agromet Advisories

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

Himachal Pradesh

- **Realised Rainfall:** Many districts received rainfall during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Chamba	-95	-69	-34	-80	-100
Kullu	-90	-23	-39	-57	-66
Lahaul and Spiti	-94	-42	-72	-68	-97
Mandi	-84	-24	-69	-44	-73
Shimla	-89	**	-85	-35	-90
3 weeks continuously deficient to no rain					
Kinnaur	-86	208	-77	-60	-98
Sirmaur	-95	11	-64	-27	-92
Week by week rainfall distributions for the remaining districts of the State					
Bilaspur	-99	-19	-11	167	-37
Hamirpur	-100	-54	25	62	-57
Kangra	-93	-59	10	5	-73
Solan	-96	-69	-63	48	-79
Una	-100	-62	103	187	-42

- **Rainfall Forecast:** Many places during next 48 hours and decrease thereafter.
- **Major Kharif Crops:** Rice, Vegetables
- **Crop Stage:** Sowing, transplanting
- **Crop Condition:** Good.
- **Advisory:**
 - Transplanting solanaceous vegetable crops may be taken up with realized rainfall.
 - Farmers are advised for drainage in already sown maize and soybean fields.
 - Complete sowing of bhindi and ginger
- **Major Seasonal Crop:** Fruit crops, Flower crops and Vegetables
 - Undertake weeding, intercultural operations and top dressing of fertilizers after current spells of rain.
 - It is optimum time for plantation of evergreen plants like Mango, litchi, guava, citrus, loquat and amla
 - Farmers are also advised to arrange the staking in vegetable crops to avoid the damage.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - leaf minor in new growth of citrus, spray 10 ml Matasystox or Malathion 10 ml in 10 litre of water. The new growth appearing below bud union may be cut.
 - Undertake spraying after current spells of rain.

Uttarakhand

- **Realised Rainfall:** Most districts of Uttarakhand received good rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Garhwal Tehri	-99	-73	-37	-62	-90
Nainital	-98	-46	-73	-22	-97
Rudraprayag	-94	-69	-46	-47	-91
Udham Sing Nagar	-100	-55	-84	-45	-88
2 weeks continuously deficient to no rain					
Almora	-74	-42	9	-66	-91
Week by week rainfall distributions for the remaining districts of the State					
Chamoli	-42	-35	23	14	-91

Champawat	-95	-3	70	-15	-90
Dehradun	-67	-77	-26	27	-63
Garhwal Pauri	-99	-63	-12	44	-59
Haridwar	-98	-67	124	101	-68
Pithorgarh	-70	-35	2	-17	-57
Uttarkashi	-61	35	176	29	-83

- **Rainfall Forecast:** Many places during next 48 hours and at a few places thereafter.
- **Major Kharif Crops:** Rice, Soyabean, Groundnut, Tur, mung, sesame.
- **Crop Stage:** Transplanting
- **Crop Condition:** Good
- **Advisory:**
 - Complete transplanting of rice seedlings.
 - Undertake sowing of mung and sesame and transplanting of vegetable with realized rainfall.
- **Major Seasonal Crop with stage:** Sugarcane ratoon (early vegetative), cabbage, garlic, tomato (vegetative), maize, French bean (early vegetative)
- **Crop Condition:** Good
- **Advisory:** Apply weeding and intercultural operation after current spells of rain.
 - Undertake planting of mango, litchi, guava, citrus, loquat and amla and sowing of annual flower crops.
 - Farmers are advised to postpone irrigation to the standing crops as there was good rainfall in most of the districts during last week.
- **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - khaira disease in rice in valleys, if appears in the crop under irrigation, farmers are advised to spray the solution of 5 kg zink sulphate and 20 kg urea in 1000 litre of water/ per hectare for control of the said disease.
 - Undertake spraying of pesticides after current spells of rain

Punjab

- **Realised Rainfall:** Many districts of Punjab received good rainfall
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Amritsar	-100	-24	-68	-52	-92
Fatehgarh Sahib	-100	-48	-88	-76	-68
Ferozpur	-97	-88	-100	-72	-75
Muktesar	-69	-56	-100	-84	-26
3 weeks continuously deficient to no rain					
Bhatinda	-88	47	-84	-22	-21
Week by week rainfall distributions for the remaining districts of the State					
Faridkot	-100	-14	-100	-100	147
Gurdaspur	-100	-77	60	-13	11
Hoshiarpur	-99	-64	-16	190	-51
Jalandhar	-95	-49	-80	245	113
Kapurthala	-92	-20	127	226	-21
Ludhiana	-61	-3	-26	136	91
Moga	-100	-4	-100	-17	-6
Nawashahar	-95	-65	-20	54	100
Patiala	-95	-59	-53	34	-6
Ropar	-98	-55	91	63	-36
Sangrur	-95	117	-4	49	-55

- **Rainfall Forecast:** few places.
- **Major Kharif Crops:** Rice, maize, guar, til, urd, bajra, cowpea, cotton,
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition:** Rice crop is in satisfactory condition.

- **Advisory:** Complete transplanting of rice(basmati varieties) and sowing of maize, til, urd, guar, bajra may be continued.
- **Major Seasonal Crop with stage:** Sugarcane and Vegetables
- **Advisory:** Undertake weeding, intercultural operations in sugarcane and cotton on a non rainy day.
 - Undertake planting of planting of evergreen fruit trees like mango, litchi, guava, ber, papaya etc.
 - *Kharif* fodder like guinea grass and Napier bajra grass sowing at regular intervals may be continued for continuous supply of sufficient green fodder. Undertake sowing of non-legume fodders in mixture with legume fodders like cowpea and guara where adequate rainfall was received.
 - Farmers are advised to postpone irrigation to the standing crops as there was good rainfall in most of the districts during last week.
- **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - fruit borer of brinjal and okra. Spray sevin/hexavin 50 WP @ 800 g for brinjal and 500 g for okra in 100-125 litre water per acre
 - jassid in cotton, spray the crop with 40 ml of Confidor 200 SL or 40 g Actara 25 WG in 100 litres of water per acre after 1-2 days
 - hispa and leaf folder in rice crop, spray Monocil @ 560 ml or Chlorpyriphos @ 1000 ml by dissolving in 100 lts. of water per acre
 - Undertake spraying on a non rainy day.

Haryana

- **Realised Rainfall:** Many districts of Haryana received deficient/scanty rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Bhiwani	-68	-32	-97	-62	-88
Faridabad	-69	-80	-100	-61	-97
Gurgaon	-21	-94	-83	-46	-96
Hissar	-84	-52	-96	-58	-94
Karnal	-88	-49	-100	-50	-66
Mahendragarh	-96	-54	-97	-75	-100
Panchkkula	-100	-73	-79	-33	-82
Panipat	-89	-45	-100	-72	-100
Rohtak	-86	-77	-69	-26	-99
Sirsa	-93	-64	-99	-92	-100
3 weeks continuously deficient to no rain					
Fatehabad	-96	-11	-61	-87	-84
Rewari	-44	-9	-100	-98	-100
Yamunanagar	-98	-7	-55	-45	-64
Week by week rainfall distributions for the remaining districts of the State					
Ambala	-80	-67	-61	14	-74
Chandigarh	-97	-74	-48	94	-29
Jhajar	-65	-49	-77	18	-82
Jind	-75	-30	-100	23	-84
Katihah	-100	-76	-33	-38	-14
Kurukshetra	-90	-90	-91	-74	-12
Sonepat	-95	-50	-87	59	-71

- **Rainfall Forecast:** Isolated places
- **Major Kharif Crops:** Rice, maize, guar, bajra, cotton
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition:** Sowing of rainfed crops could not be completed due to insufficient rainfall in Southern Haryana. Northern Haryana is mainly having irrigation facility. Sowing of Bajra, Pulses is continued.
- **Advisory:** Farmers are advised to apply life saving irrigation to already transplanted rice in south Haryana due to insufficient rain.

- Farmers are advised to conserve the moisture in the already sown standing crops by intercultural operations.
- Farmers are advised to undertake sowing of short duration varieties of pearl millet, moong and urad where adequate rainfall received.
- **Major Seasonal Crop with stage:** Spring sugarcane (early vegetative/vegetative), vegetable crops (vegetative), cotton(early vegetative) and berseem (vegetative)
- **Crop Condition:** Satisfactory
- **Advisory:**
 - Undertake hoeing and weeding and apply the remaining dose of nitrogen fertilizer to the sugarcane.
 - Farmers are advised to apply irrigation to the standing crops as there was no significant rainfall in most of the districts during last week.
 - Farmers are advised to undertake weeding and hoeing in cotton and intercultural operations in tomato, onion and chilli.
- **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - jassid in cotton crop, spray the crop with recommended insecticide by the University if there is incidence of jassid

Delhi

- **Realised Rainfall:** Rainfall received in the State.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
New Delhi	-92	-94	-89	84	-95

- **Rainfall Forecast:** few places.
- **Major Kharif Crops:** Maize, vegetables and rice
- **Crop Stage:** Sowing, transplanting
- **Crop Condition:** Satisfactory
- **Advisory:** Present weather is conducive for sowing of sweet corn varieties like Madhuri, vin orange and baby corn varieties like H. M. 4 and also blackgram, greengram, cowpea and guar can be done up to second week of August. Undertake transplanting of rice with realized rainfall. Sowing of sweet corn may be completed before 15th August.
 - Farmers, who are interested in sowing of direct seeding of rice are advised to go for sowing of recommended cultivars like PRH-10 or PS-5
- **Major Seasonal Crop with stage:** Vegetables (flowering / fruiting / harvesting),
- **Crop Condition:** Good
- **Advisory:** During this week farmers are advised to do intercultural operation in vegetable crops. Present weather conditions are highly favourable for nursery preparation of mid-season cauliflower and short duration radish (Pusa Desi), spinach and onion.

Uttar Pradesh

- **Realised Rainfall:** Many districts of Uttar Pradesh received moderate rainfall.
- **Rainfall distribution for last 5 weeks**

East Uttar Pradesh					
State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Allahabad	-47	**	-39	-57	-95
Ballia	-67	-99	-82	-27	-78
Deoria	-17	-96	-98	-64	-96
Fatehpur	-42	-57	-98	-80	-92
Gazipur	-5	-84	-67	-47	-98
Kushi nagar	-83	-99	-100	-50	-58
Mau	-22	-100	-99	-63	-86
Unnao	-100	-32	-91	-22	-73

3 weeks continuously deficient to no rain					
Banda	-35	-10	-65	-94	-97
Farrukhabad	-100	-13	-66	-71	-96
Kanpur City	-77	52	-86	-84	-97
Kanpur Dehat	-82	-18	-81	-98	-89
2 weeks continuously deficient to no rain					
Mirzapur	-26	-43	6	-76	-100
Sant Ravidas Nagar	89	-47	6	-38	-100
Week by week rainfall distributions for the remaining districts of the State					
Ambedkar Nagar	-90	-100	-86	-11	-80
Azamgarh	7	-37	-94	18	-100
Bahraich	-59	-41	-33	27	-32
Balrampur	-96	-84	-99	136	-75
Banda	-35	-10	-65	-94	-97
Barabanki	-96	27	-71	139	-74
Basti	-55	-90	-68	15	-72
Faizabad	-27	-81	-91	65	-88
Gonda	-15	-58	-92	47	-79
Gorakhpur	264	-80	-23	46	-77
Hardoi	-95	-79	-67	84	-64
Jaunpur	-90	-15	-79	45	-93
Kheri	-87	-43	-46	-7	-59
Lucknow	-18	-48	-87	12	-20
Pratapgarh	-3	33	-11	55	-91
RaiBareilly	-91	-24	-75	-13	-86
Shrawasti	-99	-83	-33	57	-28
Sidharthnagar	-54	-72	-24	79	-7
Sitapur	-90	16	-91	66	-73
Sonbhadra	20	-60	18	-8	-100
Sultanpur	-75	-71	-91	169	-70
Varanasi	-38	-63	-30	32	-100
West Uttar Pradesh					
State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Agra	-91	-43	-58	-87	-100
Aligarh	-99	-70	-100	-56	-96
Etah	-95	-56	-95	-78	-98
Jotirba Phule Nagar	-100	-28	-100	-84	-44
Mahamaya Nagar	-77	-87	-98	-96	-95
Mainpuri	-100	-31	-56	-98	-100
Meerut	-81	-57	-96	-66	-66
Muzzaffarnagar	-100	-75	-94	-90	-60
Rampur	-99	-65	-92	-72	-98
3 weeks continuously deficient to no rain					
Badaun	-100	52	-86	-51	-71
Etawah	-93	32	-62	-97	-92
Firozabad	-100	12	-87	-84	-100
Hamirpur	-50	117	-42	-97	-99
Shahjahanpur	-100	-15	-99	-34	-80
2 weeks continuously deficient to no rain					
Bijnor	-100	-57	6	-64	-79
Jalaun	-96	23	-2	-100	-96
Jhansi	-85	43	40	-99	-100
Lalitpur	-40	28	-3	-94	-100
Mathura	-50	-65	-6	-99	-100
Moradabad	-100	-45	41	-68	-92
Saharanpur	-98	-50	-19	-82	-79

Week by week rainfall distributions for the remaining districts of the State					
Auraiya	-95	11	-12	-99	-90
Baghpat	-89	-19	-20	25	-28
Bareilly	-99	-17	-89	4	-79
Bulandsahar	-78	-67	-90	-15	-92
Ghaziabad	-100	-73	-91	-57	-11
Pilibhit	-100	-77	-98	-4	-71

- **Rainfall Forecast:** Many places in North U.P. and isolated in the remaining areas.
- **Major Kharif Crops: East UP:** Rice, mung, jowar, bajra.
- **West UP:** Rice, groundnut, urd, mung and vegetables
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition:**
- **East UP:** Crop sowing has been affected due to insufficient rain
- **West UP:** Crop sowing has been affected due to insufficient rains.
- **Advisory:** Direct seeding of rice is advised with improved varieties. Select short duration varieties of alternate crops like moong, jowar, bajra, urd, pigeon pea and sesame and adopt closer spacing to compensate the yield loss.
- **Advisory for West UP:** Sowing/transplanting of rice, urd, mung, groundnut and vegetables is advised.
 - Complete transplanting of the rice seedling
- **Major Seasonal Crop with stage:** Sugarcane (vegetative) and vegetables (vegetative/fruited), mango (fruit setting)
- **Crop Condition: Good**
- **Advisory**
 - Undertake weeding, intercultural operations and application of fertilizers in the standing crops like sugarcane, vegetables and mentha after current spells of rain in north U.P
 - Continue field preparation and planting of turmeric and ginger
 - Apply irrigation to the crops.

J & K

- **Realised Rainfall:** Good rainfall in few districts.
- **Rainfall Forecast:** few places

State/Districts	22.07.09	29.07.09	05.08.09
Anantnag	-44	76	-83
Doda	-75	36	-78
Jammu	127	-55	35
Kathua	-4	-10	-59
Kupwara	72	-37	-90
Ladakh(Leh)	-100	-92	-100
North Baramula	-61	30	-83
Pulwama	-86	147	-49
Srinagar	-74	12	-93
Udhampur	-31	-57	-73

- **Major Kharif Crops:** Rice, maize, vegetables
- **Crop Stage:** Sowing, transplanting
- **Crop Condition:** Satisfactory
- **Advisory:** Farmers are advised to transplanting of late varieties of rice.
- **Major Seasonal Crop with stage: Vegetables** (vegetative to fruited)
- **Crop Condition:** Good
- **Advisory:** In the intermediate lower zone nursery sowing of cabbage and early cauliflower may be done, whereas in intermediate higher zone, sowing of carrot and nursery sowing of knol khol may be done.
 - Undertake harvesting of matured vegetable crops like brinjal, tomato, bhindi.
- **Plant Protection:** Apply phorate 10G @ 10 kg/ha or carbofuron 3G @ 20 kg/ha for control of root weevil and thread worms in rice on a non rainy day

Rajasthan

- **Realised Rainfall:** Most districts received poor rainfall in both the sub-divisions
- **Rainfall distribution for last 5 weeks**

Rajasthan					
State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
East Rajasthan					
Alwar	-19	-32	-29	-26	-97
Jaipur	-58	-28	-25	-73	-100
Karauli	-91	-53	-62	-73	-100
Sawai Madhopur	-74	-38	-37	-89	-100
West Rajasthan					
Hanumangarh	-17	-33	-92	-44	-100
3 weeks continuously deficient to no rain					
East Rajasthan					
Dholpur	-76	30	-43	-97	-100
Jhunjhunu	-53	26	-82	-73	-100
Sikar	-64	-5	-80	-80	-100
West Rajasthan					
Churu	-1	-11	-84	-23	-100
Nagaur	-61	-11	-48	-82	-100
2 weeks continuously deficient to no rain					
East Rajasthan					
Ajmer	-10	19	18	-57	-100
Bhilwara	-22	8	53	-27	-100
Bundi	-46	-32	88	-87	-100
Dausa	-73	-51	4	-59	-100
Jhalawar	-48	48	125	-29	-100
Kota	55	6	93	-53	-100
Tonk	-86	11	36	-68	-100
Week by week rainfall distributions for the remaining districts of the State					
East Rajasthan					
Banswara	-76	-28	115	65	-99
Baran	10	-43	50	-81	-100
Bharatpur	-6	-30	-16	31	-96
Chittorgarh	34	13	94	37	-99
Dungarpur	-60	-44	366	121	-100
Rajsamand	-22	109	101	56	-100
Sirohi	-80	7	162	98	-98
Udaipur	-83	75	184	142	-99
West Rajasthan					
Barmer	-95	82	60	182	-100
Bikaner	87	119	13	2	-100
Jaisalmer	-76	-24	-53	49	-100
Jalore	-98	8	44	19	-99
Jodhpur	-47	-33	-4	2	-100
Pali	-66	22	83	20	-99
Sri Ganganagar	140	54	-92	10	-100

- **Rainfall Forecast:** Isolated places in both the sub-divisions in Rajasthan.
- **Major Kharif Crops:**
- **East Rajasthan:** Cowpea, bajra, maize
- **West Rajasthan:** Pearl millet, sorghum, maize, cluster bean, Sesamum, Pigeonpea, Groundnut
- **Crop Stage:** Sowing
- **Crop Condition:** Satisfactory

- **Advisory: East Rajasthan:** Continue sowing of cowpea, sesame and bajra. Sow early maturing improved sesame varieties like RT125, RT 127 and RT 46. In case of late sowing prefer early maturing varieties of green gram, moth bean, cowpea, clusterbean and sesame instead of millets. Intercrop early maturing varieties of pearl millet with early maturing varieties of greengram, mothbean, cowpea, clusterbean and sesame.
- **West Rajasthan :** Continue sowing of *kharif* crops (Pearl millet, sorghum, cowpea, soybean, urd, Sesamum, Pigeonpea, Groundnut).
- **Major Seasonal Crop with stage:** vegetable crops (flowering / fruiting / harvesting)
- **Crop Condition: Good**
- **Advisory:** Undertake intercultural operations in bajra, jowar, sweet gourd, cucumber, pumpkin, bitter gourd, tinda, tomato and ladies finger
- **Plant Protection:** Spray Malathion 50 EC @ 1.0 ml or Endosulfan 35 EC @ 1.5 ml per litre water to control mango hopper in mango tree
 - Spray Karathane @ 1 ml or Sulphur Fungicide @ 2.5 g / litre of water to control .powdery mildew in mango and vegetables
 - Spray Endosulphan @ 2 ml per litre of water to control fruit borer in tomato, brinjal and bhindi in Banswara.

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

Bihar

- **Realised Rainfall:** Most of the districts of Bihar received good rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Bhojpur	-55	-97	-96	-48	-98
Nalanda	-60	-86	-46	-49	-92
Patna	18	-84	-85	-41	-88
Vaishali	-75	-98	-97	-86	-100
Week by week rainfall distributions for the remaining districts of the State					
Araria	9	-98	-72	-20	72
Aurangabad	-60	-64	16	7	-98
Begusarai	-96	-46	-41	27	-77
Bhabua	-85	**	-49	90	-100
Bhagalpur	-28	-62	-54	183	72
Buxar	-77	-89	61	-14	-99
Darbhanga	-37	-95	-84	123	133
East Champaran	-33	-90	-96	123	60
Gaya	29	-77	-78	2	-98
Gopalganj	-57	-100	-89	116	-53
Jhanabad	**	**	-49	9	-100
Jamui	-55	-93	-73	40	-98
Kathihar	-60	-89	-84	-5	88
Khagadia	-60	-79	-14	40	-29
Kishanganj	-94	**	-96	-70	-68
Madhepura	**	-99	-94	-37	212
Madhubani	-41	-93	-65	191	121
Monghyar	36	-67	53	32	-53
Muzaffarpur	-13	-91	-92	6	-8
Purnea	35	-78	-76	86	64
Rohtas	**	-41	-72	16	-95
Saharsha	-49	-98	-76	39	251
Samstipur	-79	-72	-61	34	-18
Saran	**	-100	-96	9	-93
Sitamarhi	-35	-100	-99	26	141
Siwan	-81	-100	-87	-50	-73

Supaul	-99	-100	-74	88	110
West Champaran	21	-84	-88	68	107

- **Rainfall Forecast:** Many places with heavy rainfall at isolated places
- **Major Kharif Crops:** urd, sunflower, maize and pigeon pea
- **Crop Stage:** Sowing/transplanting
- **Crop Condition: Good**
- **Advisory**
 - Farmers are advised to continue sowing of contingent crops like tur pigeon pea in upland areas in place of rice. Utilising the realized rainfall, farmers are advised to do paddy transplanting only in medium and low land situations.
 - Farmers are advised to sow maize, lobia and jowar as green fodder crops in upland situations.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth), fodder maize, jowar, lobia and sudan grass (vegetative)
- **Crop Condition:** Satisfactory
- **Advisory:**
 - Undertake intercultural operations, application of fertilizers after current spells of rain.
 - Postpone irrigation to the standing crops as there was good rainfall in most of the districts during last week and rainfall at many places with heavy rainfall at isolated places is likely in the State.
- **Plant Protection:** Weather conditions are favourable for mild incidences of
 - top borers in sugarcane. Apply Carbafulan 3G@33 kg per hectare in the affected crops after current spells of rain.
 - Stem borer in maize, apply Furaton 3G @ 3 to 4 grains per plant after current spells of rain.

Jharkhand

- **Realised Rainfall:** Few districts received sufficient amount of rainfall and districts like Godda, Koderma, Palamau received no rainfall during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Koderma	**	-87	-28	-76	-100
3 weeks continuously deficient to no rain					
Bokaro	-40	-5	-66	-33	-95
Godda	**	**	-31	-63	-100
Pakur	**	**	-59	-100	-77
Ranchi	29	33	-23	-72	-29
2 weeks continuously deficient to no rain					
Dhanbad	26	-54	-19	-29	-35
Hazaribagh	-19	-40	24	-62	-98
Lohardagga	**	-93	1	-60	-96
Week by week rainfall distribution for the remaining districts of the State					
East Singbhum	25	92	-25	32	-64
Giridih	-24	-74	-43	-66	38
Gumla	**	**	-13	-8	-85
Palamau	-5	-26	-15	-15	-99
Sahebganj	**	**	**	**	**
Santhal Parganas	-17	-38	-75	-38	-10
West Singbhum	**	-92	-22	-7	-74

- **Rainfall Forecast:** few places during next 48 hours and increase thereafter
- **Major Kharif Crops:** Maize, Arhar, Til, Ragi, Vegetables
- **Crop Stage:** Sowing
- **Crop Condition:** Satisfactory

- **Advisory:** In medium and low land where water stagnation is not possible, go for direct seeding of rice/maize if having at least one or two irrigation facilities.
 - Undertake intercultural and weeding operations particularly in maize, arhar, groundnut.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth),
- **Crop Condition: Good**
- **Advisory:** Farmers are advised to undertake weeding, intercultural operations in sugarcane after current spells of rain.
 - Undertake planting of mango variety like Mallika, Amrapali, Langra, Himsagar in the pits already filled with soil and manures.
 - Undertake transplanting of brinjal, chilly, tomato utilizing the realized rainfall.

Orissa

- **Realised Rainfall:** Many of the districts received rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
2 weeks continuously deficient to no rain					
Angul	70	177	244	-94	-90
Balasore	-77	116	112	-32	-59
Bargarh	155	246	325	-66	-99
Bhadrak	-39	252	310	-52	-51
Bolangir	9	247	213	-88	-94
Boudh	107	373	218	-62	-96
Cuttack	159	288	204	-28	-83
Deogarh	33	30	91	-94	-88
Dhenkanal	69	291	315	-89	-93
Gajapati	26	147	149	-90	-75
Ganjam	15	355	146	-81	-61
Jagatsingpur	205	217	315	-87	-26
Jajpur	-3	171	178	-66	-84
Jharsuguda	115	-8	101	-50	-80
Kandhamal	-3	386	309	-61	-94
Kendrapara	39	251	535	-55	-59
Keonjhar	-5	315	142	-80	-60
Khurda	29	342	172	-91	-83
Koraput	-51	202	87	-25	-84
Malkangiri	-38	75	10	-54	-82
Mayurbhanj	21	142	38	-46	-72
Nawapara	33	263	304	-32	-96
Nayagarh	-6	564	369	-59	-65
Puri	45	254	319	-75	-75
Rayagada	37	144	77	-45	-91
Sambalpur	-12	107	154	-89	-96
Sonepur	127	318	351	-84	-91
Sundargarh	8	10	78	-51	-67
Week by week rainfall distribution for the remaining districts of the State					
Kalahandi	-22	325	257	102	-55
Nawarangpur	-21	130	33	71	-38

- **Rainfall Forecast:** Many places over North Orissa and few places over the rest region during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, ragi, arhar, maize, green gram, blackgram
- **Crop Stage:** Satisfactory
- **Crop Condition:** Transplanting is continued.
- **Advisory:** Complete transplanting of rice.
 - Go for bushening of direct sown paddy in medium and low land at 21 days stage. Apply 16 kg nitrogen per acre at bushening followed by weeding and gap filling. Drain out the excess water at the time of fertilizer

application and pond it again after one day. If basal dose fertilizer not applied, apply 18 kg Urea, 100 kg SSP and 26 kg MOP while bushening followed by top dressing of 35 kg Urea after 7 to 10 days.

- Complete sowing of vegetables like lady's finger, cowpea and cluster bean and raise vegetable nurseries for cauliflower, brinjal, tomato and chillies in uplands.
- Complete sowing of green gram, black gram in upland. Drain out excess water from jute field.
- **Major Seasonal Crop with stage:** Sugarcane (early vegetative), vegetables (fruiting / harvesting), onion (vegetative), jute (vegetative),
- **Crop Condition:** Good
- **Advisory:** Undertake weeding, intercultural operations and application of fertilizers after current spells of rain.
 - Harvest all the cultured fish from the pond and drain out water from it for complete drying. In perennial ponds where water draining is impossible, apply Mahua oil cake 1 t/acre to kill all the predatory and weed fishes. Clear the aquatic weeds from the pond and strengthen the embankments.
- **Plant Protection:** Weather conditions are favourable for cut worm in rice. Apply chloropyriphos around the bund to prevent the entry of cut worm to the unaffected field and spray 2 ml chloropyriphos in 1 litre water in the afternoon/cool hour after current spells of rain in North Orissa.

West Bengal

- **Realised Rainfall:** Most of the districts of West Bengal received good rainfall
- **Rainfall distribution for last 5 weeks:**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
GWB					
2 weeks continuously deficient to no rain					
Midnapore	-15	8	17	-21	-21
Week by week rainfall distribution for the remaining districts of the State					
Bankura	-1	5	-15	-1	101
Birbhum	-5	-53	-14	-55	103
Burdwan	27	-51	-59	-26	105
Hooghly	-65	-64	-34	-3	38
Howrah	-85	-47	102	48	-73
Murshidabad	-51	-89	-77	34	6
Nadia	-2	-78	-43	-50	127
24 Pargana (N)	-39	-69	-5	-17	7
Purulia	22	14	-35	8	28
24 Pargana (S)	30	-31	52	8	-56
SHWB					
More than 3 weeks continuously deficient to no rain					
Coochbehar	-41	-95	-89	-31	-41
Week by week rainfall distribution for the remaining districts of the State					
Darjeeling	62	-33	-52	22	-6
Jalpaiguri	39	-81	-70	12	-6
Malda	-33	-86	1	-8	-12
Dinajpur (N)	9	-98	-83	12	59
Dinajpur (S)	-49	-81	-98	77	146

- **Rainfall Forecast:** Many places with heavy to very heavy rainfall at isolated places
- **Major Kharif Crops:** Rice, vegetables
- **Crop Stage:** transplanting
- **Crop Condition:** Good
- **Advisory:** Complete transplanting of rice seedlings.
 - Undertake transplanting of vegetable with the realized rainfall
 - Removal of excess water from the seedbed is advised.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative), jute (harvesting)
- **Crop Condition:** Good
- **Advisory:** Undertake retting of jute crop.

- As rain/thundershowers are likely at many places over the State with heavy rainfall at isolated places is likely during next 48 hours, postpone irrigation and intercultural operations and provide drainage facilities to remove excess water.
- **Plant protection:** in bitter gourd, cucumber mite is becoming severe in many palces. To control, it apply Fenazaquin 10 EC @ 1.5 ml per litre of water. In pointed gourd, fruit and vine rot is in severe condition. Remove the infected fruits and vine from the land. Spray Metalaxyl + Mancozeb @ 2.5 gm per litre of water. Reapply it after 10 to 15 days depending upon the disease condition.
 - Spray chemicals after spells of rain.

Sikkim

- **Realised Rainfall:** Good amount of rainfall was received over the state.
- **Rainfall distribution for last 5 weeks:**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
Sikkim	-2	-30	-51	-14	-55

- **Rainfall Forecast:** Many places with heavy to very heavy rainfall at isolated places during next 48 hrs.
- **Major Seasonal Crop with stage:** **Very High hills: Summer Potato:** Tuberization/Tuber Maturity/Early Harvesting; **High Altitude Maize:** Late Vegetative/Flowering **(b) High hills: Off-Season Vegetable crops:** Vegetative/Late Vegetative; **Seed Potatoes:** Tuberization/Tuber-Maturity/Early-Harvesting; **(c) High/ Medium/ Low hills: Maize:** Flowering/ Cob Maturity/ Early Harvesting; **Kharif Vegetables:** Vegetative/Late Vegetative; **Large Cardamom:** Transplanting of Seedlings/ Secondary Flowering/Primary Capsule Formation/Capsule formation & maturity **(low hills) (d) Medium & Low Hills: Rice:** tillering **Ginger:** Early Vegetative/Vegetative; **Orange:** Nursery Transplanting of Seedlings/ Flowering/ Early Fruiting/Fruiting.
- **Crop Condition: Good**
- **Advisory:** Transplanting of orange seedling should be continued. Deshooting/debugging of newly planted to 1 – 4 years old trees, upto a basal height of 40 – 50 cm should be done on monthly basis.
 - Nursery beds of large cardamom suckers may be mulched properly with dried forest leaves in order to prevent soil erosion and weed growth.
 - Inter-cultivate in the transplanted paddy as per usual practice in order to incorporate FYM/compost and to break and scratch the compact soil. This would make the soil loose and aerate it.
 - Water level of 5 cm to at least 3/2.5 cm should be maintained in transplanted paddy fields for better yield. During the tillering stage, in the medium hills, water level of 3-4 cm should be maintained to enable maximum tillering as in case of insufficient water, tillering will be less and facilitate excess growth of weeds.
 - Top dressing of ginger with organic manures and mulching to be done after spells of rain and on monthly basis. Proper drainage to be maintained and weeding to be done after spells of rain.
 - Diseased/pest infested suckers may be removed and destroyed.
 - Chirke and Foorkey infected cardamom plants may be destroyed by uprooting and buried in the pits at regular intervals.

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

Assam

- **Realised Rainfall:** Many districts received good rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Dhubri	-60	-94	-93	-29	-52
Nowgong	-65	-88	-41	-63	-74
Week by week rainfall distributions for the remaining districts of the State					
Barpeta	-32	-84	-64	42	344
Bongaigaon	-56	-90	-84	19	110
Cachar	-25	-70	-65	48	120
Darrang	156	-41	-79	171	106
Dibrugarh	38	-47	-20	-55	56

East Garo Hills	88	-79	-100	-46	-17
East Khasi Hills	113	-63	-67	57	-10
Goalpara	46	-95	-51	25	166
Golghat	1	20	-60	87	44
Hailakandi	-75	-90	-66	-68	-6
Jorhat	-20	-45	-42	16	-20
Kamrup	4	-66	-44	99	59
Karbi Analog	-14	-12	9	72	-31
Karimganj	36	-49	-59	-58	91
Kokrajhar	-29	-100	-95	-35	71
Lakhimpur	-27	-26	-19	-48	58
Morigaon	-16	-14	-5	6	-81
Nalbari	-2	-29	-59	37	-3
Sibsagar	-32	-43	-23	-33	-4
Sonitpur	-46	11	-46	-3	4
Tinsukia	54	-84	-42	-48	19

- **Rainfall Forecast:** Most places with heavy rainfall at isolated places
- **Major Kharif Crops: Sali paddy**
- **Crop Stage: Transplanting**
- **Crop Condition:** Transplanting of sali rice is continued.
- **Advisory:** Continue trang
- **Crop Condition:** Transplanting of sali rice is continued.
- **Advisory:** Continue transplanting of sali paddy may be continued with 21-25 days old seedlings in case of semi dwarf and short duration varieties and 30-40 days in case of long duration and local Pusa Ketki, Pusa Dipali etc. in the 1st fortnight of August. High yielding varieties of green gram such as T-44, K-801 etc. and black gram(T-9, T-27 etc.) may be sown under the prevailing weather conditions.
- **Major Seasonal Crop with stage:** vegetables (vegetative / flowering / fruiting / harvesting), early *ahu* rice (tillering / panicle initiation), *Capsularis* jute (vegetative / harvesting), *Olitorius* jute (vegetative), maize (vegetative) and sugarcane (vegetative)
- **Crop Condition:** Good
- **Advisory:**
 - As rain/thundershowers are likely at most places over the State during next 48 hours and decrease thereafter with heavy rainfall at isolated places is likely during next 48 hours, postpone irrigation and provide drainage facilities to remove excess water.
- **Plant protection:** Weather conditions are favourable for mild incidences of –
 - pollu beetle in pepper, farmers are advised to apply Endosalfan 35EC or Dimethoate 30EC @ 1ml/ lit of water against grubs after current spells of rain.
 - stem bleeding in coconut tree. In case of infected plant, infected portion of stem should be scraped out completely and apply Bordeaux paste or coal tar after current spells of rain.

Arunachal Pradesh

- **Realised Rainfall:** Most of the districts received good rainfall
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Changlang	-63	-90	-82	-93	-65
Lower Subansiri	-87	-86	-46	-28	-40
Week by week rainfall distributions for the remaining districts of the State					
East Kameng	92	-79	-41	78	54
East Slang	10	-85	-99	-27	-2
Lohit	95	-81	-84	-50	-6
Papumpara	22	28	96	146	40
Tawang	-12	-80	-92	-9	-27
Tirap	-1	-21	-61	15	67

Upper Subansiri	-70	-88	-77	47	71
West Kameng	449	-48	33	229	96
West Siang	81	**	-97	5	-20

- **Major Kharif Crops:** *jhum* rice, WRC rice, millets
 - **Crop Stage:** vegetative
 - **Crop Condition:** Good.
 - **Rainfall Forecast:** Most places over the region during next 48 hours and decrease thereafter. Isolated heavy to very heavy rainfall during next 48 hrs.
 - **Advisory:** Postpone irrigation, weeding and intercultural operations. Maintain 3-5 cm standing water in rice field.
 - **Major Seasonal Crop:** Vegetables
 - Harvest the matured vegetable crops.
- Plant Protection:** Prophylactic measure for protection of seed ginger rhizome from fungal disease may be taken. Water logging in the field must also be avoided. Earthing up may be done.

SOUTH INDIA [TN, AP, KERALA, KARNATAKA, LAKSHADWEEP, ANDAMAN & NICOBAR ISLANDS]

Andhra Pradesh

- **Realised Rainfall:** Most of the districts in the State particularly Telangana and Rayalaseema received deficient / scanty rainfall except some districts in coastal Andhra Pradesh.
- **Rainfall distribution for last 5 weeks**

Andhra Pradesh	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
Coastal Andhra Pradesh					
More than 3 weeks continuously deficient to no rain					
Guntur	-61	-80	-86	-94	-91
Krishna	-43	-38	-47	-97	-87
Nellore	-41	-71	-83	-85	-23
Prakasam	-66	-36	-87	-100	-89
2 weeks continuously deficient to no rain					
East Godavari	62	-19	-15	-91	-72
Sirkakulam	37	86	42	-95	-32
Visakhapatnam	-42	76	-19	-83	-71
West Godavari	19	-47	9	-93	-66
Week by week rainfall distributions for the remaining districts of the State					
Vizianagram	-28	100	54	-92	-19
Telangana					
More than 3 weeks continuously deficient to no rain					
Mehabubnagar	-78	-61	-57	-98	-99
Medak	-75	-49	-56	-94	-100
Nalgonda	-78	-62	-68	-99	-100
Rangareddy	-31	-38	-54	-96	-100
Hyderabad	-57	-58	-45	-99	-100
3 weeks continuously deficient to no rain					
Adilabad	-35	52	-66	-81	-99
Karimnagar	-37	30	-55	-90	-100
Nizamabad	-10	41	-51	-88	-100
Warangal	-42	-4	-41	-97	-98
2 weeks continuously deficient to no rain					
Khammam	-40	43	-8	-92	-95
Rayalaseema					
More than 3 weeks continuously deficient to no rain					
Anantapur	-82	-84	-84	-91	-85
Cuddapah	-90	-96	-92	-99	-73
Kurnool	-77	-59	-81	-96	-84
Week by week rainfall distributions for the remaining districts of the State					

Chittoor	-72	-86	-93	-86	-11
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- **Realised Rainfall:** Most of the districts in the State particularly Telangana and Rayalaseema received deficient / scanty rainfall except some districts in coastal Andhra Pradesh.
- **Rainfall distribution for last 5 weeks**
- **Rainfall Forecast:** Isolated places
- **Major Kharif Crops:** Cotton, soybean, jowar, black gram, green gram, pearl millet, finger millet, jowar, green gram, groundnut, sunflower, rice, brinjal, tomato and chillies.
- **Crop Stage:** Sowing
- **Crop Condition:** Satisfactory. Sowing of crops like ground nut, jowar, maize, pulses, sesame, sunflower and cotton is affected in Rayalaseema and Telangana. Rainfed crops are under moisture stress condition in the State.
- **Advisory:** As the rainfall is not adequate in the State, different districtwise cropping strategies including sowing of short duration *kharif* crops is advised in many parts of the State. Farmers in Rayalaseema are advised to take short duration rainfed groundnut till 15th August. Take up sowings of rainfed crops like groundnut, cotton, redgram, castor etc. in those areas having sufficient soil moisture in Telangana. Protect the already sown crops with life saving irrigation.
- **Major Seasonal Crop:** Sugarcane and Vegetables
 - Farmers are advised to undertake intercultural operations in sugarcane, vegetables, early sown crops to keep the fields weed free in Telangana. Apply irrigation to the crops.
 - Harvesting of the muskmelon should be completed on bright sunny day.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - aphids on groundnut crop in Rayalaseema. To control spray monocrotophos @ 1.6 ml/lt. or dimethoate @ 2.0 ml/litre.
 - sucking pests in cotton. Apply Monocrotophos solution (Monocrotophos @ 25 ml in 100 ml of water) with soft brush on tender part of the stem at 20, 40 and 60 days after sowing.
 - rice thrips and hispa.
 - Incidence of Red pumpkin beetle is noticed gourds like bottle gourd, ridge gourd, snake gourd and cucurbits. Control it by spraying Carbaryl 50 WP @ 3 g per litre of water.

Karnataka

- **Realised Rainfall: Coastal Karnataka received good rainfall.** Most of the districts in Interior Karnataka received scanty/deficient rain.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
North Interior Karnataka					
Bidar	-53	-49	-63	-91	-100
Bijapur	-55	-40	-78	-92	-98
Gulbarga	-34	-55	-63	-94	-99
Raichur	-95	-73	-91	-99	-88
South Interior Karnataka					
Bellary	-63	-25	-38	-93	-76
Kolar	-79	-81	-84	-92	-54
Tumkur	17	-75	-35	-98	-21
3 weeks continuously deficient to no rain					
North Interior Karnataka					
Bagalkote	-29	5	-35	-89	-79
Koppal	-80	29	-85	-98	-84
2 weeks continuously deficient to no rain					
Coastal Karnataka					
Uttar Kannada	115	50	8	-43	-54
North Interior Karnataka					

Belgaum	3	277	200	-56	-53
Dharwad	33	108	48	-73	-58
Gadag	16	51	7	-95	-89
South Interior Karnataka					
Chamarajnar	29	24	235	-100	-55
Chickmagalur	108	150	169	-54	-26
Chitradurga	74	12	2	-81	-86
Davangere	85	43	111	-57	-38
Hassan	-21	-17	50	-54	-88
Mandya	19	-10	16	-88	-26
Week by week rainfall distributions for the remaining districts of the State					
Coastal Karnataka					
Dakshin Kannada	122	34	48	-47	-3
Udupi	148	50	43	-20	6
North Interior Karnataka					
Haveri	118	226	150	-7	-3
South Interior Karnataka					
Bangalore Rural	-71	-63	-68	-97	8
Bangalore Urban	5	-83	-88	-100	6
Kodagu	86	107	247	-48	-14
Mysore	57	85	263	-89	6
Shimoga	115	109	182	17	-15

- **Rainfall Forecast:** Many places in coastal Karnataka, few places in South Interior Karnataka and isolated places in North Interior Karnataka
- **Major Kharif Crops:** Jowar, Maize, Bajra, Redgram, Ragi, Greengram, Blackgram, Cowpea, Sesamum, Groundnut, Sunflower, Soyabean, Cotton.
- **Crop Stage:** Sowing/ transplanting. Early sown crops are at early vegetative/vegetative stage.
- **Crop Condition:** Satisfactory. Due to poor rainfall in many parts of north/south interior districts, sowing of rainfed crops have been affected.
- **Advisory:** Continue transplanting of rice in coastal Karnataka. Undertake sowing of short duration alternate *kharif* crops in Interior Karnataka where sufficient amount of rainfall received (See Annexure). In the already transplanted rice field in North Interior Karnataka, apply irrigation to save the crop.
- **Major Seasonal Crop:** Sugarcane and Vegetables
 - Undertake ratooning in sugarcane. Undertake intercultural operations in sugarcane and early sown crops to keep the field weed free on a non rainy in South Interior Karnataka and after current spells of rain in coastal Karnataka.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - powdery mildew disease in green gram, spray Carbendazim 0.1%.
 - thrips, mites and murda-complex disease in chilli, spray 1.7 ml Rogar or 1.5 ml Metasystox +2.5ml Dicofol per litre of water.
 - Undertake spraying on a non rainy day in South Interior Karnataka and after current spells of rain in coastal Karnataka.

Kerala

- **Realised Rainfall:** Most of the districts of the state received good amount of rain.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
2 weeks continuously deficient to no rain					
Ernakulam	18	-31	49	-49	-20
Idukki	9	16	82	-74	-37
Kollam	-42	-44	95	-76	-51
Malappuram	18	24	119	-59	-40
Palakkad	38	84	177	-60	-34

Thiruvananthapuram	-38	-32	74	-90	-42
Wyanad	-15	35	110	-84	-67
Week by week rainfall distributions for the remaining districts of the State					
Alappuzha,	-3	-59	46	-66	-16
Kannur	52	3	96	-40	-5
Kasaragod	65	-24	21	-50	-2
Kottayam	-7	-59	25	-81	25
0Kozhikode	95	33	151	-44	-6
Pathanamthitta	7	-48	16	-65	**
Thrissur	37	-2	119	-67	-2

- **Rainfall Forecast:** Many places
- **Major Kharif Crops:** Rice
- **Crop Stage:** Transplanting. Tillering in problem area zone.
- **Crop Condition:** Due to heavy rain pepper, cardamom and rice were affected.
- **Advisory:** Continue transplanting of rice. Farmers are advised to drain out excess water from the field to avoid water stagnation.
- **Major Seasonal Crop:** Vegetables and plantation crops (coconut, arecanut, pepper and cashew).
- Intercultural operations, application of fertilizers and pesticides may be continued after current spells of rain
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - leaf folder and stem borer in paddy fields. Farmers may go for Tricho cards (Trichogramma chilonis against leaf folder and Trichogramma japonicum against stem borer) if their incidence noticed.
 - thrips in broadcasted rice field, spray carbaryl or dimethoate @250ml/ha.
 - Undertake spraying current spells of rain.

Tamilnadu

- **Realised Rainfall:** Most of the districts of the state received good rain.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Karur	-100	-100	-99	-100	-95
Krishnagiri	-76	-65	-94	-100	-36
Namakkal	-43	-100	-89	-93	-69
Thanjavur	-81	-97	-79	-100	-60
Virudhunagar	-100	-100	-100	-100	-100
Dharmapuri	-63	-76	-86	-100	-93
Ramanathapuram	-98	-100	-99	-100	-44
2weeks continuously deficient to no rain					
Kanyakumari	-65	45	204	-100	-61
Nilgiris	36	110	189	-71	-42
Tirunelveli	-35	147	687	-100	-96
Week by week rainfall distributions for the remaining districts of the State					
Chennai	-67	-99	-91	-25	-12
Coimbatore	579	611	1127	-7	162
Cuddalore	-65	-100	-75	-100	247
Dindigul	-92	-95	-46	-99	-16
Erode	-2	-100	19	-100	-11
Kanchipuram	-91	-99	-98	-37	154
Madurai	-99	-100	-99	-98	220
Nagapattinam	-100	-100	-96	-100	306
Perambalur	-75	-100	-92	-100	29
Pondicherry	-39	-75	-93	-100	129
Pudukottai	-66	-100	-63	-97	-2
Salem	95	-97	-15	-91	85
Sivaganga	-84	-100	-97	-78	167

Theni	471	388	358	-87	36
Tiruvallur	-82	-98	-93	-31	63
Tiruvannamalai	-95	-100	-100	-100	171
Tiruvarur	-100	-100	-100	-100	-2
Trichy	-55	-100	-100	-100	5
Tuticorin	-100	-100	-81	-100	12
Vellore	-96	-100	-99	-94	29
Villupuram	-64	-79	-93	-100	286

- **Rainfall Forecast:** Isolated places
- **Major Kharif Crops:** Groundnut, pulses and rice
- **Crop Stage:** Sowing/transplanting
- **Crop Condition:** Good
- **Advisory:** Continue sowing of crops like pulses, groundnut and transplanting of rice seedlings wherever sufficient rainfall received during last week.
- **Major Seasonal Crop:** Sugarcane, banana and vegetables.
 - Intercultural operations, application of fertilizers may be continued in vegetables and sugarcane
 - Postpone irrigation to the standing crops as there was no significant rainfall in most of the districts during last week.
 - Due to the forecast of high wind speed for coming days, provide staking for banana in Virudhunagar and rubber and banana in Kanyakumari.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - sheath blight in rice, spray edifenphos at 1 l / ha to control the disease.
 - cigatago leaf spot in banana. If incidence is noticed, spray carbendazim @ 1 g / l.
 - mealy bug incidence in papaya, cotton and mulberry crops. Look out for the incidence and spray Neem oil 3% to avoid the spread of the pest incidence to other crops.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

Maharashtra

- **Realised Rainfall:** Most of the districts of the Konkan & Goa received good rain and most of the districts in Madhya Maharashtra, Marathwada and Vidarbha received no rain
- **Rainfall distribution for last five weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
More than 3 weeks continuously deficient to no rain					
Vidarbha					
Yeotmal	-17	-45	-36	-73	-100
3 weeks continuously deficient to no rain					
Konkan & Goa					
Mumbai	55	189	-41	-46	-98
Ratnagiri	115	51	-22	-34	-81
Madhya Maharashtra					
Dhule	33	52	-30	-56	-100
Solapur	-49	40	-53	-85	-100
Marathwada					
Beed	227	40	-38	-93	-100
Latur	**	15	-44	-96	-99
Nanded	-28	51	-71	-97	-100
Usmanabad	-14	49	-56	-67	-100
Vidarbha					
Washim	-29	7	-25	-73	-100
2 weeks continuously deficient to no rain					
Konkan & Goa					
Goa	199	70	-1	-66	-73
Madhya Maharashtra					

Jalgaon	65	12	53	-41	-99
Sangli	12	62	15	-30	-92
Marathwada					
Aurangabad	93	15	39	-55	-99
Jalna	131	126	31	-68	-100
Parbhani	25	45	-17	-89	-100
Vidarbha					
Akola	85	-11	29	-50	-100
Amraoti	118	-11	59	-50	-100
Bhandara	-26	143	32	-62	-93
Buldhana	127	-9	42	-43	-100
Chandrapur	11	2	28	-62	-99
Gadchiroli	-46	41	14	-44	-99
Gondia	-34	142	55	-60	-98
Nagpur	43	118	49	-30	-99
Wardha	30	-20	28	-51	-100
Week by week rainfall distributions for the remaining districts of the State					
Konkan & Goa					
Thane	-31	32	113	81	-93
Madhya Maharashtra					
Ahmednagar	101	-2	-1	-1	-99
Kolhapur	46	176	104	59	-71
Nandurbar	-61	-2	69	3	-95
Nasik	133	-11	252	269	-90
Pune	-59	23	-1	-1	-94
Satara	5	132	70	81	-84

- **Rainfall Forecast:** Many places over Konkan & Goa and south Madhya Maharashtra and isolated over the rest region.
- **Major Kharif Crops:** Rice, ragi, cotton, Vegetables, Pulses, bajra, groundnut, tur, horse gram, soybean, jowar
- **Crop Stage:** Rice, ragi in seedlings/ transplanting and other *kharif* crops are in sowing/ germination. Early sown crops are at early vegetative stage. Irrigated cotton is at vegetative/ floral bud formation and early sown green gram & black gram are at flowering stage.
- **Crop Condition:** Good in Konkan and Satisfactory in other areas.
- **Advisory:** Complete transplanting of rice in North Konkan and continue transplanting in North Madhya Maharashtra. For one month old seedlings, 4 to 5 seedlings per hill may be transplanted.
 - Sowing of short duration crops like bajra, tur, horse gram is advised in Madhya Maharashtra. Sowing of short duration crops viz; sunflower, hybrid bajra, coriander etc. is where sufficient amount of rainfall recorded is advised in Marathwada. In Marathwada apply light irrigation to already sown crops. Transplanting of rice is advised in Vidarbha. Alternative crops like sunflower, castor, pearl millet, sesamum can be sown till August 15th.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Undertake intercultural operation, fertilizer application in early sown crops, sugarcane and vegetables
 - Apply second dose of Nitrogenous fertilizers i.e. 870 gm Urea per are to kharif rice in South Konkan
 - Apply supplementary irrigation in north Madhya Maharashtra, Marathwada and Vidarbha
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - blue beetle and leaf folding caterpillar & blast in kharif paddy. For control of blue beetle and leaf folding caterpillar, spray Carbaril powder @ 2gm / lit of water with 1 ml sticker and for control of blast disease in transplanted rice field, spraying of Carbendazim @ 1gm / liter or Copper-oxy-chloride @ 2.5gm/liter of water with 1 ml. sticker may be done.
 - There is attack of leaf girdle beetle on soyabean crop in western Maharashtra plain zone and Central Maharashtra plateau zone. For control, spray Dimethoate @ 30% 10 ml or Endosulfan @ 35% @15

ml per 10 lit of water. Also there is attack of green semilooper in Latur, Amravati and Nadpur division, spray Endosulfan 35% @17ml per 10 liters of water.

- Undertake spraying after current spells of rain in Konkan & Goa and south Madhya Maharashtra

Gujarat

- **Realised Rainfall:** Most of the districts of the state received no significant rain.
- **Rainfall distribution for last five weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
2 weeks continuously deficient to no rain					
Gujarat Region					
Anand	-81	35	34	-36	-99
Broach	2	-50	49	-46	-99
Panchmahal	-36	-16	16	-21	-99
Week by week rainfall distributions for the remaining districts of the State					
Gujarat Region					
Ahmedabad	-70	81	38	24	-100
Banaskantha	-97	48	63	89	-99
Baroda	-26	-1	12	**	-99
Dahod	-55	7	21	-18	-99
Dangs,	-38	-37	109	33	-98
DNH & Daman	-10	66	147	174	-97
Gandhinagar	-56	71	-14	201	-99
Kheda	-81	6	59	3	-99
Mehsana	-87	58	102	39	-99
Narmada	-69	-3	131	12	-99
Navsari	-53	-17	182	76	-95
Patan	-88	-5	51	18	-100
Sabarkantha	-39	60	103	111	-99
Surat	-58	4	210	77	-96
Valsad	-48	21	144	163	-95
Saurashtra, Kutch & Diu region					
Amreli	14	173	200	30	-100
Bhavnagar	-23	46	187	-15	-96
Diu	-58	**	**	**	-99
Jamnagar	-76	177	353	421	-100
Junagarh	-5	159	428	488	-99
Kutch	-92	70	184	353	-99
Porbandara	-88	171	744	794	-100
Rajkot	14	44	143	185	-100
Surendranagar	-55	70	-18	21	-100

- **Rainfall Forecast:** Isolated places.
- **Major Kharif Crops:** Rice, castor, pigeon pea, cotton, groundnut, bajra, sesamum, cluster bean, pulses
- **Crop Stage:** Sowing
- **Crop Condition:** Crop sowing is improving.
- **Advisory:** Continue sowing of castor, green gram, black gram, cluster bean, cowpea, groundnut, bajra, sesamum, pulses, cotton.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Undertake intercultural operation and application of fertilizer and plant protection measures to the early sown standing crops.
 - Undertake planting of different fruit crops like mango, sapota, pomegranate, lemon, guava, custard apple etc.
 - Remove excess water in vegetable nursery beds. Drain it regularly from nursery.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –

- seedling rot in vegetable nursery, drench nursery with Bordeaux mixture@ 0.6% or Ridomil MZ@0.05%.
- collar rot and root rot diseases are observed in cotton and groundnut. Spray carbendazim @10 gm + mencozeb @ 20 gm in 10 liters of water.

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Realised Rainfall:** Most of the districts received no significant rain during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
East Madhya Pradesh					
More than 3 weeks continuously deficient to no rain					
Katni	12	-52	-69	-89	-100
Umaria	-59	-53	-35	-44	-100
3 weeks continuously deficient to no rain					
Chhatarpur	-24	20	-23	-94	-100
Panna	-32	22	-30	-97	-100
Satna	3	1	-25	-90	-100
2 weeks continuously deficient to no rain					
Balaghat	4	45	108	-59	-95
Chindwara	138	78	275	-14	-100
Damoh	-15	-10	-9	-83	-100
Dindori	13	-60	26	-71	-100
Jabalpur	-65	-43	225	-79	-100
Mandla	-25	-44	39	-47	-100
Narsingpur	-68	-63	187	-59	-100
Rewa	-12	112	-14	-90	-100
Sagar	-23	-30	44	-72	-100
Seoni	**	42	145	-29	-100
Shahdol	-42	8	53	-92	-100
Sidhi	-10	13	34	-96	-100
Tikamgarh	-86	63	12	-97	-100
Week by week rainfall distributions for the remaining districts of the State					
Chindwara	138	78	275	-14	-100
West Madhya Pradesh					
3 weeks continuously deficient to no rain					
Badwani	-61	20	-57	-32	-100
Bhind	-100	33	-51	-95	-97
Morena	-99	-14	-79	-97	-100
2 weeks continuously deficient to no rain					
Bhopal	-47	-3	368	-21	-100
Datia	14	72	31	-99	-98
Guna	-74	-23	21	-71	-100
Gwalior	-79	52	-11	-93	-96
Mandsaur	-83	90	201	-24	-99
Neemuch	119	39	27	-44	-100
Raisen	-33	-31	90	-37	-99
Rajgarh	-56	-9	282	-23	-100
Sehore	-59	14	146	-20	-99
Sheopur Kalani	-92	-89	-7	-97	-100
Shivpuri	-63	38	71	-80	-100
Vidisha	-68	-12	12	-55	-100
Week by week rainfall distributions for the remaining districts of the State					
Betul	96	-27	223	-15	-100
Dewas	-32	-19	45	24	-99
Dhar	-41	84	1	66	-99
Harda	-1	-81	62	190	-100

Hosangabad	-35	-27	194	70	-99
Indore	-77	60	97	188	-99
Jhabua	81	-15	15	98	-97
Khandwa	-34	4	87	36	-100
Khargone	26	15	7	123	-98
Ratlam	-88	-20	35	91	-99
Shajapur	-27	-24	121	14	-100
Ujjain	-52	21	155	58	-99

- **Rainfall Forecast:** Isolated places
- **Major Kharif Crops:** Rice, jowar, sunflower, maize, jowar and soybean
- **Crop Stage:** Transplanting. Early sown crops in early vegetative stage.
- **Crop Condition:** Good.
- **Advisory:** Farmers are advised to complete transplanting of rice. In East Madhya Pradesh farmers are advised to give light irrigation to already transplanted crops.
- **Major Seasonal Crop with stage:** Sugarcane (cane development), cotton (boll development/ maturity) and vegetable crops (vegetative)
- **Crop Condition:** Good
- **Advisory:** Undertake intercultural operations in the seasonal crop.
- **Plant Protection:** Weather conditions are favourable for-
 - fruit fly in okra in Jabalpur, Katni, Panna, Rewa, Satna, Seoni and Sidhi districts, spray trizophos crops in open weather conditions @ 1.5 ml per liter.
 - fruit fly in bhindi, tomato, beetle guard, cucurbit in Tikamgarh, Chattarpur and Datia, spray Malethyon 50 EC 1 ml or Trijophos 40 EC 1.5 ml per litre of water.
 - Sucking pest in soyabean in Bhopal, Sehore, Damoh, Vidisha, Raisen, Sagar, Sehore.
 - Application of pesticides may be undertaken on a non rainy day.
- **Animal Husbandry:** To control ticks and mite in cattle, sheep and goat, apply butox / deltox @ 4 ml / litre of water on the body in Jhabua and Dhar districts.
 - Arrange vaccination for animals to protect from the disease Galgotu, Langadi and Anthrex in Sagar, Bhopal, Vidisha, Damoh, Raisen, Sehore.

Chattisgarh

- **Realised Rainfall:** Most of the districts received no significant rain.
- **Rainfall distribution for last 5 weeks**

State/Districts	08.07.09	15.07.09	22.07.09	29.07.09	05.08.09
3 weeks continuously deficient to no rain					
Dantewara	3	78	-37	-74	-87
Surguja	-65	10	-21	-81	-95
2 weeks continuously deficient to no rain					
Bilaspur	22	12	16	-70	-97
Dhamtari	-4	507	29	-47	-100
Durg	-51	218	71	-70	-99
Janjgir	-34	120	41	-86	-100
Jashpurnagar	-6	-2	32	-23	-70
Koriya	-12	-30	90	-92	-99
Kowardna	-40	-55	15	-89	-100
Mahasumund	237	220	480	-58	-100
Raigarh	37	111	166	-73	-99
Raipur	-1	200	147	-71	-97
Rajandgaon	-22	169	42	-43	-99
Week by week rainfall distributions for the remaining districts of the State					
Bastar	-16	83	6	-3	-96
Kanker	-5	184	-9	-14	-100
Korba	-10	91	-3	-17	-98

- **Rainfall Forecast:** Isolated places.
- **Major *Kharif* Crops:** Rice, soybean, maize, sesamum, tur.
- **Crop Stage:** Sowing/transplanting
- **Crop Condition:** Good
- **Advisory:** Farmers are advised to complete transplanting of rice. Sowing of tur and sesamum in bunds of rice fields should be completed within this week.
 - Conditions are favourable for biasi of direct seeded rice. Hence, wherever direct seeded dry sown rice is of about 25-30 days old, biasi operation can be performed. After biasi operation Saghan Chalai should be done at the earliest.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative), vegetables (flowering / fruiting / harvesting), irrigated maize (vegetative)
- **Crop Condition:** Good
- **Advisory:** Intercultural operation and earthing up and also application of fertilizers may be continued.

Annexure

Bangalore (urban) and Tumkur

- Farmers are advised to raise nursery of Fingermillet (ragi). Short duration varieties for direct sowings can be taken up (Indaf-8, Indaf-9, HR-911, PR-202 and MR-10). In the tank fed area, farmers are advised to go for preparation of paddy nursery. The Medium duration varieties recommended are: IR-3864, Puspa, IR-20 & Hybrid KRH-1 KRH-2 Short duration Rasi (IET-1444), Tellahamsa, Mangala, Mukthi (CTH-3)

Bidar

- The farmers are advised to go for sowing of niger, horsegram, bajra, sunflower as an alternative crop.
- Those farmers who have irrigation facilities can sow the pigeon pea with 25% extra seeds than recommended seed rate

Bijapur

- Contingency crops for August first fortnight sowing in red and shallow black soils: In places where sowing was not taken up during June and July due to non receipt of rainfall, sowing of bajra, sunflower, Navane, Horsegram and intercropping of Sunflower + Castor in 4:2 row proportion is advised.
- Contingency crops for August first fortnight sowing in medium to deep black soils : Sowing of bajra, sunflower, horsegram, *herbaciun* cotton (Jayadhar, Suyodhar), intercropping of Sunflower + Castor in 4:2 row proportion, and cotton as relay crop in Ground nut crop can be taken up.
- To conserve moisture in the lands where *kharif* sowing is not done and that land is spared for *rabi* sowing, compartment bunds/contour bunds can be made and/or repeated intercultivation to conserve water can be practiced.
- Due to low rainfall during July in the district, some area has not been sown. This may result in shortage of fodder to animals. So, sowing of fodder crops like fodder sorghum and maize, cowpea, horse gram can be given preference in the land where the *kharif* crops have not been sown and also on lands which are spared for sowing of *rabi* crops.

Raichur and Gulbarga

- In areas left unsown due to lack of rainfall and land areas sown by early season *kharif* crops like greengram, blackgram etc., and harrowed due to lack of soil moisture are to be kept ready for late sowing of late *kharif* crops like Sunflower, Navane, Horsegram and Bajra (even for fodder) and Medium to Long duration Tur crop (2/3 increased seed rate) sowings after receiving sufficient rain.
- Avoid inter culturing after 40 DAS of greengram.
- Inter cultivation is to be done in tur crops for moisture conservation and weed removal.
- Irrigated Cotton sowing/dibbling can be done wherever sufficient rainfall is received with varieties/Hybrids like Bunny, Neeraja, Bhakti, Kanaka etc. for sowing with proper spacing.