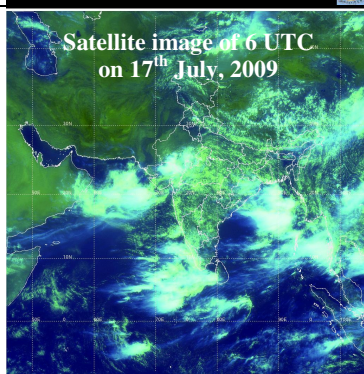




# National Agromet Advisory Bulletin

Thursday, 16<sup>th</sup> July, 2009 (For the period 16<sup>th</sup> to 20<sup>th</sup> July, 2009)



Satellite image of 6 UTC on 17<sup>th</sup> July, 2009

**Chief Synoptic Feature (Based on 1430 hours IST observations of 17<sup>th</sup> July 2009)**

- Widespread rainfall activity with heavy to very heavy falls at a few places is likely over Konkan & Goa, Gujarat State and coastal Karnataka during next 48 hours.
- Fairly widespread rainfall with isolated heavy to very heavy falls is likely over Kerala, Vidarbha, Chhattisgarh, Madhya Pradesh and north Madhya Maharashtra during next 24 hours and decrease thereafter.

## Monsoon Watch

- The well marked low pressure area over Orissa and neighbourhood has weakened and now lies as a low pressure area over East Madhya Pradesh and neighbourhood.
- The axis of monsoon trough at mean sea level passes through Phalodi, Ajmer, Guna, centre of the low pressure area, Digha and thence southeastwards to eastcentral Bay of Bengal.
- The off shore trough continue to extend along the west coast.

## Salient feature of Monsoon & Agriculture for the current week

The *kharif* crops in the peninsular, central parts and eastern region are in good condition and sowing and transplanting of the crops are in full swing due to well distributed rainfall during last week. Because of the receipt of good amount of rainfall in rainfall deficient states like Maharashtra and Gujarat, farmers are advised to continue sowing/transplanting. Farmers in Bihar, Jharkhand and East UP and northern part of Haryana are advised to sow short duration *kharif* crops because of insufficient rainfall. The crop condition and sowing operations in the remaining parts of the country are in modest category and farmers are advised either to wait for the cut off dates for sowing or follow normal agricultural operations.

## Salient Agromet Advisory for the Problem Areas

Due to delay and insufficient rainfall following advisories for farmers are recommended:

**Bihar:** Farmers are advised to sow urd, sunflower, maize and pigeon pea in upland areas in place of paddy. Where irrigation facility is available, farmers are advised to do paddy transplanting only in medium and low land situations (Details of the advisory Annexure 1).

**Jharkhand:** Farmers are advised for sowing of maize, arhar, ragi, vegetables under contingent plan (Detail of the contingency plan is given in Annexure 2).

**East UP:** If nursery is around 30 days old, transplant 3-4 seedlings/hill in stead of 2. If it is 35-40 days old, cut 3-4 cm top portion of the seedling and then transplant. If no rice nursery is raised, go for direct sowing. Select alternate crops like mung, jowar, bajra, urd etc.

**Haryana:** Advised transplanting of rice in northern part of Haryana and short duration *kharif* crops under contingent planning based on the cut off dates of sowing. (See Annexure 3).

**Jammu & Kashmir:** Transplanting of rice and transplanting of solanaceous vegetable crops and maize are advised. Prefer short duration varieties of normally sown green gram (PS-7, PS-16) and black gram (Pant U-19) crops. Sow sesame (Punjab Til -I), maize (African tall) + cowpea (Type-2) / cluster bean (Ageta-guara-III) + (MP-Charri) for fodder and late transplanting varieties of rice such as Chiana-1039, K-39 (SKAU-5)

## Salient advisories for Sub-Division with delayed Monsoon (Orissa, Maharashtra & Gujarat, Madhya Pradesh, Chhattisgarh)

**Orissa:** In medium land continue sowing, and nursery may be raised with short duration rice varieties. Similarly sow rice variety duration for upland is recommended with less than 90 days. If such varieties are not available, go for non-paddy crops in uplands such as sesame.

**Maharashtra:** Continue transplanting of rice in Konkan. Sowing of cotton and rice is advised in Vidarbha. Sowing of short duration crops like bajra, tur, horse gram is advised in Madhya Maharashtra. Sowing of bajra, jowar, groundnut is advised in Marathwada.

**Gujarat:** Continue sowing of green gram, black gram, cluster bean, cowpea, groundnut, bajra, sesamum, pulses, cotton in all the districts.

**Madhya Pradesh:** Continue raising the nursery of rice of short duration varieties. Continue sowing of short duration *kharif* crops like jowar, sunflower, maize, jowar and soybean. Manage proper drainage facilities in the field. Follow inter cropping of maize and mung with soybean.


**Chhattisgarh:** Farmers are advised to continue sowing of short and medium duration varieties of rice (upto 100 day). Undertake sowing of soybean, pigeonpea with Soybean. Undertake sowing of maize, groundnut and black gram (in light soils of transmahanadi belt of Chhattisgarh).

**In the remaining subdivisions farmers are advised to continue either sowing or transplanting of *kharif* crops**

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

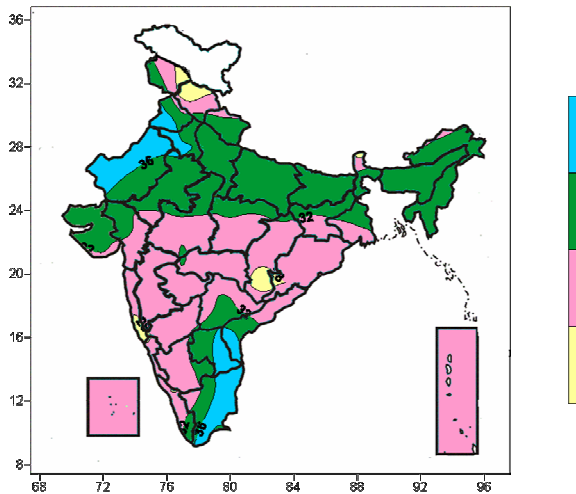
Sub-division	Cumulative Rainfall for the period									
	17 <sup>th</sup> June		24 <sup>th</sup> June		1 <sup>st</sup> July		8 <sup>th</sup> July		15 <sup>th</sup> July	
	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.
A & N Islands	100.3	117	108.4	80	96.1	-20	90.4	-15	93.8	-73
Arunachal Pradesh	121.9	-29	128.9	-61	132.5	15	126.7	41	128.2	-75
Assam and Meghalaya	143.6	-30	142.1	-67	131.3	-14	127.7	-13	138.5	-66
NMMT	100.1	-77	82.1	-50	77.4	29	73.8	-14	85.2	-37
SH West Bengal & Sikkim	124.2	-22	138.0	-42	130.5	9	137.3	9	135.6	-66
Gangetic West Bengal	52.3	-78	59.5	-92	76.7	-32	72.1	-6	73.9	-33
Orissa	43.8	-70	58.9	-90	71.4	-28	81.0	23	76.7	214
Jharkhand	45.3	-52	50.3	-99	70.2	-23	76.7	-8	74.7	-31
Bihar	41.6	-82	45.3	-78	63.1	2	74.8	-33	80.6	-85
East Uttar Pradesh	18.2	-99	26.6	-100	51.5	-33	58.8	-47	76.2	-49
West Uttar Pradesh	11.8	-97	15.1	-100	35.5	-53	51.5	-88	65.2	-23
Uttarakhand	31.2	-90	47.1	-99	64.9	-7	83.8	-79	101.1	-39
Haryana, Chandigarh & Delhi	8.1	-42	10.7	-100	19.7	11	28.4	-82	46.8	-55
Punjab	8.7	-67	9.5	-100	20.8	13	35.8	-93	45.5	-29
Himachal Pradesh	18.5	-17	22.1	-93	37.4	-53	48.6	-93	64.5	-35
J & K	15.7	72	11.2	-67	18.4	-82	29.4	-38	38.7	-37
West Rajasthan	5.0	91	6.4	-50	13.0	-67	20.1	-41	22.9	14
East Rajasthan	10.9	-7	15.1	-61	30.6	-24	40.5	-39	51.6	0
West M. P.	19.8	-90	30.4	-94	52.1	-35	63.4	-34	68.3	-1
East M. P.	21.1	-89	41.3	-99	73.1	-61	83.0	-8	86.0	8
Gujarat region	22.3	-90	33.9	-79	59.8	-88	85.7	-55	84.5	14
Saurashtra & Kutch	13.0	-100	27.9	-32	37.1	35	48.2	-47	44.3	97
Konkan and Goa	152.2	-90	198.1	-67	255.7	-29	263.3	65	227.3	62
Madhya Maharashtra	29.7	-92	33.5	0	47.5	-73	57.5	16	54.5	60
Marathwada	32.8	-87	41.4	-43	42.8	-44	36.8	53	34.3	47
Vidarbha	31.9	-94	51.5	-85	73.9	-14	75.4	13	76.9	30
Chhattisgarh	35.2	-89	56.3	-99	82.1	-53	91.3	-9	86.1	96
Coastal A. P.	22.3	-31	24.1	-68	32.4	-25	35.8	-17	30.1	-4
Telangana	28.9	-60	38.2	-78	46.7	-49	47.6	-46	45.6	8
Rayalseema	13.5	119	12.8	8	12.8	-22	16.5	-80	17.0	-79
TamilNadu & Pondicherry	9.3	34	9.5	-56	8.6	-4	14.5	-12	15.5	-34
Coastal Karnataka	218.5	-77	249.0	-58	271.1	-47	274.6	124	253.3	46
N. I. Karnataka	24.0	43	21.5	52	25.6	-77	23.6	-12	26.4	73
S. I. Karnataka	27.9	13	31.6	-58	45.1	-72	56.8	68	49.0	70
Kerala	150.8	-69	161.0	-41	194.5	-8	203.5	24	170.6	-13
Lakshadweep	67.4	-15	80.6	49	64.8	82	60.8	169	63.7	-74

The subdivisions like Uttar Pradesh, and Telangana received scanty / deficient rain in all the 5 weeks; Gangetic West Bengal, Jharkhand, Bihar, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Jammu & Kashmir, West Madhya Pradesh, Gujarat, and Telangana, received scanty / deficient rain in 4 out of last 5 weeks; Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Sub Himalayan West Bengal & Sikkim, Orissa, Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Marathwada, Chhattisgarh, Coastal Andhra Pradesh, Rayalaseema and Coastal Karnataka 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

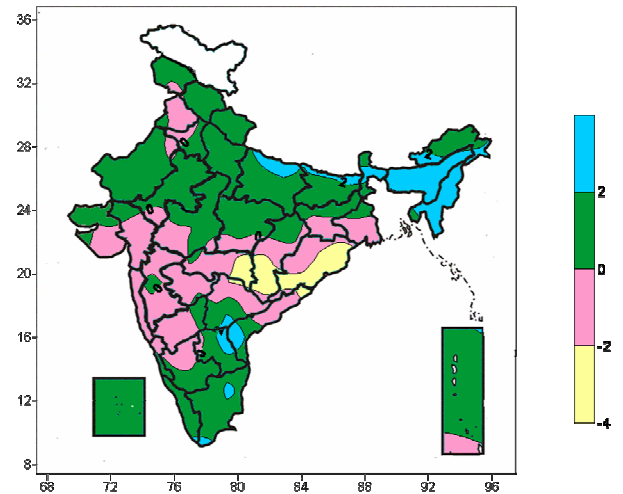
## Contour maps for the week ending 15.07.09

**Actual Mean Maximum Temperature (°C) in India for the week ending 15.07.09**



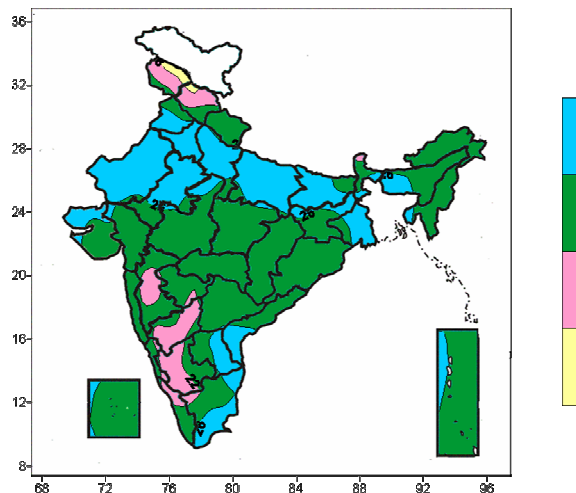
Actual Mean Maximum temperature ranged between 36°C and above over most parts of coastal Tamil Nadu, some parts of Punjab, Haryana, West Rajasthan, Coastal Andhra Pradesh, Raylaseema, 32 to 36°C over most parts of East Rajasthan, Uttar Pradesh, Uttarakhand, Bihar, Northeast India, Saurashtra & Kutch, some parts of Jammu & Kashmir, Punjab, Haryana, West Rajasthan, Gujarat, Madhya Pradesh Jharkhand, West Bengal, Andhra Pradesh, South Karnataka, Tamil Nadu, Kerala, 24 to 28°C over some parts of Jammu & Kashmir, Himachal Pradesh, Chattisgarh, Orissa, Konkan & Goa, 28 to 32°C over remaining parts of the country.

**Maximum Temperature (°C) Anomaly in India for the week ending 15.07.09**



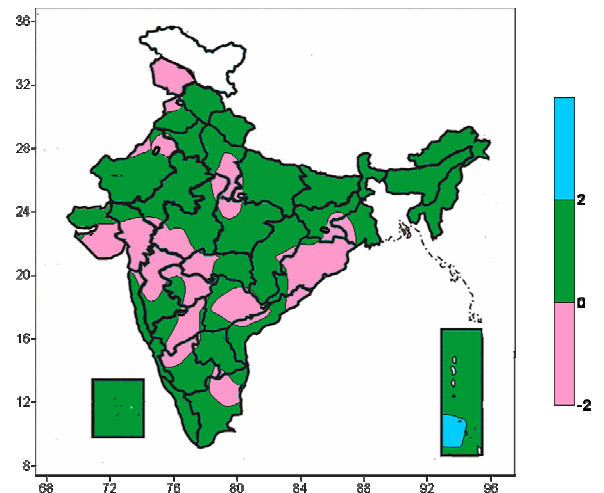
Actual Mean Maximum temperature anomaly ranged between 2°C and above over most parts of Assam, Meghalaya, Nagaland, Manipur, Mizoram, Tripura, some parts of East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Arunachal Pradesh, Andhra Pradesh, Tamil Nadua, -2 to 0°C most parts of Punjab, Gangetic West Bengal, Gujarat, Maharashtra, North Interior Karnataka, some parts of Jammu & Kashmir, Haryana, Rajasthan, Jharkhand, Orissa, Chattisgarh, Coastal Andhra Pradesh, Telengana, Madhya Pradesh, South & Coastal Karnataka, Saurashtra & Kutch, Andaman & Nicibar Island, -4 to -2°C over some parts of Orissa, Chattisgarh, Vidarbha, 0 to 2°C over remaining parts of the country.

**Actual Mean Minimum Temperature (°C) in India for the week ending 15.07.09**



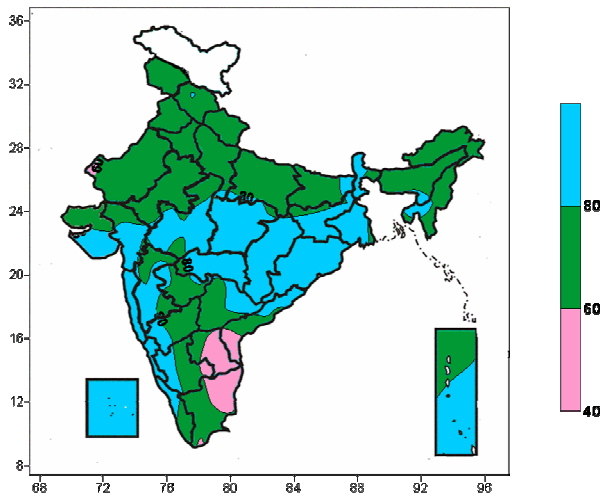
Actual Mean Minimum Temperature ranged between 26°C and above over most parts of Punjab, Haryana, Delhi, Uttar Pradesh, Bihar Gangetic West Bengal, Rajasthan, some parts of Jharkhand, Sub-Himalayan West Bengal Assam, Tripura, Coastal Andhra Pradesh, Rayalaseema, Gujarat, Saurashtra & Kutch, Tamil Nadu, Lakshadweep, Andaman & Nicobar Island, 18 to 22°C over most parts of Interior Karnataka, some parts of Jammu & Kashmir, Himachal Pradesh, Coastal Karnataka, North Kerala, Madhya Maharashtra, Tamil Nadu, 14 to 18°C over some parts of Jammu & Kashmir, Himachal Pradesh, 22°C to 26°C over remaining parts of the country.

**Minimum Temperature (°C) Anomaly in India for the week ending 15.07.09**



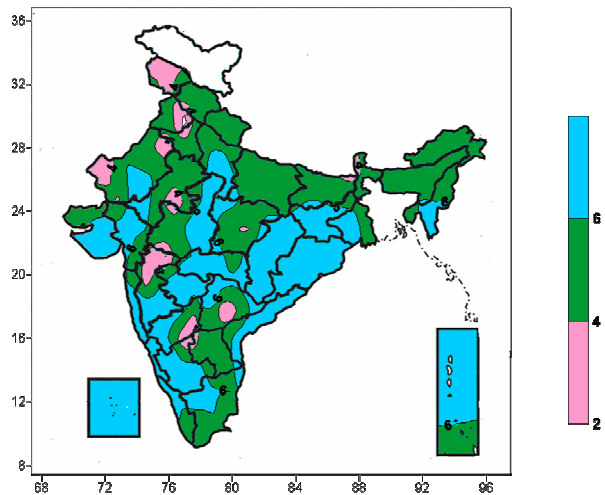
Minimum Temperature anomaly ranged between 2°C and above over some parts of Andaman & Nicobar Island,, -2 to 0°C over most parts of Jammu & Kashmir, Orissa, Gujarat, Saurashtra & Kutch, some parts of Punjab, Rajasthan, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Chattisgarh, Andhra Pradesh, Tamil Nadu, South & North Interior Karnataka, Maharashtra, some parts of West Rajasthan, Saurashtra & Kutch, 0 to 2°C over remaining parts of the Country.

**Relative Humidity (%) over India for the week ending 15.07.09**



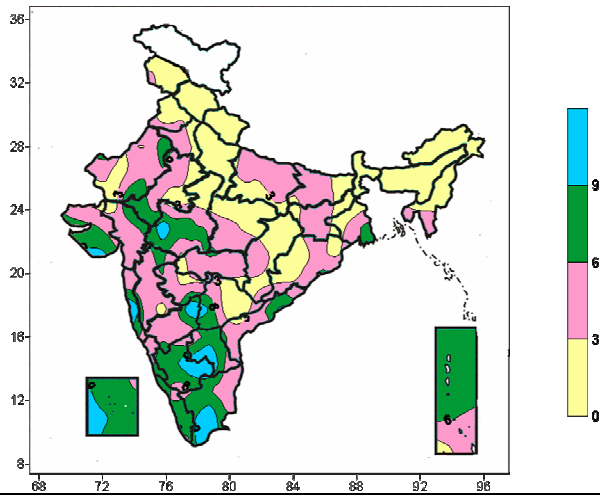
Relative humidity more than 80% over most parts of Jharkhand, West Bengal & Sikkim, South Gujarat, South Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha, Madhya Pradesh, Chattisgarh, Orissa, Coastal Karnataka, Lakshdweep, Andaman & Nicobar Islands, some parts of Bihar, Assam & Meghalaya, Mizoram, Tripura, Marathwada, Interior Karnataka, Kerala, Coastal Andhra Pradesh, Telengana, 40 to 60% over most parts of Rayalaseema, some parts of West Rajasthan, Coastal Andhra Pradesh, Tamil Nadu, 60 to 80 % over remaining parts of the country.

**Cloud amount (okta) over India for the week ending 15.07.09**



Cloud amount 6 okta and above over most parts Jharkhand, Mizoram, Gangetic West Bengal, Orissa, Chattisgarh, South Gujarat, South Saurashtra & Kutch, Maharashtra, Coastal Andhra Pradesh, Karnataka, Lakshadweep, Andaman & Nicobar Islands, some parts of Uttar Pradesh, Rajasthan, Bihar, Madhya Pradesh, Telengana, Rayalaseema, Kerala, Tamil Nadu, 2 to 4 okta over some parts of Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Rajasthan, Bihar, Sikkim, Madhya Pradesh, Madhya Maharashtra, Interior Karnataka, Telengana, Rayalaseema, 4 to 6 okta over remaining parts of the country.

**Wind speed (knots) over India for the week ending 15.07.09**



Wind speed ranged between 9 knots and above over some parts of Saurashtra & Kutch, West Madhya Pradesh, Konkan, Interior Karnataka, Telengana, Rayalaseema, Tamil Nadu, Lakshdweep Islands, 6 to 9 knots over most parts of Kerala, South Interior Karnataka, Lakshdweep, Andaman & Nicobar Islands, some parts of Rajasthan, Gangetic West Bengal, Gujarat, Saurashtra & Kutch, West Madhya Pradesh, Maharashtra, Coastal & North Interior Karnataka, Andhra Pradesh, Tamil Nadu, 0 to 3 knots over most parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, West Uttar Pradesh, Sub-Himalayan West Bengal, Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Chattisgarh, North Madhya Pradesh, some parts of Haryana, Delhi, East Uttar Pradesh, Rajasthan, Gujarat, Saurashtra & Kutch, Bihar, Jharkhand, Gangetic West Bengal, Mizoram, Tripura, Orissa, Madhya Maharashtra, Marathwada, Vidarbha, Telengana, Coastal Andhra Pradesh, Andaman & Nicobar Islands, 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 deficient/scanty rainfall except few districts.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Chamba	-79	-80	-94	-95	-69
Kullu	20	-93	-72	-90	-23
Lahaul and Spiti	148	-100	-98	-94	-42
<b>2 weeks continuously deficient to no rain</b>					
Mandi	-47	-100	-18	-84	-24
Solan	-75	-100	-16	-96	-69
Una	28	-100	1	-100	-62
<b>Districts received sufficient rainfall during previous week</b>					
Bilaspur	-44	-100	-59	-99	-19
Kinnaur	-91	-7	4	-86	208
Sirmaur	-87	-100	-56	-95	11

- **Rainfall Forecast:** Isolated during next 48 hours and increase thereafter
- **Major Kharif Crops:** Vegetables
- **Crop Stage:** Sowing, transplanting
- **Crop Condition:** Good. Apple is facing moisture stress in fruit development stage.

**Advisory:** Transplanting solanaceous vegetable crops and sowing of maize may be taken up where adequate rainfall was received. Resowing of maize may be done in Una, Hamirpur, Bilaspur and Kangra.

- **Major Seasonal Crop:** Fruit crops, Flower crops and Vegetables
  - Undertake weeding, intercultural operations and top dressing of fertilizers on a non rainy day.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
- fruit fly in on tomato crop, spray mixture of 1kg sugar or gur + 200ml (malathion/ cythion/ masthione 50 EC) in 100 litre of water.
- red pumpkin beetle and fruit fly in curcubits, spray Malathion 1ml/litres +50 gram gur or sugar. For control of red pumpkin beetle spray cypermethrin @ 30ml per 30 litres water in one kanal.
  - Undertake spraying on a non rainy day.

### Uttarakhand

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Almora	**	**	-100	-74	-42
Chamoli	-84	-87	-59	-42	-35
Dehradun	-100	-100	-57	-67	-77
Garhwal Pauri	-100	-100	-37	-99	-63
Garhwal Tehri	-89	-100	-66	-99	-73
Nainital	-76	-100	-63	-98	-46
Pithoragarh	-92	-100	-90	-70	-35
Rudraprayag	-98	-100	-80	-94	-69
Udham Sing Nagar	**	-100	-100	-100	-55
<b>2 weeks continuously deficient to no rain</b>					
Haridwar	-100	-100	84	-98	-67
<b>Districts received sufficient rainfall during previous week</b>					
Champawat	-100	-100	196	-95	-3
Uttarkashi	-100	-100	282	-61	35

- **Rainfall Forecast:** Isolated during next 48 hours and increase thereafter.

- **Major Kharif Crops:** Rice, Soyabean, Groundnut, Tur.

- **Crop Stage:** Sowing/ transplanting

- **Crop Condition:** Good

**Advisory:**

- Continue transplanting of rice seedlings.
- Undertake transplanting of vegetable with life saving irrigation.
- The nursery bed should be prepared near the pond for irrigation or removal of excess water from the seedbed.
- **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 on non-rainy days.

- Tomato, shimla mirchi etc., spray Prophenophos 50 EC @ 1 ml per litre of water on a non rainy day.

**Punjab**

- **Realised Rainfall:** Many districts of Punjab received deficient/scanty rainfall except few districts.

- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Amritsar	-100	-100	-44	-100	-24
Ferozpur	-62	-100	-80	-97	-88
Gurdaspur	-80	-100	-31	-100	-77
<b>2 weeks continuously deficient to no rain</b>					
Fatehgarh Sahib	-25	-100	34	-100	-48
Jalandhar	-97	-100	45	-95	-49
Kapurthala	-82	-100	58	-92	-20
Muktesar	-52	-100	31	-69	-56
Nawashahar	-38	-100	23	-95	-65
Patiala	-78	-100	59	-95	-59
Ropar	-6	-100	28	-98	-55
<b>Districts received sufficient rainfall during previous week</b>					
Bhatinda	-33	-100	165	-88	47
Faridkot	-100	-100	-9	-100	-14
Ludhiana	-2	-100	137	-61	-3
Moga	-100	-100	-63	-100	-4
Sangrur	-92	-100	-47	-95	117

- **Rainfall Forecast:** Isolated during next 48 hours and increase thereafter.

- **Major Kharif Crops:** Rice, maize, guar, bajra, Cotton,

- **Crop Stage:** Sowing/ transplanting

- **Crop Condition:** Rice crop is in satisfactory condition and rice transplanting completed under assured irrigation in Punjab including Basmati (50%).

**Advisory:** Transplanting of rice and sowing of maize, guar, bajra is advised where adequate rainfall was received.

- **Major Seasonal Crop with stage:** Sugarcane (stage) and Vegetables

**Advisory:** Undertake weeding, intercultural operations in sugarcane and cotton on a non rainy day.

- Harvesting of the muskmelon should be completed on bright sunny day.
- **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 on a non rainy day.
- leaf curl in cotton, follow clean cultivation to prevent the incidence of mealy bug, destroy kanghi buti (sida spl.) and Peeli buti which act as collateral host of cotton leaf curl on a non rainy day.

## Haryana

- **Major Kharif Crops:** Rice, maize, guar, bajra, Cotton
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition:** Sowing could not be completed due to insufficient rainfall in Southern Haryana. Northern Haryana is mainly having irrigation facility, But due to insufficient rain rice transplanting stage is affected (67% completed). Sowing Bajara (45%), Pulses (95%), Jowar(5%) area is covered.
- **Realised Rainfall:** Many districts of Haryana received deficient/scanty rainfall except few districts.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Faridabad	-4	-100	-76	-69	-80
Hissar	154	-100	-37	-84	-52
Rohtak	79	-100	-20	-86	-77
Sirsa	-34	-100	-97	-93	-64
<b>2 weeks continuously deficient to no rain</b>					
Ambala	-96	-100	127	-80	-67
Bhiwani	-17	-100	18	-68	-32
Chandigarh	-58	-100	-7	-97	-74
Gurgaon	-19	-100	-18	-21	-94
Jhajar	**	**	2	-65	-49
Jind	-8	-100	60	-75	-30
Karnal	-100	-100	48	-88	-49
Kurukshetra	**	**	-11	-90	-90
Mahendragarh	2	-100	223	-96	-54
Panipat	**	**	144	-89	-45
Sonepat	-100	-100	120	-95	-50
<b>Districts received sufficient rainfall during previous week</b>					
Fatehabad	-100	-100	-38	-96	-11
Rewari	**	**	30	-44	-9
Yamunanagar	-91	-100	-64	-98	-7

- **Rainfall Forecast:** Isolated during next 48 hours and increase thereafter.
- **Advisory** Advise transplanting of rice in northern part of Haryana and short duration *kharif* crops under contingent planning based on the cut off dates of sowing. (See Annexure1)
- **Major Seasonal Crop with stage:** Spring sugarcane (early vegetative/vegetative), vegetable crops (vegetative), cotton(early vegetative) and berseem (vegetative)
- **Crop Condition:**
- **Advisory:**
- Undertake hoeing and weeding and apply the remaining dose of nitrogen fertilizer to the sugarcane on a non rainy day.
- 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 inter-cultural operations in tomato, onion and chilli on a non rainy day.

## Delhi

- **Realised Rainfall:** Almost dry condition prevailed
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
New Delhi	13	-100	-48	-92	-94

- **Rainfall Forecast:** Isolated during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Maize, vegetables and rice
- **Crop Stage:** Sowing, transplanting

- **Crop Condition: Satisfactory**

**Advisory:** In view of less rain, farmers are advised to go for short duration crops especially pulses like green gram, moong, soyabean, sesamum and coarse cereals like sorghum and pearl millet as they can survive in less water conditions. They are also advised to take maize and fodder crops. In moong recommend varieties are Pusa Vishal, Pusa Ratna and Pusa 9351.

- **Major Seasonal Crop with stage:** Vegetables (flowering / fruiting / harvesting),
- **Crop Condition: Good**

**Advisory:** Farmers are advised to **conserve rain water** in the field judiciously by proper bund making. Bunds should be taller and broader.

#### Uttar Pradesh

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
<b>East Uttar Pradesh</b>					
Ambedkar Nagar	-100	-100	-70	-90	-100
Ballia	-100	-100	-36	-67	-99
Balrampur	-100	-100	-37	-96	-84
Basti	-100	-100	-34	-55	-90
Fatehpur	-100	-100	-100	-42	-57
Hardoi	-100	-100	-40	-95	-79
Kushi nagar	-100	-100	-32	-83	-99
Mau	-100	-100	-97	-22	-100
Mirzapur	-100	-100	-92	-26	-43
RaiBareilly	-100	-100	-96	-91	-24
Sultanpur	-100	-100	-59	-75	-71
Unnao	-100	-100	-100	-100	-32
Varanasi	-100	-100	-72	-38	-63
<b>2 weeks continuously deficient to no rain</b>					
Bahraich	-100	-100	38	-59	-41
Faizabad	-100	-100	18	-27	-81
Kheri	-100	-100	137	-87	-43
Maharajganj	-100	-100	14	-31	-100
Shrawasti	-100	-100	156	-99	-83
Sidharthnagar	-100	-100	16	-54	-72
<b>Districts received sufficient rainfall during previous week</b>					
Allahabad	89	-100	-42	-47	**
Banda	-100	-100	-65	-35	-10
Barabanki	-100	-100	-8	-96	27
Deoria	-100	-100	-58	-17	-96
Farrukhabad	-100	-100	-88	-100	-13
Gazipur	-100	-100	-96	-5	-84
Gonda	-100	-100	47	-15	-58
Gorakhpur	-100	-100	-67	264	-80
Jaunpur	-100	-100	-90	-90	-15
Kanpur City	-100	-100	-87	-77	52
Kanpur Dehat	-100	-100	-47	-82	-18
Lucknow	-100	-100	-55	-18	-48
Pratapgarh	-100	-100	-100	-3	33
Sant Ravidas Nagar	-100	-100	43	89	-47
Sitapur	-100	-100	17	-90	16
Sonbhadra	-100	-100	-79	20	-60

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
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West Uttar Pradesh					
More than 3 weeks continuously deficient to no rain					
Agra	-84	-100	-58	-91	-43
Bulandsahar	-100	-100	-36	-78	-67
Etah	-100	-100	-100	-95	-56
Ghaziabad	-100	-100	-100	-100	-73
Jotirba Phule Nagar	-89	-100	-100	-100	-28
Mahamaya Nagar	-100	-100	-79	-77	-87
Mainpuri	-100	-100	-100	-100	-31
Mathura	-82	-100	-74	-50	-65
Moradabad	-100	-100	-59	-100	-45
Pilibhit	-100	-100	-62	-100	-77
Rampur	-100	-100	-94	-99	-65
Saharanpur	-100	-100	-77	-98	-50
2 weeks continuously deficient to no rain					
Aligarh	-100	-100	-3	-99	-70
Bijnor	-100	-100	-3	-100	-57
Meerut	-100	-100	-7	-81	-57
Muzzaffarnagar	-100	-100	30	-100	-75
Districts received sufficient rainfall during previous week					
Auraiya	-100	-100	-98	-95	11
Badaun	-100	-100	-100	-100	52
Baghpat	-100	-100	158	-89	-19
Bareilly	-99	-100	-17	-99	-17
Etawah	-100	-100	-100	-93	32
Firozabad	-100	-100	-100	-100	12
Hamirpur	-67	-100	-71	-50	117
Jalaun	-100	-100	-100	-96	23
Jhansi	-96	-100	-82	-85	43
Lalitpur	-100	-100	-68	-40	28
Shahjahanpur	-100	-100	55	-100	-15

- **Rainfall Forecast:** Isolated places.
- **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 delayed arrival of monsoon up to 14.07.09 sowing were taken up by 32% in the State
- **West UP:** Crop sowing has been affected due to insufficient rains.

**Advisory:** Due to delayed monsoon/ insufficient rains, following contingent plan is recommended in **East UP:**

- If nursery is around 30 days old, transplant 3-4 seedlings/hill in stead of 2.
- If it is 35-40 days old, cut 3-4 cm top portion of the seedling and then transplant.
- If no rice nursery is raised, go for direct sowing.
- Select alternate crops like mung, jowar, bajra, urd etc.
- Sowing of *Kharif* crops may be done in sufficient moisture.

**Advisory for West UP:** Sowing/transplanting of rice, urd, mung, groundnut and vegetables is advised.

- **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 on a non rainy day

- Continue field preparation and planting of turmeric and ginger
- Apply irrigation to the crops
- **Plant Protection:** Spray the solution of Carbaryl @ 2 g / litre of water on a non rainy day. To control the incidences of fruit borer in tomato and brinjal,

## J & K

- **Major Kharif Crops:** Rice, maize, vegetables
- **Crop Stage:** Sowing, transplanting
- **Crop Condition:** Due to delay in monsoon and present dry spell the sowing of different *kharif* crops like maize, bajra, Pulses, oilseeds are affected,
- **Realised Rainfall:** Rain has just started.
- **Rainfall Forecast:** Rain is expected at isolated places during next 48 hours and increase thereafter.

**Advisory:** Transplanting of rice and transplanting of solanaceous vegetable crops and maize is advised.

- Prefer short duration varieties of normally sown green gram (PS-7, PS-16) and black gram (Pant U-19) crops.
- Sow sesame (Punjab Til –I).
- Sow maize (African tall) + cowpea (Type-2) / cluster bean (Ageta-guara-III) + (MP-Charri) for fodder.
- Late transplanting varieties of rice such as Chiana-1039, K-39 (SKAU-5)
- **Major Seasonal Crop with stage: Vegetables** (vegetative to fruiting)
- **Crop Condition:**

**Advisory:** Undertake intercultural operations and application of fertilizers and pesticides in vegetable crops like brinjal, tomato, chilli, capsicum, bhindi, beans, cucurbits and pumpkin

- **Plant Protection:** Spray Endosulphan @ 0.07%, or carbaryl @0.1% or DD Chlorvos @0.03%. to control fruit borer in tomato, brinjal and bhindi crop in Jammu, Kathua and Kashmir,
- Spray Metalaxyl @ 0.2% solution to control downy mildew in onion in Srinagar region,.

## Rajasthan

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
<b>East Rajasthan</b>					
Dungarpur	-93	-28	-80	-60	-44
<b>East Rajasthan</b>					
Banswara	-71	2	-72	-76	-28
<b>2 weeks continuously deficient to no rain</b>					
Dausa	-82	-100	39	-73	-51
Jaipur	-100	-99	28	-58	-28
Karauli	-63	-100	111	-91	-53
Sawai Madhopur	31	-100	-8	-74	-38
<b>Districts received sufficient rainfall during previous week</b>					
Ajmer	-36	-100	-58	-10	19
Alwar	-63	-100	70	-19	-32
Baran	-79	-100	-33	10	-43
Bharatpur	13	-100	17	-6	-30
Bhilwara	32	-96	-66	-22	8
Chittorgarh	-85	-32	-33	34	13
Dholpur	-23	-100	21	-76	30
Jhalawar	105	-98	-12	-48	48
Jhunjhunu	-100	-100	49	-53	26
Kota	130	-96	-1	55	6
Rajsamand	-69	-24	-24	-22	109
Sikar	178	-100	71	-64	-5
Sirohi	-98	-18	-99	-80	7
Tonk	168	-100	-51	-86	11
Udaipur	-7	-89	-91	-83	75

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
<b>West Rajasthan</b>					
Jaisalmer	121	-100	-66	-76	-24
Barmer	49	-41	-53	-95	82
Bikaner	234	-67	-100	87	119
Churu	-32	-99	-73	-1	-11
Hanumangarh	203	-100	-82	-17	-33
Jalore	51	-100	-91	-98	8
Nagaur	137	-18	-61	-61	-11
Pali	-76	-89	-38	-66	22
Sri Ganganagar	-99	-99	-100	140	54

- **Rainfall Forecast:** Few places.

- **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 :** Sowing of *kharif* crops is advised.

- **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 poor rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Kathihar	**	-99	-43	-60	-89
Samstipur	**	-100	-40	-79	-72
Sitamarhi	**	-80	-82	-35	-100
Siwan	**	-100	-89	-81	-100
Madhubani	**	-18	-24	-41	-93
<b>2 weeks continuously deficient to no rain</b>					
Bhagalpur	**	-96	12	-28	-62
Bhojpur	**	-100	-14	-55	-97
Darbhanga	**	-98	12	-37	-95
East Champaran	**	-78	-12	-33	-90
Khagadia	**	-80	-14	-60	-79
Saharsha	**	-72	171	-49	-98
Vaishali	**	-100	37	-75	-98
<b>Districts received sufficient rainfall during previous week</b>					
Araria	**	40	-17	9	-98
Begusarai	**	**	**	-96	-46

Bhabua	**	**	**	-85	**
Gaya	**	-100	-17	29	-77
Kishanganj	**	**	**	-94	**
Madhepura	**	**	**	**	-99
Monghyar	**	-75	2	36	-67
Muzaffarpur	**	-95	11	-13	-91
Patna	**	-100	-19	18	-84
Purnea	**	-24	103	35	-78
Rohtas	**	-100	-37	**	-41
Saran	**	**	**	**	-100
Supaul	**	**	**	-99	-100
West Champaran	**	-100	154	21	-84

- **Rainfall Forecast:** Few places.
- **Major Kharif Crops:** sow urd, sunflower, maize and pigeon pea
- **Crop Stage:** Sowing/transplanting
- **Crop Condition:** Already sown crops are in stress condition

#### Advisory

- Farmers are advised to sow urd, sunflower, maize and pigeon pea in upland areas in place of paddy. This contingency crop plan may fetch good return in the wake of subdued and weak monsoon conditions. Where irrigation facility is available, farmers are advised to do paddy transplanting only in medium and low land situations.
- Farmers are advised to sow maize, lobia and Jower as green fodder crops where there is very little scope for irrigation in upland situations.
- Shaktiman 1 and 2, Deoki and suwan varieties of maize could now be sown looking to very low rainfall and dismal monsoon situations. Apply 30 kg nitrogen, 60 kg phosphorus and 40 kg potassium per hectare at the time of sowing.
- In upland and medium land situations, sow T-9, Pant urd 30 and pant urd 19 varieties of urd. These varieties will mature in 70 to 75 days and will give good return in place of paddy in the wake of weak monsoon and low rainfall conditions.
- Weather is conducive for nursery preparation of onion and cauliflowers. The early varieties of cauliflowers may be chosen at this time.
- **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
- Apply irrigation to the standing crops.

#### Jharkhand

- **Realised Rainfall:** Some districts of Jharkhand received good amount of rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Giridih	**	-100	-23	-24	-74
Bokaro	**	-100	-1	-40	-5
Dhanbad	**	-100	-23	26	-54
East Singbhum	**	-100	-84	25	92
Hazaribagh	**	-100	-14	-19	-40
Koderna	**	**	**	**	-87
Lohardagga	**	**	**	**	-93
Palamau	**	-100	3	-5	-26
Ranchi	**	-100	-33	29	33

Santhal Parganas	**	-95	-36	-17	-38
West Singhbhum	**	**	**	**	-92

- **Rainfall Forecast:** Few places.
- **Major Kharif Crops:** Maize, Arhar Ragi, Vegetables
- **Crop Stage: Sowing**
- **Crop Condition: Improving from stress condition**

**Advisory :** Due to delay in monsoon and insufficient rain, contingency plan for sowing of Maize, Arhar Ragi, Vegetables in upland, middle land and low land is advised (Detail of the contingency plan is given in Annexure 2)

- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth),
- **Crop Condition: Good**
- **Advisory:** Farmers are advised to undertake weeding, intercultural operations in sugarcane on a non rainy day.

## Orissa

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>Orissa</b>					
Angul	-35	-99	-45	70	177
Balasore	-85	-95	-15	-77	116
Bargarh	-100	-100	-35	155	246
Bhadrak	-65	-79	-20	-39	252
Bolangir	-91	-95	-65	9	247
Boudh	-92	-99	-24	107	373
Cuttack	-76	-97	26	159	288
Deogarh	-79	-100	-55	33	30
Dhenkanal	-56	-100	-60	69	291
Gajapati	-9	-55	14	26	147
Ganjam	-87	-66	-29	15	355
Jagatsingpur	-85	-82	-66	205	217
Jajpur	-81	-100	14	-3	171
Jharsuguda	-98	-100	-56	115	-8
Kalahandi	-93	-95	-47	-22	325
Kandhamal	-91	-89	-1	-3	386
Kendrapara	-72	-93	-57	39	251
Keonjhar	-48	-99	-42	-5	315
Khurda	-34	-94	39	29	342
Koraput	-40	-81	-49	-51	202
Malkangiri	-88	-87	-70	-38	75
Mayurbhanj	-65	-97	-3	21	142
Nawapara	-94	-100	-64	33	263
Nawarangpur	-51	-68	24	-21	130
Nayagarh	-44	-80	53	-6	564
Puri	-83	-92	-2	45	254
Rayagada	-32	-45	13	37	144
Sambalpur	-73	-99	-70	-12	107
Sonepur	-84	-93	-27	127	318
Sundargarh	-87	-100	-18	8	10

- **Rainfall Forecast:** Few places during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, ragi, arhar, maize, green gram, blackgram
- **Crop Stage: Good**
- **Crop Condition:** Sowing in medium land is continuing.

Wet nursery sowing in medium land, upland sowing of paddy and non-paddy crops continued at most places. Transplanting during last week affected due to heavy rain.

**Advisory:** In medium land continue sowing, and nursery may be raised with short duration rice varieties.

- Similarly rice variety for upland is not more than 90 days.
- If such varieties are not available, go for non-paddy crops in uplands.
- Drain out excess water from the upland non-paddy crops and nurseries.
- Go for sowing of sesame.
- **Major Seasonal Crop with stage:** Sugarcane (early vegetative), vegetables (fruiting / harvesting), onion (vegetative), jute (early vegetative),
- **Crop Condition: Good**

**Advisory:** As rain/thundershowers are likely at many places over the State with isolated heavy to very heavy rainfall with for the next two days, postpone irrigation, weeding and intercultural operations.

Provide adequate drainage facilities to avoid waterlogging

Digging of pits may be done and undertake planting of fruit trees as rain is received during last week.

- 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 mild wilting, spray the crop with 1 gm treptocycline + 20 gm copper oxichloride in 10 litres of water after current spells of rain.

### West Bengal

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
GWB					
Hooghly	-94	-91	-23	-65	-64
24 Pargana (N)	-99	-80	-52	-39	-69
<b>2 weeks continuously deficient to no rain</b>					
Howrah	-58	-84	-6	-85	-47
Murshidabad	-63	-99	22	-51	-89
<b>Districts received sufficient rainfall during previous week</b>					
Bankura	-86	-100	-65	-1	5
Birbhum	-68	-94	-34	-5	-53
Burdwan	-62	-100	-36	27	-51
Midnapore	-99	-91	-45	-15	8
Nadia	-58	-89	7	-2	-78
Purulia	-45	-100	-55	22	14
24 Pargana (S)	-82	-83	-10	30	-31

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
SHWB					
Malda	-87	-100	-35	-33	-86
Dinajpur (S)	-34	-67	-100	-49	-81
<b>2 weeks continuously deficient to no rain</b>					
Coochbehar	22	-42	31	-41	-95
<b>Districts received sufficient rainfall during previous week</b>					
Darjeeling	-25	-37	-8	62	-33
Jalpaiguri	-16	-6	88	39	-81
Dinajpur (N)	**	**	-11	9	-98

- **Rainfall Forecast:** Few places during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, vegetables
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition: Good**

**Advisory:** Continue transplanting of rice seedlings.

- Undertake transplanting of vegetable with life saving irrigation.
- The nursery bed should be prepared near the pond for irrigation or removal of excess water from the seedbed.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative), jute (vegetative)

- **Crop Condition: Good**

**Advisory:** Due to scanty/deficient rain conditions in New alluvial zone, jute crop at harvesting stage is affected. Farmers are advised to conserve the moisture in the soil.

- **Plant protection**

- Rainfall along with high humidity may lead to rhizome rot of ginger and turmeric in Coastal saline Zone. Raise the level of the beds to help the surplus rain water to flow freely; drench the soil around the rhizome with any Copper oxy chloride preparation (0.4%) @ 5 litre / sq. m. or spray with Metalaxyl 75 WP @ 1.5 g / litre of water before the appearance of the disease.
- 5 litre / sq. m. or spray with Metalaxyl 75 WP @ 1.5 g / litre of water before the appearance of the disease.

#### Sikkim

- **Realised Rainfall:** Deficient rainfall is received over the state.
- **Rainfall distribution for last 5 weeks:**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>Sikkim</b>	-100	-67	-57	-2	-30

- **Rainfall Forecast:** Few places during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice
- **Crop Stage:** Transplanting
- **Crop Condition: Good**

**Advisory:** Continue transplanting of rice seedlings. Farmers are advised to continue preparation of land for transplanting of seedlings in the low hills and transplanting should be completed by 15<sup>th</sup> July. Water level of 5cm to at least 3/2.5 cm should be maintained in transplanted paddy fields for better yield

- **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: Ginger:** Early Vegetative/Vegetative; **Orange:** Nursery Transplanting of Seedlings/ Flowering/ Early Fruiting/Fruiting.
- **Crop Condition: Good**

**Advisory:** The orchard must be inspected from time to time and plugging of trunk borer holes repeated and light pruning of undesirable growth/ sprouts emerging out of the trunks and removal of parasitic plants should be done.

- Top dressing of ginger with organic manures and mulching to be done on non rainy days on monthly basis. Proper drainage to be maintained and weeding to be done on non rainy days.
- Nursery beds of large cardamom suckers may be mulched properly with dried forest leaves in order to prevent soil erosion and weed growth.
- 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 deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Bongaigaon	41	-37	-55	-56	-90
Dhubri	97	-25	-75	-60	-94

Hailakandi	-61	-98	-51	-75	-90
Nowgong	-91	-83	-63	-65	-88
<b>3 weeks continuously deficient to no rain</b>					
Sibsagar	-17	11	-86	-32	-43
<b>2 weeks continuously deficient to no rain</b>					
Barpeta	213	-54	103	-32	-84
Cachar	-50	-49	46	-25	-70
Jorhat	-38	-90	-2	-20	-45
Kokrajhar	-15	-40	-4	-29	-100
Lakhimpur	-45	-80	-1	-27	-26
<b>Districts received sufficient rainfall during previous week</b>					
Darrang	19	-100	-51	156	-41
Dibrugarh	-28	-47	-2	38	-47
East Garo Hills	-44	-97	286	88	-79
East Khasi Hills	-53	-59	132	113	-63
Goalpara	49	-80	-12	46	-95
Golghat	-49	-17	-75	1	20
Kamrup	20	-89	-9	4	-66
Karbi Analog	-98	-48	-60	-14	-12
Karimganj	78	-53	-33	36	-49
Morigaon	-96	-87	-15	-16	-14
Nalbari	11	-54	45	-2	-29
Sonitpur	51	-66	8	-46	11
Tinsukia	-76	-5	11	54	-84

- **Rainfall Forecast::** many places
- **Major Kharif Crops:** Sali paddy
- **Crop Stage:** Transplanting
- **Crop Condition:** Good

**Advisory:** Transplanting of sali paddy may be continued with varieties like Ranjit, Mahsuri, Bahadur, Kushal etc.

- **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 many places over the State for the next five days, postpone irrigation, weeding and intercultural operations. As maize and jute crops are sensitive to water logging, provide adequate drainage facilities to remove excess water.
- Harvesting and retting of *Capsularis* jute should be done preferably at pre-flowering stage (120days after sowing) to get better quality fibre. At present the water temperature in the retting tanks is ideal for retting of jute. Late sown *Capsularis* jute may be harvested after current spells of rain and kept in the field in standing position for 3-4 days before retting for proper defoliation.

- **Plant protection:**
- There is chance of attack of fruit fly, red pumpkin beetle and epilachna beetle in summer gourds. Spray endosulphon or malathion 50 EC @ 1 ml per litre of water after current spells of rain.
- Attack of stem borers may be observed in sugarcane. Spray monocrotophos 40 EC @ 150-200 ml per 150 litres of water with hand sprayer in the field after current spells of rain to control attacks.

**Animals**

- The cattle, goat and pigs should be vaccinated against foot and mouth disease as well as anthrax disease. They should be fed with anti worm drugs.

**Fishery**

- The beds of ponds for fisheries should be ploughed followed by application of cow dung and lime at recommended dose.

**Arunachal Pradesh**



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

<b>More than 3 weeks continuously deficient to no rain</b>					
State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
Changlang	-88	-99	-80	-63	-90
Lower Subansiri	-42	-98	-73	-87	-86
<b>2 weeks continuously deficient to no rain</b>					
Upper Subansiri	-56	56	-15	-70	-88
<b>Districts received sufficient rainfall during previous week</b>					
East Kameng	-84	-95	81	92	-79
East Slang	-72	-91	64	10	-85
Lohit	-66	-42	-3	95	-81
Papumpara	77	45	138	22	28
Tawang	-88	-78	-52	-12	-80
Tirap	21	78	-30	-1	-21
West Kameng	119	61	333	449	-48
West Siang	-7	-95	47	81	**

- **Rainfall Forecast:** Many places
- **Major Kharif Crops:** *jhum* rice, WRC rice, millets
- **Crop Stage:** tillering/vegetative
- **Crop Condition:** Good.
- **Advisory:** Postpone irrigation, weeding and intercultural operations. Maintain 3-5 cm standing water in rice field.
- **Major Seasonal Crop:** Vegetables
- Undertake weeding, intercultural operations and top dressing of fertilizers after current spells of rain.
- **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.

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

- **Realised Rainfall:** Most of the districts received rainfall in coastal Andhra Pradesh and Telangana during last week except Rayalaseema.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
<b>Coastal Andhra Pradesh</b>					
Guntur	-36	-88	-90	-61	-80
Krishna	-15	-99	-72	-43	-38
<b>3 weeks continuously deficient to no rain</b>					
Nellore	95	-7	-30	-41	-71
<b>Districts received sufficient rainfall during previous week</b>					
East Godavari	-72	-96	-49	62	-19
Sirkakulam	-52	-59	49	37	86
Visakhapatnam	-41	-73	51	-42	76
Vizianagram	-42	-36	82	-28	100
West Godavari	-91	-94	-63	19	-47

Telangana	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Mehabubnagar	-10	-82	-99	-78	-61
Medak	-70	-59	-91	-75	-49

Nalgonda	-12	-86	-98	-78	-62
Rangareddy	-26	-38	-81	-31	-38
<b>Districts received sufficient rainfall during previous week</b>					
Adilabad	-98	-85	28	-35	52
Karimnagar	-87	-56	-29	-37	30
Khammam	-84	-89	-84	-40	43
Nizamabad	-74	-86	-40	-10	41
Warangal	-57	-94	-51	-42	-4

<b>Rayalaseema</b>	<b>17.06.09</b>	<b>24.06.09</b>	<b>01.07.09</b>	<b>08.07.09</b>	<b>15.07.09</b>
<b>More than 3 weeks continuously deficient to no rain</b>					
Anantapur	10.5	-50	-83	-82	-84
Kurnool	17.5	17	-95	-77	-59
<b>2 weeks continuously deficient to no rain</b>					
Chittoor	13	71	39	-72	-86
Cuddapah	13.1	-11	103	-90	-96

- **Rainfall Forecast:** Few places over Coastal Andhra Pradesh and Telangana during next 48 hours and increase thereafter. Few places over Rayalaseema
- **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:** Sowing of crops like ground nut, jowar, maize, pulses, sesame, sunflower and cotton is affected in Rayalaseema.

**Advisory:** As the rainfall is not adequate in the State, different district wise cropping strategies including sowing of short duration *kharif* crops is advised in many parts of the State. Sowing of rice and sunflower in Rayalaseema may be taken up where adequate rainfall was received.

- **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 on a non rainy day in Rayalaseema and after current spells of rain in Coastal Andhra Pradesh and Telangana. Apply irrigation in Rayalaseema.
- Harvesting of the muskmelon should be completed on bright sunny day.

**Plant Protection:** Weather conditions are favourable for mild incidences of –

- stem borer in rice, spray Cartap hydrochloride @ 2 g or Phosphomidon @ 2 ml per litre of water or apply Cartap hydrochloride granules @ 8-10 kg per acre upto 20-25 days after planting.
- damping off in nurseries of vegetable crops, drench nurseries with Copper-Oxy-Chloride @ 3 g per litre of water and apply Carbofuran granules one week before pulling nursery @ 100 g per nursery required for one acre of crop.
- smut in sugarcane. To control, dip the setts in Propiconazole solution @ 1 ml per litre of water for 15 minutes before planting. In ratoon crop, spray Propiconazole @ 0.5 ml per litre of water at 30 to 35 days after ratooning and 2<sup>nd</sup> spray at 30 days after the 1<sup>st</sup> spray.
- Undertake spraying on a non rainy day in Rayalaseema and after current spells of rain in Coastal Andhra Pradesh and Telangana.

## Karnataka

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

<b>State/Districts</b>	<b>17.06.09</b>	<b>24.06.09</b>	<b>01.07.09</b>	<b>08.07.09</b>	<b>15.07.09</b>
<b>3 weeks continuously deficient to no rain</b>					
<b>North Interior Karnataka</b>					
Bijapur	238	50	-75	-55	-40
Gulbarga	-56	108	-85	-34	-55

Raichur	33	35	-68	-95	-73
<b>North Interior Karnataka</b>					
Bagalkote	246	134	-75	-29	5
Belgaum	32	56	-73	3	277
Bidar	-48	-41	-96	-53	-49
Dharwad	94	-15	-49	33	108
Gadag	90	-55	-40	16	51
Haveri	67	-80	-88	118	226
Koppal	71	221	-91	-80	29

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>3 weeks continuously deficient to no rain</b>					
<b>South Interior Karnataka</b>					
Kolar	271	86	-59	-79	-81
Bangalore Urban	245	-93	-40	5	-83
Chamarajnagar	10	-45	-87	29	24
Chickmagalur	-69	-64	-66	108	150
Chitradurga	157	32	-82	74	12
Davangere	94	-9	-52	85	43
Hassan	-92	-80	-81	-21	-17
Kodagu	-64	-57	-66	86	107
Mandya	169	-23	-99	19	-10
Mysore	-38	-93	-79	57	85
Shimoga	-89	-72	-76	115	109
Tumkur	416	-13	-54	17	-75

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>Coastal Karnataka</b>					
Dakshin Kannada	-79	-71	-40	122	34
Udupi	-73	-76	-28	148	50
Uttar Kannada	-78	-42	-58	115	50

- **Rainfall Forecast:** most places with heavy to very heavy rainfall at a few places in coastal Karnataka and at a few places in 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:** Due to poor rainfall in Bijapur and Raichur, sowing of crops have been affected.
- **Advisory:** Continue transplanting of rice in coastal Karnataka. Sowing of short duration *kharif* crops is advised in Interior Karnataka.
- **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 day in Interior Karnataka and after current spells of rain in coastal Karnataka.

**Plant Protection:** Weather conditions are favourable for mild incidences of –

- leaf eating caterpillars in greengram, spray the crop with 4 g Carbaryl or 2 ml Chlorpyrifos dissolved in one liter of water. In the areas where there is scarcity of water, dusting of Quinolphos (1.5 %) or Fenvolvarate(0.4 %) may be done.
- 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 on a non rainy day in 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	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>3 weeks continuously deficient to no rain</b>					
Thiruvananthapuram	-76	3	-27	-38	-32
<b>2 weeks continuously deficient to no rain</b>					
Kollam	-83	-18	5	-42	-44
<b>Districts received sufficient rainfall during previous week</b>					
Alappuzha,	-21	-26	47	-3	-59
Kannur	-80	-30	8	52	3
Ernakulam	-48	-30	25	18	-31
Idukki	-62	-64	-3	9	16
Kasaragod	-77	-40	-19	65	-24
Kottayam	-59	-22	7	-7	-59
0Kozhikode	-80	-71	51	95	33
Malappuram	-78	-52	-12	18	24
Palakkad	-84	-50	-29	38	84
Pathanamthitta	-71	-27	4	7	-48
Thrissur	-72	4	-13	37	-2
Wyanad	-42	-77	-75	-15	35

- **Rainfall Forecast:** Many places with isolated heavy to very heavy rainfall over Kerala.

- **Major Kharif Crops:** Rice

- **Crop Stage:** Transplanting

- **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 spells of rain.

**Plant Protection:** Weather conditions are favourable for mild incidences of –

- thrips in broadcasted rice field, spray carbaryl or dimethoate @250ml/ha.

- sheath blight in transplanted rice, spraying of Pseudomonas culture @ 15 g / l is advised

- downy mildew in cucurbits, spray mancozeb @ 0.2%.

- Undertake spraying after current spells of rain.

### Tamilnadu

- **Realised Rainfall:** Most of the districts of the state received poor rain.

- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
Chennai	-96	-76	-87	-67	-99
Dharmapuri	35	-100	-100	-63	-76
Kanchipuram	-100	-89	-37	-91	-99
Karur	-50	-75	-95	-100	-100
Krishnagiri	-100	-71	-100	-76	-65
Ramanathapuram	-89	-100	-74	-98	-100
Tuticorin	-78	-100	-100	-100	-100
Vellore	114	-39	-65	-96	-100
Villupuram	190	-90	-27	-64	-79
Virudhunagar	-100	-100	-100	-100	-100
<b>3 weeks continuously deficient to no rain</b>					
Perambalur	17	23	-83	-75	-100
Tiruvallur	-84	15	-81	-82	-98
<b>2 weeks continuously deficient to no rain</b>					

Cuddalore	125	-84	70	-65	-100
Dindigul	367	-100	219	-92	-95
Madurai	88	-100	228	-99	-100
Nagapattinam	68	-100	25	-100	-100
Namakkal	-100	-93	114	-43	-100
Pondicherry	22	-89	52	-39	-75
Pudukottai	-13	-77	32	-66	-100
Sivaganga	-49	-100	61	-84	-100
Thanjavur	-34	-100	101	-81	-97
Tiruvavur	-57	-100	90	-100	-100
Trichy	53	107	86	-55	-100
<b>Districts received sufficient rainfall during previous week</b>					
Coimbatore	-100	-50	200	579	611
Erode	25	-94	59	-2	-100
Kanyakumari	6	79	-69	-65	45
Nilgiris	-63	-49	-27	36	110
Salem	179	-40	-85	95	-97
Theni	-20	2	299	471	388
Tirunelveli	-100	-89	-84	-35	147

- **Rainfall Forecast:** Few places
- **Major Kharif Crops:** Rice
- **Crop Stage:** Sowing
- **Crop Condition:** Satisfactory

**Advisory:** Continue sowing of crops like cotton, groundnut and transplanting of rice seedlings.

- **Major Seasonal Crop:** Sugarcane and vegetables
- Intercultural operations, application of fertilizers may be continued in vegetables and sugarcane on a non rainy day
- Apply irrigation to the standing crops.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
- little leaf in brinjal in Coimbatore, sucking pests in vegetable crops in Erode and leaf spot in banana in Kanyakumari districts; undertake plant protection measures on a non rainy day to control the pests.

#### WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

##### Maharashtra

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

<b>Maharashtra</b>					
<b>Konkan &amp; Goa</b>					
Goa	-59	-59	-21	199	70
Mumbai	-100	-88	11	55	189
Raigad	-99	-72	-50	-17	67
Ratnagiri	-99	-72	-37	115	51
Sindhudurg	-85	-60	54	247	122
Thane	-100	-66	-58	-31	32
<b>Madhya Maharashtra</b>					
Ahmednagar	-99	114	-93	101	-2
Dhule	-100	13	-46	33	52
Jalgaon	-99	-34	-26	65	12
Kolhapur	-90	-72	-63	46	176
Nandurbar	-100	-24	-87	-61	-2
Nasik	-100	15	-72	133	-11
Pune	-100	-30	-96	-59	23
Sangli	-53	-53	-98	12	62

Satara	-98	-27	-78	5	132
Solapur	-72	108	-80	-49	40
<b>Marathwada</b>					
Aurangabad	-100	-62	-60	93	15
Beed	-79	17	-29	227	40
Jalna	-100	-74	-47	131	126
Latur	-51	-56	-64	**	15
Nanded	-83	-72	-14	-28	51
Usmanabad	-97	-3	-98	-14	49
Parbhani	-94	-45	-33	25	45
<b>Vidarbha</b>					
Akola	-100	-92	62	85	-11
Amraoti	-100	-94	13	118	-11
Bhandara	-96	-100	-52	-26	143
Buldhana	-100	-38	13	127	-9
Chandrapur	-81	-99	-62	11	2
Gadchiroli	-95	-90	-50	-46	41
Gondia	-95	-90	-40	-34	142
Nagpur	-95	-92	34	43	118
Wardha	-92	-94	31	30	-20
Washim	-100	-47	-37	-29	7
Yeotmal	-92	-90	27	-17	-45

- **Rainfall Forecast:** Most places over Konkan & Goa during next 48 hours and decrease thereafter. Many places over Madhya Maharashtra and Vidarbha during next 24 hours and decrease thereafter. Few places over Marathwada. Heavy to very heavy rainfall at a few places over Konkan & Goa, Isolated heavy to very heavy rainfall over north Madhya Maharashtra, Vidarbha
- **Major Kharif Crops:** Rice, cotton, Vegetable, Pulses, Bajra, groundnut, tur, horse gram, soybean, jowar
- **Crop Stage:** Sowing/ transplanting
- **Crop Condition:** Good
- **Advisory:** Continue transplanting of rice in Konkan and avoid transplanting during heavy rainfall. Sowing of cotton and rice is advised in Vidarbha. Sowing of short duration crops like bajra, tur, horse gram is advised in Madhya Maharashtra. Sowing of bajra, jowar, groundnut is advised in Marathwada.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
- Undertake intercultural operation, fertilizer application in early sown crops, sugarcane and vegetables after current spells of rain in Konkan, on a non rainy day in Madhya Maharashtra, Marathwada and Vidarbha.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
- downy mildew on cucumber, bottle gourd, ridge gourd & bitter gourd in western Maharashtra scarcity zone, spray Matalaxyl MZ 72 @ 25 gm or Phosetil @ 20 gm plus Mancozeb @ 20 gm in 10 liters of water by 10 days interval.
- bud borer in sapota (*chikku*) in Thane district, for control spray Neemazal @ 8 ml per 10 lits. of water.
- Apply plant protection measures after current spells of rain in Konkan, on a non rainy day in Madhya Maharashtra, Marathwada and Vidarbha.

## Gujarat

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

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>More than 3 weeks continuously deficient to no rain</b>					
<b>Gujarat Region</b>					
Dangs,	-100	-49	-86	-38	-37
<b>Gujarat Region</b>					

Ahmedabad	-99	-87	-95	-70	81
Anand	-98	-99	-99	-81	35
Banaskantha	-38	-92	-91	-97	48
Baroda	-100	-55	-99	-26	-1
Broach	-100	-73	-96	2	-50
Dahod	-68	-73	-91	-55	7
DNH & Daman	-100	-51	-53	-10	66
Gandhinagar	-98	-97	-100	-56	71
Kheda	-97	-92	-100	-81	6
Mehsana	-89	-100	-99	-87	58
Narmada	-100	-80	-96	-69	-3
Navsari	-99	-95	-72	-53	-17
Panchmahal	-70	-69	-99	-36	-16
Patan	-66	-100	-86	-88	-5
Sabarkantha	-71	-65	-99	-39	60
Surat	-100	-93	-72	-58	4
Valsad	-100	-56	-55	-48	21

Saurashtra, Kutch & Diu region	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
Amreli	-100	-4	-42	14	173
Bhavnagar	-100	-55	-67	-23	46
Diu	-100	-70	-27	-58	**
Jamnagar	-100	-75	154	-76	177
Junagarh	-100	23	41	-5	159
Kutch	-100	-78	50	-92	70
Porbandara	-100	8	172	-88	171
Rajkot	-100	-83	-41	14	44
Surendranagar	-100	-36	-39	-55	70

- **Rainfall Forecast:** Most places during next 48 hours and decrease thereafter. Heavy to very heavy rainfall at a few 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 green gram, black gram, cluster bean, cowpea, groundnut, bajra, sesamum, pulses, cotton in all the districts.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
  - Undertake inter-cultural operation and application of fertilizer and plant protection measures to the early sown standing crops after current spells of rain.
  - **Plant Protection:** Weather conditions are favourable for mild incidences of –
  - stem rot in groundnut. Tricodarma @ 2.5-3 kg with 500 kg castor cake should be applied at the time of sowing in furrow.

#### CENTRAL INDIA [M.P., CHHATTISGARH]

##### Madhya Pradesh

- **Realised Rainfall:** Good amount of rain is received in most of the districts.
- **Rainfall distribution for last 5 weeks**

State/Districts	17.06.09	24.06.09	01.07.09	08.07.09	15.07.09
<b>East Madhya Pradesh</b>					
<b>More than 3 weeks continuously deficient to no rain</b>					
Jabalpur	-23	-100	-37	-65	-43
Mandla	-100	-100	-99	-25	-44

Narsingpur	-100	-100	-79	-68	-63
Sagar	-55	-91	-43	-23	-30
<b>2 weeks continuously deficient to no rain</b>					
Umariya	-100	-100	31	-59	-53
<b>Districts received sufficient rainfall during previous week</b>					
Balaghat	-85	-100	-60	4	45
Chhatarpur	-100	-100	-15	-24	20
Chindwara	-73	-100	-31	138	78
Damoh	-100	-100	-72	-15	-10
Dindori	-100	-100	-100	13	-60
Katni	-100	-100	-72	12	-52
Panna	-100	-100	-100	-32	22
Rewa	-100	-100	-83	-12	112
Satna	-95	-100	-72	3	1
Seoni	-91	-92	-49	**	42
Shahdol	-95	-100	-100	-42	8
Sidhi	-100	-100	-43	-10	13
Tikamgarh	-100	-100	-61	-86	63
<b>State/Districts</b>	<b>17.06.09</b>	<b>24.06.09</b>	<b>01.07.09</b>	<b>08.07.09</b>	<b>15.07.09</b>
<b>West Madhya Pradesh</b>					
<b>More than 3 weeks continuously deficient to no rain</b>					
Guna	-76	-100	-57	-74	-23
Hosangabad	-31	-100	-40	-35	-27
Raisen	-65	-98	-88	-33	-31
Ratlam	-100	-86	-57	-88	-20
Shajapur	-100	-94	-89	-27	-24
Sheopur Kalani	-92	-100	-49	-92	-89
<b>Districts received sufficient rainfall during previous week</b>					
Badwani	-100	-100	-97	-61	20
Betul	-100	-97	-21	96	-27
Bhind	-100	-100	-98	-100	33
Bhopal	-96	-77	-20	-47	-3
Datia	-84	-100	-21	14	72
Dewas	-100	-100	28	-32	-19
Dhar	-100	-87	-55	-41	84
Gwalior	-99	-100	-72	-79	52
Harda	-100	-100	46	-1	-81
Indore	-100	-71	67	-77	60
Jhabua	-100	-100	-84	81	-15
Khandwa	-100	-79	-32	-34	4
Khargone	-100	-79	7	26	15
Mandsaur	-100	-100	-100	-83	90
Morena	-100	-100	-2	-99	-14
Neemuch	-100	-100	-90	119	39
Rajgarh	-100	-96	-85	-56	-9
Sehore	-100	-100	-11	-59	14
Shivpuri	-100	-100	13	-63	38
Ujjain	-99	-98	28	-52	21
Vidisha	-89	-100	-18	-68	-12

- **Rainfall Forecast:** Many places with isolated heavy to very heavy falls.
- **Major Kharif Crops:** Rice, jowar, sunflower, maize, jowar and soybean
- **Crop Stage: Sowing/transplanting**
- **Crop Condition:** Sowing of Bajra is completed in 50% area in Chamba and Gwalior regions but facing soil moisture stress due to insufficient rainfall in earlier weeks. Soybean (in both regions) is at germination stage but facing moisture stress in Malwa & Vindyan region due to insufficient rainfall in earlier weeks.

**Advisory:** Continue Raising the nursery of paddy (short duration).

- Continue sowing of short duration *kharif* crops like jowar, sunflower, maize, jowar and soybean.



- Manage proper drainage facilities in the field. Follow inter cropping of maize and mung with soyabean.
- **Major Seasonal Crop with stage:** Sugarcane (cane development), cotton (boll development/maturity) and vegetable crops (vegetative)
- **Crop Condition: Good**

**Advisory:** Undertake intercultural operations in of 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 after spells of rain.
- **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 Galghotu, Langadi and Anthrex in Sagar, Bhopal, Vidisha, Damoh, Raisen, Sehore.

### Chattisgarh

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

Chattisgarh					
Bastar	-60	-99	-47	-16	83
Bilaspur	-92	-100	-63	22	12
Dantewara	-100	-100	-82	3	78
Dhamtari	12	-99	-56	-4	507
Durg	-100	-100	-64	-51	218
Janjgir	-100	-100	-98	-34	120
Jashpurnagar	-100	-100	-75	-6	-2
Kanker	-100	-100	-93	-5	184
Korba	-100	-100	-95	-10	91
Koriya	-100	-100	-27	-12	-30
Mahasumund	-100	-100	-52	237	220
Raigarh	-100	-100	-51	37	111
Raipur	-89	-99	-61	-1	200
Rajandgaon	-100	-97	-46	-22	169
Surguja	-95	-100	9	-65	10

- **Rainfall Forecast:** Many places during next 24 hours and decrease thereafter.

- **Major Kharif Crops:** Rice, soybean, maize, sesamum, tur.
- **Crop Stage:** Sowing
- **Crop Condition: Good**

**Advisory:** Farmers are advised to continue sowing of early and medium varieties of rice (upto 100 day).

- Undertake sowing of soybean, pegenpea with Soybean are advised.
- Undertake sowing of maize, groundnut and black gram (in light soils of transmahanadi belt of Chhattisgarh).
- **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 after spells of rain.

- As rain/thundershowers are likely to occur at many places over the state, farmers are advised to postpone irrigation to the crops.

### **Annexure I Contingent Plan for Bihar**

- Mid July is a peak time for rice transplanting .In delayed rain situation protect rice seedling and transplanting can be done after providing irrigation. Prefer early /mid duration rice variety for transplanting.
- In deficit rain situation adopt SRI method of rice cultivation.
- If the sowing of medium & long duration rice varieties have not been done for any reason, this may be done immediately considering that late maturity wheat can be sown after harvesting of rice.

### **Annexure II Contingent Plan for Jharkhand**

- Undertake sowing of high yielding in variety of maize like swan composite, Birsa maize, Kanchan & hybrid GS-2.
- Undertake sowing of arhar variety Upas & Laxmi.
- Undertake sowing and transplanting of ragi variety like A-404, Birsa Ragi-1. The seedling is about 8 – 10 days foliar spray of 1 % urea provided. The seedling transplant in 15 to 20 cm row to row.

### **Annexure III Contingent Plan for Haryana In South western Zone**

#### **Gaur & Moong**

- Undertake sowing of Guar HG 563 and HG 365 by mid July.
- Grow recommended moong bean varieties except, Asha/ K-851. In situation where farmer does not wish to keep the field fallow, the order of priority of crop is Moong (Bharpai and Satya) & Bajra short duration hybrid HHB 197/ HHB-67 improved.
- Under condition of delayed sowing of crops, seed rate may be increased by 10%.
- Apply recommended dose of fertilizers.
- Some area may be used for growing of cowpea fodder.

#### **Bajra**

- Sowing should be done preferably using ridger seeder on the shoulders of ridges.
- Grow short duration hybrids viz. HHB 197 and HHB-67 improved. Avoid Bajra sowing beyond 1st week of August.
- Apply recommended dose of fertilizer. Ensure nursery raising if, irrigation is available. Transplant three weeks old seedlings on rainy days.
- Apply life saving irrigation.
- Follow interculture operations to control weeds using wheel hand hoe and conserve moisture.
- Thinning to reduce 1/3rd population should be done in timely sown crop.