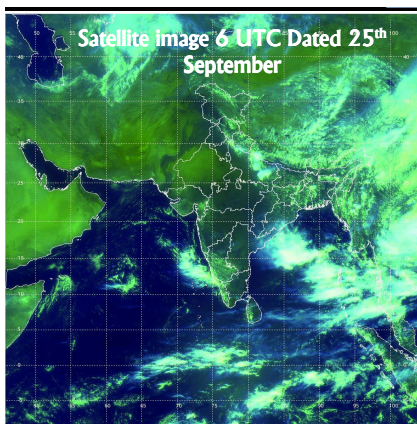




National Agromet Advisory Bulletin

Thursday, 24th September, 2009 (For the period 24th to 28th September, 2009)



Rainfall Forecast valid upto 1430 hours IST of 27th September, 2009

- **Many Places:** North East India, Coastal Karnataka, Konkan & Goa and Andaman & Nicobar Islands. ,
- **Few Places:** West Bengal & Sikkim, Orissa, Bihar, Interior Karnataka, Kerala, Lakshadweep, Madhya Maharashtra.
- **Isolated Places:** Uttrakhand, Uttar Pradesh, Himachal Pradesh, Jharkhand, Andhra Pradesh, Tamil Nadu & Pondicherry, and Chhattisgarh.
- **Mainly dry Weather:** Jammu & Kashmir, Himachal Pradesh, New Delhi, Haryana, Punjab, Rajasthan, Marathwada, Gujarat, Saurashtra & Kutch, Madhya Pradesh and Vidarbha.

Warning (for next 48 hours)

Isolated heavy rainfall is likely over Andaman & Nicobar Islands, northeastern States, Konkan & Goa and Coastal Karnataka during next 24 hours.

Salient advisories

- As rain/thundershowers is likely at many places along with isolated heavy rainfall over Assam, NMM&T, Arunachal Pradesh, Meghalaya, Coastal Karnataka, Konkan & Goa and Andaman & Nicobar Islands, postpone irrigation, intercultural operations and application of fertilizers and pesticides to the standing crops. Provide adequate drainage facilities in the above states to avoid water logging due to heavy rainfall.
- As rainfall is also likely at a few places in Orissa, Bihar, Kerala and Lakshadweep, farmers are advised not to apply need based irrigation to the crops.
- Farmers in West Bengal, Sikkim, Interior Karnataka, Kerala and Tamil Nadu are advised to postpone irrigation to the crops as there was good amount of rainfall in these States during last week.
- As there was no significant rain in Chhattisgarh, Jammu & Kashmir, Jharkhand, Rajasthan, Gujarat, Madhya Maharashtra, Marathwada & Vidarbha during last week and no significant rain is likely to occur for next five days, farmers are advised to apply irrigation to the standing crops.

Advisories for Pre-*rabi* sowing

- Prepare the field for sowing of early peas and leafy vegetables utilizing the realized rainfall in Orissa, Himachal Pradesh, Punjab and Uttarakhand.
- Farmers in Jharkhand(Palamu region) and Orissa are advised to prepare the field utilizing the realized rainfall and undertake sowing of short duration crops like green gram, black gram and oilseeds as pre-*rabi* crops.

Advisories for pest and disease

- As the weather is relatively warm and humid and the most of the crops are in vegetative/flowering/grain formation stages, there are chances of pest and disease incidences in the following regions.
 - Tikka leaf spot in groundnut in Southern Telangana
 - Jassid in cotton in Haryana
 - Leaf roller and rice bug in Kerala.

Advisories for Livestock

- The prevailing weather conditions are congenial for the occurrence of foot and mouth disease, haemorrhagic septicemia in cattle, sheep pox in sheep in Andhra Pradesh and to prevent the diseases, vaccinate the animals.

Issued by

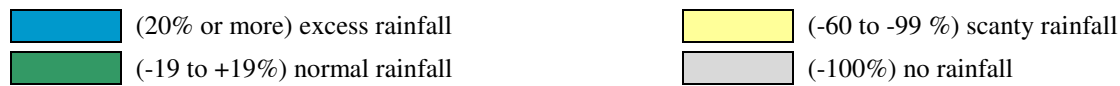
National Agrometeorological Advisory Service Centre,
Agricultural Meteorology Division, India Meteorological Department, Shivajinagar, Pune.


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

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

Sub-division	Cumulative Rainfall for the period									
	26 th August		3 rd September		10 th September		17 th September		23 rd September	
	Normal (mm)	Dep.	Normal (mm)	Dep.	Normal (mm)	Dep.	Normal (mm)	Dep.	Normal (mm)	Dep.
A & N Islands	87	84	94.7	12	107.0	-38	85.6	-47	104.6	-64
Arunachal Pradesh	92.4	31	79.5	-57	79.4	-85	114.5	-64	77.7	72
Assam and Meghalaya	114.1	-33	77.8	-41	80.4	-74	97.6	-61	63.0	30
NMMT	70.6	43	61.5	-9	53.2	-31	57.9	-11	48.9	44
SH West Bengal & Sikkim	116.5	10	91.6	-48	95.4	-45	112.9	-75	78.8	4
Gangetic West Bengal	64.5	14	73.0	-37	66.1	229	65.2	-80	47.0	-9
Orissa	68.8	67	70.3	-7	68.8	13	70.1	-89	49.9	-44
Jharkhand	67.5	12	63.5	-8	66.2	180	66.8	-67	44.1	-64
Bihar	77.2	-1	54.0	-25	56.7	46	68.5	-63	45.5	-88
East Uttar Pradesh	65.2	-66	57.4	-48	49.9	44	68.1	-21	31.8	-86
West Uttar Pradesh	56.6	-91	51.5	-42	40.0	35	49.0	19	23.8	-99
Uttarakhand	86.8	-74	72.3	-52	60.0	68	59.9	33	34.5	-84
Haryana, Chandigarh & Delhi	35	-78	27.3	-10	24.3	-35	23.4	405	13.3	-99
Punjab	30.5	-79	26.2	85	29.9	-42	21.2	32	14.8	-97
Himachal Pradesh	52.2	-92	40.8	31	37.4	84	32.7	142	20.2	-93
J & K	28.9	-52	29.2	-60	25.6	28	20.5	-74	20.0	-93
West Rajasthan	21.8	-74	17.2	22	16.7	-57	8.5	-93	4.7	-100
East Rajasthan	53.2	-82	45.1	24	37.6	-20	25.0	-16	13.9	-100
West M. P.	62.4	-57	64.9	24	58.2	24	45.3	-41	32.0	-100
East M. P.	73.6	-57	67.5	14	69.3	63	60.7	-30	31.6	-99
Gujarat region	51.7	-74	62.7	88	52.3	-1	34.4	-99	24.3	-99
Saurashtra & Kutch	17.7	-98	29.0	262	22.9	-86	18.9	-95	11.7	-100
Konkan and Goa	132.8	-21	113.2	12	101.1	115	64.4	-39	67.1	-60
Madhya Maharashtra	30.7	220	34.0	-0	29.6	122	29.2	2	38.9	-29
Marathwada	47.2	176	47.1	-15	42.2	101	34.1	-58	39.1	-86
Vidarbha	60.8	52	59.2	10	56.6	-18	41.6	-88	37.0	-98
Chhattisgarh	78.6	11	68.6	-14	70.0	-52	67.3	-89	44.6	-86
Coastal A. P.	35.4	17	36.1	49	34.3	-47	31.1	-21	44.8	-56
Telangana	46	82	45.2	79	42.3	-1	34.7	-77	42.3	-86
Rayalseema	23.5	129	25.1	88	22.5	-57	26.8	27	42.6	10
TamilNadu & Pondicherry	23.2	-37	25.2	-39	19.2	-40	26.6	10	31.1	78
Coastal Karnataka	146.9	14	87.7	100	90.2	183	64.5	-38	66.6	-6
N. I. Karnataka	24.9	269	25.7	97	24.1	57	29.7	-12	49.2	13
S. I. Karnataka	32.7	101	25.6	34	21.4	132	26.6	120	45.1	93
Kerala	93.4	-2	58.5	30	58.1	126	51.8	-75	61.3	15
Lakshadweep	49.5	101	38.2	51	27.3	150	44.8	-94	45.6	-63

The subdivisions like Assam & Meghalaya, East Uttar Pradesh, Jammu & Kashmir, West Rajasthan and Saurashtra & Kutch, received scanty / deficient rain in 4 out of last 5 weeks; Andaman & Nicobar Islands, Arunachal Pradesh, SH West Bengal & Sikkim, Bihar, West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, Madhya Pradesh, Gujarat, Konkan & Goa, Chhattisgarh, Coastal Andhra Pradesh and TamilNadu & Pondicherry 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.

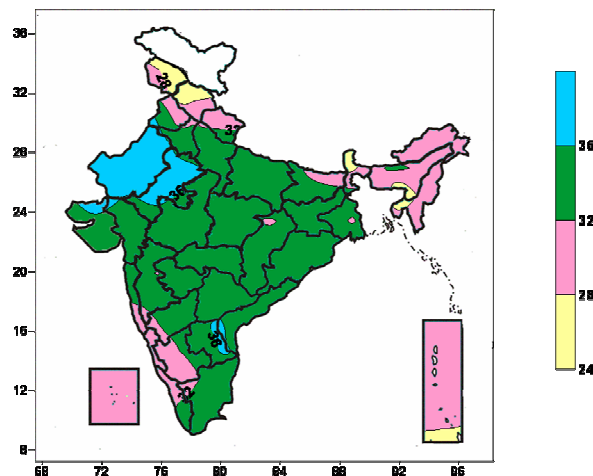


 (-20 to -59%)deficient rainfall

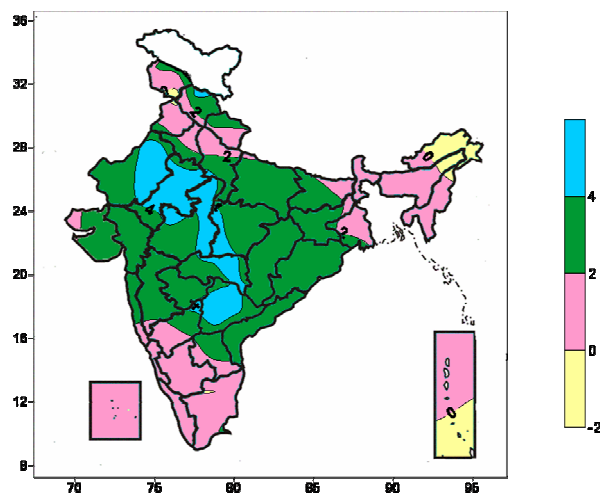
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Contour maps for the week ending 23.09.09

Actual Mean Maximum Temperature (°C) in India for the week ending 23.09.09



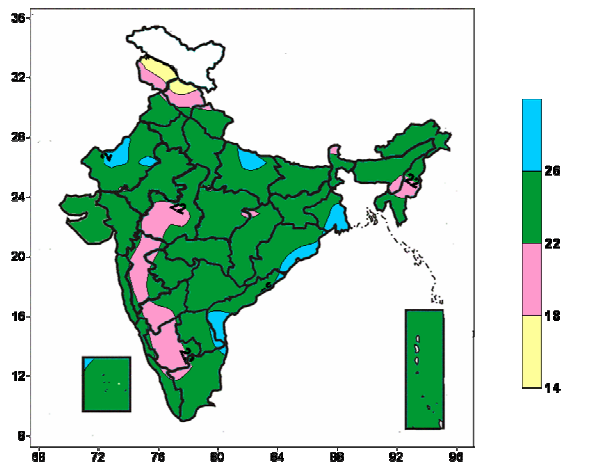
Maximum Temperature (°C) Anomaly in India for the week ending 23.09.09



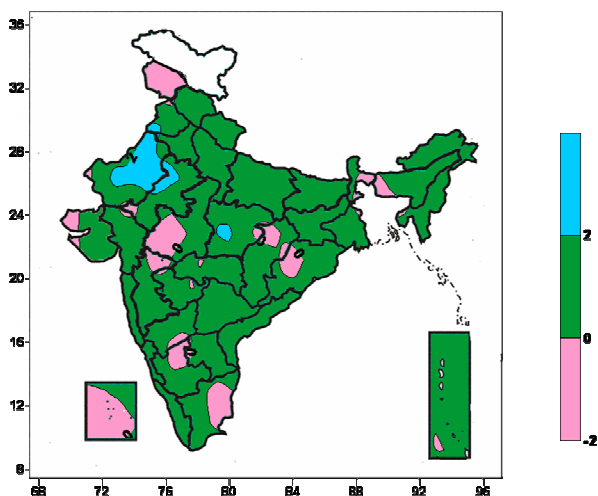
Actual Mean Maximum temperature ranged between 36°C and above over most parts Rajasthan, some parts of Gujarat, Saurashtra, Coastal Andhra Pradesh, Rayalaseema, 28 to 32°C over most parts of North East India, Coastal Karnataka, Lakshadweep, Andaman & Nicobar Islands, some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Bihar, West Bengal, Chattisgarh, Tamil Nadu, Kerala, North & South Karnataka, Konkan & Goa, Madhya Maharashtra, 24 to 28°C over some parts of Jammu & Kashmir, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tripura, Andaman & Nicobar Islands, 32 to 36°C over remaining parts of the country.

Actual Mean Maximum temperature anomaly ranged between 4°C and above over most parts of Rajasthan, Telangana, some parts of Himachal Pradesh, West Uttar Pradesh, Madhya Pradesh, Vidarbha, North Interior Karnataka, 0 to 2°C most parts of Jammu & Kashmir, Uttarakhand, Punjab, Haryana, West Bengal & Sikkim, Assam, Meghalaya, Manipur, Mizoram, Tripura, Tamil Nadu, Kerala., Karnataka, Lakshadweep, Andaman & Nicobar Islands, some parts of Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, Bihar, Jharkhand, Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Saurashtra, Rayalaseema, -2 to 0°C over most parts of Arunachal Pradesh, some parts of Jammu & Kashmir, Punjab, Assam, Nagaland, Andaman & Nicobar Islands, 2 to 4°C over remaining parts of the country.

Actual Mean Minimum Temperature (°C) in India for the week ending 23.09.09



Minimum Temperature (°C) Anomaly in India for the week ending 23.09.09



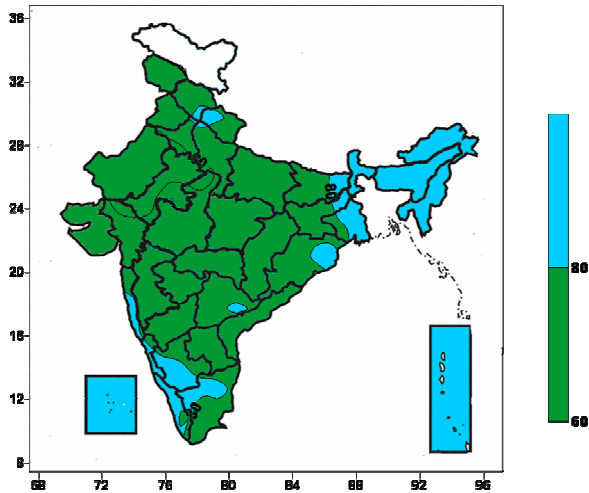
Actual Mean Minimum Temperature ranged between 26°C and above over some parts of West Rajasthan, East Uttar Pradesh, Gangetic West Bengal, Orissa, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, Lakshadweep Islands, 18°C to 22°C over most parts of South Interior Karnataka, some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab,

Minimum Temperature anomaly ranged between 2°C and above over most parts of West Rajasthan, some parts of Punjab, East Rajasthan, East Madhya Pradesh, -2 to 0°C over most parts of Jammu & Kashmir, Lakshadweep Island, some parts of Punjab, Sub-Himalayan West Bengal, Assam & Meghalaya, Tripura, Orissa, Chattisgarh, Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Gujarat, Madhya Maharashtra,

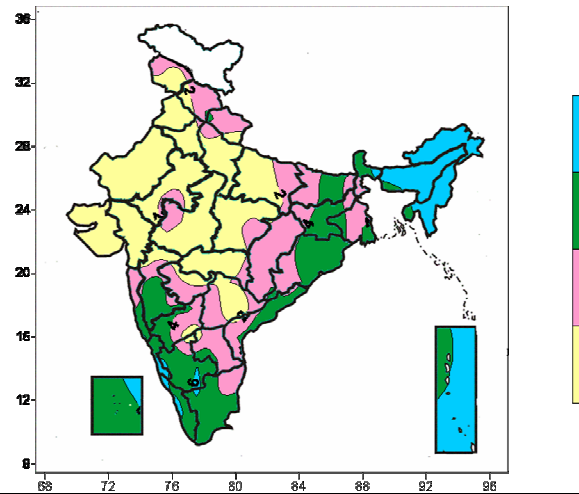
Sikkim, Madhya Pradesh, Chattisgarh, Kerala, North Interior Karnataka Tamil Nadu, Madhya Maharashtra, Marathwada, 14⁰C to 18⁰C over some parts of Jammu & Kashmir, Himachal Pradesh, 22⁰C to 26⁰C over remaining parts of the country.

Marathwada, Vidarbha, Tamil Nadu, North & South Interior Karnataka, Andaman & Nicobar Islands, 0 to 2⁰C over remaining parts of the Country.

Relative Humidity (%) over India for the week ending 23.09.09



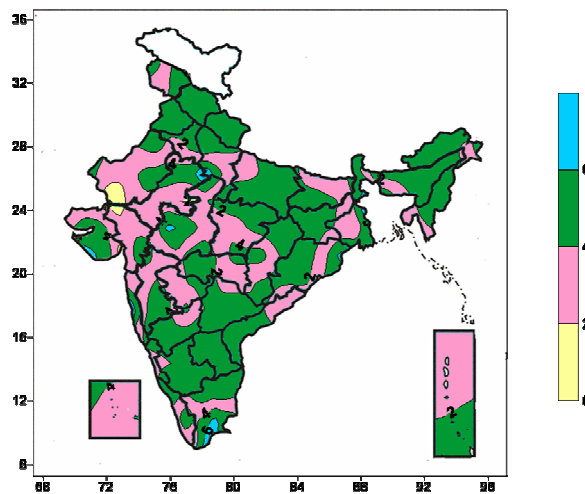
Cloud amount (okta) over India for the week ending 23.09.09



Relative humidity more than 80% over most parts of West Bengal & Sikkim, North East India, Kerala, Coastal & South Interior Karnataka, Lakshadweep, Andaman & Nicobar Islands, some parts of Himachal Pradesh, Uttarakhand, Haryana, West Uttar Pradesh, Bihar, Jharkhand, Orissa, Konkan & Goa, Telangana, Tamil Nadu, 60 to 80% over remaining parts of the country.

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

Wind speed (knots) over India for the week ending 23.09.09



Wind speed ranged between 6 knots and above over some West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Kutch, Tamil Nadu, 4 to 6 knots over most parts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Northeast India, Orissa, Saurashtra and Kutch, Chhatisgarh, Karnataka, Andhra Pradesh, Tamil Nadu, some parts of Jammu & Kashmir, Rajasthan, Gujarat, Madhya Pradesh, Maharashtra, Kerala, Lakshadweep, Andaman & Nicobar Islands, 0 to 2 knots some parts of West Rajasthan, Gujarat, 2 to 4 knots over remaining parts of the country.

Zonewise Agromet Advisories

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

Himachal Pradesh

- **Realised Rainfall:** Compare to preceding week the state received scanty/no rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Himachal Pradesh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
2 weeks continuously deficient to no rain					
Chamba	-98	-78	86	-100	-83
Kangra	-82	56	20	-68	-93
Una	-99	273	-14	-41	-78
Distribution of rainfall for remaining districts of the state for last five weeks					
Bilaspur	-81	50	37	160	-92
Hamirpur	-92	121	71	85	-70
Kinnaur	-98	83	735	408	-100
Kullu	-82	195	103	447	-100
Lahaul and Spiti	-98	3	124	-9	-100
Mandi	-99	19	-1	217	-85
Shimla	-98	33	90	590	-97
Sirmaur	-95	-35	93	267	-100
Solan	-83	40	32	477	-92

- **Rainfall Forecast:** Mainly dry weather is likely to prevail over the State.
- **Major Kharif Crops:** Rice, Vegetables
- **Crop Stage:** Maize(silking), vegetables(early vegetative), rice(tillering/panicle initiation)
- **Crop Condition:** Good.
- **Advisory:**
 - Maintain proper depth of standing water in rice.
 - **Major Seasonal Crop:** Fruit crops, Flower crops and Vegetables
 - Prepare the field for sowing of early peas, leafy vegetables and raddish as the weather is favourable for sowing.
 - It is optimum time for new plantation of tea plants or filling of gaps with new plants.
 - Complete field preparation for seedlings of cabbage and cole crops.
 - It is time for raising the nursery of winter flowers in polyhouses.
 - Undertake weeding, intercultural operations and top dressing of fertilizers.
 - As weather is favourable for transplanting of lemon grass transplant it immediately if not done earlier.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - Hispa in rice, for control spray metacid 50 EC 1m per litres of water.
 - red spider mites in carnation, for control spray cypermethrin or nuvacron @0.05%.
 - leaf minor in new growth of citrus. For its control, spray 10 ml Matasystox or Malathion 10 ml in 10 litre of water.

Uttarakhand

Realised Rainfall: The state received scanty/no rainfall except Haridwar district, which received excess rainfall during last week.

Rainfall distribution for last 5 weeks

UttaraKhand					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09

More than 3 weeks continuously deficient to no rain					
Rudraprayag	-78	-58	-25	-52	-90
2 weeks continuously deficient to no rain					
Garhwal Pauri	-100	-87	65	-42	-99
Distribution of rainfall for remaining districts of the state for last five weeks					
Almora	-83	-89	189	95	-100
Chamoli	-44	-19	118	45	-93
Champawat	-100	-88	-50	178	-62
Dehradun	-72	-55	-53	54	-74
Garhwal Tehri	-98	-94	68	33	-100
Haridwar	-100	-64	0	310	80
Nainital	-86	-78	12	84	-97
Pithorgarh	-49	-36	102	31	-62
Udham Sing Nagar	-93	-92	60	5	-100
Uttarkashi	-67	-1	147	-12	-100

- **Rainfall Forecast:** Isolated rain/thundershowers over Uttarakhand.
- **Major Kharif Crops:** Rice, Soyabean, Groundnut, Tur, mung, sesame.
- **Crop Stage:** Rice(flowering/grain formation stage), pulses, oilseeds(vegetative/flowering)
- **Crop Condition:** Good
- **Advisory:**
 - Maintain proper depth standing water in rice field.
 - **Major Seasonal Crop with stage:** Sugarcane ratoon (early vegetative), cabbage, garlic, tomato (vegetative), French bean (early vegetative).
- **Crop Condition:** Good
- **Advisory:** Undertake weeding and intercultural operation.
 - Farmers are advised to continue sowing of recommended varieties of vegetable pea like VL Ageti Mater-7, Vivel Mater-10, Pant Subjee Mater-3, Azad Mater-3 and Arkel at high hills and ginger varieties like VL-Garlic or DARL-52.
 - Farmers in valley of 3000 ft can start planting of potato from this week. Select high yielding varieties like Kufri Jyoti, Kufri Ashok or Kufri Anand.
 - **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/ hectare for control of the said disease.
- **Animal:** Give balanced feed to milking animals and clean properly their place of sitting in this rainy season.

Punjab

- **Realised Rainfall:** The state received scanty/no rainfall during last week
- **Rainfall distribution for last 5 weeks**

Punjab					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Fatehgarh Sahib	-100	-63	-91	-70	-100
3 weeks continuously deficient to no rain					
Amritsar	-72	14	-30	-85	-100
Gurdaspur	-96	10	-69	-97	-98
Muktesar	-38	89	-78	-89	-100
Sangrur	-84	50	-26	-37	-100
2 weeks continuously deficient to no rain					
Hoshiarpur	-91	104	-3	-85	-94
Distribution of rainfall for remaining districts of the state for last five weeks					
Bhatinda	-69	116	-1	15	-100
Faridkot	-100	0	-38	47	-100

Ferozpur	-97	159	-88	66	-100
Jalandhar	-39	149	-39	8	-100
Kapurthala	-86	779	48	65	-100
Ludhiana	-55	38	-65	39	-100
Moga	-100	374	-89	104	-100
Nawashahar	-91	14	-34	19	-100
Patiala	-66	177	-68	334	-100
Ropar	-88	-79	51	212	-65

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** Rice, maize, guar, til, urd, bajra, cowpea, cotton
- **Crop Stage:** Rice(booting), pulses(vegetative), cotton(flowering/fruited), soybean(flowering), maize(tasselling/silking), toria(early vegetative)
- **Crop Condition:** Rice crop is in satisfactory condition.
- **Advisory:**
 - Undertake weeding, intercultural operations and application of fertilizers.
 - As there was no significant rainfall in most of the districts in the State during last week, apply irrigation to the standing crops.
- **Major Seasonal Crop with stage:** Sugarcane and Vegetables
- **Advisory:** Undertake weeding, intercultural operations in sugarcane and cotton.
 - Continue sowing of desi varieties of radish (Punjab Pasand & Punjab Safed), turnip (L-1 & 4-white) and carrot (No. 29 PC-34 and Sel. 21), pea, potato and palak (Punjab Green) and transplanting of cauliflower and sowing of late season varieties of cauliflower i.e. Snow-Ball-16, Pusa Snow ball 1 & Pusa Snow ball K-1 may be continued.
 - This is suitable time for planting of evergreen fruit plants like sweet orange, mandarin, lime, lemon, guava and ber.
 - It is the time for planting of autumn sugarcane. Adopt 90 cm spacing between two rows of sugarcane and sow potato, toria, raya, cabbage and gram as intercrops.
 - Intercropping of toria and gobhi sarson may be sown during these days.
 - Prepare the land for sowing of berseem during last week of September.
 - **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - mealy bug in cotton. Inspect the crop for their attack and give the spot treatment of recommended insecticides.
 - bacterial leaf blight of rice has appeared in the farmers field. Farmers are advised to regulate water in the fields to check its further spread.
 - **Animal Husbandry:** To check tick infection spray Asuntol 0.05%, Butox 0.02% and Tactic 0.02% on the animals as well as in the sheds and repeat the spray after 10-15 days. Keep the animal sheds and surroundings clean to keep the fly population under control. Animals usually lose weight after calving. So follow practices of good management and balanced feeding e.g. good quality green fodder, balanced feed and mineral mixture.

Haryana

- **Realised Rainfall:** The state received scanty/no rainfall during last week
- **Rainfall distribution for last 5 weeks**

Haryana					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
2 weeks continuously deficient to no rain					
Sirsa	-83	-69	36	-26	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Ambala	-93	118	-17	686	-100
Bhiwani	-33	-25	-82	325	-100
Chandigarh	-98	227	-50	229	-96
Faridabad	-74	28	-15	153	-100
Fatehabad	-48	29	-100	111	-100

Gurgaon	-55	-29	38	489	-100
Hissar	-100	78	-74	435	-100
Jhajar	-83	63	-82	841	-100
Jind	-58	-38	-94	781	-100
Katihah	-86	-86	-100	3	-100
Karnal	-92	-51	86	719	-100
Kurukshetra	-94	-48	-76	324	-100
Mahendragarh	-74	7	-84	318	-100
Panchkkula	-96	5	-81	195	-100
Panipat	-93	-79	-84	650	-100
Rewari	-80	-43	-96	468	-100
Rohtak	-92	-55	-64	330	-100
Sonepat	-96	0	-4	911	-100
Yamunanagar	-98	-10	20	487	-100

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** Rice, maize, guar, cotton
- **Crop Stage:** Rice(tillering), pulses, bajra (vegetative), toria(early vegetative)
- **Crop Condition:** Satisfactory
- **Advisory:** Maintain standing water in rice field. Undertake hoeing and weeding in the standing crops.
- **Major Seasonal Crop with stage:** Spring sugarcane (early vegetative/vegetative), vegetable crops (vegetative), cotton (flowering/boll formation) and berseem (vegetative)
- **Crop Condition:** Good
- **Advisory:**
 - Apply top dressing in cotton.
 - Undertake hoeing and weeding and apply the remaining dose of nitrogen fertilizer to the sugarcane.
 - Farmers are advised to undertake weeding and hoeing in cotton and intercultural operations in tomato, onion and chilli.
 - Prepare the land for sowing of berseem
 - **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.
 - bacterial blight in guar, farmers are advised to spray the crop with 400ml Blitox and 30 grams of Straptocyclin in 200 liters of water per acre.

Delhi

- **Realised Rainfall:** Mainly dry weather was prevailed over the state during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
New Delhi	-46	-10	35	288	-100

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** vegetables and rice
- **Crop Stage:** vegetative/tillering
- **Crop Condition:** Satisfactory
 - **Advisory:** As there was no significant rainfall during last week, farmers are advised to apply irrigation to the standing crops
 - Sowing of pea, early mustard, radish, carrot and spinach can be done.
 - Marigold plantation may be done in this weather conditions.
- **Plant protection:**
 - In present weather conditions, constant monitoring for brown plant hopper in paddy field is advised. If pest population is high spraying of Monocrotophos @ 2 ml per litre of water, pointing the nozzle towards the base of plant is advised.

- Attack of blast in paddy may occur during this weather condition. Spraying of Tricyclozole (Beam, Ban or Sevic) 6 g/10 litre of water or Saaf @ 1 ml/litre of water is advised.
- Drenching of vegetable nursery with Mancozeb @ 2 grams per litre of water is advised to control damping off.
- **Major Seasonal Crop with stage:** vegetable crops (vegetative)
- **Crop Condition:** Good
- **Advisory:** Planting of early potato is advised to the farmers.

Uttar Pradesh

- **Realised Rainfall:** East Uttar Pradesh received deficient/scanty rainfall and West Uttar Pradesh received Scanty/no rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Uttar Pradesh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
East Uttar Pradesh					
Gonda	-44	-20	-37	-53	-100
Kanpur Dehat	-97	-48	-26	-26	-100
Kushi nagar	-87	-85	-59	-92	-100
Maharajganj	-85	-73	-90	-85	-98
West Uttar Pradesh					
Ghaziabad	-100	-76	-43	-56	-100
Mahamaya Nagar	-58	-31	-43	-86	-100
3 weeks continuously deficient to no rain					
East Uttar Pradesh					
Gorakhpur	-70	10	-28	-47	-100
West Uttar Pradesh					
Aligarh	-75	22	-28	-77	-100
Firozabad	-100	39	-46	-46	-100
2 weeks continuously deficient to no rain					
East Uttar Pradesh					
Allahabad	-90	-67	231	-58	-100
Ambedkar Nagar	-84	-58	46	-85	-100
Azamgarh	-51	-24	134	-59	-100
Ballia	-44	-79	-6	-64	-100
Basti	-17	15	25	-59	-100
Deoria	-47	-48	64	-57	-99
Faizabad	-15	-17	44	-21	-31
Farrukhabad	-91	-96	125	-61	-100
Gazipur	-10	25	167	-65	-100
Jaunpur	-74	-44	74	-59	-97
Mau	-85	-75	-18	-61	-100
Mirzapur	-99	-70	118	-87	-100
Pratapgarh	-94	-64	53	-77	-100
RaiBareilly	-97	-78	-16	-50	-95
Sant Ravidas Nagar	-100	-11	154	-99	-100
Sonbhadra	-92	-51	24	-97	-42
Sultanpur	-82	-56	-12	-52	-82
Varanasi	-98	-66	33	-98	-81
West Uttar Pradesh					
Auraiya	-100	-60	64	-27	-100
Badaun	-94	-22	78	-22	-100
Bulandsahar	-95	-17	163	-57	-100
Etah	-89	-68	66	-84	-100

Jalaun	-94	-16	117	-47	-100
Jhansi	-95	-43	8	-84	-100
Lalitpur	-97	-6	8	-23	-100
Mainpuri	-96	-26	105	-45	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
East Uttar Pradesh					
Bahraich	-27	-5	87	-19	-88
Balrampur	-87	-35	-16	-19	-100
Banda	-86	-4	89	28	-100
Barabanki	-7	-59	39	13	-86
Fatehpur	-98	-41	-9	24	-100
Hardoi	-55	-80	71	28	-15
Kanpur City	-87	-63	-78	82	-100
Kheri	-42	-42	123	92	-62
Lucknow	-70	-84	154	126	-92
Shrawasti	21	-80	71	2	-100
Sidharthnagar	-89	-34	-48	-13	-91
Sitapur	-8	-77	35	118	-58
Unnao	-92	-87	8	171	-78
West Uttar Pradesh					
Agra	-99	-67	22	-18	-100
Baghpat	-97	43	167	234	-100
Bareilly	-87	-77	57	105	-99
Bijnor	-99	-85	7	203	-100
Etawah	-83	-63	52	13	-100
Hamirpur	-68	27	31	-5	-100
Jotirba Phule Nagar	-100	-92	-7	8	-100
Mathura	-89	-9	-47	91	-100
Meerut	-100	-51	-85	-6	-100
Moradabad	-92	-85	157	28	-100
Muzzaffarnagar	-91	-58	-52	60	-100
Pilibhit	-96	-95	95	126	-95
Rampur	-99	-91	45	43	-100
Saharanpur	-92	9	-57	216	-100
Shahjahanpur	-73	-84	80	138	-78

- **Rainfall Forecast:** Rain/thundershowers is at isolated places.
- **Major Kharif Crops: East UP:** Rice, mung, jowar, bajra.
- **West UP:** Rice, groundnut, urd, mung and vegetables
- **Crop Stage:** Rice(panicle initiation), groundnut, urd, mung and vegetables(vegetative), maize(tasselling)
- **Crop Condition:**
- **East UP:** Satisfactory
- **West UP:** Satisfactory
- **Advisories:**
 - As there was no significant rainfall in the State during last week, apply irrigation to the standing crops.
 - Undertake weeding, intercultural operations and top dressing.
 - Take up sowing of fodder bajra and toria.
 - **Major Seasonal Crop with stage:** Sugarcane (grand growth) and vegetables (vegetative/fruitlet), mango (fruit setting)
- **Crop Condition: Good**
- **Advisory**
 - Undertake weeding, intercultural operations and application of fertilizers in the standing crops like sugarcane, vegetables and mentha.
 - **Plant Protection:** Weather conditions are favourable for mild incidences of
 - fruit borer in tomato and brinjal, spray the solution of Carbaryl @ 2 g / litre of water.
 - gundhi bug in rice, farmers are advised to take adequate plant protection measures.

J & K

- **Realised Rainfall:** All most all the districts received scanty/no rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Jammu & Kashmir					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Jammu	-65	-95	-46	-100	-100
Kathua	-98	-59	-61	-100	-81
Udhampur	-64	-89	-25	-60	-97
3 weeks continuously deficient to no rain					
Ladakh(Leh)	-100	15	-92	-100	-92
2 weeks continuously deficient to no rain					
Anantnag	-19	-43	146	-94	-99
Doda	19	-17	118	-92	-88
Pulwama	-64	-84	47	-100	-100
Srinagar	-52	-49	85	-85	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Kupwara	-83	-89	449	-4	-100
North Baramula	-46	7	39	55	-100

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** Rice, maize, vegetables
- **Crop Stage:** flowering (rice); flowering/pod formation (pulses); tasseling (maize)
- **Crop Condition:** Satisfactory
- **Advisory:** Sowing of toria (RSPT-1, RSPT-2, RSPR-3), berseem (mascavi, pusa giant, BL-1) and gobi sarson (GSS-1) may be done without any further delay.
- *Kharif* crops were adversely affected due to delayed and erratic rainfall. Maize, pearl millet and pulses underwent moderate/severe soil moisture stress. Undertake intercultural operations to conserve moisture in the field.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops.
- **Major Seasonal Crop with stage:** Vegetables (vegetative/flowering/fruitletting)
- **Crop Condition:** Good.
- **Advisory:** Sowing of carrot and nursery sowing of cabbage, cauliflower, knol khol, radish and spinach may be done. Undertake harvesting of matured vegetable crops like brinjal, tomato, bhindi.
- Planting of new orchards and gap filling of evergreen plants can also be done during these days.
- Sowing of potato, carrot, turnip, garlic and methi crop may be done.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
- bacterial leaf blight in rice, farmers are advised drain out whole old water and apply fresh water to the crop after four days and also delay the nitrogen application or spray the crop with Streptocycline@ 100gm + copper oxychloride @ 500g in 500 litre of water when symptoms are appears in the crop.
- Rogue out virus affected plants from vegetable crops.

Rajasthan

- **Realised Rainfall:** Mainly dry weather was prevailed over the state during last week.
- **Rainfall distribution for last 5 weeks**

Rajasthan					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
East Rajasthan					
Ajmer	-97	-32	-48	-86	-100
Jaipur	-83	-51	-21	-26	-100

Sikar	-40	-80	-58	-75	-100
Tonk	-100	-30	-48	-58	-100
West Rajasthan					
Churu	-47	-53	-91	-63	-100
Jalore	-100	-37	-95	-100	-100
Nagaur	-61	-61	-58	-98	-100
Pali	-61	-27	-91	-100	-100
3 weeks continuously deficient to no rain					
East Rajasthan					
Bhilwara	-90	7	-67	-99	-100
Bundi	-98	2	-59	-64	-100
Kota	-89	-16	-60	-45	-100
Rajsamand	-92	19	-90	-100	-100
Sawai Madhopur	-100	1	-32	-56	-100
Sirohi	-56	5	-29	-100	-100
Udaipur	-86	125	-56	-79	-100
West Rajasthan					
Barmer	-100	110	-58	-100	-100
Bikaner	-88	49	-65	-100	-100
Jaisalmer	-91	125	-44	-100	-100
Jodhpur	-97	19	-52	-100	-100
2 weeks continuously deficient to no rain					
East Rajasthan					
Banswara	-81	147	120	-94	-100
Chittorgarh	-71	97	8	-99	-100
Dausa	-94	8	35	-47	-100
Dungarpur	-83	295	36	-100	-100
West Rajasthan					
Hanumangarh	47	44	62	-61	-100
Sri Ganganagar	-48	108	90	-100	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
East Rajasthan					
Alwar	-38	-23	-19	269	-100
Baran	-89	-5	-22	96	-100
Bharatpur	-73	-51	-41	199	-100
Dholpur	-93	-49	-4	-4	-100
Jhalawar	-89	-13	13	34	-100
Jhunjhunu	-52	-77	25	9	-100
Karauli	-100	14	47	-19	-100

- **Rainfall Forecast:** Mainly dry weather is likely over the State
- **Major Kharif Crops:** Pearl millet, sorghum, cluster bean, Sesamum, Pigeonpea(vegetative), maize(silking), Groundnut(pod formation)
- **Crop Stage:**
- **Crop Condition:** Satisfactory
- **Advisory:** Continue intercultural operations, application of fertilizers and pesticides.
- Apply irrigation to the standing crops as there was no significant rainfall during last week and mainly dry weather is likely.
- Prepare field by ploughing and planking for sowing of potato and apply FYM as per recommendation. Keep potatoes in cool and shady place for 5 days for sprouting.
- Carry out thinning and gap filling in timely sown crops.
- Take up hoeing, weeding and top dressing in maize and sorghum with application of urea.
- **Major Seasonal Crop with stage:** vegetable crops (flowering / fruiting / harvesting)
- **Crop Condition:** Good
- **Advisory:** Undertake intercultural operations in sweet gourd, cucumber, pumpkin, bitter gourd, tinda, tomato and ladies finger.

- Sow seeds in nursery for raising seedling of autumn vegetables. Arrange for drainage in vegetable nursery. Use following improved varieties for nursery sowing: Tomato: Pusa Rubi, Pusa Early and Vihar. Brinjal: Pusa Summer Prolific Round, Pusa Summer Prolific Long, Meghdoot, Navin and Arka Bahar. Cucumber: Balam and Pusa Sahyog. Smooth gourd: Chikni and Nasdar.
- This is the right time for raising nursery for mid season cauliflower. Improved Japanese, Pusa hybrid-2 & Himjoyti are improved varieties of mid season cauliflower.
- Undertake preparation of seed bed should be done for raising nursery of chilli and brinjal for *rabi* season.
- **Plant Protection:** Weather conditions are favourable for mild incidences of-
 - Fruit fly in guava, spray 0.1% solution of Malation 50EC in Alwar, Dholpur, Bharatpur, Karauli and Sawai Madhopur districts.
 - Pomegranate butterfly in pomegranate, spray Carboryl 50 WP @ 3 gm or Endosulfan 35 EC@ 1.5 ml per litre water in Jaipur and Dausa district.
 - fruit borer in tomato, spray Endosulfan 35 EC or Malathion 50 EC @ 1 ml per litre water or spray *Bacillus thuringiensis kurstoki* @ 1 litre water with Methomil 40 SP @ 600 gm per hectare in Jaipur and Dausa district.
 - Livestock may be attacked by external parasites like ticks. These parasites causes blood parasite diseases like Babesia & Thelaria in Alwar, Dholpur, Bharatpur, Karauli and Sawai Madhopur district.
 - leaf disease in brinjal. To control this disease remove affected plants and spray Endosulfan 35 EC @ 1.5 ml per litre water in Ajmer, Tonk district.

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

Bihar

- **Realised Rainfall:** The state received deficient/scanty/no rainfall during last week
- **Rainfall distribution for last 5 weeks**

Bihar					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Araria	42	-44	-55	-94	-85
Darbhanga	135	-60	-41	-31	-98
Kathihar	-31	-70	-63	-77	-38
Madhubani	33	-76	-33	-51	-99
Purnea	49	-44	-51	-85	-37
Saharsha	21	-83	-68	-67	-58
Samstipur	58	-43	-23	-54	-92
Sitamarhi	-30	-89	-44	-88	-83
Siwan	-24	-50	-35	-68	-100
3 weeks continuously deficient to no rain					
Gopalganj	31	17	-27	-75	-98
Vaishali	-37	51	-46	-90	-100
2 weeks continuously deficient to no rain					
Aurangabad	43	55	354	-88	-100
Begusarai	2	-27	96	-70	-100
Bhabua	-75	-100	281	-98	-100
Bhojpur	-86	-58	149	-73	-100
Buxar	35	32	103	-73	-100
East Champaran	-8	-9	-17	-52	-100
Gaya	-50	-85	383	-22	-100
Gopalganj	31	17	-27	-75	-98
Jhanabad	-59	-34	139	-54	-100
Jamui	-4	46	141	-70	-87
Khagadia	50	-51	60	-57	-94
Madhepura	36	-68	-11	-84	-44
Madhubani	33	-76	-33	-51	-99
Monghyar	114	57	37	-42	-60
Nalanda	-20	-12	50	-68	-99

Patna	-3	125	21	-71	-85
Rohtas	0	86	165	-55	-100
Saran	-47	-51	-18	-35	-100
Supaul	55	-88	5	-61	-92
West Champaran	-55	-65	0	-79	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Bhagalpur	-87	61	71	1	-62
Muzaffarpur	1	-18	37	-12	-70

- **Rainfall Forecast:** Rain/thundershowers likely at a few places in the State.
- **Major Kharif Crops:** Rice, urd, sunflower, maize and pigeon pea
- **Crop Stage:** Rice(booting to flowering), maize(flowering)
- **Crop Condition:** Good
- **Advisory**
 - As rainfall is also likely at a few places in the State, farmers are advised not to apply need based irrigation to the crops.
 - Those farmers who have not top dressed urea for rice are advised to apply 60kg urea per hectare, on a non rainy day.
 - Start the field preparation and sowing of *rabi* crops and vegetables.
 - Complete sowing of niger during this week.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth), fodder maize, jowar, lobia and sudan grass (vegetative)
- **Crop Condition:** Good
- **Advisory:**
 - Undertake intercultural operations, application of fertilizers on a non rainy day.
 - Weather condition is congenial for transplanting of Aghani, Pusa Dipali, Pusi, Patna Main and Pusa Shuvra varieties of cauliflower.
 - **Plant Protection:** Weather conditions are favourable for mild incidences of -
 - stem borer insects in brinjal crop. Farmers are advised to apply Endosulphan @1.5 ml per litre of water on a non rainy day.
 - gundhi bug insects in rice in upland areas. Dusting of Folidol dust @ 20-25 kg per hectare is advised in the morning hours. Spray bio-mycin @ 2ml/litre of water or Tricyclazole 0.5g/litre of water on a non rainy day, if blast appears in rice.

Jharkhand

Realised Rainfall: The state received deficient/scanty rainfall except Bakaro, East Singbhum districts, which received normal/excess rainfall during last week.

- **Rainfall distribution for last 5 weeks**

Jharkhand					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Gumla	-32	-57	-100	-75	-96
3 weeks continuously deficient to no rain					
Hazaribagh	70	73	-73	-85	-89
Lohardagga	37	133	-100	-80	-100
2 weeks continuously deficient to no rain					
Dhanbad	53	-9	378	-56	-32
Giridih	5	-4	163	-25	-66
Palamau	1	-36	**	-76	-100
Ranchi	42	-2	156	-55	-35
West Singbhum	22	-11	212	-93	-44
Distribution of rainfall for remaining districts of the state for last five weeks					
Bokaro	105	104	296	-69	8
East Singbhum	45	-64	190	-100	52
Santhal Parganas	-20	-1	**	-11	-89

- **Rainfall Forecast:** Rain/thundershowers at isolated places over the State.
- **Major Kharif Crops:** Maize, Arhar, Til, Ragi, Vegetables
- **Crop Stage:** Direct sown rice(panicle initiation), Maize(grain formation), other *kharif* crops are at vegetative/flowering stage.
- **Crop Condition:** Good
- **Advisory:**
- Prepare the land and undertake sowing of barsati potato. The varieties to be selected are Kufri chandramukhi, Kufri Lalima, Kufri Ashok, Kufri Kanchan, ON-2236 & Ultimus.
- Undertake weeding, intercultural operations and top dressing.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth),
- **Crop Condition:** Good
- **Advisory:** Farmers are advised to undertake weeding, intercultural operations in sugarcane. Undertake transplanting of brinjal, chilly, tomato. Undertake sowing of pea, cabbage and cauliflower.

Orissa

- **Realised Rainfall:** The state received deficient rainfall during last week.
- **Rainfall Forecast:** Rain/thundershowers at a few places over the State
- **Major Kharif Crops:** Rice, ragi, arhar, maize, green gram, blackgram
- **Crop Stage:** Rice(flowering/grain formation), Pigeonpea(flowering), groundnut and cotton(vegetative), early sown maize(silking/grain formation), green gram, blackgram(maturity)
- **Crop Condition:** Good
- **Advisory:** As rainfall is also likely at a few places in the State, farmers are advised not to apply need based irrigation to the crops.
- Apply top dressing of nitrogen in rice on a non rainy day, if not done.
- Farmers are advised to undertake sowing of pre-rabi crops like green gram, black gram, horse gram in the up and up-medium lands and grow garden pea for green pea in rainfed up land in Keonjhar, Koraput and Phulbani districts.
 - Harvest the early sown black gram and green gram.
- **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 on a non rainy day.
- Farmers are advised to go for early planting of cole crops like raddish, cabbage, cauliflower, beans and cluster bean tomato. For cabbage and cauliflower, go for nursery raising of seedlings.
- It is now optimum time for nursery raising of tomato and brinjal up to September last. Select resistant varieties like BT-2, BT-10, BT-12, Niladri, Sadabahar, Madhuri, Maharathi, Rasmi, Naveen, etc.

Plant Protection: Weather conditions are favourable bacterial leaf blight in rice in most areas. Spray 1 g Streptocycline along with 20 g Copper Oxychloride in 10 litre water. Rice is affected by leaf folder in some patches Spray 1 g Cartap hydrochloride or 2 ml Chloropyrifos or 2 ml Monocrotophos in 1 litre water.Undertake spraying on a non rainy day.

West Bengal

- **Realised Rainfall:** 5 districts of Gangetic West Bengal, 3 districts of Sub Himalayan West Bengal received deficient/scanty rainfall remaining districts of the state received normal/excess rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

West Bengal					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
SHWB					
Dinajpur (N)	2	-34	-78	-80	-77
Dinajpur (S)	-35	-56	-99	-95	-84
2 weeks continuously deficient to no rain					

GWB					
Bankura	-24	-60	318	-83	-43
Howrah	-29	-70	302	-88	-65
Midnapore	42	-60	172	-91	-29
24 Pargana (N)	25	-6	230	-75	-48
Purulia	36	-26	217	-90	-42
SHWB					
Malda	-84	-16	43	-69	-49
Distribution of rainfall for remaining districts of the state for last five weeks					
GWB					
Birbhum	23	-40	187	-34	-12
Burdwan	23	-57	168	-81	113
Hooghly	-25	-54	193	-77	7
Murshidabad	-24	85	347	-17	38
Nadia	10	-58	494	-71	-8
24 Pargana (S)	13	-23	204	-95	-16
SHWB					
Coochbehar	28	-89	-49	-83	-17
Darjeeling	70	-10	-26	-73	48
Jalpaiguri	1	-57	-71	-76	40

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State
- **Major Kharif Crops:** Rice, vegetables
- **Crop Stage:** tillering (rice), flowering (pulse crops), *aman* rice (flowering/grain formation), harvesting (*aus* paddy)
- **Crop Condition: Good**
- **Advisory:** As most of the districts received sufficient rainfall during last week, postpone irrigation to the crops.
 - Undertake intercultural operations on a non rainy day to keep the fields free from weeds.
 - Undertake top dressing of urea @ 6 kg/bigha to paddy on a non rainy day.
 - Retting of fibres of Jute and mesta is to be completed.
 - After the harvest of *aus* rice and jute, farmers are advised to undertake sowing of oil seed crops
- **Major Seasonal Crop with stage:** Sugarcane (vegetative), vegetable crops (fruiting/harvesting)
- **Crop Condition: Good**
- **Advisory:**
 - Farmers are advised to undertake sowing of early winter vegetables like cauliflower (Var: Micardo, White Barna), hybrid cabbage (Var: Green Express), Tomato (Var: Avinash 2, Rocky). High yielding varieties of coriander, palak etc. may also be sown. On medium land amaranthus, beans may be cultivated. During 1st week of sowing light irrigation may be provided in the afternoon. Sufficient amount of FYM should be incorporated in the field. If possible cultivate short duration crops like palak and coriander in the poly tunnel.
 - Farmers can also prepare field for the sowing of tomato, radish and ladies finger.
- **Plant protection:**
 - Incidences of fruit rot and collar rot disease is possible in brinjal due to past continuous rainfall and high humidity. To control it apply Carbendazim 12% + Mancozeb 63% @ 2 gm per litre of water.
 - As temperature will be high in this week, according to the forecast it may cause the outcome of blast and sheath blight or stem rot in rice. At that time apply carbendazim 50 WP or IBP 48 EC @0.1%, hexaconazol @2 ml/L or mancozeb 0.1 with organic manures. Stem borer, brown leaf hopper, mite may also attack. So apply quinalphos 25 EC @1600 ml per ha, or phorate 10 G 12.5 Kg per ha or endosulphon 35 EC@ 1100 ml per ha. But heavy rainfall may also occur so apply fertilizers and pesticides according to the forecast.
 - Jassid in bhindi. Spray Monocrotophos @ 2ml/litre or Endosulpha 35EC @ 1.5ml/litre or Imidaclopride 17.8 SL @ 3ml/10litre or Acephate 75WP @ 1g/litre of water at 7-10 days interval, if the attack is noticed. Spray chemicals on a non rainy day.

Sikkim

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

State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
Sikkim	18	-40	-24	-64	5

- **Rainfall Forecast:** Rain/thundershowers at a few places along with isolated heavy rainfall during next 48 hours.
- **Major Seasonal Crop with stage: Rice:** tillering/panicle initiation, **Kharif Vegetables:** flowering/fruitletting/harvesting; **Large Cardamom:** Capsule maturity;
- **Crop Condition: Good**
- **Advisory:** As there was sufficient rainfall during last week, postpone irrigation to the standing crops.
- Arrange drainage facilities to avoid water logging as isolated heavy rainfall is likely during next 48 hours.
 - Application of fertilizers, pesticides and intercultural operations may be undertaken after spells of rain.
 - Nursery beds of large cardamom suckers may be mulched properly with dried leaves in order to prevent soil erosion and weed growth.
 - Water level of 5 cm to at least 3/2.5 cm should be maintained in 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.
 - The crop starts maturing at higher hills also in addition to low altitudes. Hence, weeding should be done before harvesting. Harvesting may be done only when the crop is fully matured. Maturity may be assessed when the capsule of the top most spike turn dark brown and when the capsule come out easily while pulling.
- **Plant protection:**
 - Chirke and Foorkey infected cardamom plants may be destroyed by uprooting and buried in the pits at regular intervals. Diseased/pest infested suckers of large cardamom may be removed and destroyed.
 - Regular inspection may be carried out to observe caterpillar/shoot borer/shoot fly incidence, if any, and may be hand picked and destroyed mechanically or by burning.

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

Assam

Realised Rainfall: 6 districts of Assam received deficient/scanty rainfall otherwise the rainfall was normal/excess during last week.

- **Rainfall distribution for last 5 weeks:**

Assam					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
East Garo Hills	78	-79	-88	-100	-86
Goalpara	-70	-74	-89	-85	-25
Jorhat	-36	-80	-84	-30	-49
Kokrajhar	27	-69	-61	-92	-33
Lakhimpur	60	-22	-68	-62	-31
Distribution of rainfall for remaining districts of the state for last five weeks					
Barpeta	55	61	-15	-89	97
Bongaigaon	-17	-12	-16	-90	26
Cachar	-53	-44	-74	-72	81
Darrang	-66	-93	-63	3	9
Dhubri	-12	-90	-84	-76	47
Dibrugarh	-9	-28	-81	-44	131
East Khasi Hills	49	-38	-21	-61	70
Golghat	-41	-40	-68	21	-44
Hailakandi	-33	6	-70	-63	123
Kamrup	-15	-16	-84	-55	6

Karbi Analog	-86	66	-100	15	190
Karimganj	-60	-32	-87	-48	20
Morigaon	-73	-15	-84	-67	113
Nalbari	-15	2	-93	-91	35
Nowgong	-90	42	-94	-58	-7
Sibsagar	-7	-46	-74	48	114
Sonitpur	-49	-92	-59	-97	102
Tinsukia	6	13	-83	-36	115

- **Rainfall Forecast:** Rain/thundershowers at many places during next 48 hrs. with isolated heavy rainfall over the state.
- **Major Kharif Crops: Sali paddy**
- **Crop Stage: Rice(tillering)**
- **Crop Condition:** Good
- **Advisory:** Apply top dressing in early sown *sali* rice after current spells of rain.
- Farmers are advised to sow early varieties of cauliflower(eg. Early Kuwari, Pusa Keteki, Pusa Dipali etc.).
- Postpone irrigation to the crops as rain/thundershowers at many places over the State. Arrange to provide drainage if there is chance of heavy rainfall.
- Collect quality seeds of toria varieties like M27, TS 36, TS 38 and TS 46 and prepare the field to sow early @ 10 kg/ha.
- **Major Seasonal Crop with stage:** Vegetables (vegetative / flowering / fruiting / harvesting), early *ahu* rice (tillering / panicle initiation), *Capsularis* jute (harvesting), *Olitorius* jute (harvesting), maize (tasselling) and sugarcane (vegetative)
- **Crop Condition:** Good
- **Advisory:**
- Postpone irrigation to the crops as rain/thundershowers at many places over the State.
- Seeds of cabbage, cauliflower, knolkhol, tomato, brinjal etc., can be sown in nursery beds.
- **Plant protection:** Weather conditions are favourable for mild incidences of –
 - leaf folder or stem borer in rice. When there is one damage leaf per hill due to attack of leaf folder or appearance of one adult hispa per hill is observed farmers are advised to spray Chloropyriphos 20EC @ 1.5ml per liter of water after current spells of rain.

Arunachal Pradesh

Realised Rainfall: The state received excess rainfall except few districts like Changlang, Lower Subansiri and Tawang, which received scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks:**

Arunachal Pradesh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Lower Subansiri	-59	-79	-51	-98	-75
2 weeks continuously deficient to no rain					
Tawang	-63	-23	-16	-26	-61
Distribution of rainfall for remaining districts of the state for last five weeks					
Changlang	-75	-93	-93	-1	-61
East Kameng	0	-54	-86	-95	64
East Slang	75	-72	-98	-93	86
Lohit	4	-11	-91	-26	232
Papumpara	220	-23	-85	-90	20
Tirap	36	-26	-94	-78	246
Upper Subansiri	43	-86	-93	-66	66
West Kameng	508	-23	-68	-34	461

- **Rainfall Forecast:** Rain/thundershowers at many places during next 48 hrs.with isolated heavy rainfall over the state.
- **Major Kharif Crops:** Jhum rice, WRC rice, millets

- **Crop Stage:** vegetative/flowering
- **Crop Condition:** Good.
- **Advisory:**
- Undertake weeding and intercultural operations after current spells of rain
- Harvest the matured maize crop.
- Postpone irrigation to the crops as rainfall is likely at many places in the State. Arrange to provide drainage if heavy rainfall is there.
- **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.

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

Andhra Pradesh

- **Realised Rainfall:** Coastal Andhra Pradesh, Telangana and Cuddapah, Kurnool districts of Rayalaseema received deficient/scanty rainfall; Anantpur and Chittoor, districts of Raylaseema received excess rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Andhra Pradesh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
Nellore	-11	-83	-78	-66	-71
Telangana					
Hyderabad	181	-45	-50	-29	-100
Karimnagar	39	-55	-21	-95	-96
Nalgonda	100	-68	-44	-83	-83
Rangareddy	384	-54	-22	-88	-87
Rayalaseema					
Cuddapah	140	-92	-89	-48	-38
3 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
East Godavari	-16	-15	-33	-61	-52
Sirkakulam	1	42	-68	-37	-72
Visakhapatnam	-62	-19	-22	-65	-37
Vizianagram	19	54	-62	-27	-70
2 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
West Godavari	-21	9	27	-26	-38
Telangana					
Adilabad	63	-66	-16	-98	-99
Khammam	24	-8	46	-85	-66
Medak	115	-56	29	-93	-100
Nalgonda	100	-68	-44	-83	-83
Nizamabad	79	-51	8	-92	-92
Rangareddy	384	-54	-22	-88	-87
Warangal	62	-41	15	-75	-72
Distribution of rainfall for remaining districts of the state for last five weeks					
Coastal Andhra Pradesh					
Guntur	147	-86	-74	12	-45
Krishna	118	-47	-48	1	-55
Prakasam	-28	-87	-69	79	-68
Telangana					
Mehabubnagar	78	-57	-6	-14	-82

Rayalaseema					
Anantapur	325	-84	-63	113	30
Chittoor	43	-93	-83	25	85
Kurnool	38	-81	1	2	-28

- **Rainfall Forecast:** Rain/thundershowers at 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:** tillering (rice), pegging (groundnut), vegetative (cotton).
- **Crop Condition:** Satisfactory.
- **Advisory:** Farmers in North Andhra Pradesh are advised to not to apply irrigation as rainfall is likely in the coming days. Undertake intercultural operations and application of urea through top dressing in finger millet.
- Application of second split of nitrogenous fertilizer (20 kg urea/acre) may be taken up after inter cultural operations in paddy crop.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops.
- **Major Seasonal Crop:** Sugarcane and Vegetables
- Farmers are advised to undertake intercultural operations in sugarcane and vegetables to keep the fields weed free in Telangana.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides.
- Farmers are advised to sow rabi redgram, rajmah, cowpea and niger crops.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - Blast, leaf folder, stem borer in paddy crop, for leaf folder spray quinolphos 2 ml/lit or monocrotophos 1.6 ml/lit of water and spray 200 litres of spray fluid per acre and for stem borer, spray Cartap hydrochloride @ 2.0 g or Phosphomidon @ 2ml/litre of water, for blast spray tricyclozole @ 6.0 g/10 litres of water.
 - Sucking pests (Mealybugs and Hoppers), jassids on cotton, for Sucking pests spray Monocrotophos or Methyldemeton and water in 1:4 ratio or Imidachlorpid 200 S.L and water in 1:20 ratio should be mixed and applied to the shoot tips with brush at 20,40,60 days after sowing and for jassids spray Dimethoate @ 2 ml or Imidacloprid @ 0.25 ml per litre of water.
 - incidence of white fly and hopper on sugarcane, spray Malathion or Endosulphan @ 2 ml per litre of water, two times at 10-15 days interval.

Animal Husbandary: Cattle and Buffaloes

- The prevailing weather conditions are congenial for the occurrence of - Foot and mouth disease, Haemorrhagic Septicemia in cattle - ET and sheep pox in sheep. To prevent the diseases, vaccinate the animals.

Karnataka

Realized Rainfall: The state received normal/excess rainfall except Udupi, Uttar Kannada districts of Coastal Karnataka and Bidar, Raichur districts of North Interior Karnataka received deficient/scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks**

Karnataka					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
2 weeks continuously deficient to no rain					
Coastal Karnataka					
Udupi	31	142	193	-40	-22
Uttar Kannada	2	87	183	-47	-21
North Interior Karnataka					
Raichur	215	159	17	-61	-32
Distribution of rainfall for remaining districts of the state for last five weeks					
Coastal Karnataka					
Dakshin Kannada	18	86	190	-20	35

North Interior Karnataka					
Bagalkote	291	-38	6	-35	2
Belgaum	149	**	118	48	82
Bidar	172	-25	107	-12	-96
Bijapur	524	126	51	-37	1
Dharwad	54	2	44	165	59
Gadag	208	35	-74	-20	27
Gulbarga	252	161	101	-33	-13
Haveri	166	-5	276	1	97
Koppal	539	8	-38	9	44
South Interior Karnataka					
Bangalore Rural	72	-68	-49	-7	90
Bangalore Urban	-43	-10	43	158	105
Bellary	83	173	-4	437	-3
Chamarajnar	60	-53	55	40	48
Chickmagalur	53	48	327	-7	202
Chitradurga	458	24	40	128	131
Davangere	246	110	114	70	23
Hassan	58	20	76	186	256
Kodagu	-1	33	440	41	1
Kolar	177	-53	-72	248	66
Mandya	186	-16	-89	53	167
Mysore	156	-37	222	138	77
Shimoga	43	104	515	-15	92
Tumkur	311	23	-72	124	84

- **Rainfall Forecast:** Rain/thundershowers at many places over Coastal Karnataka during next 24 hours and decrease thereafter. Rain/thundershowers at a few places over interior Karnataka.
- **Major Kharif Crops:** Jowar, Maize, Bajra, Redgram, Ragi, Greengram, Blackgram, Cowpea, Sesamum, Groundnut, Sunflower, Soyabean, Cotton.
- **Crop Stage:** tillering (rice), flowering (pulse crops), peg formation (groundnut), tasseling (maize).
- **Crop Condition:** Satisfactory.
- **Advisory:** Farmers in Coastal Karnataka are advised to postpone irrigation to the crops as rainfall is likely in the next five days. Also provide adequate drainage to avoid waterlogging. As there was sufficient rain in Interior Karnataka, postpone irrigation to the crops. Take up the earthing up and weeding in early sown crops. In addition to this, top dressing with Nitrogen (urea) is suggested to boost up the crop growth.
 - For groundnut apply gypsum @ 200 kg/acre and undertake earthing up.
 - Farmers are advised to complete sowing of cowpea varieties TVX-944, KBC-1 & 2 and Horsegram varieties KBH-1 & PHG-9.
 - Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops on a non rainy day over coastal Karnataka and on a non rainy day in Interior Karnataka
- **Major Seasonal Crop:** Sugarcane and vegetables
 - Undertake intercultural operations in sugarcane and early sown crops over coastal Karnataka after current spells of rain and on a non rainy day in Interior Karnataka to keep the field weed free.
 - Farmers are advised to undertake planting of Cashew.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - rust disease in soybean, spray the crop with Propiconazole or Hexaconazole 1 ml dissolved in one liter of water.
 - sucking pests in vegetable crops, spray the crop with 1.7 ml Dimethoate or 1.0 ml Oxydemetonmethyl dissolved in one liter of water.
 - case worm in rice. Hence, farmers are advised to pull the rope across the crop by holding rope ends on either side of the field and spray the Quinolphos 2ml/lit of water to control it.
 - koleroga in arecanut; spray 1 % Bordeaux mixture to control.

- In 60 -70 days old redgram crop, close observation should be made for the presence of eggs of Heliothis pod borer pest. If more than 5 eggs per plant are noticed, take up spraying of ovicidal insecticide Methomyl 40 SP, 0.75 gram or Prophenophas 1 ml dissolved in one liter of water.
- Erect the branched wooden poles (taller than the crop) in redgram field so as to facilitate the birds to sit on it and they can easily see the larvae of Heliothis pod borer and eat them.
- Undertake spraying of chemicals after current spells of rain in coastal Karnataka and on a non rainy day over Interior Karnataka.

Kerala

- **Realised Rainfall:** The state received normal/excess rainfall except Kasargod district, which received scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Kerala					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
2 weeks continuously deficient to no rain					
Kasaragod	25	-16	33	-43	-76
Distribution of rainfall for remaining districts of the state for last five weeks					
Alappuzha,	-61	10	-12	-96	23
Kannur	-26	20	108	-94	15
Ernakulam	**	82	52	-80	106
Idukki	-37	10	270	-53	-12
Kollam	-11	8	113	-84	24
Kottayam	-10	11	4	-87	18
OKozhikode	-16	116	130	-88	4
Malappuram	44	125	156	-73	40
Palakkad	69	75	231	-83	5
Pathanamthitta	-26	-76	61	-72	53
Thiruvananthapuram	39	79	167	-98	-15
Thrissur	46	107	101	-83	25
Wyanad	-49	-85	83	-68	5

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State.
- **Major Kharif Crops:** Rice
- **Crop Stage:** maturity/harvesting (*viripu* rice).
- **Crop Condition:** Good.
- **Advisory:** As rain/thundershowers are likely at many places, postpone irrigation to the standing crops. Arrange drainage facilities to avoid water logging as isolated heavy rainfall is likely during next 48 hours.
- Apply second dose of fertilizer in rainfed coconut. Apply fertilizers @ 500g Urea, 600g Rock phosphate and 800g Potash per plant.
- Intercultural operations, application of fertilizers and pesticides may be continued after current spells of rain.
- **Major Seasonal Crop:** Vegetables and plantation crops (coconut, arecanut, pepper and cashew). Time for nursery sowing of *mundakan* rice and planting of coffee
- Intercultural operations, application of fertilizers and pesticides may be continued after current spells of rain.
- Farmers are advised to undertake sowing of *mundakan* rice in the nursery. Farmers can collect paddy seeds for the *mundakan* crop wherever it is feasible to raise the crop. If water availability is assured, farmers can go for long duration varieties of paddy. Matta Triveni, Jyothi, Karthika, Kanchana, Ramanika and Makam are some of the short duration varieties. Kanakam, Pavizham, Asha, Uma and Panchami are some of the medium duration varieties. Mangala, Mashurie, H-4 and Karuna are some of the long duration varieties suited to *mundakan* crop
- Undertake planting of coffee seedling in high hill areas.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –

- Weather conditions are favourable for the incidences of pollu beetle and quick wilt in pepper. Drench the soil and with 0.2% Copper oxy chloride and spray the aerial part with 1% Bordeaux mixture as a prophylactic measure to control Quick wilt and pollu disease. Application Trichiderma/ Psuedomonas culture will control the quick wilt infestation
- In coconut, due to favourable weather conditions, apply 1% Bordeaux mixture in the tender leaf axils as a prophylactic measure to control bud rot. Stem bleeding may become more severe. Farmers are advised to keep vigilance against Red palm weevil and rhinoceros beetle.
- Undertake spraying of chemicals after current spells of rain.

Tamil Nadu

- **Realised Rainfall:** The state received normal/excess rainfall except Chennai, Pondicherry and Tiruvallur district, which received deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Tamil Nadu					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
3 weeks continuously deficient to no rain					
Chennai	-85	-2	-84	-66	-47
Pondicherry	-39	8	-99	-26	-83
Tiruvallur	-29	-1	-74	-86	-32
Distribution of rainfall for remaining districts of the state for last five weeks					
Coimbatore	251	277	1164	7	198
Cuddalore	-73	-63	-68	-73	2
Dharmapuri	-2	-72	-78	48	85
Dindigul	-34	-80	-94	-31	65
Erode	-13	-24	-94	5	80
Kanchipuram	-89	114	-73	-27	2
Kanyakumari	342	2	234	-94	13
Karur	-75	-100	-100	43	95
Krishnagiri	-60	-35	-75	211	135
Madurai	-42	-97	-100	-18	74
Nagapattinam	-76	-57	-83	-92	-15
Namakkal	9	-66	-49	-8	40
Nilgiris	33	-15	249	-38	21
Perambalur	-96	-100	-83	-100	80
Pudukottai	-98	-81	-87	1	126
Ramanathapuram	-54	-89	-100	-75	238
Salem	42	-51	-13	8	80
Sivaganga	-81	-43	-100	61	76
Thanjavur	-31	-87	-96	-17	124
Theni	-43	-51	112	-69	0
Tirunelveli	212	-38	208	-34	30
Tiruvannamalai	-100	-6	-100	76	96
Tiruvarur	61	-100	-100	-63	119
Trichy	-53	-100	-100	-69	103
Tuticorin	-47	-100	-100	-54	141
Vellore	-73	50	-87	95	136
Villupuram	-76	-61	-94	105	-16
Virudhunagar	-73	-100	-100	-75	133

- **Rainfall Forecast:** Rain/thundershowers at isolated places over the State.
- **Crop Stage:** grain formation (*kuruvai* rice), flowering/pod formation (pulses)
- **Crop Condition:** Good
- **Advisory:**
 - As good rainfall received during last week, postpone irrigation to the crops.
 - Undertake intercultural operations (weeding and earthing up) in rainfed groundnut.
- **Major Seasonal Crop:** *samba* rice (Sowing/transplanting), Sugarcane, banana and vegetables.

- Farmers are advised to prepare land and transplanting of paddy in areas of late samba season. In case of nursery sowing select among the medium duration varieties for late samba like ADT38, ADT 39, ADT 46, white ponni, IR 20, Ambai 19, C0 48, Co 49 and paiyur1
- Intercultural operations, application of fertilizers may be continued in vegetables and sugarcane.
- Farmers who are interested in paddy cultivation can opt for System Rice Intensification method where single plant transplantation is practiced. 3 kgs of seeds required per acre are raised for 14 days and transplanted in a squarely fashion. As a single plant is transplanted, more tillers are formed resulting up to 4 tons of yield per acre.
- Farmers in Western zone are advised to undertake sowing of tomato in nursery.
- For vegetable nursery, there should not be any stagnation of water in the beds. Thus, channels in between the raised nursery beds should be cleaned for proper drainage.
- **Plant Protection:**
 - In paddy field, sucking pest (leaf hoppers, plant hoppers, thrips) and leaf folder may attack due to favourable weather conditions; farmer are advised to go for plant protection measures like spraying of profenophos 50 EC @ 1000 ml/ha (or) Phosphamidan 40 SL – 1250 l/ha (or) Dichlorros 70 WSC 625 ml/ha.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

Maharashtra

- **Realised Rainfall:** Konkan & Goa, Marathwada, Vidarbha and 6 districts of Madhya Maharashtra received deficient/scanty rainfall and remaining districts of Madhya Maharashtra received normal/excess rainfall during last week.
- **Rainfall distribution for last five weeks**

Maharashtra					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
3 weeks continuously deficient to no rain					
Vidarbha					
Chandrapur	11	-1	-59	-99	-99
Gadchiroli	3	20	-48	-100	-98
Gondia	-8	15	-58	-59	-100
Wardha	90	54	-58	-98	-89
2 weeks continuously deficient to no rain					
Konkan & Goa					
Goa	-9	139	199	-37	-67
Raigad	-26	-10	67	-31	-48
Ratnagiri	2	42	194	-34	-40
Sindhudurg	-19	36	207	-33	-76
Thane	-52	-36	22	-58	-81
Madhya Maharashtra					
Dhule	189	2	401	-60	-75
Jalgaon	106	-20	198	-95	-95
Nandurbar	-27	55	147	-100	-100
Nasik	225	32	138	-38	-66
Solapur	479	28	53	-20	-36
Marathwada					
Beed	261	-12	193	-20	-69
Jalna	253	13	79	-74	-77
Latur	137	-24	42	-93	-99
Nanded	73	-34	0	-100	-100
Usmanabad	272	-51	152	-50	-83
Parbhani	159	15	0	-73	-89
Vidarbha					
Akola	239	11	47	-97	-90
Amraoti	89	-13	10	-98	-100
Bhandara	-25	16	-7	-60	-99

Buldhana	207	27	13	-98	-98
Nagpur	31	63	-8	-72	-96
Washim	123	-31	20	-50	-100
Yeotmal	72	-41	23	-93	-99
Distribution of rainfall for remaining districts of the state for last five weeks					
Konkan & Goa					
Mumbai	93	-5	190	13	-37
Madhya Maharashtra					
Ahmednagar	404	-36	104	36	-87
Kolhapur	46	59	223	87	25
Pune	207	-47	24	81	29
Sangli	270	-25	4	18	8
Satara	224	0	40	72	66
Marathwada					
Aurangabad	163	-6	266	-13	-89

- **Rainfall Forecast:** Rain/thundershowers are likely at many places over Konkan during next 24 hours and decrease thereafter with isolated heavy rainfall. Rain/thundershowers are also likely at a few places over Madhya Maharashtra during next 24 hours and isolated thereafter. Mainly dry weather over Marathwada & Vidarbha.

- **Warning:** Isolated heavy rainfall is likely over Konkan during next 24 hours.
- **Major Kharif Crops:** Rice, ragi, cotton, Vegetables, Pulses, bajra, groundnut, tur, horse gram, soybean, jowar
- **Crop Stage:** *Kharif* paddy (early variety at flowering, mid late variety at panicle initiation & late variety at active tillering in Konkan & Kolhapur divisions and tillering/panicle initiation in other divisions), jowar (vegetative growth / flag leaf initiation), *kharif* cotton (floral bud formation), bajra (grain formation/ grain maturity), groundnut (pegging / pod formation), soybean (pod formation), irrigated cotton (flowering / boll formation) and black gram (pod maturity / harvesting) and red gram (branching).
- **Crop Condition:** Good

Advisory: As Dhule, Jalgaon, Nandurbar, Nasik, Solapur districts in Madhya Maharashtra, most districts in Marathwada and Vidarbha received no significant rain during last week, apply irrigation to the crops.

Postpone irrigation in Konkan as rainfall is likely at many places during next 24 hours with heavy rain. Also provide adequate drainage facilities to avoid water logging.

- Apply second dose of nitrogenous fertilizers to *kharif* rice in Vidarbha.
- Apply third dose of Nitrogenous fertilizer @20 kg N per ha to *kharif* paddy crop at flowering stage in Konkan & Kolhapur divisions after current spells of rain.
- Start sowing of *rabi jowar* and safflower in Madhya Maharashtra, Marathwada & Vidarbha.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Apply top dressing of N @ 160 kg/ha to new *adsali* sugarcane after 6-8 weeks of planting.
 - Undertake spraying, fertilizer application in the standing crops.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - blue beetle and leaf folder & blast in *kharif* paddy in Konkan. 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 after current spells of rain.
 - Sap sucking pest on cotton in Central Vidarbha zone, for control spray Acitamepid 20 % WS@ 4 gm or Dimethoate 30 % WS @ 10 ml in 10 liters of water.

Gujarat

- **Realised Rainfall:** Mainly dry weather was prevailed over the state during last week.
- **Rainfall distribution for last five weeks**

Gujarat					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
3 weeks continuously deficient to no rain					
Gujarat Region					

Ahmedabad	-99	124	-92	-92	-100
Anand	-78	73	-81	-98	-100
Banaskantha	-100	71	-97	-100	-100
Baroda	-96	65	-30	-100	-100
Gandhinagar	-99	111	-100	-100	-100
Kheda	-95	118	-94	-100	-100
Mehsana	-100	172	-92	-100	-100
Panchmahal	-91	87	-33	-100	-100
Patan	-100	225	-100	-100	-100
Sabarkantha	-94	221	-47	-100	-100
Saurashtra, Kutch & Diu region					
Amreli	-100	227	-87	-73	-100
Bhavnagar	-99	26	-20	-70	-100
Jamnagar	-99	354	-84	-100	-100
Junagarh	-100	104	-60	-100	-100
Kutch	-95	391	-100	-100	-100
Porbandara	-100	358	-69	-100	-100
Rajkot	-100	169	-98	-100	-100
Surendranagar	-100	112	-100	-98	-100
2 weeks continuously deficient to no rain					
Gujarat Region					
Broach	-67	37	-15	-100	-100
Dahod	-70	22	13	-100	-100
Dangs,	-59	-6	100	-94	-100
DNH & Daman	32	-21	58	-99	-91
Narmada	-59	69	115	-100	-100
Navsari	-68	11	117	-96	-93
Surat	-14	103	139	-99	-100
Valsad	-19	-3	129	-97	-95

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** Rice, castor, pigeon pea, cotton, groundnut, bajra, sesamum, cluster bean, pulses
- **Crop Stage:** Rice(tillering), groundnut(pegging), maize(siliking), bajra (vegetative/flowering), cotton(square formation)
- **Crop Condition:** Crop condition is satisfactory
- **Advisory:**
 - As most of the districts of the State received deficient/scanty/no rainfall during last week, apply irrigation to the crops.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Undertake intercultural operation and application of fertilizer and plant protection measures. Undertake planting of different fruit crops like mango, sapota, pomegranate, lemon, guava, custard apple etc.
 - Farmers are advised for sowing of fodder sorghum.
 - Undertake top dressing in castor.
 - Sow Clusterbean varieties like GC – 1, 2 at 30 cm spacing.
- **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 carbandezim @10 gm + mencozeb @ 20 gm in 10 liters of water

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Realised Rainfall:** Compare to preceding week rainfall was deficient during last week in both the subdivisions.

- Rainfall distribution for last 5 weeks

Madhya Pradesh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
East Madhya Pradesh					
Rewa	-92	-32	-41	-82	-87
3 weeks continuously deficient to no rain					
East Madhya Pradesh					
Balaghat	0	30	-57	-85	-100
Seoni	-34	17	-26	-65	-100
West Madhya Pradesh					
Bhind	-91	19	-33	-50	-100
Dewas	-56	49	-71	-36	-100
Harda	-59	30	-66	-21	-100
Sehore	-71	30	-43	-62	-100
2 weeks continuously deficient to no rain					
East Madhya Pradesh					
Chhindwara	-11	80	165	-49	-100
Dindori	-57	10	74	-82	-100
Katni	-84	-51	55	-25	-100
Mandla	-62	104	40	-95	-100
Shahdol	-39	-61	157	-92	-100
Sidhi	-40	-39	40	-90	-100
Tikamgarh	-96	36	17	-84	-100
Umaria	2	-57	191	-76	-100
West Madhya Pradesh					
Badwani	1	14	185	-100	-100
Betul	35	22	18	-43	-100
Bhopal	-98	22	15	-46	-100
Datia	-25	8	58	-90	-100
Dhar	8	-13	114	-100	-100
Gwalior	-90	-8	19	-74	-100
Indore	-75	43	157	-99	-100
Jhabua	-75	23	107	-100	-100
Khandwa	-33	-42	1	-99	-100
Khargone	-25	-38	122	-100	-100
Mandsaur	-89	49	84	-100	-100
Neemuch	-89	75	121	-100	-100
Ratlam	-57	57	50	-100	-100
Sehore	-71	30	-43	-62	-100
Shajapur	-83	40	-10	-100	-100
Sheopur Kalani	-100	-44	-14	-81	-100
Shivpuri	-33	55	-1	-71	-100
Ujjain	-71	54	95	-84	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
East Madhya Pradesh					
Chhatarpur	-96	-18	-1	-19	-100
Damoh	-80	-16	42	28	-100
Jabalpur	-69	42	205	21	-100
Narsingpur	-79	92	272	141	-100
Panna	-96	-10	-54	31	-100
Sagar	-77	40	54	149	-100
Satna	-90	-54	67	-18	-100
West Madhya Pradesh					
Guna	-74	11	-35	2	-100
Hosangabad	-44	44	66	39	-100
Morena	-71	-33	34	38	-100

Raisen	-69	78	29	116	-100
Rajgarh	-89	-1	-56	0	-100
Vidisha	-67	55	-30	87	-100

- **Rainfall Forecast:** Mainly dry weather is likely over the State.
- **Major Kharif Crops:** Rice, jowar, sunflower, jowar and soybean
- **Crop Stage:** tillering (rice), flowering/pod formation/pod development (soybean and other pulse crops).
- **Crop Condition:** Satisfactory.
- **Advisory:** Farmers are advised not to apply irrigation to the crops as rainfall is likely in the coming days, and apply irrigation in West Madhya Pradesh. Undertake weeding and intercultural operations in soybean, paddy, maize, moong, urd and other *kharif* crops.
 - Also undertake top dressing of urea in maize, jowar, paddy and other *kharif* crops with recommended dose.
- **Major Seasonal Crop with stage:** Sugarcane (cane development), cotton (boll development/ maturity) and vegetable crops (vegetative)
- **Crop Condition:** Good
- **Advisory:** Farmers are advised to transplant cabbage and cauliflower on the field.
 - Farmers are advised to undertake transplanting of chilli, tomato and onion.
 - Undertake pit preparation for planting of new orchard crops.
 - Farmers are advised to apply FYM/vermicompost, N, P, K at recommended dose for fruit crops
 - Undertake intercultural operations in the seasonal crop.
- **Plant Protection:**
 - Destroy YMV affected plants from soybean field and spray Methyle Demeton for controlling of vector.
 - Weather conditions are favourable for-
 - semi-looper in *kharif* crops; spray Trizophos 40 E.C. @ 2.0 ml/l for control.
 - sucking pest i.e. jassid, white fly etc. in *kharif* crops; spray Amydachloroprid 17.8 SL. @ 0.5 ml/l for control.
 - tobacco caterpillar in soybean crop, spray Profenophos 40 EC and cypermethrin 4 EC @ 1 lit/ha.
 - boll worm cotton crops, spray Profenophos 40% EC @ 3.0 ml/l.
 - girdle beetle/leaf defoliator in soybean, spray Quinolophos 25 or Endosulphan 35 @ 1000 ml in 500 litre of water per hectare.
 - pyrilla in sugarcane or shoot borer, spray Melathyon 1.5 litre per hectare in 700-800 litre of water.
 - shoot and fruit borer in brinjal, regular clipping of affected shoots and weekly spray of neem seed kernel extract (4%) is recommended .
- **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.
 - Farmers should vaccinate there animals for Khurpaka-Muhpaka disease in Jhabua and Dhar.

Chattisgarh

- **Realised Rainfall:** The state received deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Chattisgarh					
State/Districts	26.08.09	02.09.09	09.09.09	16.09.09	23.09.09
More than 3 weeks continuously deficient to no rain					
Bilaspur	48	-67	-49	-78	-94
Dhamtari	-38	-33	-97	-100	-100
Durg	34	-22	-77	-80	-100
Mahasumund	-7	-37	-81	-100	-100
Raigarh	-11	-36	-31	-92	-57
Raipur	51	-37	-64	-86	-98

Rajandgaon	-16	-43	-50	-84	-98
Surguja	-63	-43	-37	-97	-100
3 weeks continuously deficient to no rain					
Bastar	93	17	-66	-97	-77
Dantewara	-60	24	-45	-78	-67
Janjgir	53	20	-21	-93	-71
Jashpurnagar	18	-8	-49	-80	-79
Kanker	-12	5	-33	-100	-100
Korba	-6	-11	-65	-69	-87
Kowardna	23	20	-89	-96	-100
2 weeks continuously deficient to no rain					
Koriya	-41	-32	-6	-83	-60

- **Rainfall Forecast:** Isolated rain/thundershowers over Chhattisgarh.
- **Major Kharif Crops:** Rice, soybean, maize, sesamum, tur.
- **Crop Stage:** tillering (rice), tasseling (maize), flowering/pod formation (pulse crops)
- **Crop Condition:** Good
- **Advisory:** Where maize is at tasseling stage farmers are advised to apply top dressing last dose of nitrogen.
 - Farmers are advised to apply last dose of Nitrogen through urea fertilizer in medium and late duration rice, which is presently at panicle initiation stage.
 - Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative), vegetables (flowering / fruiting / harvesting),
- **Crop Condition:** Good
- **Advisory:** Prepare the land for sowing niger, horsegram, linseed and toria
 - Present weather conditions are suitable for the nursery sowing of vegetables like brinjal, tomato, chilli etc.
 - Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops.
 - In the vegetables grown during the winter season, nursery for the cauliflower and cabbage type vegetables should be grown or these should be directly sown in the fields. In case the early sown vegetables (cauliflower, brinjal and chillies etc.) if nursery is ready, then field preparation may be done and then transplanting should be done in Dantewada district.
 - Weeding should be done in in urad in Bastar, Naraynapur, Dantewada, Bijapur districts.
- **Plant protection:** Weather conditions are favourable for the incidences of leaf folder in arhar, farmers are advised to spray of chlorpyrifos @ 2 ml/litre of water
 - blast disease in rice, spray bavistin @ 0.6 gms./ litre water or beam can also be used @ 1 gm./litre water in Bastar, Naraynapur, Dantewada, Bijapur districts.
 - stem borer in rice, apply carbofuran @ 33 kg./ha. In earheads of rice, to control false smut attack spray copper oxychloride fungicide @ 2 gms./ litre water in Bastar, Naraynapur, Dantewada, Bijapur districts.
 - stem borer in late sown maize crop, use carbofuran 3 G should be used @ 2-3 grains/ plant or this can be also applied at the time of earthing up @ 10 kg./ acre in Bastar, Naraynapur, Dantewada, Bijapur districts.