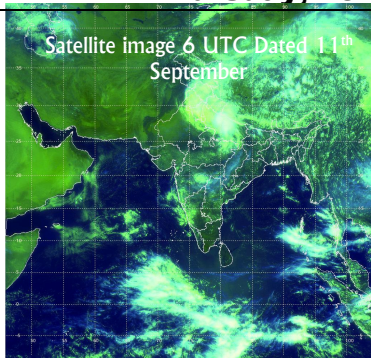


National Agromet Advisory Bulletin

Thursday, 10th September, 2009 (For the period 10th to 14th September, 2009)



Rainfall Forecast valid upto 1430 hours IST of 13th September, 2009

- **Most Places:** Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi and West Uttar Pradesh
- **Many Places:** Punjab, East Rajasthan and East Uttar Pradesh, West Bengal & Sikkim and Bihar, Assam, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Andaman & nicobar Islands, Madhya Pradesh
- **Few Places:** Jammu & Kashmir, Jharkhand, Orissa, Coastal Karnataka, Kerala, Lakshadweep, Konkan & Goa, Madhya Maharashtra Gujarat region, Chhattisgarh and Vidarbha.
- **Isolated Places:** West Rajasthan, Interior Karnataka, Tamil Nadu & Pondicherry, Kerala, Andhra Pradesh, Lakshdweep, Marathwada, saurashtra & Kutch,

Warning (for next 48 hours):

- Heavy to very heavy rainfall at a few places with extremely heavy (≥ 25 cm.) rainfall at isolated places is likely over Haryana, Chandigarh & Delhi, Himachal Pradesh and Uttarakhand.
- Isolated heavy to very heavy rainfall is likely over Uttar Pradesh, East Rajasthan, Punjab and Madhya Pradesh.

Weather and Agriculture


There was good amount of rainfall in West Bengal, Himachal Pradesh, Madhya Pradesh, Uttar Pradesh, Uttarakhand, Bihar, Jharkhand, Gujarat, Maharashtra, Orissa, Karnataka, Kerala and Telangana. Rainfall is likely in most places in Haryana, Chandigarh & Delhi and many places in Punjab, East Rajasthan, Sikkim, Assam, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Andaman & Nicobar Islands and Madhya Pradesh. This realized and expected rain will be beneficial to the standing crops which are mostly in Vegetative / Flowering stage. This will also help for sowing of early *rabi* crops. As the weather is relatively warm and humid and the crops are in vegetative stage, there are reports of pest incidences. Advisories are issued for monitoring and taking up plant protection measure to save the crop from damage.

- Farmers in West Bengal, Coastal Karnataka and Kerala are advised to drainout the excess water from the field to avoid water stagnation due to excess rainfall during last week.
- Farmers in Punjab, Haryana, Delhi, Himachal Pradesh, Uttar Pradesh and Uttarakhand are advised to continue sowing/transplanting of vegetables, weeding, intercultural operations and top dressing after current spells of rain. Provide adequate drainage facilities in the field as there are chances of heavy rainfall.
- Undertake intercultural operations and application of second split of nitrogenous fertilizer in paddy crop in Andhra Pradesh as the weather is likely to favourable for these operations.
- Farmers in Tamil Nadu are advised to prepare land and transplanting of samba paddy in areas of late samba season.
- Farmers in Rayalaseema are advised to apply irrigation to the standing crops as there was no significant rainfall during last week and no significant rainfall is likely during next five days.
- Undertake weeding and intercultural operations and top dressing in rice after current spells of rain in Assam, Nagaland, Manipur, Mizoram and Tripura and on a non rainy day in Orissa, Jharkhand, Coastal Karnataka, Konkan and Madhya Maharashtra and Vidarbha.
- **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
- blast in rice in Delhi. Monitor the crop for the disease. If the infection is severe, spray Carbandizim @ 0.1 gm per litre of water after current spells of rain.
- late leaf spot in groundnut crop in Andhra Pradesh. As a prophylactic spray Mancozeb @ 2 g with 1 gm of carbendizim or Hexaconazole @ 2ml/litre of water. Second spray may be repeated after 20days of 1st spray.
- blue beetle, leaf folder and blast in *khari* paddy in Konkan, spray Carbaril powder @ 2gm / lit of water with 1 ml sticker for control of blue beetle and leaf folding caterpillar and for control of blast disease spraying of Carbendazim @ 1gm / liter or copper-oxy- chloride @ 2.5gm/liter of water with 1 ml. sticker may be done on a non rainy day.

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

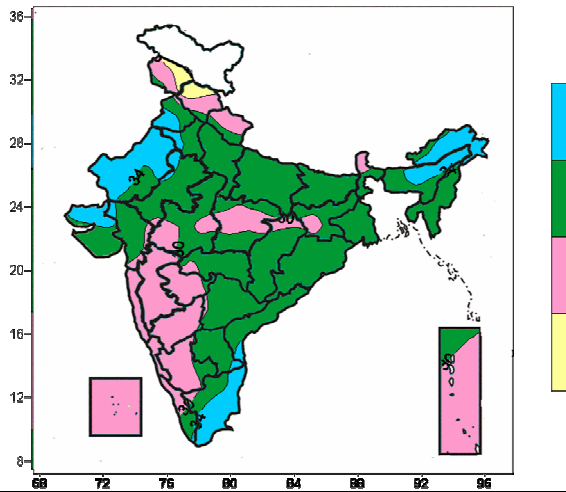
Sub-division	Cumulative Rainfall for the period									
	12 th August		19 th August		26 th August		3 rd September		10 th September	
	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.
A & N Islands	107	-65	95.0	-92	87	84	94.7	12	107.0	-38
Arunachal Pradesh	76	-8	95.3	85	92.4	31	79.5	-57	79.4	-85
Assam and Meghalaya	91	-32	95.1	123	114.1	-33	77.8	-41	80.4	-74
NMMT	71	27	75.2	-32	70.6	43	61.5	-9	53.2	-31
SH West Bengal & Sikkim	108	-16	98.6	126	116.5	10	91.6	-48	95.4	-45
Gangetic West Bengal	68	12	70.0	-4	64.5	14	73.0	-37	66.1	229
Orissa	84	-44	89.0	-33	68.8	67	70.3	-7	68.8	13
Jharkhand	77	-63	72.2	34	67.5	12	63.5	-8	66.2	180
Bihar	65	-18	62.0	92	77.2	-1	54.0	-25	56.7	46
East Uttar Pradesh	74	-67	72.3	58	65.2	-66	57.4	-48	49.9	44
West Uttar Pradesh	73	-86	73.7	89	56.6	-91	51.5	-42	40.0	35
Uttarakhand	105	-38	106.3	17	86.8	-74	72.3	-52	60.0	68
Haryana, Chandigarh & Delhi	42	-92	42.7	-44	35	-78	27.3	-10	24.3	-35
Punjab	46	-74	41.7	-49	30.5	-79	26.2	85	29.9	-42
Himachal Pradesh	69	-40	62.7	-36	52.2	-92	40.8	31	37.4	84
J & K	48	-37	36.4	-26	28.9	-52	29.2	-60	25.6	28
West Rajasthan	23	-99	22.5	-70	21.8	-74	17.2	22	16.7	-57
East Rajasthan	55	-85	56.6	8	53.2	-82	45.1	24	37.6	-20
West M. P.	75	-72	73.5	-31	62.4	-57	64.9	24	58.2	24
East M. P.	95	-62	94.2	-24	73.6	-57	67.5	14	69.3	63
Gujarat region	74	-94	66.5	-93	51.7	-74	62.7	88	52.3	-1
Saurashtra & Kutch	40	-97	31.2	-91	17.7	-98	29.0	262	22.9	-86
Konkan and Goa	183	-85	169.2	-70	132.8	-21	113.2	12	101.1	115
Madhya Maharashtra	44	-81	41.2	-61	30.7	220	34.0	-0	29.6	122
Marathwada	40	-88	43.8	-75	47.2	176	47.1	-15	42.2	101
Vidarbha	72	-69	66.6	-72	60.8	52	59.2	10	56.6	-18
Chhattisgarh	94	-35	92.9	-51	78.6	11	68.6	-14	70.0	-52
Coastal A. P.	34	-59	34.8	41	35.4	17	36.1	49	34.3	-47
Telangana	49	-79	53.6	-54	46	82	45.2	79	42.3	-1
Rayalseema	22	-81	19.8	161	23.5	129	25.1	88	22.5	-57
TamilNadu & Pondicherry	18	-76	18.6	218	23.2	-37	25.2	-39	19.2	-40
Coastal Karnataka	205	-66	189.6	-65	146.9	14	87.7	100	90.2	183
N. I. Karnataka	24	-77	26.4	37	24.9	269	25.7	97	24.1	57
S. I. Karnataka	40	-58	40.2	67	32.7	101	25.6	34	21.4	132
Kerala	115	-62	111.7	-58	93.4	-2	58.5	30	58.1	126
Lakshadweep	53	-73	49.8	-12	49.5	101	38.2	51	27.3	150

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

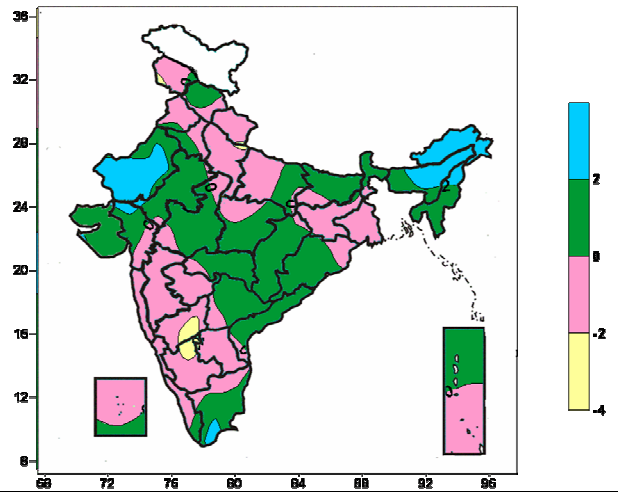
	(20% or more) excess rainfall		(-60 to -99 %) scanty rainfall
	(-19 to +19%) normal rainfall		(-100%) no rainfall
	(-20 to -59%) deficient rainfall		** Data not available

Contour maps for the week ending 09.09.09

Actual Mean Maximum Temperature (°C) in India for the week ending 09.09.09



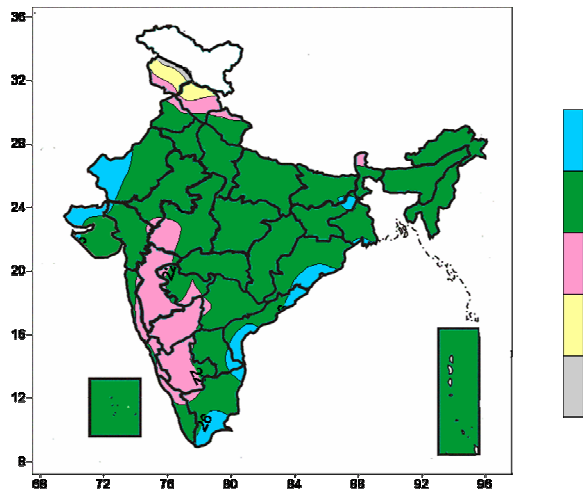
Maximum Temperature (°C) Anomaly in India for the week ending 09.09.09



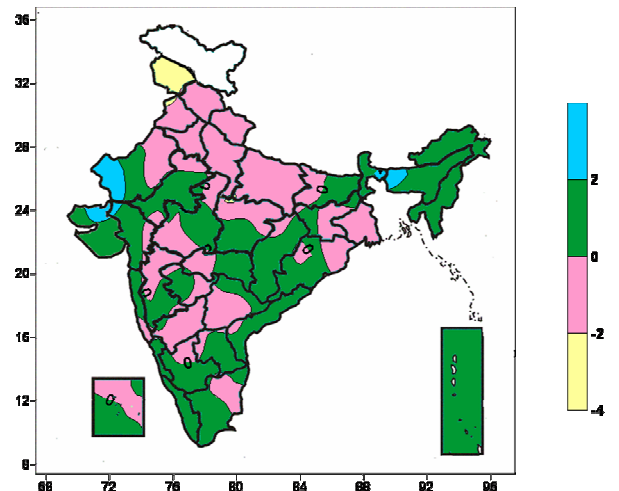
Actual Mean Maximum temperature ranged between 34°C and above over most parts of West Rajasthan, Arunachal Pradesh, coastal Tamil Nadu, some parts of Punjab, Haryana, East Rajasthan, Assam, Saurashtra & Kutch, Coastal Andhra Pradesh, Rayalaseema, 26 to 30°C over most parts of Sikkim, Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Lakshadweep, Andaman Nicobar Island, some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand, Chattisgarh, Vidarbha, Madhya Pradesh, Gujarat, East Rajasthan, Kerala, Tamil Nadu, 22 to 26°C over some parts of Jammu & Kashmir, Himachal Pradesh, 30 to 34°C over remaining parts of the country.

Actual Mean Maximum temperature anomaly ranged between 2°C and above over most parts of West Rajasthan, Arunachal Pradesh, Assam, Meghalaya, Nagaland, -2 to 0°C over most parts of Jammu & Kashmir, Uttarakhand, Punjab, Uttar Pradesh, Jharkhand, Gangetic West Bengal, Konkan & Goa, Madhya Maharashtra, Marathwada, Rayalaseema, Kerala, Karnataka, Lakshadweep, Andaman Nicobar Islands, some parts of East Rajasthan, Bihar, Sub-Himalayan West Bengal, Orissa, Chattisgarh, Madhya Pradesh, Vidarbha, Gujarat, Coastal Andhra Pradesh, Telegana, Tamil Nadu, -4 to -2°C over some parts of Jammu & Kashmir, West Uttar Pradesh, Interior Karnataka, 0 to 2°C over remaining parts of the country.

Actual Mean Minimum Temperature (°C) in India for the week ending 09.09.09



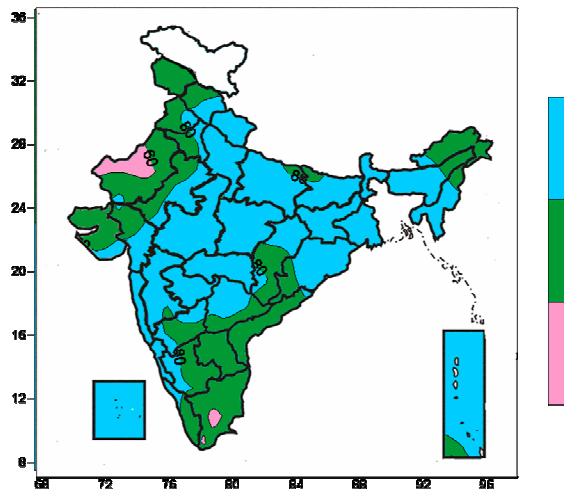
Minimum Temperature (°C) Anomaly in India for the week ending 09.09.09



Actual Mean Minimum Temperature ranged between 26°C and above over some parts of West Rajasthan, Saurashtra & Kutch, Bihar, Jharkhand, Orissa, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, 18°C to 22°C over most parts of South Konkan & Goa, Madhya Maharashtra, Karnataka, some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Sikkim, Marathwada, Gujarat, West Madhya Pradesh, Telengana, Kerala, Tamil Nadu, 14°C to 18°C over some parts of Jammu & Kashmir, Himachal Pradesh, 10°C to 14°C over some parts of Jammu & Kashmir, 22°C to 26°C over remaining parts of the country.

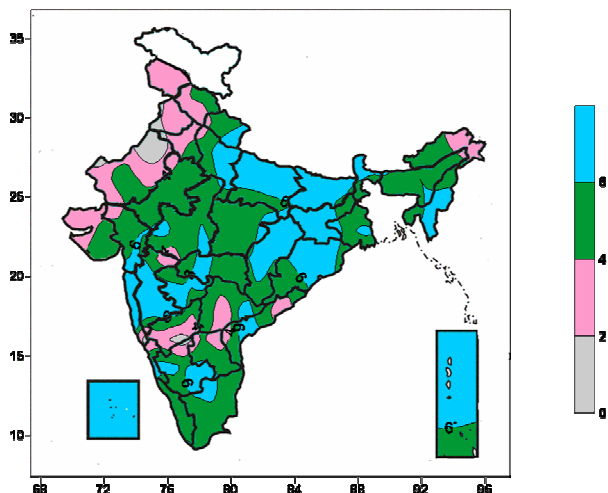
Minimum Temperature anomaly ranged between 2°C and above over some parts of West Rajasthan, Sub-Himalayan West Bengal, Assam, Saurashtra, -2 to 0°C over most parts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Delhi, Uttar Pradesh, Gangetic West Bengal, North Interior Karnataka, Telegana, Some parts of Rajasthan, Bihar, Jharkhand, Orissa, Chattisgarh, Madhya Pradesh, Gujarat, Maharashtra, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, South Interior Karnataka, Lakshadweep Islands, -4 to -2°C over most parts of Jammu & Kashmir, some parts of Punjab, 0 to 2°C over remaining parts of the Country.

Relative Humidity (%) over India for the week ending 09.09.09



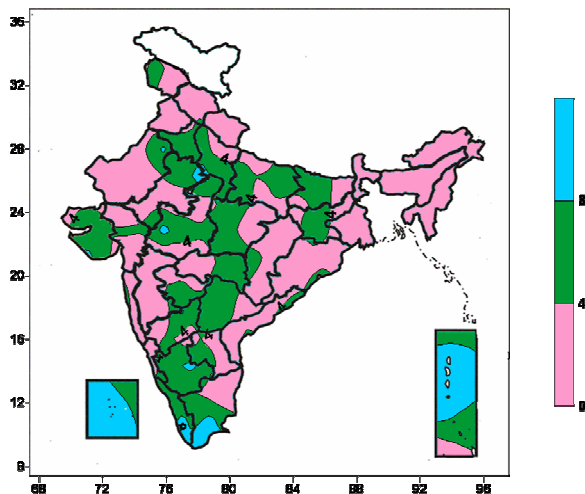
Relative humidity more than 80% over most parts of Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam, Manipur, Mizoram, Tripura, Orissa, Maharashtra, Madhya Pradesh, Coastal Karnataka, Lakshadweep, Andaman & Nicobar Islands, some parts of Himachal Pradesh, Punjab, Haryana, Delhi, Rajasthan, Chattisgarh, Gujarat, Saurashtra & Kutch, Coastal Andhra Pradesh, Telengana, Kerala, South & North Interior Karnataka, 40 to 60% over some parts of West Rajasthan, Tamil Nadu, 60 to 80% over remaining parts of the country.

Cloud amount (okta) over India for the week ending 09.09.09



Cloud amount 6 okta and above over most parts of East Uttar Pradesh, Bihar, Jharkand, Sikkim, Manipur, Mizoram, Orissa, Chattisgarh, Konkan & Goa, Madhya Maharashtra, Lakshdweep, Andaman & Nicobar Islands, some parts of Uttarakhand, West Uttar Pradesh, Gangetic West Bengal, Assam, Marathwada, Vidarbha, Gujarat, Madhya Pradesh, Coastal Andhra Pradesh, Telengana, Tamil Nadu, Coastal & South Interior Karnataka, 2 to 4 okta over most parts of Jammu & Kashmir, Punjab, some parts of Himachal Pradesh, Haryana, Uttarakhand, West Uttar Pradesh, Rajasthan, Assam, Arunachal Pradesh, Madhya Maharashtra, West Madhya Pradesh, Gujarat, Saurashtra & Kutch, Andhra Pradesh, Karnataka, 0 to 2 okta over some parts of Punjab, Haryana, West Rajasthan, Interior Karnataka, 4 to 6 okta over remaining parts of the country.

Wind speed (knots) over India for the week ending 09.09.09



Wind speed ranged between 8 knots and above over most parts of, Lakshadweep, Andaman & Nicobar Island, some parts of Rajasthan, West Madhya Pradesh, Tamil Nadu, Kerala, South Interior Karnataka, 4 to 8 knots over most parts of Haryana, Delhi, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Saurashtra & Kutch, Telengana, North Kerala, Interior Karnataka, some parts of Jammu & Kashmir, Himachal Pradesh, Rajasthan, Orissa, Maharashtra, Gujarat, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, Coastal Karnataka, Lakshadweep, Andaman & Nicobar Islands, 0 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: The state received normal/excess rainfall during last week.

- Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Rainfall distribution for the State for last 5 weeks					
Himachal Pradesh					
Bilaspur	2	5	-81	50	37
Chamba	-87	-89	-98	-78	86
Hamirpur	43	-13	-92	121	71
Kangra	-23	-58	-82	56	20
Kinnaur	-92	-61	-98	83	735
Kullu	15	98	-82	195	103
Lahaul and Spiti	-97	-27	-98	3	124
Mandi	18	-18	-99	19	-1
Shimla	-32	-16	-98	33	90
Sirmaur	-77	-70	-95	-35	93
Solan	-67	-54	-83	40	32
Una	25	22	-99	273	-14

- Rainfall Forecast:** Rain/thundershowers at most places over Himachal Pradesh during next 48 hours and decrease thereafter. Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places is likely over the State.
- Major Kharif Crops:** Rice, Vegetables
- Crop Stage:** Maize(knee high), vegetables(early vegetative), rice(tillering)
- Crop Condition:** Good.
- Advisory:**
 - Prepare the field for sowing of early peas, leafy vegetables and raddish as the weather is favourable for early sowing.
 - Transplanting solanaceous vegetable crops may be taken up after current spells of rain.
 - Postpone irrigation to the standing crops as most places over Himachal Pradesh with heavy rainfall during next 48 hours is likely. Provide adequate drainage facilities to avoid waterlogging.
 - **Major Seasonal Crop:** Fruit crops, Flower crops and Vegetables
 - It is optimum time for new plantation of tea plants or filling of gaps with new plants.
 - Undertake weeding, intercultural operations and top dressing of fertilizers after current spells of rain.
- 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%.
 - Undertake spraying after current spells of rain.

Uttarakhand

- Realised Rainfall:** Most of the districts received sufficient rainfall during last week.
- Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
UttaraKhand					
More than 3 weeks continuously deficient to no rain					
Dehradun	31	-59	-72	-55	-53
Rudraprayag	-86	-60	-78	-58	-25
3 weeks continuously deficient to no rain					
Champawat	26	224	-100	-88	-50
Distribution of rainfall for remaining districts of the state for last five weeks					
Almora	-37	-16	-83	-89	189
Chamoli	-66	-53	-44	-19	118
Garhwal Pauri	-15	-95	-100	-87	65

Garhwal Tehri	-75	-79	-98	-94	68
Haridwar	-51	78	-100	-64	0
Nainital	-7	169	-86	-78	12
Pithorgarh	-12	118	-49	-36	102
Udham Sing Nagar	-86	74	-93	-92	60
Uttarkashi	-88	-8	-67	-1	147

- **Rainfall Forecast:** Rain/thundershowers at most places over Uttarakhand during next 48 hours and decrease thereafter. Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places is likely over the State.
- **Major Kharif Crops:** Rice, Soyabean, Groundnut, Tur, mung, sesame.
- **Crop Stage:** Rice(panicle initiation stage), pulses, oilseeds(vegetative/flowering)
- **Crop Condition:** Good
- **Advisory:**
 - In the late sown rice crop, top dressing of Urea may be continued after current spells of rain.
 - As rain/thundershowers at most places over Uttarakhand with heavy rainfall during next 48 hours, postpone irrigation, weeding, intercultural operations in the standing crops.
 - **Major Seasonal Crop with stage:** Sugarcane ratoon (early vegetative), cabbage, garlic, tomato (vegetative), French bean (early vegetative).
- **Crop Condition:** Good
- **Advisory:** Apply weeding and intercultural operation after current spells of rain.
 - 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 after current spells of rain.
 - Continue transplanting of seasonal grasses for fodder to animals. Select local varieties of grasses in bare fields.
 - **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.
 - Undertake spraying of pesticides after current spells of rain.
- **Animal:** Give balanced feed to milking animals and clean properly their place of sitting in this rainy season.

Punjab

Realised Rainfall: 4 districts like Bhatinda, Hoshiarpur, Kapurthala and Ropar of the state received excess/normal rainfall; remaining districts received deficient/scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Punjab					
More than 3 weeks continuously deficient to no rain					
Fatehgarh Saheb	-100	-81	-100	-63	-91
Distribution of rainfall for remaining districts of the state for last five weeks					
Amritsar	-100	-52	-72	14	-30
Bhatinda	-100	-92	-69	116	-1
Faridkot	-100	-100	-100	0	-38
Ferozpur	-100	-80	-97	159	-88
Gurdaspur	-62	-14	-96	10	-69
Hoshiarpur	-28	-62	-91	104	-3
Jalandhar	-72	27	-39	149	-39
Kapurthala	130	-65	-86	779	48
Ludhiana	-95	-46	-55	38	-65
Moga	-95	-62	-100	374	-89
Muktesar	-100	-81	-38	89	-78
Nawashahar	-68	-9	-91	14	-34

Patiala	-100	-13	-66	177	-68
Ropar	-6	-20	-88	-79	51
Sangrur	-97	-97	-84	50	-26

- **Rainfall Forecast:** Rain/thundershowers at many places over Punjab during next 48 hours and decrease thereafter. Isolated heavy to very heavy rainfall is likely during next 48 hours.
- **Major Kharif Crops:** Rice, maize, guar, til, urd, bajra, cowpea, cotton
- **Crop Stage:** Rice(booting), pulses(vegetative), cotton, soybean(flowering), maize(tasselling/silking)
- **Crop Condition:** Rice crop is in satisfactory condition.
- **Advisory:** Farmers are advised to continue sowing of toria as the first fortnight of September is the optimum period for sowing of toria and use short duration variety PBT 37/ TL 15.
- **Major Seasonal Crop with stage:** Sugarcane and Vegetables
- **Advisory:** Undertake weeding, intercultural operations in sugarcane and cotton on a non rainy day.
 - Undertake 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.
 - Farmers are advised to postpone irrigation to the standing crops as rain/thundershowers at many places during next 48 hours with isolated heavy to very heavy rainfall is likely in the State.
 - **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - whitefly on okra. Apply 560 ml Malathion 50 EC in 100-125 litre of water per acre.
 - tobacco caterpillar on early crop of cauliflower. Apply Thiodan 35 EC in 80-100 litre of water per acre. Repeat at 10 days interval as per requirement.
 - white fly in sugarcane, spray 200 ml Confidor 20 SL in 150 litres of water per acre.
 - Spray chemicals after current spells of rain.
- **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: Eight districts received normal/excess rainfall during last week; remaining districts received deficient/scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Haryana					
More than 3 weeks continuously deficient to no rain					
Bhiwani	-100	-85	-33	-25	-82
Jind	-94	-87	-58	-38	-94
Katihah	-100	-89	-86	-86	-100
Kurukshetra	-100	-71	-94	-48	-76
Panipat	-94	-57	-93	-79	-84
Rewari	-100	-83	-80	-43	-96
Rohtak	-100	-60	-92	-55	-64
Distribution of rainfall for remaining districts of the state for last five weeks					
Ambala	-86	-14	-93	118	-17
Chandigarh	-99	-47	-98	227	-50
Faridabad	-100	71	-74	28	-15
Fatehabad	-100	-88	-48	29	-100
Gurgaon	-93	-16	-55	-29	38
Hissar	-100	-82	-100	78	-74
Jhajar	-100	-53	-83	63	-82
Karnal	-100	-24	-92	-51	86

Mahendragarh	-95	-25	-74	7	-84
Panchkkula	-83	-72	-96	5	-81
Sirsa	-100	-78	-83	-69	36
Sonepat	-97	-75	-96	0	-4
Yamunanagar	-53	64	-98	-10	20

- **Rainfall Forecast:** Rain/thundershowers at most places over Haryana during next 48 hours and decrease thereafter. Heavy to very heavy rainfall at a few places with extremely heavy rainfall at isolated places is likely over Haryana.
- **Major Kharif Crops:** Rice, maize, guar, , cotton
- **Crop Stage:** Rice(tillering), pulses, bajra (vegetative)
- **Crop Condition:** Satisfactory
- **Advisory:** Farmers are advised to complete sowing of toria crop. Select varieties like Sangam, TL 15 and TH 68, TL 15 & TH 68
- **Major Seasonal Crop with stage:** Spring sugarcane (early vegetative/vegetative), vegetable crops (vegetative), cotton (early vegetative) and berseem (vegetative)
- **Crop Condition:** Good
- **Advisory:**
 - Apply top dressing in cotton after current spells of rain.
 - Undertake hoeing and weeding and apply the remaining dose of nitrogen fertilizer to the sugarcane after current spells of rain.
 - Farmers are advised to undertake weeding and hoeing in cotton and intercultural operations in tomato, onion and chilli after current spells of rain.
 - **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 after current spells of rain.
 - bacterial blight in guar, spray the crop with 400ml Blitox and 30 grams of Straptocyclin in 200 liters of water per acre after current spells of rain.

Delhi

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

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
New Delhi	-57	-12	-46	-10	35

- **Rainfall Forecast:** Rain/thundershowers at most places over the state during next 48 hours and decrease thereafter along with heavy to very heavy rainfall at a few places with extremely heavy falls (>25 cm).
- **Major Kharif Crops:** vegetables and rice
- **Crop Stage:** vegetative/tillering
- **Crop Condition: Satisfactory**
 - **Advisory:** As rain/thundershowers at most places over the state along with heavy to very heavy rainfall at a few places, farmers are advised to postpone irrigation, intercultural operations, application of fertilizers and pesticides in early sown crops. Arrange drainage facilities to avoid water logging particularly in maize and all pulse crops.
- **Plant protection:**
 - Present weather conditions are highly favourable for infection of blast disease in rice. Monitor the crop for the disease. If the infection is severe, spray Carbandizim @ 0.1 gm per litre of water.
 - Humid weather conditions are favourable for leaf blight in maize. If the infection is severe, spray Diethane M45 @ 2 grams per litre.
 - Undertake application of pesticides after spells of rain
- **Crop Condition: Good**
 - **Advisory:** Sowing of carrot can be done in raised bed. Recommended cultivars: - Pusa Rudhira and Pusa Kesar. Seed rate: 3-3 ½ kilogram per acre. Application of farm yard manure (which imparts

water retention capacity) and phosphorus fertilizer is recommended. Seed treatment with Captan @ 2 gm per kilogram is advised.

- Farmers are advised to undertake sowing of mustard for green vegetable purpose. Recommended cultivar: - Pusa Sag 1. Sowing of spinach and coriander can be taken up. Intercropping of coriander with sweet corn can be done in raised bed.
- Undertake sowing of short duration vegetable crops, such as radish (Pusa Chetki, Summer long, Summer long Chetki and Versha Kee Rani), spinach (All Green, Pusa Jyoti and Bharati). Seed treatment with Captan @ 2-3 gm per kilogram of seed is advised. Proper seed treatment should be done in all the vegetables. Application of potash is advised in all the vegetable crops as it improves the quality as well as resistance against drought and diseases.
- Farmers having mature seedlings of cauliflower, broccoli and cabbage are advised to go for raised-bed transplanting.
- Planting of young seedling of mango, papaya, kinnow and guava may be taken up. To protect the young plants from termite attack, use of Lindane dust before pit filling and spraying of Chlorpyrifos after pit filling can be done. Planting material should be procured from certified sources.
- Avoid sowing during spells of heavy rain.

Uttar Pradesh

Realised Rainfall: Most of the districts of both the sub divisions received normal/excess rainfall except some districts like Kanpur, Maharajganj, Sidharthnagar, Aligarh, Firozabad, Ghaziabad, Mahamaya Nagar, Meerut, Muzzaffarnagar, Saharanpur, which received deficient/scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
More than 3 weeks continuously deficient to no rain					
East Uttar Pradesh					
Kushi nagar	-81	-45	-87	-85	-59
Maharajganj	-70	-39	-85	-73	-90
West Uttar Pradesh					
Ghaziabad	-81	-50	-100	-76	-43
Mahamaya Nagar	-99	-44	-58	-31	-43
Meerut	-81	-88	-100	-51	-85
Muzzaffarnagar	-98	-91	-91	-58	-52
3 weeks continuously deficient to no rain					
East Uttar Pradesh					
Gonda	-73	234	-44	-20	-37
Kanpur City	-85	38	-87	-63	-78
Kanpur Dehat	-68	35	-97	-48	-26
Sidharthnagar	-32	163	-89	-34	-48
Distribution of rainfall for remaining districts of the state for last five weeks					
East Uttar Pradesh					
Allahabad	-85	-58	-90	-67	231
Ambedkar Nagar	-69	383	-84	-58	46
Azamgarh	-71	148	-51	-24	134
Bahraich	-34	214	-27	-5	87
Ballia	-61	-79	-44	-79	-6
Balrampur	49	52	-87	-35	-16
Banda	-91	63	-86	-4	89
Barabanki	-73	23	-7	-59	39
Basti	-71	97	-17	15	25
Deoria	-6	-56	-47	-48	64
Faizabad	-70	216	-15	-17	44
Farrukhabad	-83	99	-91	-96	125
Fatehpur	-90	11	-98	-41	-9

Gazipur	12	81	-10	25	167
Gorakhpur	-32	35	-70	10	-28
Hardoi	-60	117	-55	-80	71
Jaunpur	-87	24	-74	-44	74
Kheri	-38	186	-42	-42	123
Lucknow	-59	126	-70	-84	154
Mau	-73	8	-85	-75	-18
Mirzapur	-100	-67	-99	-70	118
Pratapgarh	-89	-27	-94	-64	53
RaiBareilly	-98	2	-97	-78	-16
Sant Ravidas Nagar	-55	-44	-100	-11	154
Shrawasti	-41	119	21	-80	71
Sitapur	-82	146	-8	-77	35
Sonbhadra	-95	-61	-92	-51	24
Sultanpur	-86	53	-82	-56	-12
Unnao	-78	48	-92	-87	8
Varanasi	-86	6	-98	-66	33
West Uttar Pradesh					
Agra	-96	-6	-99	-67	22
Aligarh	-93	19	-75	22	-28
Auraiya	-74	128	-100	-60	64
Badaun	-92	256	-94	-22	78
Baghpat	-97	-45	-97	43	167
Bareilly	-92	382	-87	-77	57
Bijnor	-74	175	-99	-85	7
Bulandsahar	-95	103	-95	-17	163
Etah	-89	12	-89	-68	66
Etawah	-87	**	-83	-63	52
Firozabad	-20	-20	-100	39	-46
Hamirpur	-93	63	-68	27	31
Jalaun	-96	11	-94	-16	117
Jhansi	-96	68	-95	-43	8
Jotirba Phule Nagar	-100	167	-100	-92	-7
Lalitpur	-73	26	-97	-6	8
Mainpuri	-61	110	-96	-26	105
Mathura	-94	90	-89	-9	-47
Moradabad	-93	111	-92	-85	157
Pilibhit	-78	177	-96	-95	95
Rampur	-89	71	-99	-91	45
Saharanpur	-96	191	-92	9	-57
Shahjahanpur	-63	198	-73	-84	80

- **Rainfall Forecast:** Rain/thundershowers at most places over West Uttar Pradesh during next 48 hours and decrease thereafter. Rain/thundershowers at many places over East Uttar Pradesh during next 48 hours and decrease thereafter.
- **Major Kharif Crops: East UP:** Rice, mung, jowar, bajra.
- **West UP:** Rice, groundnut, urd, mung and vegetables
- **Crop Stage:** Rice(tillering), groundnut, urd, mung and vegetables(early vegetative/vegetative)
- **Crop Condition:**
- **East UP:** Satisfactory
- **West UP:** Satisfactory
- **Advisories:**
 - Undertake weeding, intercultural operations and top dressing after current spells of rain.
 - As rain/thundershowers at most places over West Uttar Pradesh and at many places over East Uttar Pradesh during next 48 hours, postpone irrigation to the crops.
 - **Major Seasonal Crop with stage:** Sugarcane (vegetative) and vegetables (vegetative/fruitletting), mango (fruit setting)

- **Crop Condition: Good**
- **Advisory**
 - Undertake weeding, intercultural operations and application of fertilizers in the standing crops like sugarcane, vegetables and mentha after current spells of rain.
 - **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 after current spells of rain.

J & K

- **Realised Rainfall:** : The state received adequate rainfall during last week, except Jammu, Kathua, Ladhak districts, which received deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Jammu & Kashmir					
More than 3 weeks continuously deficient to no rain					
Jammu	18	-68	-65	-95	-46
Kathua	-29	-93	-98	-59	-61
3 weeks continuously deficient to no rain					
Udhampur	-32	19	-64	-89	-25
Distribution of rainfall for remaining districts of the state for last five weeks					
Anantnag	-58	90	-19	-43	146
Doda	-76	-6	19	-17	118
Kupwara	-95	-76	-83	-89	449
Ladakh(Leh)	-100	-100	-100	15	-92
North Baramula	-95	-95	-46	7	39
Pulwama	-50	-64	-64	-84	47
Srinagar	-66	-68	-52	-49	85

- **Rainfall Forecast:** Rain/thundershowers at a few places over the state during next 48 hours and decrease thereafter.
- **Major Kharif Crops:** Rice, maize, vegetables
- **Crop Stage:** tillering (rice); flowering/pod formation (pulses); tasseling (maize)
- **Crop Condition:** Crop condition improved due to recent rainfall.
- **Advisory:** 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.
- Undertake top dressing with 1/3rd dose of N fertilizer to rice crop if crop is at booting stage (before panicle initiation). In early transplanted rice crop remove the off type plants from the crop field in order to maintain the purity.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops on a non rainy day.
- **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.
- In fallow lands, farmers are advised to undertake sowing of crops like toria and gobi sarson may be undertaken during the first fortnight of September.
- Planting of new orchards and gap filling of evergreen plants can also be done during these days.
- **Plant Protection:** Apply phorate 10G @ 10 kg/ha or carbofuron 3G @ 20 kg/ha for control of root weevil and threadworms in rice on a non rainy day.
- Rogue out virus affected plants from vegetable crops.

Rajasthan

- **Realised Rainfall:** Most of the districts received deficient/scanty rainfall during last week except 11 districts, which received excess/normal rainfall during last week.

- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
More than 3 weeks continuously deficient to no rain					
East Rajasthan					
Ajmer	-74	-29	-97	-32	-48
Udaipur	-81	-12	-86	125	-56
West Rajasthan					
Jalore	-100	-100	-100	-37	-95
Nagaur	-95	-51	-61	-61	-58
Pali	-93	-59	-61	-27	-91
3 weeks continuously deficient to no rain					
East Rajasthan					
Bharatpur	-71	125	-73	-51	-41
Jaipur	-89	51	-83	-51	-21
Sikar	-95	-5	-40	-80	-58
Tonk	-94	-6	-100	-30	-48
West Rajasthan					
Churu	-98	**	-47	-53	-91
Distribution of rainfall for remaining districts of the state for last five weeks					
East Rajasthan					
Alwar	-94	98	-38	-23	-19
Banswara	-96	-71	-81	147	120
Baran	-99	128	-89	-5	-22
Bhilwara	-76	-60	-90	7	-67
Bundi	-94	-11	-98	2	-59
Chittorgarh	-65	-40	-71	97	8
Dausa	-91	43	-94	8	35
Dholpur	-76	32	-93	-49	-4
Dungarpur	-82	-79	-83	295	36
Jhalawar	-93	-46	-89	-13	13
Jhunjhunu	-94	43	-52	-77	25
Karauli	-71	134	-100	14	47
Kota	-93	-8	-89	-16	-60
Rajsamand	-76	-31	-92	19	-90
Sawai Madhopur	-76	44	-100	1	-32
Sirohi	-93	-87	-56	5	-29
West Rajasthan					
Barmer	-100	-100	-100	110	-58
Bikaner	-100	-90	-88	49	-65
Hanumangarh	-100	53	47	44	62
Jaisalmer	-100	-100	-91	125	-44
Jodhpur	-100	-93	-97	19	-52
Sri Ganganagar	-100	-67	-48	108	90

- **Rainfall Forecast:** Rain/thundershowers at most places during next 48 hours and decrease thereafter along with heavy to very heavy rainfall at isolated places over East Rajasthan; Isolated rain/thundershowers over west Rajasthan.
- **Major Kharif Crops:**
- **East Rajasthan:** Cowpea, bajra, maize
- **West Rajasthan:** Pearl millet, sorghum, maize, cluster bean, Sesamum, Pigeonpea, Groundnut
- **Crop Stage:** vegetative/tillering
- **Crop Condition:** Satisfactory
- **Advisory:** Postpone irrigation, intercultural operations, application of fertilizers and pesticides in East Rajasthan.
- Carry out thinning and gap filling in timely sown crops after spells of rain.
- Take up hoeing, weeding and top dressing in maize and sorghum with application of urea after spells of rain over East Rajasthan

- **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 after spells of rain over East Rajasthan.
- 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.
- Undertake preparation of seed bed should be done for raising nursery of chilli and brinjal for Rabi season.
- **Plant Protection:**
 - Green gram, moth bean & cowpea crop may be affected with yellow mosaic virus disease. To control this disease spray Dimethoate 30 EC @ 1.0 litre per hectare
 - Spray a solution of Acephate 70 SP @ 1 g or Profenophos @ 3 ml per litre water on calm and clear days to control mealy bug in okra.
 - In clusterbean aphid attack seen in the fields, spray monocrotophos @ 250ml/bigha or daimethoate 30EC @300ml/bigha
 - Undertake plant protection measures on a non rainy day over East Rajasthan.

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

Bihar

- **Realised Rainfall:** Most of the districts of the state received adequate rainfall except few districts like Katihar, Saharsa, which received scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Bihar					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
3 weeks continuously deficient to no rain					
Katihar	-28	129	-31	-70	-63
Sitamarhi	-70	115	-30	-89	-44
Siwan	-22	47	-24	-50	-35
2 weeks continuously deficient to no rain					
Araria	49	62	42	-44	-55
Darbhanga	-32	3	135	-60	-41
Madhubani	-64	66	33	-76	-33
Purnea	87	299	49	-44	-51
Saharsha	64	56	21	-83	-68
Samstipur	1	35	58	-43	-23
Distribution of rainfall for remaining districts of the state for last five weeks					
Aurangabad	-78	418	43	55	354
Begusarai	-65	6	2	-27	96
Bhabua	-78	-93	-75	-100	281
Bhagalpur	-17	422	-87	61	71
Bhojpur	-60	34	-86	-58	149
Buxar	115	122	35	32	103
East Champaran	105	88	-8	-9	-17
Gaya	-69	29	-50	-85	383
Gopalganj	40	-7	31	17	-27
Jhanabad	-86	20	-59	-34	139
Jamui	-4	163	-4	46	141
Khagadia	8	58	50	-51	60
Kishanganj	-99	33	-30	-79	**
Madhepura	-77	-5	36	-68	-11
Monghyar	-40	16	114	57	37
Muzaffarpur	-52	64	1	-18	37
Nalanda	-65	4	-20	-12	50
Patna	81	1	-3	125	21
Rohtas	-32	160	0	86	165

Saran	-71	81	-47	-51	-18
Supaul	-72	43	55	-88	5
Vaishali	34	18	-37	51	-46
West Champaran	58	138	-55	-65	0

- **Rainfall Forecast:** Rain/thundershowers likely at many places in the State.
- **Major Kharif Crops:** Rice, urd, sunflower, maize and pigeon pea
- **Crop Stage:** Rice(booting to panicle initiation), maize(flowering)
- **Crop Condition:** Good
- **Advisory**
 - Those farmers who have not top dressed urea for rice are advised to apply 60kg urea per hectare after current spells of rainfall.
 - As rain/thundershowers at many places in the State, postpone irrigation to the standing crops.
- **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 after current spells of rain,
 - **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
 - gundhi bug insects in rice in upland areas. Dusting of Folidol dust @ 20-25 kg per hectare is advised in the morning hours.
 - Undertake spraying after current spells of rain.

Jharkhand

Realised Rainfall: Most of the districts of the state received sufficient rainfall except few districts like Gumla, Hazaribagh and Lohardagga, which received inadequate rainfall during last week.

- **Rainfall distribution for last 5 weeks**

Jharkhand					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
More than 3 weeks continuously deficient to no rain					
Gumla	-74	-99	-32	-57	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Bokaro	-74	-8	105	104	296
Dhanbad	-71	-15	53	-9	378
East Singbhum	-59	-38	45	-64	190
Giridih	-33	81	5	-4	163
Godda	-100	**	-88	-60	302
Hazaribagh	-97	76	70	73	-73
Koderna	-86	43	-100	**	413
Lohardagga	-77	-87	37	133	-100
Pakur	**	**	**	**	304
Palamau	-79	-49	1	-36	**
Ranchi	-60	-31	42	-2	156
Sahebganj	**	**	**	**	242
Santhal Parganas	-65	3	-20	-1	**
West Singbhum	-9	337	22	-11	212

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State during 48 hours and decrease thereafter.
- **Major Kharif Crops:** Maize, Arhar, Til, Ragi, Vegetables
- **Crop Stage:** Direct sown rice(tillering to panicle initiation), Maize(silking), other kharif crops are at vegetative stage.
- **Crop Condition:** Good

- **Advisory:**
- Prepare the land for sowing of barsati potato. The varieties to be selected are Kufri chandramukhi, Kufri Lalima, Kufri Ashok, Kufri Kanchan, ON-2236 & Ultimius.
- As most of districts of Jharkhand received excess rainfall during last week, postpone irrigation to the crops. In upland areas arrange to drain out excess water in the field by making drainage channels.
- Undertake weeding, intercultural operations and top dressing on a non rainy day.
- **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.
 - Undertake transplanting of brinjal, chilly, tomato utilizing the realized rainfall.

Orissa

- **Realised Rainfall:** The state received sufficient rainfall during last week except few districts, which received scanty rainfall during last week.

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Orissa					
2 weeks continuously deficient to no rain					
Deogarh	**	-45	25	-28	-68
Jharsuguda	**	6	-1	-80	-47
Nawarangpur	**	-77	201	-40	-42
Nayagarh	**	-23	108	-51	-35
Sambalpur	**	1	43	-22	-46
Distribution of rainfall for remaining districts of the state for last five weeks					
Angul	**	-24	108	23	-23
Balasore	**	-58	65	-17	270
Bargarh	**	-94	113	-10	32
Bhadrak	**	-21	129	-46	174
Bolangir	**	16	94	-2	-1
Boudh	**	-45	192	-12	-34
Cuttack	**	-41	162	40	57
Dhenkanal	**	-65	70	-49	15
Gajapati	**	29	64	40	-68
Ganjam	**	-45	106	-12	1
Jagatsingpur	**	-14	52	-50	105
Jajpur	**	-10	134	3	100
Kalahandi	**	-39	99	41	-21
Kandhamal	**	43	39	-16	40
Kendrapara	**	-66	94	-55	240
Keonjhar	**	-55	81	54	60
Khurda	**	-29	83	0	-22
Koraput	**	2	12	-4	-33
Malkangiri	**	-58	-49	91	-56
Mayurbhanj	**	-62	22	-27	114
Nawapara	**	-69	144	6	-86
Puri	**	-17	29	-53	61
Rayagada	**	-30	64	-6	-48
Sonepur	**	-29	30	-35	86
Sundargarh	**	-15	1	-37	5

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State during next 48 hours and decrease thereafter.
- **Major Kharif Crops:** Rice, ragi, arhar, maize, green gram, blackgram
- **Crop Stage:** Rice(tillering), Pigeonpea, groundnut and cotton(early vegetative/vegetative), early sown maize(knee-high)
- **Crop Condition:** Good
- **Advisory:** Apply top dressing of nitrogen in rice after current spells of rain.

- Postpone irrigation to the standing crops as there was sufficient rainfall in most of the districts during last week.
- Undertake sowing of castor in the fallow uplands. Grow High Yielding varieties suitable for Orissa climate such as Aruna, Jyoti, Kranti, SA-1, and GC-2.
- Continue sowing of niger. Grow High Yielding varieties suitable for Orissa climate such as Deomali and IGP-76.
- **Major Seasonal Crop with stage:** Sugarcane (early vegetative), vegetables (fruiting / harvesting), onion (vegetative), jute (vegetative),
- **Crop Condition: Good**
- **Advisory:** Undertake weeding, intercultural operations and application of fertilizers after current spells of rain.
- 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 for stem borer, leaf folder, case worm and diseases like BLB in rice and pod borer and red and black hairy caterpillar in pulses and groundnut etc. Undertake spraying on a non rainy day.

West Bengal

- **Realised Rainfall:** Gangetic West Bengal received excess rainfall, Sub Himalayan west Bengal received deficient rainfall and few districts like Jalpaiguri, Dinajpur, received scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
West Bengal					
3 weeks continuously deficient to no rain					
SHWB					
Dinajpur (S)	55	203	-35	-56	-99
2 weeks continuously deficient to no rain					
SHWB					
Coochbehar	-32	174	28	-89	-49
Jalpaiguri	10	116	1	-57	-71
Dinajpur (N)	97	336	2	-34	-78
Distribution of rainfall for remaining districts of the state for last five weeks					
GWB					
Bankura	-24	62	-24	-60	318
Birbhum	-36	-4	23	-40	187
Burdwan	-17	28	23	-57	168
Hooghly	49	31	-25	-54	193
Howrah	-38	2	-29	-70	302
Midnapore	-28	-34	42	-60	172
Murshidabad	155	18	-24	85	347
Nadia	120	-4	10	-58	494
24 Pargana (N)	200	6	25	-6	230
Purulia	-24	-6	36	-26	217
24 Pargana (S)	7	-37	13	-23	204
SHWB					
Darjeeling	-35	93	70	-10	-26
Malda	-3	216	-84	-16	43

- **Rainfall Forecast:** Rain/thundershowers is likely at many places.
- **Major Kharif Crops:** Rice, vegetables
- **Crop Stage:** tillering (rice), flowering (pulse crops), aman rice (panicle initiation).
- **Crop Condition: Good**
- **Advisory:** As rain/thundershowers are likely at many places over the State, postpone irrigation and intercultural operations. Due to rain in the previous week and chances of rains in the next week, proper drainage should be made to avoid water logging in maize and all pulse crops.
 - Undertake intercultural operations after current spells of rain to keep the fields free from weeds.
 - Undertake top dressing of urea @ 6 kg/bigha to aman paddy after current spells of rain.
 - 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, raddish, 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.
 - Raise nursery for tomato in South 24 Pragnas.
- **Plant protection:**
 - Due to humid weather conditions, there may be increase in population of insect pests of cotton. Farmers are advised to install pest specific pheromone traps in the fields. When the pest population is large spraying of Malathion @ 2 ml. per litre of water is advised when sky is clear.
 - Present weather conditions are highly favourable for infection of blast disease in rice. Monitoring at 2-3 days interval is advised. Early symptoms include development of eye shaped spot on the leaf and leaf sheath with light centre and dark boundaries. At a later stage these spots coalesce to form big spots. If the infection level is high spraying of Carbandizim @ 0.1 gm per litre of water on a clear day is advised.
 - In soybean, there may be attack of yellow mosaic. Spraying of 0.1% Imidacloprid at 10 days interval is advised when sky is clear to control white flies, the vector of the viral disease.
 - Colletotrichum in betelvine. Apply recommended chemicals.
 - Spray chemicals after current spells of rain.

Sikkim

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

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Sikkim	-53	47	18	-40	-24

- **Rainfall Forecast:** Rain/thundershowers at many places.
- **Major Seasonal Crop with stage: Kharif Vegetables:** flowering/fruiting/harvesting; **Large Cardamom:** Secondary Flowering/Primary Capsule Formation/Capsule formation & maturity; **Rice:** tillering **Ginger:** Vegetative.
- **Crop Condition: Good**
- **Advisory:** Application of fertilizers, pesticides and intercultural operations may be undertaken after spells of rain. Deshooting/debugging of newly planted to 1 – 4 years old trees, upto a basal height of 40 – 50 cm should be done on monthly basis.
 - Nursery beds of large cardamom suckers may be mulched properly with dried forest leaves in order to prevent soil erosion and weed growth.
 - 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.
 - Top dressing of ginger with organic manures and mulching to be done after current spells of rain and on monthly basis. Proper drainage to be maintained and weeding to be done after spells of rain.
 - Diseased/pest infested suckers may be removed and destroyed.
 - Chirke and Foorkey infected cardamom plants may be destroyed by uprooting and buried in the pits at regular intervals.

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

Assam

- **Realised Rainfall:** The state received deficient/scanty rainfall during last week except few districts like Barpetha, Bongaigaon, East Khasi Hills districts received adequate rainfall.

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

Assam					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
More than 3 weeks continuously deficient to no rain					
Golghat	-64	-28	-41	-40	-68
3 weeks continuously deficient to no rain					
Cachar	32	33	-53	-44	-74
Darrang	-60	17	-66	-93	-63
Goalpara	-62	385	-70	-74	-89
Jorhat	-56	55	-36	-80	-84
Karimganj	84	62	-60	-32	-87
Sonitpur	-70	140	-49	-92	-59
2 weeks continuously deficient to no rain					
Dhubri	-63	205	-12	-90	-84
Dibrugarh	71	8	-9	-28	-81
East Garo Hills	-80	921	78	-79	-88
East Khasi Hills	-10	444	49	-38	-21
Kokrajhar	8	688	27	-69	-61
Lakhimpur	31	114	60	-22	-68
Sibsagar	-36	62	-7	-46	-74
Distribution of rainfall for remaining districts of the state for last five weeks					
Barpeta	-9	625	55	61	-15
Bongaigaon	-34	455	-17	-12	-16
Hailakandi	-40	-62	-33	6	-70
Kamrup	-45	47	-15	-16	-84
Karbi Analog	-29	148	-86	66	-100
Morigaon	7	42	-73	-15	-84
Nalbari	7	91	-15	2	-93
Nowgong	-63	-72	-90	42	-94
Tinsukia	16	115	6	13	-83

- **Rainfall Forecast:** Rain/thundershowers at many places 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.
- **Major Seasonal Crop with stage:** Vegetables (vegetative / flowering / fruiting / harvesting), early *ahu* rice (tillering / panicle initiation), *Capsularis* jute (harvesting), *Oltorius* jute (harvesting), maize (vegetative) and sugarcane (vegetative),
- **Crop Condition:** Good
- **Advisory:**
- Postpone irrigation to the crops as rain/thundershowers at many places over the State.
- **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 deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

Arunachal Pradesh					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
3 weeks continuously deficient to no rain					

Changlang	-90	9	-75	-93	-93
Lower Subansiri	40	-6	-59	-79	-51
2 weeks continuously deficient to no rain					
East Kameng	-14	-6	0	-54	-86
East Slang	-38	109	75	-72	-98
Papumpara	-9	271	220	-23	-85
Tirap	28	133	36	-26	-94
Upper Subansiri	15	250	43	-86	-93
West Kameng	-63	328	508	-23	-68
Distribution of rainfall for remaining districts of the state for last five weeks					
Lohit	124	135	4	-11	-91
Tawang	16	-33	-63	-23	-16

- **Rainfall Forecast:** Rain/thundershowers at many places 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
- **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, Rayalaseema and few districts of the Telangana received deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Andhra Pradesh					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
3 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
Prakasam	-80	111	-28	-87	-69
2 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
Guntur	-85	184	147	-86	-74
Krishna	-83	14	118	-47	-48
Nellore	-66	202	-11	-83	-78
Telangana					
Hyderabad	-78	96	181	-45	-50
Karimnagar	-72	-79	39	-55	-21
Nalgonda	-96	6	100	-68	-44
Rangareddy	-87	36	384	-54	-22
Rayalaseema					
Anantapur	-81	35	325	-84	-63
Chittoor	-89	419	43	-93	-83
Cuddapah	-86	263	140	-92	-89
Distribution of rainfall for remaining districts of the state for last five weeks					
Coastal Andhra Pradesh					
East Godavari	-69	-48	-16	-15	-33
Sirkakulam	-54	-18	1	42	-68
Visakhapatnam	-79	-30	-62	-19	-22
Vizianagram	94	39	19	54	-62
West Godavari	-51	-63	-21	9	27

Telangana					
Adilabad	-60	-82	63	-66	-16
Khammam	-75	-57	24	-8	46
Mehabubnagar	-86	-37	78	-57	-6
Medak	-70	-63	115	-56	29
Nizamabad	-80	-76	79	-51	8
Warangal	-98	-67	62	-41	15
Rayalaseema					
Kurnool	-72	11	38	-81	1

- **Rainfall Forecast:** Rain/thundershower 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), vegetative (red gram), pegging (groundnut), vegetative (cotton).
- **Crop Condition:** Satisfactory.
- **Advisory:** Undertake intercultural operations and application of gypsum in groundnut.
- 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.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - late leaf spot in groundnut crop (more than 60 days). As a prophylactic spray, use 2 gm of Mancozeb with 1 gm of carbendizim or Hexaconazole @ 2ml/litre of water. 2nd same spray may be repeated after 20days of 1st spray..
 - thrips and mites in green chilles; spray Acephate @ 1.5 g or Fipronil @ 2ml per litre of water and to control the mites, spray phosalone @ 2ml per litre of water.
 - YVMV and sucking pests in bhendi. To control the white fly which is the vector of YVMV, spray Dimethoate @ 2 ml or Acephate @ 1.5 g per litre of water. Spray Fipronil or Dimethoate @ 2ml per litre of water to control the sucking pests
 - blast, leaf folder in paddy crop, to control blast spray tricyclozole @ 6.0 g/10 litres of water and 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.

Karnataka

Realized- Rainfall: The state received normal/excess rainfall except few districts like Gadag, Koppal, Bangalore, Kolar, Mandya and Tumkur, which received deficient/scanty rainfall during last week.

- **Rainfall distribution for last 5 weeks**

Karnataka					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
2 weeks continuously deficient to no rain					
South Interior Karnataka					
Bangalore Rural	-4	25	72	-68	-49
Kolar	-80	192	177	-53	-72
Distribution of rainfall for remaining districts of the state for last five weeks					
Coastal Karnataka					
Dakshin Kannada	-51	-46	18	86	190
Udupi	-57	-66	31	142	193
Uttar Kannada	-77	-75	2	87	183
North Interior Karnataka					
Bagalkote	-98	231	291	-38	6
Belgaum	-62	35	149	**	118
Bidar	-69	-23	172	-25	107

Bijapur	-94	142	524	126	51
Dharwad	-89	-39	54	2	44
Gadag	-87	325	208	35	-74
Gulbarga	-81	-29	252	161	101
Haveri	-72	28	166	-5	276
Koppal	-97	140	539	8	-38
Raichur	-48	30	215	159	17
South Interior Karnataka					
Bangalore Urban	-33	202	-43	-10	43
Bellary	-70	229	83	173	-4
Chamarajnanagar	-81	514	60	-53	55
Chickmagalur	-74	-12	53	48	327
Chitradurga	-24	374	458	24	40
Davangere	-7	332	246	110	114
Hassan	-92	14	58	20	76
Kodagu	-43	-42	-1	33	440
Mandya	-97	794	186	-16	-89
Mysore	-54	420	156	-37	222
Shimoga	-45	-41	43	104	515
Tumkur	-57	92	311	23	-72

- **Rainfall Forecast:** Rain/thundershower at a few places over coastal Karnataka and at isolated 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:** 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.
- **Major Seasonal Crop:** Sugarcane and vegetables
- Undertake intercultural operations in sugarcane and early sown crops over coastal 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 on a non rainy day over coastal Karnataka.

Kerala

Realised Rainfall: The state received normal/excess rainfall during last week.

- Rainfall distribution for last 5 weeks**

Kerala					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Distribution of rainfall for districts of the state for last five weeks					
Alappuzha,	-86	-39	-61	10	-12
Kannur	-40	-85	-26	20	108
Ernakulam	-75	-41	**	82	52
Idukki	-42	-46	-37	10	270
Kasaragod	-55	-49	25	-16	33
Kollam	-67	-30	-11	8	113
Kottayam	-71	-59	-10	11	4
0Kozhikode	-60	-88	-16	116	130
Malappuram	-59	-91	44	125	156
Palakkad	-77	-56	69	75	231
Pathanamthitta	-56	-36	-26	-76	61
Thiruvananthapuram	-95	-79	39	79	167
Thrissur	-74	-28	46	107	101
Wyanad	-82	-70	-49	-85	83

- Rainfall Forecast:** Rain/thundershowers at a few places
- Major Kharif Crops:** Rice
- Crop Stage:** panicle initiation/flowering.
- Crop Condition:** Good.
- Advisory:** Postpone irrigation to the crops as there was sufficient rainfall received during last week.
- Intercultural operations, application of fertilizers and pesticides may be continued on a non rainy day.
- Major Seasonal Crop:** Vegetables and plantation crops (coconut, arecanut, pepper and cashew).
- Intercultural operations, application of fertilizers and pesticides may be continued on a non rainy day.
- Farmers are advised to undertake sowing of *mundakan* rice in the nursery.
- 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
 - High humidity, rains and temperature conditions are highly favourable for the fast spread of the Sigatoka leaf spot disease in banana. Cut and destroy the severely affected leaves and spray Bordeaux mixture (1%)
 - Remove and destroy the bacterial wilt affected chilli plants.
 - Undertake spraying of chemicals on a non rainy day.

Tamilnadu

- Realised Rainfall:** The state received deficient/scanty rainfall except few districts like Coimbatore, Kanyakumari, Nilgiris, Theni and Tirunelveli, which received excess/ normal during last week.

- Rainfall distribution for last 5 weeks**

Tamil Nadu					
State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
3 weeks continuously deficient to no rain					
Cuddalore	-96	169	-73	-63	-68
Dindigul	-83	453	-34	-80	-94
Karur	-24	305	-75	-100	-100
Krishnagiri	-86	331	-60	-35	-75
Madurai	-59	260	-42	-97	-100
Nagapattinam	-33	153	-76	-57	-83
Perambalur	-97	261	-96	-100	-83
Pudukottai	-98	**	-98	-81	-87

Ramanathapuram	-91	375	-54	-89	-100
Sivaganga	9	355	-81	-43	-100
Thanjavur	-65	292	-31	-87	-96
Trichy	-100	532	-53	-100	-100
Tuticorin	-100	241	-47	-100	-100
Villupuram	-89	195	-76	-61	-94
Virudhunagar	-89	29	-73	-100	-100
2 weeks continuously deficient to no rain					
Dharmapuri	-100	381	-2	-72	-78
Erode	-93	435	-13	-24	-94
Namakkal	-80	273	9	-66	-49
Tiruvarur	5	200	61	-100	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Chennai	-29	4	-85	-2	-84
Coimbatore	24	328	251	277	1164
Kanchipuram	-90	34	-89	114	-73
Kanyakumari	-95	-83	342	2	234
Nilgiris	-57	23	33	-15	249
Perambalur	-97	261	-96	-100	-83
Pondicherry	-61	137	-39	8	-99
Salem	-93	377	42	-51	-13
Theni	-66	283	-43	-51	112
Tirunelveli	-97	238	212	-38	208
Tiruvallur	-67	144	-29	-1	-74
Tiruvannamalai	-96	99	-100	-6	-100
Vellore	-100	203	-73	50	-87

- **Rainfall Forecast:** Rain/thundershowers at isolated places.
- **Major Kharif Crops:** Groundnut, pulses and rice
- **Crop Stage:** flowering/grain formation (*kuruvai* rice)
- **Crop Condition:** Good
- **Advisory:**
 - Farmers are advised to 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
 - Farmers are advised to undertake land preparation for early sowing of maize without removing crop residues from the fields
 - Intercultural operations, application of fertilizers may be continued in vegetables and sugarcane
 - Undertake picking of cotton in Thirunelveli, Tuticorin and Virudhunagar districts.
 - 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 nursery, thrips may attack in nursery. Both nymphs and adults suck the sap from leaves. In severe infested area, leaves curl and appear like needles and plants become lanky, sickly appearance resulting in poor crop growth. For control for thrips, spray Chlorpyrifos 20 EC @ 3 ml/litre (or) Monocrotophos 36 WSC @ 2 ml/litre
 - Decrease in temperature, high cloud cover and humidity forecasted for the coming days are conducive for the incidence of cigatago leaf spot in banana. If incidence is noticed, spray carbendazim @ 1 g / l on a non rainy day.
 - Apply Trichoderma and Psudomanos along with FYM for the coconut trees and for the garden and dry land crops prepare enriched FYM with these bio controls on a non rainy day.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

Maharashtra

- **Realised Rainfall:** Maharashtra received normal/excess rainfall except few districts of Vidharbha like Chandrapur, Gadchiroli, Gondia and Wardha district, which received deficient/scanty rainfall during last week.
- **Rainfall distribution for last five weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Rainfall distribution for the State for last 5 weeks					
Maharashtra					
Konkan & Goa					
Goa	-88	-48	-9	139	199
Mumbai	-92	-91	93	-5	190
Raigad	-86	-85	-26	-10	67
Ratnagiri	-84	-72	2	42	194
Sindhudurg	-80	-17	-19	36	207
Thane	-85	-85	-52	-36	22
Madhya Maharashtra					
Ahmednagar	-99	3	404	-36	104
Dhule	-82	-99	189	2	401
Jalgaon	-93	-93	106	-20	198
Kolhapur	-72	-53	46	59	223
Nandurbar	-64	-99	-27	55	147
Nasik	-61	-72	225	32	138
Pune	-91	-75	207	-47	24
Sangli	-77	-32	270	-25	4
Satara	-65	-36	224	0	40
Solapur	-99	-39	479	28	53
Marathwada					
Aurangabad	-90	-88	163	-6	266
Beed	-96	-69	261	-12	193
Jalna	-88	-93	253	13	79
Latur	-81	-90	137	-24	42
Nanded	-81	-91	73	-34	0
Usmanabad	-100	-34	272	-51	152
Parbhani	-85	-47	159	15	0
Vidarbha					
Akola	-70	-99	239	11	47
Amraoti	-93	-97	89	-13	10
Bhandara	-68	-50	-25	16	-7
Buldhana	-78	-99	207	27	13
Chandrapur	-68	-80	11	-1	-59
Gadchiroli	-41	-43	3	20	-48
Gondia	-70	-42	-8	15	-58
Nagpur	-63	-85	31	63	-8
Wardha	-87	-70	90	54	-58
Washim	-96	-98	123	-31	20
Yeotmal	-79	-84	72	-41	23

- **Rainfall Forecast:** Rain/thundershowers at a few places over Konkan & Goa, Madhya Maharashtra and isolated rain/thundershowers over the rest region.
- **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 in other divisions), jowar (vegetative growth), kharif cotton(vegetative), bajra(flowering/grain formation), groundnut (flowering/pegging), soyabean (flowering/ pod formation), irrigated cotton(floral bud formation/flowering) and green gram & black gram (pod maturity) and red gram (primary branching).

- **Crop Condition:** Good
- **Advisory:** Postpone irrigation to the crops as most of the districts of the State received significant rain during last week.
 - Apply second dose of nitrogenous fertilizers to *kharif* rice on a non rainy day in Konkan and Madhya Maharashtra.
 - **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 after current spells of rain.
 - **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 on a non rainy day.

Gujarat

- **Realised Rainfall:** Most of the districts of Saurashtra and many districts of Gujarat region received deficient/scanty rainfall during last week.
- **Rainfall distribution for last five weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Rainfall distribution for the State for last 5 weeks					
Gujarat Region					
Ahmedabad	**	-99	-99	124	-92
Anand	**	-94	-78	73	-81
Banaskantha	**	-99	-100	71	-97
Baroda	**	-96	-96	65	-30
Broach	**	-97	-67	37	-15
Dahod	**	-86	-70	22	13
Dangs,	**	-86	-59	-6	100
DNH & Daman	**	-93	32	-21	58
Gandhinagar	**	-96	-99	111	-100
Kheda	**	-72	-95	118	-94
Mehsana	**	-97	-100	172	-92
Narmada	**	-99	-59	69	115
Navsari	**	-83	-68	11	117
Panchmahal	**	-87	-91	87	-33
Patan	**	-100	-100	225	-100
Sabarkantha	**	-98	-94	221	-47
Surat	**	-92	-14	103	139
Valsad	**	-95	-19	-3	129
Saurashtra, Kutch & Diu region					
Amreli	**	-100	-100	227	-87
Bhavnagar	**	-91	-99	26	-20
Diu	**	**	-100	**	**
Jamnagar	**	-84	-99	354	-84
Junagarh	**	-94	-100	104	-60
Kutch	**	-90	-95	391	-100
Porbandara	**	-92	-100	358	-69
Rajkot	**	-88	-100	169	-98
Surendranagar	**	-95	-100	112	-100

- **Rainfall Forecast:** Rain/thundershowers at a few places over Gujarat region. Isolated rain/thundershowers over the Saurashtra & Kutch region.
- **Major Kharif Crops:** Rice, castor, pigeon pea, cotton, groundnut, bajra, sesamum, cluster bean, pulses
- **Crop Stage:** Rice(tillering), groundnut(flowering/pegging), maize, bajra, (vegetative/flowering), cotton(vegetative)

- **Crop Condition:** Crop condition is satisfactory
- **Advisory:**
- As most of the districts of Saurashtra and many districts of Gujarat region received deficient/scanty 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 on a non rainy day in Gujarat region.
 - 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.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - seedling rot in vegetable nursery, drench nursery with Bordeaux mixture@ 0.6% or Ridomil MZ@0.05% .
 - collar rot and root rot diseases are observed in cotton and groundnut. Spray carbendazim @10 gm + mencozeb @ 20 gm in 10 liters of water
 - Spray fungicides on a non rainy day in Gujarat region.

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Realised Rainfall:** Most of the districts of both the sub divisions received normal/excess rainfall during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
3 weeks continuously deficient to no rain					
East Madhya Pradesh					
Rewa	-61	-7	-92	-32	-41
Distribution of rainfall for remaining districts of the state for last five weeks					
East Madhya Pradesh					
Balaghat	-48	-56	0	30	-57
Chhatarpur	-89	43	-96	-18	-1
Chindwara	-96	-84	-11	80	165
Damoh	-39	-72	-80	-16	42
Dindori	-78	-38	-57	10	74
Jabalpur	13	-73	-69	42	205
Katni	-76	-21	-84	-51	55
Mandla	-63	-41	-62	104	40
Narsingpur	-22	-55	-79	92	272
Panna	-92	173	-96	-10	-54
Sagar	25	-40	-77	40	54
Satna	-96	92	-90	-54	67
Seoni	-49	-55	-34	17	-26
Shahdol	-77	-68	-39	-61	157
Sidhi	-99	-26	-40	-39	40
Tikamgarh	-83	50	-96	36	17
Umaria	-88	-73	2	-57	191
West Madhya Pradesh					
Badwani	-86	-100	1	14	185
Betul	-98	-87	35	22	18
Bhind	-75	58	-91	19	-33
Bhopal	-63	-85	-98	22	15
Datia	-86	39	-25	8	58
Dewas	-65	-74	-56	49	-71
Dhar	-80	-82	8	-13	114
Guna	-20	-9	-74	11	-35

Gwalior	-91	-25	-90	-8	19
Harda	-100	-81	-59	30	-66
Hosangabad	-88	22	-44	44	66
Indore	-96	-75	-75	43	157
Jhabua	-94	-81	-75	23	107
Khandwa	-96	-92	-33	-42	1
Khargone	-94	-82	-25	-38	122
Mandsaur	-54	-54	-89	49	84
Morena	-87	162	-71	-33	34
Neemuch	-91	12	-89	75	121
Raisen	-56	-55	-69	78	29
Rajgarh	-92	-65	-89	-1	-56
Ratlam	-68	-24	-57	57	50
Sehore	-88	-44	-71	30	-43
Shajapur	-67	-57	-83	40	-10
Sheopur Kalani	-55	21	-100	-44	-14
Shivpuri	-48	53	-33	55	-1
Ujjain	-75	-63	-71	54	95
Vidisha	-41	-5	-67	55	-30

- **Rainfall Forecast:** Rain/thundershowers at many places along with isolated heavy rain during next 48 hours
- **Major Kharif Crops:** Rice, jowar, sunflower, maize, jowar and soybean
- **Crop Stage:** vegetative/tillering/flowering.
- **Crop Condition:** Satisfactory. Due to deficient/scanty rainfall conditions, crops like soybean and rice show moisture stress symptoms. As good amount of rainfall is expected, there are chances of improvement in the crop situation.
- **Advisory:** Farmers are advised to spray urea solution @ 1-2 % after spells of rain for proper growth of crops.
- Undertake weeding and intercultural operations in soybean, paddy, maize, moong, urd and other kharif crops after spells of rain.
- Also undertake top dressing of urea in maize, jowar, paddy and other kharif crops with recommended dose after spells of rain.
- **Major Seasonal Crop with stage:** Sugarcane (cane development), cotton (boll development/ maturity) and vegetable crops (vegetative)
- **Crop Condition:** Good
- **Advisory:** 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 after spells of rain 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.
 - 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 Galgotu, Langadi and Anthrex in Sagar, Bhopal, Vidisha, Damoh, Raisen, Sehore.

Chattisgarh

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

State/Districts	12.08.09	19.08.09	26.08.09	02.09.09	09.09.09
Chattisgarh					
More than 3 weeks continuously deficient to no rain					
Dhamtari	23	-96	-38	-33	-97
Surguja	-57	-49	-63	-43	-37
2 weeks continuously deficient to no rain					
Bilaspur	24	-12	48	-67	-49
Durg	-26	-53	34	-22	-77
Mahasumund	14	-74	-7	-37	-81
Raigarh	-55	-56	-11	-36	-31
Raipur	-4	-51	51	-37	-64
Rajandgaon	-43	-68	-16	-43	-50
Distribution of rainfall for remaining districts of the state for last five weeks					
Bastar	-47	-65	93	17	-66
Dantewara	-69	-80	-60	24	-45
Janjgir	-42	-72	53	20	-21
Jashpurnagar	-9	-16	18	-8	-49
Kanker	-41	-30	-12	5	-33
Korba	-21	-63	-6	-11	-65
Koriya	-63	75	-41	-32	-6
Kowardna	42	-69	23	20	-89

- **Rainfall Forecast:** Rain/thundershowers at a few places over the state.
- **Major Kharif Crops:** Rice, soybean, maize, sesamum, tur.
- **Crop Stage:** vegetative/tillering/tasseling
- **Crop Condition:** Good
- **Advisory:** Where maize is at tasseling stage farmers are advised to apply top dressing last dose of nitrogen.
- Farmers are advised for spraying of Zinc Sulphate whenever crop will suffer from zinc deficiency.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops on a non rainy day.
- **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
- Conditions are favourable for planting of fruit crops. Therefore planting can be done in pre-prepared pits during this week.
- Present weather conditions are suitable for the nursery sowing of vegetables like brinjal, tomato, chilli etc. Looking to the good rainfall nursery should be shown in shaded condition.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops on a non rainy day.
- **Plant protection:** Under present hot and humid weather condition blast and sheath blight in rice may occur. Hence farmers are advised to keep watch over the crop and if the incidence is more spraying of Tricyclozole (Beam, Ban or Sevic) 6 g/10 litre of water or Saaf @ 1 ml/litre of water is advised.
- Under present weather condition the incidence of swarming caterpillar/armyworm and stem borer is likely to occur in rice crop adjacent to forest area. Hence, farmers are advised to keep watch over the crop and if necessary dusting of Propanophos 50 EC @ 1.5 ml per liters of water is advised.
- Attack of rice blast disease is observed. For its control, Bavistin should be used @ 0.6 gms./ litre water or beam can also be used @ 1 gm./litre water.
- Attack of stem borer is observed. For its control, Carobofuran 3 G should be used @ 2-3 grains/ plant or this can be also applied at the time of earthing up @ 10 Kg./ acre.
- Due to increase in humidity vegetable crop may suffer from powdery mildew. To protect the crop sulphur base fungicides are recommended.
- Undertake plant protection measures on a non rainy day.