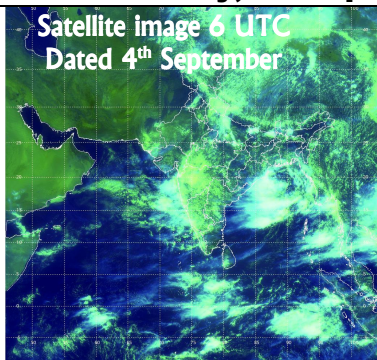


National Agromet Advisory Bulletin

Thursday, 3rd September, 2009 (For the period 3rd to 7th September, 2009)



Satellite image 6 UTC
Dated 4th September



Forecast valid upto 1430 hours IST of 6th September, 2009

- **Most Places:** Konkan & Goa and Madhya Maharashtra
- **Many Places:** Andhra Pradesh, Kerala, Karnataka, Jammu & Kashmir, Madhya Pradesh, Uttar Pradesh, West Bengal, Coastal Orissa, Gujarat region, Uttarakhand, Punjab, Himachal Pradesh, Marathwada
- **Few Places:** Remaining states except West Rajasthan, where it may be at isolated places.

Rainfall and Agriculture

In general rainfall condition in the in Peninsular and Central India is quite satisfactory for agricultural operations. In eastern, north eastern northern (except Uttar Pradesh, Uttarakhand) most of the States also received comparatively good amount of rainfall. Besides under the present weather condition a number of States like Andhra Pradesh, Kerala, Karnataka, Jammu & Kashmir, Sikkim, Rajasthan, Madhya Pradesh, Chhattisgarh, Uttar Pradesh, Bihar, Jharkhand, West Bengal, Orissa, Gujarat region, Uttarakhand, Punjab, Himachal Pradesh are likely to receive good amount of rainfall. Thus overall prospect of agriculture in respect of standing for the next week for the country as a whole is expected to be satisfactory.

Salient Agromet Advisories for Farmers

Andhra Pradesh: Undertake weeding and intercultural operations after current spells of rain. As the rainfall was adequate, crops recover from moisture stress. Complete sowing of cowpea, horse gram, pearl millet, sorghum and green gram in areas where sowing was not undertaken due to poor rainfall.

Assam: Apply top dressing in early sown *sali* rice which is at tillering stage. High yielding varieties of green gram such as T-44, K-801 etc. and black gram (T-9, T-27 etc.) may be sown wherever sowing was not taken up.

Arunachal Pradesh: Maintain 3-5 cm standing water in rice field.

Karnataka: Undertake weeding and intercultural operations after current spells of rain. Farmers were advised to complete sowing of cowpea varieties TVX-944, KBC-1 & 2 and Horsegram varieties KBH-1 & PHG-9 wherever sowing was not taken up.

Madhya Pradesh: Undertake weeding and intercultural operations after current spells of rain. Farmers are advised to spray urea solution @ 1-2 % after current spells of rain for proper growth of *kharif* crops.

Maharashtra : As rainfall is likely at most places over Konkan, Madhya Maharashtra, at many places over Marathwada & at a few places over Vidarbha during next 48 hours and increase thereafter with heavy rainfall in Madhya Maharashtra and Marathwada, postpone irrigation to the standing crops and weeding, intercultural operations and top dressing of fertilizers to the standing crops may be carried out after current spells of rain. Drain out excess water from the crop field,

Uttar Pradesh: Undertake weeding, intercultural operations and application of fertilizers in the standing crops like ground nut, urd, mung, sugarcane, vegetables and mentha after current spells of rain.

Rajasthan: Undertake weeding and intercultural operations on a non rainy day. In areas received late rainfall, take up sowing of fodder crops viz., MP Chari. Sow short duration variety of sesame RT 46, T9, cluster bean RGC 936.

Punjab: Undertake weeding and intercultural operations after spells of rain. 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 late season varieties of cauliflower i.e. Snow-Ball-16, Pusa Snow ball 1 & Pusa Snow ball K-1.

Haryana: Undertake weeding and intercultural operations on a non rainy day. Undertake weeding and intercultural operations on a non rainy after spells of rain. Farmers are advised to start sowing of toria crop.

New Delhi: Undertake weeding and intercultural operations on a non rainy day. Sowing of black gram is advised in those areas where rice crop has failed due to drought like situation.

Himachal Pradesh: Prepare the field for sowing of early peas, leafy vegetables and raddish as the weather is favourable for early sowing.

Nagaland Manipur Mizoram Tripura: In those areas where rice could not be sown, short duration *kharif* pulses like black gram (var:T-9) can be sown

Sikkim: Water level of 3-5 cm should be maintained in rice field.

Tamil Nadu: Farmers are advised to undertake land preparation for early sowing of maize without removing crop residues from the fields

Uttarakhand: Farmers are advised to start 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.

West Bengal: Undertake top dressing of urea @ 6 kg/bigha to aman paddy after current spells of rain.

Orissa: Apply top dressing of nitrogen in rice after current spells of rain. Complete sowing of castor in the left out areas.

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

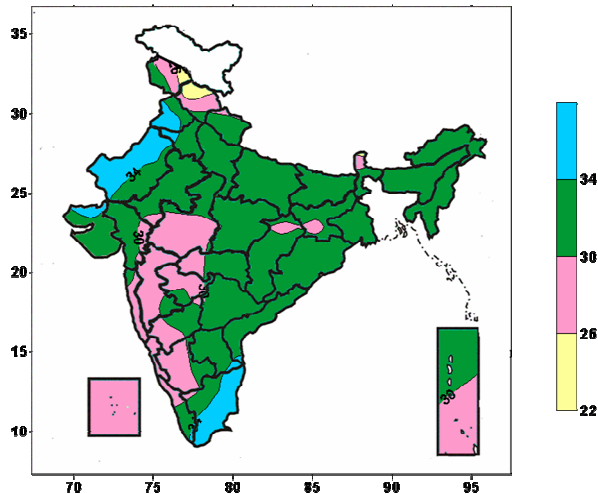
Sub-division	Cumulative Rainfall for the period									
	5 th August		12 th August		19 th August		26 th August		3 rd September	
	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.	Normal (mm)	% Dep.
A & N Islands	87.7	29	107	-65	95.0	-92	87	84	94.7	12
Arunachal Pradesh	99.2	-1	76	-8	95.3	85	92.4	31	79.5	-57
Assam and Meghalaya	107.3	0	91	-32	95.1	123	114.1	-33	77.8	-41
NMMT	71.3	10	71	27	75.2	-32	70.6	43	61.5	-9
SH West Bengal & Sikkim	121.6	-16	108	-16	98.6	126	116.5	10	91.6	-48
Gangetic West Bengal	79.6	19	68	12	70.0	-4	64.5	14	73.0	-37
Orissa	91.4	-77	84	-44	89.0	-33	68.8	67	70.3	-7
Jharkhand	81.3	-64	77	-63	72.2	34	67.5	12	63.5	-8
Bihar	73.1	-1	65	-18	62.0	92	77.2	-1	54.0	-25
East Uttar Pradesh	69.0	-78	74	-67	72.3	58	65.2	-66	57.4	-48
West Uttar Pradesh	63.2	-84	73	-86	73.7	89	56.6	-91	51.5	-42
Uttarakhand	107.6	-78	105	-38	106.3	17	86.8	-74	72.3	-52
Haryana, Chandigarh & Delhi	39.7	-80	42	-92	42.7	-44	35	-78	27.3	-10
Punjab	46.7	-14	46	-74	41.7	-49	30.5	-79	26.2	85
Himachal Pradesh	70.4	-81	69	-40	62.7	-36	52.2	-92	40.8	31
J & K	53.4	-57	48	-37	36.4	-26	28.9	-52	29.2	-60
West Rajasthan	19.4	-99	23	-99	22.5	-70	21.8	-74	17.2	22
East Rajasthan	52.3	-99	55	-85	56.6	8	53.2	-82	45.1	24
West M. P.	77.7	-99	75	-72	73.5	-31	62.4	-57	64.9	24
East M. P.	93.4	-99	95	-62	94.2	-24	73.6	-57	67.5	14
Gujarat region	77.9	-98	74	-94	66.5	-93	51.7	-74	62.7	88
Saurashtra & Kutch	34.2	-99	40	-97	31.2	-91	17.7	-98	29.0	262
Konkan and Goa	218.7	-85	183	-85	169.2	-70	132.8	-21	113.2	12
Madhya Maharashtra	52.3	-90	44	-81	41.2	-61	30.7	220	34.0	-0
Marathwada	47.8	-99	40	-88	43.8	-75	47.2	176	47.1	-15
Vidarbha	78.2	-99	72	-69	66.6	-72	60.8	52	59.2	10
Chhattisgarh	96.9	-95	94	-35	92.9	-51	78.6	11	68.6	-14
Coastal A. P.	33.5	-67	34	-59	34.8	41	35.4	17	36.1	49
Telangana	57.0	-99	49	-79	53.6	-54	46	82	45.2	79
Rayalseema	21.1	-67	22	-81	19.8	161	23.5	129	25.1	88
TamilNadu & Pondicherry	14.6	68	18	-76	18.6	218	23.2	-37	25.2	-39
Coastal Karnataka	230.2	-27	205	-66	189.6	-65	146.9	14	87.7	100
N. I. Karnataka	29.3	-80	24	-77	26.4	37	24.9	269	25.7	97
S. I. Karnataka	45.6	-3	40	-58	40.2	67	32.7	101	25.6	34
Kerala	117.7	-22	115	-62	111.7	-58	93.4	-2	58.5	30
Lakshadweep	45.3	-74	53	-73	49.8	-12	49.5	101	38.2	51

The subdivisions like Jammu & Kashmir received scanty / deficient rain in all the 5 weeks; Himachal Pradesh, Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Rajasthan, Madhya Pradesh, Gujarat region, Saurashtra & Kutch, Konkan and Goa, received scanty / deficient rain in 4 out of last 5 weeks; Assam & Meghalaya, Orissa, Punjab, East Rajasthan, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Telangana, Coastal Karnataka, TamilNadu & Pondicherry and Kerala, 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

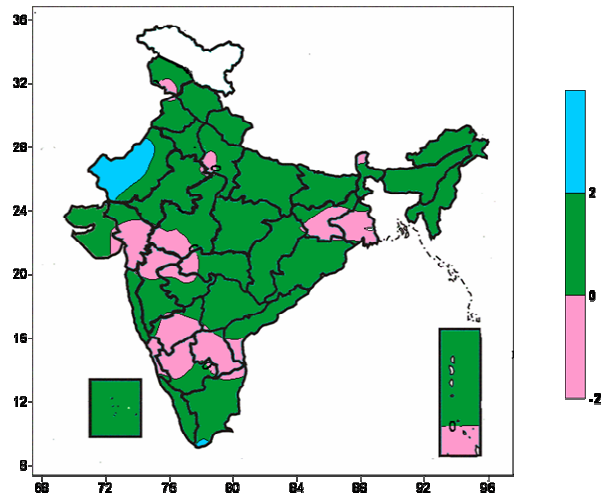
Contour maps for the week ending 02.09.09

Actual Mean Maximum Temperature (°C) in India for the week ending 02.09.09



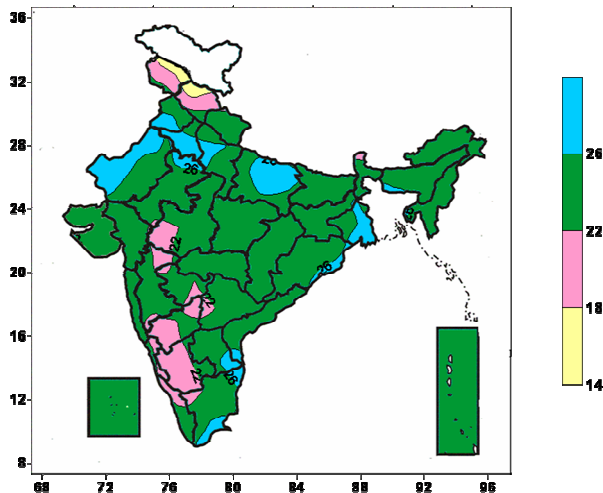
Actual Mean Maximum temperature ranged between 34°C and above over most parts of West Rajasthan, coastal Tamil Nadu, some parts of Punjab, Haryana, Saurashtra & kutch, Coastal Andhra Pradesh, Rayalaseema, 26 to 30°C over most parts of Coastal & South Interior Karnataka, Konkan & Goa, Madhya Maharashtra,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

Maximum Temperature (°C) Anomaly in India for the week ending 02.09.09



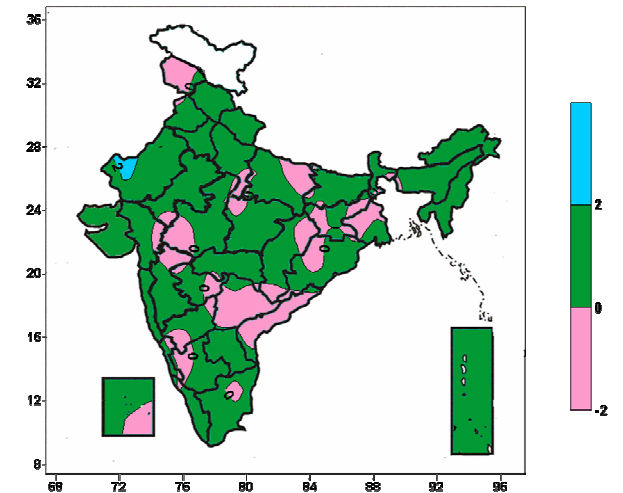
Actual Mean Maximum temperature anomaly ranged between 2°C and above over most parts of West Rajasthan, -2 to 0°C most parts of Jharkhand, Sikkim, Gangetic West Bengal, Gujarat, Karnataka, Rayalaseema, some parts of Jammu & Kashmir, West Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh, Tamil Nadu, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Saurashtra & kutch, Andaman & Nicobar Island, 0 to 2°C over remaining parts of the country.

Actual Mean Minimum Temperature (°C) in India for the week ending 02.09.09



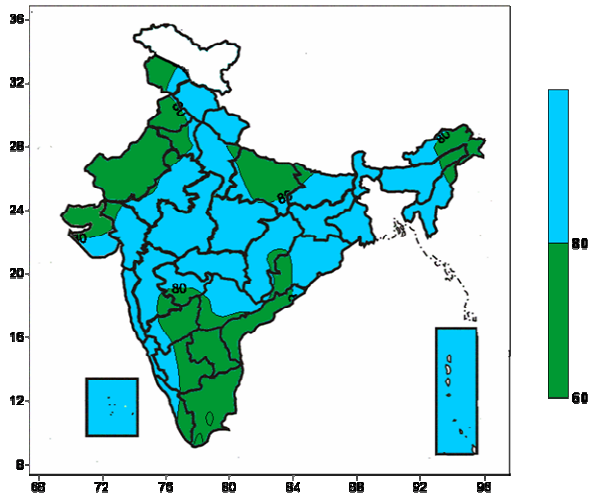
Actual Mean Minimum Temperature ranged between 28°C and above over most parts of Haryana, Delhi, East Uttar Pradesh, some parts of Punjab, West Uttar Pradesh, Rajasthan, Gangetic West Bengal, Assam, Orissa, Coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, 18°C to 22°C over most parts of Himachal Pradesh, Karnataka, some parts of Jammu & Kashmir, West Madhya Pradesh, Sikkim, Madhya Maharashtra, Marathwada, Telangana, Kerala, Tamil Nadu, 14°C to 18°C over some parts of Jammu & Kashmir, Himachal Pradesh, 22°C to 26°C over remaining parts of the country.

Minimum Temperature (°C) Anomaly in India for the week ending 02.09.09

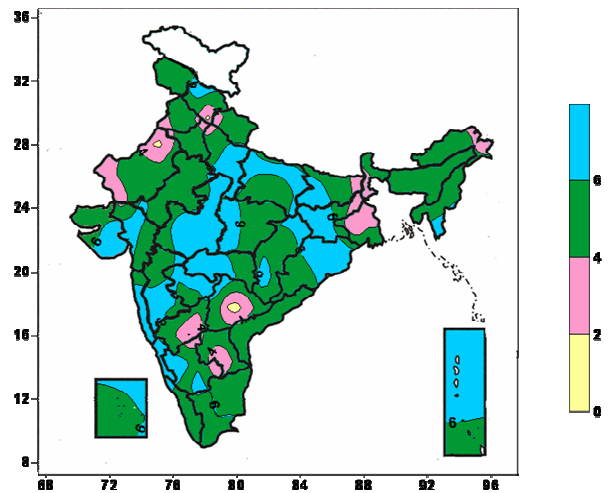


Minimum Temperature anomaly ranged between 2°C and above over some parts of Rajasthan, -2 to 0°C over most parts of Jammu & Kashmir, Telangana, Coastal Andhra Pradesh, some parts of Punjab, Uttar Pradesh, Bihar, Jharkhand, West Bengal, Assam, Orissa, Chattisgarh, Karnataka, Madhya Maharashtra, Marathwada, Vidarbha, Gujarat, Madhya Pradesh, Tamil Nadu, Kerala, Lakshadweep Islands, 0 to 2°C over remaining parts of the Country.

Relative Humidity (%) over India for the week ending 02.09.09



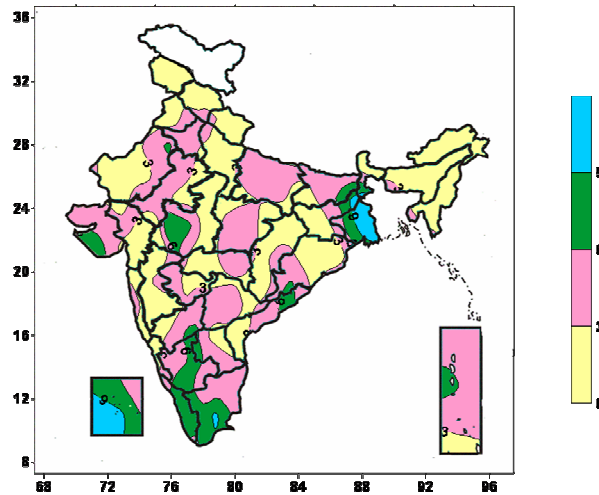
Cloud amount (okta) over India for the week ending 02.09.09



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

Cloud amount 6 okta and above over most parts of West Madhya Pradesh, Maharashtra, Orissa Coastal Karnataka, Andaman & Nicobar Islands, some parts of Himachal Pradesh, Uttar Pradesh, Bihar, Jharkhand, Mizoram, Gujarat, Saurashtra & Kutch, Chattisgarh, South Interior Karnataka, Kerala, Lakshdweep Islands, 2 to 4 okta over most parts of West Bengal, some parts of Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Punjab, Haryana, West Rajasthan, Bihar, Jharkhand, Arunachal Pradesh, Interior Karnataka, Telangana, Rayalaseema, 0 to 2 okta over some parts of West Rajasthan, Telangana, 4 to 6 okta over remaining parts of the country.

Wind speed (knots) over India for the week ending 02.09.09



Wind speed ranged between 9 knots and above over some parts of Gangetic West Bengal, Jharkhand, Tamil Nadu, Lakshadweep Islands, 6 to 9 knots over most parts of Kerala, South Tamil Nadu, some parts of West Rajasthan, Bihar, Jharkhand, West Bengal, West Madhya Pradesh, Orissa, Coastal Andhra Pradesh, Rayalaseema, Interior Karnataka, Lakshdweep, Andaman & Nicobar Islands, 3 to 6 knots over most parts of Haryana, East Uttar Pradesh, Bihar, Rajasthan, Saurashtra & Kutch, East Madhya Pradesh, North Interior Karnataka, North Tamil Nadu, Andhra Pradesh, Andaman & Nicobar Island, some parts of Punjab, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Jharkhand, West Bengal, Assam, Mizoram, Tripura, Orissa, Chhatisgarh, West Madhya Pradesh, Gujarat, Maharashtra, Coastal Karnataka, South Interior Karnataka, Lakshdweep Islands, 0 to 3 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:** Most of the districts received normal/excess rainfall except Chamba and Sirmur districts, which received deficient/scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Himachal Pradesh					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Chamba	-100	-87	-89	-98	-78
Sirmaur	-92	-77	-70	-95	-35
Districts received sufficient rainfall during previous week					
Bilaspur	-37	2	5	-81	50
Hamirpur	-57	43	-13	-92	121
Kangra	-73	-23	-58	-82	56
Kinnaur	-98	-92	-61	-98	83
Kullu	-66	15	98	-82	195
Lahaul and Spiti	-97	-97	-27	-98	3
Mandi	-73	18	-18	-99	19
Shimla	-90	-32	-16	-98	33
Solan	-79	-67	-54	-83	40
Una	-42	25	22	-99	273

- **Rainfall Forecast:** Rain/thundershowers many places over the State with isolated heavy to very heavy rainfall
- **Major Kharif Crops:** Rice, Vegetables
- **Crop Stage:** Maize, 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.
 - Postpone irrigation to the standing crops as rain/thundershowers many places over the State with isolated heavy to very heavy rainfall is likely during next five days.
 - **Major Seasonal Crop:** Fruit crops, Flower crops and Vegetables
 - It is optimum time for plantation of evergreen plants like Mango, litchi, guava, citrus, loquat and amla.
 - Undertake weeding, intercultural operations and top dressing of fertilizers after current spells of rain.
 - Farmers are also advised to arrange the staking in vegetable crops to avoid the damage.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - Hispa in rice, for control spray metacid 50 EC 1m per litres of water.
 - attack of blister blight in tea in shady and high humid areas, for precautionary measure spray calixin @0.2% or folicure 0.1% and if attack is severe then repeat spray at 15 days with alternate spray of blitox 0.3% at seven days interval.
 - white fly in cucurbits, tomato and french bean, for control spray acephate @ 0.05%(7 g/ litres of water) and direct the spray on lower leaves.
 - red spider mites in carnation, for control spray cypermethrin or nuvacron @0.05%.
 - Undertake spraying after current spells of rain.

Uttarakhand

- **Realised Rainfall:** All the districts in the State received deficient / scanty rainfall during last week except Chamoli, Uttarkashi districts, which received normal rainfall.

- **Rainfall distribution for last 5 weeks**

State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
2 weeks continuously deficient to no rain					
Dehradun	-63	31	-59	-72	-55
Garhwal Pauri	-59	-15	-95	-100	-87
Garhwal Tehri	-90	-75	-79	-98	-94
Rudraprayag	-91	-86	-60	-78	-58
2 weeks continuously deficient to no rain					
Almora	-91	-37	-16	-83	-89
Champawat	-90	26	224	-100	-88
Haridwar	-68	-51	78	-100	-64
Nainital	-97	-7	169	-86	-78
Pithoragarh	-57	-12	118	-49	-36
Rudraprayag	-91	-86	-60	-78	-58
Udham Sing Nagar	-88	-86	74	-93	-92
Week by week rainfall distribution for remaining district					
Chamoli	-91	-66	-53	-44	-19
Uttarkashi	-83	-88	-8	-67	-1

- **Rainfall Forecast:** Rain/thundershowers at many places over Uttarakhand during 48 hours and increase thereafter with isolated heavy to very heavy rainfall .
- **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 rice crop attained age of 65-70 days, top dress Urea @ 25 kg/acre after current spells of rain
 - As rain/thundershowers at many places over Uttarakhand during 48 hours and increase thereafter, postpone irrigation.
 - **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.
 - Undertake planting of mango, litchi, guava, papaya, citrus, loquat and amla and sowing of annual flower crops.
 - Farmers are advised to start 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.
 - 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/ per hectare for control of the said disease.
 - Undertake spraying of pesticides on a non rainy day.
- **Animal:** Give balanced feed to milking animals and clean properly their place of sitting in this rainy season.

Punjab

- **Realised Rainfall:** All the districts except Ropar and Fatehgarh Sahib in the State received good rainfall during last week districts.
- **Rainfall distribution for last 5 weeks**

Punjab					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					

Fatehgarh Saheb	-68	-100	-81	-100	-63
3 weeks continuously deficient to no rain					
Ropar	-36	-6	-20	-88	-79
Week by week rainfall distribution for remaining district					
Amritsar	-92	-100	-52	-72	14
Bhatinda	-21	-100	-92	-69	116
Faridkot	147	-100	-100	-100	0
Ferozpur	-75	-100	-80	-97	159
Gurdaspur	11	-62	-14	-96	10
Hoshiarpur	-51	-28	-62	-91	104
Jalandhar	113	-72	27	-39	149
Kapurthala	-21	130	-65	-86	779
Ludhiana	91	-95	-46	-55	38
Moga	-6	-95	-62	-100	374
Muktesar	-26	-100	-81	-38	89
Nawashahar	100	-68	-9	-91	14
Patiala	-6	-100	-13	-66	177
Sangrur	-55	-97	-97	-84	50

- **Rainfall Forecast:** Rain/thundershowers many places over the State with isolated heavy to very heavy rainfall
- **Major Kharif Crops:** Rice, maize, guar, til, urd, bajra, cowpea, cotton
- **Crop Stage:** Rice(booting), pulses(vegetative), cotton, soybean(flowering)
- **Crop Condition:** Rice crop is in satisfactory condition.
- **Advisory:** Farmers are advised to undertake 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 started.
 - This is suitable time for planting of evergreen fruit plants like sweet orange, mandarin, lime, lemon & guava.
 - Undertake sowing of non-legume fodders in mixture with legume fodders like maize + cowpea, sorghum + guara.
 - Farmers are advised to postpone irrigation to the standing crops as there was significant rainfall in most of the districts during last week.
- **Advisory for Plant Protection:** Weather conditions are favourable for mild incidences of –
 - stem borer and leaf folder in rice. Spray the crop with 350 ml Hostathion or 560 ml Monocrotophos or 1 litre Chloropyriphos per acre.
 - Spray chemicals after current spells of rain.

Animal Husbandry: Feed the milch animals during the cool part of the day i.e. morning and evening. Provide plenty of drinking water to the dairy animals. Keep the animals in clean, cool and ventilated sheds. Keep the animals free from endo and ecto parasites.

Haryana

- **Realised Rainfall:** Ten districts of the State received excess/normal rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Haryana					
More than 3 weeks continuously deficient to no rain					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
Bhiwani	-88	-100	-85	-33	-25
Jind	-84	-94	-87	-58	-38
Katihah	-14	-100	-89	-86	-86

Karnal	-66	-100	-24	-92	-51
Kurukshetra	-12	-100	-71	-94	-48
Panipat	-100	-94	-57	-93	-79
Rewari	-100	-100	-83	-80	-43
Rohtak	-99	-100	-60	-92	-55
Sirsa	-100	-100	-78	-83	-69
Week by week rainfall distribution for remaining district					
Ambala	-74	-86	-14	-93	118
Chandigarh	-29	-99	-47	-98	227
Faridabad	-97	-100	71	-74	28
Fatehabad	-84	-100	-88	-48	29
Hissar	-94	-100	-82	-100	78
Jhajar	-82	-100	-53	-83	63
Mahendragarh	-100	-95	-25	-74	7
Panchkkula	-82	-83	-72	-96	5
Sonepat	-71	-97	-75	-96	0
Yamunanagar	-64	-53	64	-98	-10

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State during 48 hours
- **Major Kharif Crops:** Rice, maize, guar, bajra, cotton
- **Crop Stage:** Rice(tillering), pulses(vegetative)
- **Crop Condition:** Satisfactory
- **Advisory:** Farmers are advised to start 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 on a non rainy day.
 - Farmers are advised to undertake weeding and hoeing in cotton and intercultural operations in tomato, onion and chilli on a non rainy day.
 - **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 on a non rainy day.
 - bacterial blight in guar, spray the crop with 400ml Blitox and 30 grams of Straptocyclin in 200 liters of water per acre on a non rainy day.

Delhi

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

State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
New Delhi	-95	-57	-12	-46	-10

- **Rainfall Forecast:** Rain/thundershowers at a few places over the state.
- **Major Kharif Crops:** vegetables and rice
- **Crop Stage:** Vegetative
- **Crop Condition:** Satisfactory
- **Advisory:** Sowing of black gram is advised in those areas where rice crop has failed due to drought like situation. Recommended cultivars: - Pant Urad 35 and T-9.
 - Intercultural operations are advised to keep the fields free from weeds.
 - Under present weather conditions earthing up and tying operations of sugarcane is advised.

- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops on a non rainy day

Plant protection:

- Monitoring of white fly is advised as it is the vector of yellow mosaic virus of pulse crops. As rain is forecasted for the next five days spraying of insecticide should not be done at all.
 - Monitor rice crop for blast, leaf folder and brown plant hopper Farmers are advised to undertake plant protection measures. Undertake intercultural operations to keep the field weed free.
 - Due to humid weather conditions, there may be increase in incidences of insect pests of cotton. Farmers are advised to install pest specific pheromone traps in the fields.
 - Drenching of vegetable nursery with Mancozeb @ 2 grams per litre of water is advised to control damping off when the sky will be clear.
 - Spraying of neem based insecticides against fruit flies in cucurbitaceous crop is advised when the sky will be clear. Such insecticides cause less damage to predators and parasites. Putting of poison solution in container at different locations in the field is advised. To prepare poison solution one litre of water, 30 gram of jaggary and 2 ml of Malathion 50 EC is added. Farmers may also install methyl eugenol trap against fruit fly.
 - In brinjal, to control shoot and fruit borer, cutting of the infested dried shoots at 1-1.5 inch below the damaged part and burying them deep in the soil is advised. It is strongly advised not to keep the damaged shoots besides the field as the larvae from damaged shoots or fruits may attack nearby healthy plants. Pheromone traps of this pest are available and can be installed in the field (11 traps /ha).
 - Farmers are advised to use light trap to keep a check on pest population. This causes less damage to useful insects. For making a light trap, a bulb should be fixed above a tumbler (either plastic or tin) having a mixture of water and few drops of Rogor or kerosene oil. The insects get attracted towards the light, fall in the solution and die.
 - Undertake application of pesticides on a non rainy day
- **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.
 - In present weather conditions 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.
 - Present weather conditions are favourable for 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.
 - Transplanting of green onion seedling can be taken up in raised bed.
 - 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.

Uttar Pradesh

- **Realised Rainfall:** In general, most of the districts of the state received deficient/scanty rainfall.
- **Rainfall distribution for last 5 weeks**

East Uttar Pradesh					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Allahabad	-95	-85	-58	-90	-67
Kushi nagar	-58	-81	-45	-87	-85
Maharajganj	-41	-70	-39	-85	-73
Mirzapur	-100	-100	-67	-99	-70
Pratapgarh	-91	-89	-27	-94	-64
Sonbhadra	-100	-95	-61	-92	-51
3 weeks continuously deficient to no rain					
Deoria	-96	-6	-56	-47	-48
2 weeks continuously deficient to no rain					
Balrampur	-75	49	52	-87	-35
Gonda	-79	-73	234	-44	-20
Hardoi	-64	-60	117	-55	-80
Jaunpur	-93	-87	24	-74	-44
Kanpur City	-97	-85	38	-87	-63
Kanpur Dehat	-89	-68	35	-97	-48
Kheri	-59	-38	186	-42	-42
Lucknow	-20	-59	126	-70	-84
Mau	-86	-73	8	-85	-75
RaiBareilly	-86	-98	2	-97	-78
Sidharthnagar	-7	-32	163	-89	-34
Sultanpur	-70	-86	53	-82	-56
Unnao	-73	-78	48	-92	-87
Varanasi	-100	-86	6	-98	-66
Week by week rainfall distribution for remaining district					
Bahraich	-32	-34	214	-27	-5
Banda	-97	-91	63	-86	-4
Basti	-72	-71	97	-17	15
Faizabad	-88	-70	216	-15	-17
Gazipur	-98	12	81	-10	25
Gorakhpur	-77	-32	35	-70	10
Sant Ravidas Nagar	-100	-55	-44	-100	-11
Shrawasti	-28	-41	119	21	-80
Sitapur	-73	-82	146	-8	-77
More than 3 weeks continuously deficient to no rain					
West Uttar Pradesh					
Etawah	-92	-87	**	-83	-63
Ghaziabad	-11	-81	-50	-100	-76
Mahamaya Nagar	-95	-99	-44	-58	-31
Meerut	-66	-81	-88	-100	-51
Muzzaffarnagar	-60	-98	-91	-91	-58
2 weeks continuously deficient to no rain					
Agra	-100	-96	-6	-99	-67
Auraiya	-90	-74	128	-100	-60
Badaun	-71	-92	256	-94	-22
Bareilly	-79	-92	382	-87	-77
Bijnor	-79	-74	175	-99	-85
Etah	-98	-89	12	-89	-68

Jhansi	-100	-96	68	-95	-43
Jotirba Phule Nagar	-44	-100	167	-100	-92
Moradabad	-92	-93	111	-92	-85
Pilibhit	-71	-78	177	-96	-95
Rampur	-98	-89	71	-99	-91
Shahjahanpur	-80	-63	198	-73	-84
Week by week rainfall distribution for remaining district					
Aligarh	-96	-93	19	-75	22
Baghpat	-28	-97	-45	-97	43
Bulandsahar	-92	-95	103	-95	-17
Firozabad	-100	-20	-20	-100	39
Hamirpur	-99	-93	63	-68	27
Jalaun	-96	-96	11	-94	-16
Lalitpur	-100	-73	26	-97	-6
Mathura	-100	-94	90	-89	-9
Saharanpur	-79	-96	191	-92	9

- **Rainfall Forecast:** Rain/thundershowers at many places over Uttar Pradesh during 48 hours and increase thereafter with isolated heavy to very heavy rainfall.
- **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)
- **Crop Condition:**
- **East UP:** Satisfactory
- **West UP:** Satisfactory
- **Advisories:**
 - Undertake weeding, intercultural operations in early sown crops after current spells of rain.
 - As rain/thundershowers at many places over Uttar Pradesh during 48 hours and increase thereafter, postpone irrigation to the crops.
 - **Major Seasonal Crop with stage:** Sugarcane (vegetative) and vegetables (vegetative/fruited), mango (fruit setting)
- **Crop Condition: Good**
- **Advisory**
 - Undertake weeding, intercultural operations and application of fertilizers in the standing crops like sugarcane, vegetables and menthe after current spells of rain.
 - Undertake application of Zinc sulphate @5 kg/ ha or Zinc oxide @0.8 kg/ ha if khaira disease symptom appears
- **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:** Most of the districts received deficient/scanty rainfall except few districts like Doda, Ladhak(Leh) and North Baramula, which received normal rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Jammu & Kashmir					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Kathua	-59	-29	-93	-98	-59
Kupwara	-90	-95	-76	-83	-89
Pulwama	-49	-50	-64	-64	-84
Srinagar	-93	-66	-68	-52	-49
2 weeks continuously deficient to no rain					
Udhampur	-73	-32	19	-64	-89
Week by week rainfall distribution for remaining districts					
Anantnag	-83	-58	90	-19	-43
Doda	-78	-76	-6	19	-17

Ladakh(Leh)	-100	-100	-100	-100	15
North Baramula	-83	-95	-95	-46	7

- **Rainfall Forecast:** Rain/thundershowers at many places over the state.
- **Major Kharif Crops:** Rice, maize, vegetables
- **Crop Stage:** vegetative/tillering
- **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. As good amount of rainfall is expected, there are chances of improvement in the crop situation.
- Postpone irrigation and arrange for drainage facilities as rain/thundershowers is likely at many places over the state along with isolated heavy to very heavy rainfall.
- 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 after spells of rain.
- **Major Seasonal Crop with stage:** Vegetables (vegetative/flowering/fruiting)
- **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 plan for rabi crops so that 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 after spells of rain.
- Rogue out virus affected plants from vegetable crops.

Rajasthan

- **Realised Rainfall:** The State received deficient/scanty rainfall except Hanumangarh in West Rajasthan.
- **Rainfall distribution for last 5 weeks**

State / Districts	29.07.09	05.08.09	12.08.09	19.08.09	26.08.09
More than 3 weeks continuously deficient to no rain					
East Rajasthan					
Ajmer	-57	-100	-74	-29	-97
Banswara	65	-99	-96	-71	-81
Bhilwara	-27	-100	-76	-60	-90
Chittorgarh	37	-99	-65	-40	-71
Dungarpur	121	-100	-82	-79	-83
Jhalawar	-29	-100	-93	-46	-89
Rajsamand	56	-100	-76	-31	-92
Sirohi	98	-98	-93	-87	-56
West Rajasthan					
Barmer	182	-100	-100	-100	-100
Bikaner	2	-100	-100	-90	-88
Churu	-23	-100	-98	**	-47
Jaisalmer	49	-100	-100	-100	-91
Jalore	19	-99	-100	-100	-100
Jodhpur	2	-100	-100	-93	-97
Nagaur	-82	-100	-95	-51	-61
Pali	20	-99	-93	-59	-61
Sri Ganganagar	10	-100	-100	-67	-48
Distribution of rainfall for remaining districts of the state for last five weeks					
East Rajasthan					

Alwar	-26	-97	-94	98	-38
Baran	-81	-100	-99	128	-89
Bharatpur	31	-96	-71	125	-73
Bundi	-87	-100	-94	-11	-98
Dausa	-59	-100	-91	43	-94
Dholpur	-97	-100	-76	32	-93
Jaipur	-73	-100	-89	51	-83
Jhunjhunu	-73	-100	-94	43	-52
Karauli	-73	-100	-71	134	-100
Kota	-53	-100	-93	-8	-89
Sawai Madhopur	-89	-100	-76	44	-100
Sikar	-80	-100	-95	-5	-40
Tonk	-68	-100	-94	-6	-100
Udaipur	142	-99	-81	-12	-86
West Rajasthan					
Hanumangarh	-44	-100	-100	53	47

- **Rainfall Forecast:** Isolated rain/thundershowers over west Rajasthan and at a few places over East Rajasthan.
- **Major Kharif Crops:**
- **East Rajasthan:** Cowpea, bajra, maize
- **West Rajasthan:** Pearl millet, sorghum, maize, cluster bean, Sesamum, Pigeonpea, Groundnut
- **Crop Stage:** vegetative
- **Crop Condition: Satisfactory**
- **Advisory:** In areas received late rainfall, take up sowing of fodder crops viz., MP Chari. Grow short duration variety of sesame RT 46, T9, cluster bean RGC 936.
- There are chances of light rainfall during next week. Carry out thinning and intercultural operations in timely sown crops.
- Take up hoeing, weeding and top dressing in maize and sorghum with application of urea under sufficient soil moisture availability
- **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 on a non rainy day over East Rajasthan.
- Apply irrigation to already sown crop.
- 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.
- **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
 - Sesamum may be affected with powdery mildew. In this disease white powdery mass deposits on leaves & leaf turn yellowish & dried. To control this disease broadcast sulphur dust @ 20 kg 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.
 - Apply 5 – 7 granules per plant of Endosulphan 4% or Quinalphos 5% granules 25 DAS in leaf axils to manage stem borer in sorghum.
 - Spray Dimethoate 30 EC @ 1 litre/ ha to manage sucking pests in legumes.
 - Undertake plant protection measures on a non rainy day over East Rajasthan.

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

Bihar

- **Realised Rainfall:** Twelve districts of Bihar received excess/normal rainfall during last week.

- **Rainfall distribution for last 5 weeks**

Bihar					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Bhabua	-100	-78	-93	-75	-100
2 weeks continuously deficient to no rain					
Bhojpur	-98	-60	34	-86	-58
Gaya	-98	-69	29	-50	-85
Jhanabad	-100	-86	20	-59	-34
Kathihar	88	-28	129	-31	-70
Kishanganj	-68	-99	33	-30	-79
Saran	-93	-71	81	-47	-51
Sitamarhi	141	-70	115	-30	-89
Siwan	-73	-22	47	-24	-50
West Champaran	107	58	138	-55	-65
Week by week rainfall distribution for remaining districts					
Araria	72	49	62	42	-44
Aurangabad	-98	-78	418	43	55
Begusarai	-77	-65	6	2	-27
Bhagalpur	72	-17	422	-87	61
Buxar	-99	115	122	35	32
Darbhanga	133	-32	3	135	-60
East Champaran	60	105	88	-8	-9
Gopalganj	-53	40	-7	31	17
Jamui	-98	-4	163	-4	46
Khagadia	-29	8	58	50	-51
Madhepura	212	-77	-5	36	-68
Madhubani	121	-64	66	33	-76
Monghyar	-53	-40	16	114	57
Muzaffarpur	-8	-52	64	1	-18
Nalanda	-92	-65	4	-20	-12
Patna	-88	81	1	-3	125
Purnea	64	87	299	49	-44
Rohtas	-95	-32	160	0	86
Saharsha	251	64	56	21	-83
Samstipur	-18	1	35	58	-43
Supaul	110	-72	43	55	-88
Vaishali	-100	34	18	-37	51

- **Rainfall Forecast:** Rain/thundershowers at a few places over the rest region during 48 hours and increase thereafter.
- **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.
- **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,
 - Farmers are advised to sow mishrikand and vegetable crops like tomato, brinjal, chillies in the upland areas.
 - In the upland areas, sowing of carrot, cauliflower, brinjal, tomato, and September pigeonpea, urd and sunflower are advised.

- **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

Jharkhand

- **Realised Rainfall:** Eight districts of the State received normal/excess rainfall.
- **Rainfall distribution for last 5 weeks**

Jharkhand					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Gumla	-85	-74	-99	-32	-57
2 weeks continuously deficient to no rain					
Godda	-100	-100	**	-88	-60
Week by week rainfall distribution for remaining districts					
Bokaro	-95	-74	-8	105	104
Dhanbad	-35	-71	-15	53	-9
East Singhbhum	-64	-59	-38	45	-64
Giridih	38	-33	81	5	-4
Hazaribagh	-98	-97	76	70	73
Koderna	-100	-86	43	-100	**
Lohardagga	-96	-77	-87	37	133
Palamau	-99	-79	-49	1	-36
Ranchi	-29	-60	-31	42	-2
Santhal Parganas	-10	-65	3	-20	-1
West Singhbhum	-74	-9	337	22	-11

- **Rainfall Forecast:** Rain/thundershowers at a few places over the rest region during 48 hours and increase 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:** Crop condition is improving.
- **Advisory:** Undertake sowing of niger and kulthi with the upland variety like Birsa Kulthi-1, Madhu, BR-10 and Niger: Birsa Niger-1, BN-2.
- Prepare the land for sowing of barsati potato. The varieties to be selected are Kufri chandramukhi, Kufri Lalima, Kufri Ashok, Kufri Kanchan, ON-2236 & Ultimous.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative/grand growth),
- **Crop Condition: Good**
- **Advisory:** Farmers are advised to undertake weeding, intercultural operations in sugarcane after current spells of rain.
 - Undertake planting of mango variety like Mallika, Amrapali, Langra, Himsagar in the pits already filled with soil and manures.
 - Undertake transplanting of brinjal, chilly, tomato utilizing the realized rainfall.

Orissa

- **Realised Rainfall:** Seventeen districts of the state received normal/excess rainfall

Orissa					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
Districts received sufficient rainfall during previous week					
Angul	-90	**	-24	108	23
Balasore	-59	**	-58	65	-17
Bargarh	-99	**	-94	113	-10
Bhadrak	-51	**	-21	129	-46
Bolangir	-94	**	16	94	-2
Boudh	-96	**	-45	192	-12
Cuttack	-83	**	-41	162	40

Deogarh	-88	**	-45	25	-28
Dhenkanal	-93	**	-65	70	-49
Gajapati	-75	**	29	64	40
Ganjam	-61	**	-45	106	-12
Jagatsingpur	-26	**	-14	52	-50
Jajpur	-84	**	-10	134	3
Jharsuguda	-80	**	6	-1	-80
Kalahandi	-55	**	-39	99	41
Kandhamal	-94	**	43	39	-16
Kendrapara	-59	**	-66	94	-55
Keonjhar	-60	**	-55	81	54
Khurda	-83	**	-29	83	0
Koraput	-84	**	2	12	-4
Malkangiri	-82	**	-58	-49	91
Mayurbhanj	-72	**	-62	22	-27
Nawapara	-96	**	-69	144	6
Nawarangpur	-38	**	-77	201	-40
Nayagarh	-65	**	-23	108	-51
Puri	-75	**	-17	29	-53
Rayagada	-91	**	-30	64	-6
Sambalpur	-96	**	1	43	-22
Sonepur	-91	**	-29	30	-35
Sundargarh	-67	**	-15	1	-37

- **Rainfall Forecast:** Rain/thundershowers at many places over coastal areas of Orissa during 48 hours and increase thereafter with isolated heavy to very heavy rainfall. Rain/thundershowers at a few places over the rest region during 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, ragi, arhar, maize, green gram, blackgram
- **Crop Stage:** Rice(early vegetative/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 rain/thundershowers at many places is likely in the coming days.
 - 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.
 - Undertake sowing of niger. Grow High Yielding varieties suitable for Orissa climate such as Deomali and IGP-76.
 - Undertake sowing of niger in fallow upland. 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.
 - **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 after current spells of rain.

West Bengal

- **Realised Rainfall:** Most of the districts of West Bengal received deficient/scanty rainfall except few district like Murshidabad, 24 Parghona (N), Darjeeling and Malda, which received normal/excess rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

West Bengal					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
2 weeks continuously deficient to no rain					
GWB					
Bankura	101	-24	62	-24	-60
Hooghly	38	49	31	-25	-54

Howrah	-73	-38	2	-29	-70
SHWB					
Dinajpur (S)	146	55	203	-35	-56
Week by week rainfall distribution for remaining districts					
GWB					
Birbhum	103	-36	-4	23	-40
Burdwan	105	-17	28	23	-57
Midnapore	-21	-28	-34	42	-60
Murshidabad	6	155	18	-24	85
Nadia	127	120	-4	10	-58
24 Pargana (N)	7	200	6	25	-6
Purulia	28	-24	-6	36	-26
24 Pargana (S)	-56	7	-37	13	-23
SHWB					
Coochbehar	-41	-32	174	28	-89
Darjeeling	-6	-35	93	70	-10
Jalpaiguri	-6	10	116	1	-57
Malda	-12	-3	216	-84	-16
Dinajpur (N)	59	97	336	2	-34
Sikkim					
Sikkim	-55	-53	47	18	-40

- **Rainfall Forecast:** Rain/thundershowers is likely at many places during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, vegetables
- **Crop Stage:** Vegetative/tillering.
- **Crop Condition: Good**
- **Advisory:** As rain/thundershowers are likely at many places over the State, postpone irrigation and intercultural operations.
 - 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.
- **Major Seasonal Crop with stage:** Sugarcane (vegetative)
- **Crop Condition: Good**
- **Advisory:**
 - To compensate the loss inflicted by the drought situation the farmers can cultivate 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:** Weather conditions are favourable for the occurrence of
- sheath blight disease in Aman rice. To prevent the disease apply Carbendazim 1 gm or Propiconazole 1 ml per litre of water to the standing crop.
- 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	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
Sikkim					
Sikkim	-55	-53	47	18	-40

- **Rainfall Forecast:** Rain/thundershowers at a few places during 48 hours and increase thereafter.

- **Major Seasonal Crop with stage: Kharif Vegetables:** flowering/fruitletting/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:** Nine districts of the state received normal/excess rainfall and remaining districts received deficient/scanty rainfall.
- **Rainfall distribution for last 5 weeks:**

Assam					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Golghat	44	-64	-28	-41	-40
2 weeks continuously deficient to no rain					
Cachar	120	32	33	-53	-44
Darrang	106	-60	17	-66	-93
Goalpara	166	-62	385	-70	-74
Jorhat	-20	-56	55	-36	-80
Karimganj	91	84	62	-60	-32
Sonitpur	4	-70	140	-49	-92
Week by week rainfall distribution for remaining districts					
Barpeta	344	-9	625	55	61
Bongaigaon	110	-34	455	-17	-12
Dhubri	-52	-63	205	-12	-90
Dibrugarh	56	71	8	-9	-28
East Garo Hills	-17	-80	921	78	-79
East Khasi Hills	-10	-10	444	49	-38
Hailakandi	-6	-40	-62	-33	6
Kamrup	59	-45	47	-15	-16
Karbi Analog	-31	-29	148	-86	66
Kokrajhar	71	8	688	27	-69
Lakhimpur	58	31	114	60	-22
Morigaon	-81	7	42	-73	-15
Nalbari	-3	7	91	-15	2
Nowgong	-74	-63	-72	-90	42
Sibsagar	-4	-36	62	-7	-46
Tinsukia	19	16	115	6	13

- **Rainfall Forecast:** Rain/thundershowers at a few places over the State.
- **Major Kharif Crops: Sali paddy**

- **Crop Stage: Rice(Early vegetative/tillering)**
- **Crop Condition:** Transplanting of sali rice is continued.
Advisory: Apply top dressing in early sown *sali* rice on a non rainy day.
- High yielding varieties of green gram such as T-44, K-801 etc. and black gram(T-9, T-27 etc.) may be sown under the prevailing weather conditions.
- Farmers are advised to sow early varieties of cauliflower(eg. Early Kuwari, Pusa Keteki, Pusa Dipali etc.).
- Postpone irrigation to the crops as many of the districts received good rainfall during last week.
- **Major Seasonal Crop with stage:** Vegetables (vegetative / flowering / fruiting / harvesting), early *ahu* rice (tillering / panicle initiation), *Capsularis* jute (vegetative / harvesting), *Olitorius* jute (vegetative), maize (vegetative) and sugarcane (vegetative),
- **Crop Condition:** Good
- **Advisory:**
- Postpone irrigation to the crops as many of the districts received good rainfall during last week.
- **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 on a non rainy day.

Arunachal Pradesh

- **Realised Rainfall:** In general many of the districts received deficient/scanty rainfall except Lohit district, which received normal rainfall during last week.
- **Rainfall distribution for last 5 weeks:**

Arunachal Pradesh					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
3 weeks continuously deficient to no rain					
Tawang	-27	16	-33	-63	-23
2 weeks continuously deficient to no rain					
Changlang	-65	-90	9	-75	-93
Lower Subansiri	-40	40	-6	-59	-79
Districts received sufficient rainfall during previous week					
East Kameng	54	-14	-6	0	-54
East Slang	-2	-38	109	75	-72
Lohit	-6	124	135	4	-11
Papumpara	40	-9	271	220	-23
Tirap	67	28	133	36	-26
Upper Subansiri	71	15	250	43	-86
West Kameng	96	-63	328	508	-23

- **Rainfall Forecast:** Rain/thundershowers at a few 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 on a non rainy day.
- **Harvest the matured maize crop.**
- **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:** Overall the state received deficient/scanty rainfall except six districts received normal/excess rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Andhra Pradesh					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
2 weeks continuously deficient to no rain					
Coastal Andhra Pradesh					
Prakasam	-89	-80	111	-28	-87
Distribution of rainfall for remaining districts of the state for last five weeks					
Coastal Andhra Pradesh					
East Godavari	-72	-69	-48	-16	-15
Guntur	-91	-85	184	147	-86
Krishna	-87	-83	14	118	-47
Nellore	-23	-66	202	-11	-83
Sirkakulam	-32	-54	-18	1	42
Visakhapatnam	-71	-79	-30	-62	-19
Vizianagram	-19	94	39	19	54
West Godavari	-66	-51	-63	-21	9
Telangana					
Adilabad	-99	-60	-82	63	-66
Hyderabad	-100	-78	96	181	-45
Karimnagar	-100	-72	-79	39	-55
Khammam	-95	-75	-57	24	-8
Mehabubnagar	-99	-86	-37	78	-57
Medak	-100	-70	-63	115	-56
Nalgonda	-100	-96	6	100	-68
Nizamabad	-100	-80	-76	79	-51
Rangareddy	-100	-87	36	384	-54
Warangal	-98	-98	-67	62	-41
Rayalaseema					
Anantapur	-85	-81	35	325	-84
Chittoor	-11	-89	419	43	-93
Cuddapah	-73	-86	263	140	-92
Kurnool	-84	-72	11	38	-81

- **Rainfall Forecast:** Rain/thundershower at many places during next 48 hours and decrease thereafter
- **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:** Vegetative/tillering.
- **Crop Condition:** Satisfactory.
- **Advisory:** Undertake intercultural operations in groundnut which is at 20 days old or more. Apply 5kg urea/acre if necessary to the crop.
- Application of second split of nitrogenous fertilizer (20 kg urea/acre) may be taken up after inter cultural operations in paddy crop.
- Complete sowing of cowpea, horse gram, pearl millet, sorghum and green gram in areas where sowing was not undertaken due to poor rainfall.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops after spells of rain.
- **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.
- Harvesting of the muskmelon should be completed on bright sunny day.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides after spells of rain.
- **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 chillies; 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.
- Undertake spraying of chemicals after current spells of rain.

Karnataka

- **Realized- Rainfall:** The State received normal/excess rainfall except district like Bagalkote, Bidar, Bangalore (Rural), Chamrajnagar, Kolar, Mysore, which received deficient/ scanty rainfall during last week.
- **Rainfall distribution for last 5 weeks**

Karnataka					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
Distribution of rainfall for the state for last five weeks					
Coastal Karnataka					
Dakshin Kannada	-3	-51	-46	18	86
Udupi	6	-57	-66	31	142
Uttar Kannada	-54	-77	-75	2	87
North Interior Karnataka					
Bagalkote	-79	-98	231	291	-38
Belgaum	-53	-62	35	149	**
Bidar	-100	-69	-23	172	-25
Bijapur	-98	-94	142	524	126
Dharwad	-58	-89	-39	54	2
Gadag	-89	-87	325	208	35
Gulbarga	-99	-81	-29	252	161
Haveri	-3	-72	28	166	-5
Koppal	-84	-97	140	539	8
Raichur	-88	-48	30	215	159
South Interior Karnataka					
Bangalore Rural	8	-4	25	72	-68
Bangalore Urban	6	-33	202	-43	-10
Bellary	-76	-70	229	83	173
Chamarajnagar	-55	-81	514	60	-53
Chickmagalur	-26	-74	-12	53	48
Chitradurga	-86	-24	374	458	24
Davangere	-38	-7	332	246	110
Hassan	-88	-92	14	58	20
Kodagu	-14	-43	-42	-1	33
Kolar	-54	-80	192	177	-53
Mandya	-26	-97	794	186	-16
Mysore	6	-54	420	156	-37
Shimoga	-15	-45	-41	43	104
Tumkur	-21	-57	92	311	23

- **Rainfall Forecast:** Rain/thundershower at many places over Interior Karnataka during next 48 hours and decrease thereafter and at many places over coastal Karnataka.
- **Major Kharif Crops:** Jowar, Maize, Bajra, Redgram, Ragi, Greengram, Blackgram, Cowpea, Sesamum, Groundnut, Sunflower, Soyabean, Cotton.
- **Crop Stage:** transplanting. Early sown crops are at early vegetative/vegetative stage.

- **Crop Condition:** Satisfactory. There is improvement in crop condition in interior Karnataka due to good amount of rainfall during last week.
- **Advisory:** Postpone irrigation as rain/thundershower at many places over the state. Arrange for drainage facilities in Coastal Karnataka as isolated heavy to very heavy rainfall is likely to occur during next 48 hours
- Take up the earthing up for early sown crops and weeding. In case of early sown crops, the operations like weeding, thinning and gap filling is also suggested. 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 earthing up to be taken up at 30 days after sowing. Avoid stagnation of water.
- Farmers were advised to complete sowing of cowpea varieties TVX-944, KBC-1& 2 and Horsegram varieties KBH-1 & PHG-9 wherever the sowing is not taken up.
- Farmers are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown crops after spells of rain.
- **Major Seasonal Crop:** Sugarcane and vegetables
- Undertake ratooning in sugarcane. Undertake intercultural operations in sugarcane and early sown crops after current spells of rain to keep the field weed free.
- Good amount of rainfall is expected in next few days. Hence, farmers are advised for 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 drain the paddy field, 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.

Kerala

- **Realised Rainfall:** The state received normal/excess rainfall except Pathanamthitta, Wyanad districts.
- **Rainfall distribution for last 5 weeks**

Kerala					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Pathanamthitta	**	-56	-36	-26	-76
Wyanad	-67	-82	-70	-49	-85
Distribution of rainfall for remaining districts of the state for last five weeks					
Alappuzha,	-16	-86	-39	-61	10
Kannur	-5	-40	-85	-26	20
Ernakulam	-20	-75	-41	**	82
Idukki	-37	-42	-46	-37	10
Kasaragod	-2	-55	-49	25	-16
Kollam	-51	-67	-30	-11	8
Kottayam	25	-71	-59	-10	11
0Kozhikode	-6	-60	-88	-16	116
Malappuram	-40	-59	-91	44	125
Palakkad	-34	-77	-56	69	75

Thiruvananthapuram	-42	-95	-79	39	79
Thrissur	-2	-74	-28	46	107

- **Rainfall Forecast:** Rain/thundershowers at many places
- **Major Kharif Crops:** Rice
- **Crop Stage:** Tillering/panicle initiation.
- **Crop Condition:** Good.
- **Advisory:** 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).
- Intercultural operations, application of fertilizers and pesticides may be continued after current spells of rain.
- Arrange for drainage facilities in black pepper to avoid water stagnation.
- **Plant Protection:** Weather conditions are favourable for mild incidences of –
 - leaf folder and stem borer in paddy fields. Farmers may go for Tricho cards (Trichogramma chilonis against leaf folder and Trichogramma japonicum against stem borer) if their incidence noticed.
 - 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.
 - Pests like plant hopper, thrips etc in gourds can be controlled by spraying 5 % Neem oil. Use 2.5% Neem –garlic emulsion against. Apply 2-3 g wettable sulphur for controlling powdery mildew.
 - Undertake spraying of chemicals after current spells of rain.

Tamilnadu

- **Realised Rainfall:** Most of the districts received deficient / scanty rainfall except Chennai, Coimbatore, Kanchipuram, Kanyakumari, Nilgiris, Pondicherry, Tiruvallur, Tiruvannamalai, Vellore during last week.
- **Rainfall distribution for last 5 weeks**

Tamil Nadu					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
2 weeks continuously deficient to no rain					
Cuddalore	247	-96	169	-73	-63
Dindigul	-16	-83	453	-34	-80
Karur	-95	-24	305	-75	-100
Krishnagiri	-36	-86	331	-60	-35
Madurai	220	-59	260	-42	-97
Nagapattinam	306	-33	153	-76	-57
Perambalur	29	-97	261	-96	-100
Pudukottai	-2	-98	**	-98	-81
Ramanathapuram	-44	-91	375	-54	-89
Sivaganga	167	9	355	-81	-43
Thanjavur	-60	-65	292	-31	-87
Theni	36	-66	283	-43	-51
Trichy	5	-100	532	-53	-100
Tuticorin	12	-100	241	-47	-100
Villupuram	286	-89	195	-76	-61
Virudhunagar	-100	-89	29	-73	-100
Distribution of rainfall for remaining districts of the state for last five weeks					
Chennai	-12	-29	4	-85	-2
Coimbatore	162	24	328	251	277
Dharmapuri	-93	-100	381	-2	-72
Erode	-11	-93	435	-13	-24
Kanchipuram	154	-90	34	-89	114
Kanyakumari	-61	-95	-83	342	2
Namakkal	-69	-80	273	9	-66
Nilgiris	-42	-57	23	33	-15

Pondicherry	129	-61	137	-39	8
Salem	85	-93	377	42	-51
Tirunelveli	-96	-97	238	212	-38
Tiruvallur	63	-67	144	-29	-1
Tiruvannamalai	171	-96	99	-100	-6
Tiruvarur	-2	5	200	61	-100
Vellore	29	-100	203	-73	50

- **Rainfall Forecast:** Rain/thundershowers at a few places.
- **Major Kharif Crops:** Groundnut, pulses and rice
- **Crop Stage:** Sowing/transplanting, vegetative
- **Crop Condition:** Good
- **Advisory:** Farmers are advised to undertake land preparation for early sowing of maize without removing crop residues from the fields
- Farmers are advised to utilize the last week rain for land preparation and transplanting of paddy particularly in Western zone.
- Farmers are advised to undertake intercultural operations (weeding and earthing up) on a non rainy day in rainfed groundnut.
- **Major Seasonal Crop:** Sugarcane, banana and vegetables.
 - Intercultural operations, application of fertilizers may be continued on a non rainy day in vegetables and sugarcane
 - Due to the forecast of high wind speed for coming days, provide staking for banana in Coimbatore and Kanyakumari.
 - 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:**
 - 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:** Most of the districts except received normal/excess rainfall during last week.
- **Rainfall distribution for last five weeks**

Maharashtra					
State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
Konkan & Goa					
Thane	-93	-85	-85	-52	-36
Rainfall distribution for remaining districts of the state for last five weeks					
Konkan & Goa					
Goa	-73	-88	-48	-9	139
Mumbai	-98	-92	-91	93	-5
Raigad	-91	-86	-85	-26	-10
Ratnagiri	-81	-84	-72	2	42
Sindhudurg	-76	-80	-17	-19	36
Madhya Maharashtra					
Ahmednagar	-99	-99	3	404	-36
Dhule	-100	-82	-99	189	2
Jalgaon	-99	-93	-93	106	-20
Kolhapur	-71	-72	-53	46	59
Nandurbar	-95	-64	-99	-27	55

Nasik	-90	-61	-72	225	32
Pune	-94	-91	-75	207	-47
Sangli	-92	-77	-32	270	-25
Satara	-84	-65	-36	224	0
Solapur	-100	-99	-39	479	28
Marathwada					
Aurangabad	-99	-90	-88	163	-6
Beed	-100	-96	-69	261	-12
Jalna	-100	-88	-93	253	13
Latur	-99	-81	-90	137	-24
Nanded	-100	-81	-91	73	-34
Usmanabad	-100	-100	-34	272	-51
Parbhani	-100	-85	-47	159	15
Vidarbha					
Akola	-100	-70	-99	239	11
Amraoti	-100	-93	-97	89	-13
Bhandara	-93	-68	-50	-25	16
Buldhana	-100	-78	-99	207	27
Chandrapur	-99	-68	-80	11	-1
Gadchiroli	-99	-41	-43	3	20
Gondia	-98	-70	-42	-8	15
Nagpur	-99	-63	-85	31	63
Wardha	-100	-87	-70	90	54
Washim	-100	-96	-98	123	-31
Yeotmal	-100	-79	-84	72	-41

- **Rainfall Forecast:** Rain/thundershowers at most places over Konkan & Goa and Madhya Maharashtra with isolated heavy to very heavy rainfall in Madhya Maharashtra, at many places over Marathwada during next 48 hours and decrease thereafter with isolated heavy rain. Rain/thundershowers at a few places over Vidarbha during next 48 hours and increase thereafter.
- **Major Kharif Crops:** Rice, ragi, cotton, Vegetables, Pulses, bajra, groundnut, tur, horse gram, soybean, jowar
- **Crop Stage:** Rice(tillering in Konkan, Kolhapur, Nashik & Pune divisions) and other *kharif* crops(vegetative/flowering), Irrigated cotton(floral bud formation/flowering) and early sown green gram & black gram (pod formation/pod maturity)
- **Crop Condition:** Good
- **Advisory:** As most of the districts of the State received significant rain during last 4-5 days and rainfall is likely at most places over Konkan, Madhya Maharashtra, at many places over Marathwada & at a few places over Vidarbha during next 48 hours and increase thereafter, postpone irrigation to the standing crops and weeding, intercultural operations and top dressing of fertilizers to the standing crops may be carried out after current spells of rain.
 - **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Apply second dose of nitrogenous fertilizers to *kharif* rice in Konkan, Kolhapur, Nashik & Pune divisions after current spells of rain.
 - Spray 2 % Urea in soyabean at flowering stage.
 - Apply final dose of Nitrogen @ 50 kg Urea /acre to cotton after 45 to 60 days from sowing. Also spray 2 % DAPS for boll development.
 - 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 –
 - blast in cotton in central vidarbha zone & sap sucking pests in Central Maharashtra plateau zone. Spray copper oxy chloride @ 25 gm + Streptocyclin @ 1 gm in 10 liters of water against blast and spray Dimethoate 30 % @ 10 ml in 10 liters of water against sap sucking pests.
 - blue beetle and leaf folding caterpillar & blast in *kharif* paddy. For control of blue beetle and leaf folding caterpillar, spray Carbaryl powder @ 2gm / lit of water with 1 ml sticker and for control of

blast disease in transplanted rice field, spraying of Carbendazim @ 1gm / liter or copper-oxy-chloride @ 2.5gm/liter of water with 1 ml. sticker may be done.

- There is attack of green semilooper in soyabean in Amravati and Nagpur division, spray Endosulfan 35% @17ml per 10 liters of water. There is also attack of girdle beetle pests in Yavatmal district. Dimethoate 30 % @ 10 ml in 10 liters of water.
- Undertake spraying after current spells of rain.

Gujarat

- **Realised Rainfall:** Most of the districts of the state received excess rainfall.
- **Rainfall distribution for last five weeks**

State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
Week by week rainfall distribution for the state for last five weeks					
Gujarat Region					
Ahmedabad	-100	**	-99	-99	124
Anand	-99	**	-94	-78	73
Banaskantha	-99	**	-99	-100	71
Baroda	-99	**	-96	-96	65
Broach	-99	**	-97	-67	37
Dahod	-99	**	-86	-70	22
Dangs,	-98	**	-86	-59	-6
DNH & Daman	-97	**	-93	32	-21
Gandhinagar	-99	**	-96	-99	111
Kheda	-99	**	-72	-95	118
Mehsana	-99	**	-97	-100	172
Narmada	-99	**	-99	-59	69
Navsari	-95	**	-83	-68	11
Panchmahal	-99	**	-87	-91	87
Patan	-100	**	-100	-100	225
Sabarkantha	-99	**	-98	-94	221
Surat	-96	**	-92	-14	103
Valsad	-95	**	-95	-19	-3
Saurashtra, Kutch & Diu region					
Amreli	-100	**	-100	-100	227
Bhavnagar	-96	**	-91	-99	26
Diu	-99	**	**	-100	**
Jamnagar	-100	**	-84	-99	354
Junagarh	-99	**	-94	-100	104
Kutch	-99	**	-90	-95	391
Porbandara	-100	**	-92	-100	358
Rajkot	-100	**	-88	-100	169
Surendranagar	-100	**	-95	-100	112

- **Rainfall Forecast:** Rain/thundershowers at many places over Gujarat region during next 48 hours and decrease thereafter. Rain/thundershowers at a few places over the rest region.
- **Major Kharif Crops:** Rice, castor, pigeon pea, cotton, groundnut, bajra, sesamum, cluster bean, pulses
- **Crop Stage:** Rice(tillering), maize, groundnut, bajra, cotton(vegetative/flowering)
- **Crop Condition:** Crop condition is satisfactory
- **Advisory:** Continue sowing of castor, tur
- As there was significant rainfall during last week in the State, postpone irrigation to the crops.
- **Major Seasonal Crop:** Fruit crops, Sugarcane and vegetables
 - Undertake intercultural operation and application of fertilizer and plant protection measures to the early sown standing crops after current spells of rain in Gujarat region and on a non rainy day in Saurashtra & Kutch..
 - Undertake planting of different fruit crops like mango, sapota, pomegranate, lemon, guava, custard apple etc.

- Farmers are advised for sowing of fodder sorghum.
- Complete sowing of late castor and transplanting of tobacco.
- **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
 - Spary fungicides on a non rainy day in Saurashtra & Kutch region and after current spells of rain Gujarat region.

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Realised Rainfall:** The state received normal/excess rainfall except few districts like Katni, Shahdol, Sidhi, Rewa, Satna, and Umaria of East Madhya Pradesh and Khandwa, Khargone, Morena, Sheopur Kalani districts of West Madhya Pradesh received normal/excess rainfall during last week.
- **Rainfall distribution for last 5 weeks**

State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					
East Madhya Pradesh					
Katni	-100	-76	-21	-84	-51
Shahdol	-100	-77	-68	-39	-61
Sidhi	-100	-99	-26	-40	-39
West Madhya Pradesh					
Khandwa	-100	-96	-92	-33	-42
Khargone	-98	-94	-82	-25	-38
2 weeks continuously deficient to no rain					
East Madhya Pradesh					
Rewa	-100	-61	-7	-92	-32
Satna	-100	-96	92	-90	-54
West Madhya Pradesh					
Morena	-100	-87	162	-71	-33
Sheopur Kalani	-100	-55	21	-100	-44
Distribution of rainfall for remaining districts of the state for last five weeks					
East Madhya Pradesh					
Balaghat	-95	-48	-56	0	30
Chhatarpur	-100	-89	43	-96	-18
Chindwara	-100	-96	-84	-11	80
Damoh	-100	-39	-72	-80	-16
Dindori	-100	-78	-38	-57	10
Jabalpur	-100	13	-73	-69	42
Mandla	-100	-63	-41	-62	104
Narsingpur	-100	-22	-55	-79	92
Panna	-100	-92	173	-96	-10
Sagar	-100	25	-40	-77	40
Seoni	-100	-49	-55	-34	17
Tikamgarh	-100	-83	50	-96	36
Umaria	-100	-88	-73	2	-57
West Madhya Pradesh					
Badwani	-100	-86	-100	1	14
Betul	-100	-98	-87	35	22
Bhind	-97	-75	58	-91	19
Bhopal	-100	-63	-85	-98	22
Datia	-98	-86	39	-25	8
Dewas	-99	-65	-74	-56	49
Dhar	-99	-80	-82	8	-13
Guna	-100	-20	-9	-74	11

Gwalior	-96	-91	-25	-90	-8
Harda	-100	-100	-81	-59	30
Hosangabad	-99	-88	22	-44	44
Indore	-99	-96	-75	-75	43
Jhabua	-97	-94	-81	-75	23
Mandsaur	-99	-54	-54	-89	49
Neemuch	-100	-91	12	-89	75
Raisen	-99	-56	-55	-69	78
Rajgarh	-100	-92	-65	-89	-1
Ratlam	-99	-68	-24	-57	57
Sehore	-99	-88	-44	-71	30
Shajapur	-100	-67	-57	-83	40
Shivpuri	-100	-48	53	-33	55
Ujjain	-99	-75	-63	-71	54
Vidisha	-100	-41	-5	-67	55

- **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 and after 25-30 days of sowing.
- 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.
 - 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:** 7 districts of the state received normal/excess rainfall.
- **Rainfall distribution for last 5 weeks**

State/Districts	05.08.09	12.08.09	19.08.09	26.08.09	02.09.09
More than 3 weeks continuously deficient to no rain					

Surguja	-95	-57	-49	-63	-43
3 weeks continuously deficient to no rain					
Dhamtari	-100	23	-96	-38	-33
2 weeks continuously deficient to no rain					
Koriya	-99	-63	75	-41	-32
Distribution of rainfall for remaining districts of the state for last five weeks					
Bastar	-96	-47	-65	93	17
Bilaspur	-97	24	-12	48	-67
Dantewara	-87	-69	-80	-60	24
Durg	-99	-26	-53	34	-22
Janjgir	-100	-42	-72	53	20
Jashpurnagar	-70	-9	-16	18	-8
Kanker	-100	-41	-30	-12	5
Korba	-98	-21	-63	-6	-11
Kowardna	-100	42	-69	23	20
Mahasumund	-100	14	-74	-7	-37
Raigarh	-99	-55	-56	-11	-36
Raipur	-97	-4	-51	51	-37
Rajandgaon	-99	-43	-68	-16	-43

- **Rainfall Forecast:** Rain/thundershowers at a few places over the state during next 48 hours and increase thereafter.
- **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 after spells of rain.
- **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. 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 after spells of rain.
- **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.
- 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 after spells of rain.