

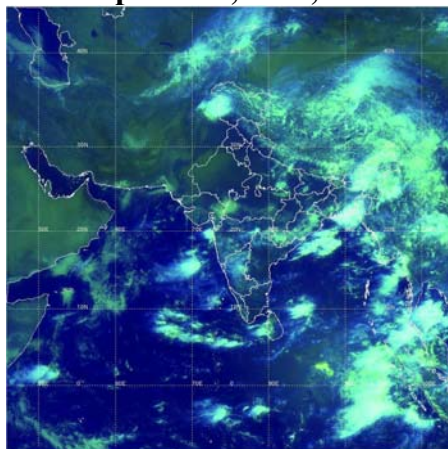


National Agromet Advisory Bulletin

Thursday, 4th September, 2008

(For the period 4th to 8th September, 2008)

5th September, 2008, 5 UTC



Flood situation in Bihar due to breaching of embankment of Kosi river is still persisting. The severely affected districts are Madhepura, Araria, Purnea, Katihar, Khagaria, Supaul, and Saharsa and about 60-70% area of the standing crops like jute, rice and sugarcane were submerged.

The rising level of rivers with continuous rain caused flood situation in Assam. As many as one million people in over 1300 villages of 16 districts have been affected badly with this flood which covers about 2,69,609 hectares of land and thousands hectares of standing crops especially *Sa//* rice and jute have been destroyed. Kamrup, Dhubri, Goalpara, Dibrugarh, Sonitpur, Nalbari, Barpeta, Lakhimpur, Dhemaji, Morigaon, Nogaon and Dibrugarh are the worst affected districts in the current wave of flood.

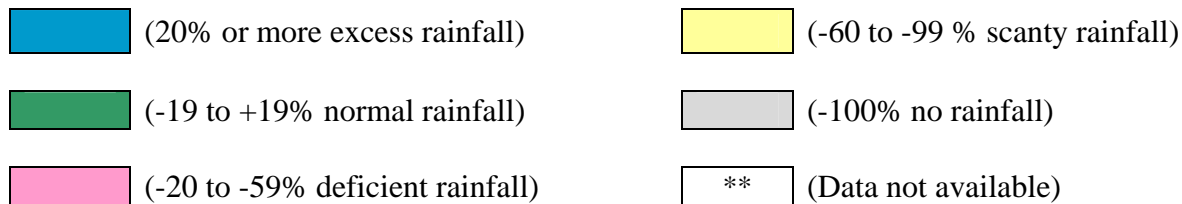


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National Agrometeorological Advisory Service Centre,
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India Meteorological Department, Shivajinagar, Pune.

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

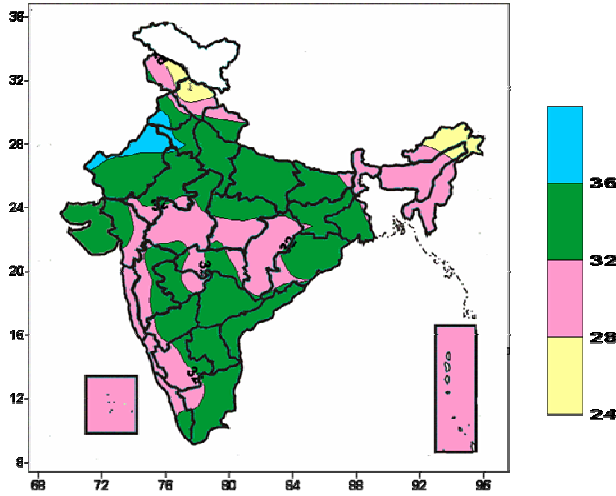
Comparison of weekly rainfall distribution (in % dep.) in different Met. Sub-divisions during past 5 weeks											
Sub-division	Cumulative Rainfall (% Dep.) for the period										
	6 th Aug.	13 th Aug.	20 th Aug.	27 th Aug.	3 rd Sep.	Sub-division	6 th Aug.	13 th Aug.	20 th Aug.	27 th Aug.	3 rd Sep.
A & N Islands	104	26	-55	0	-46	West M. P.	-7	8	-78	-58	-94
Arunachal Pradesh	14	25	20	-10	61	East M. P.	4	3	-50	-63	-71
Assam and Meghalaya	-19	0	15	-15	121	Gujarat region	56	172	-32	-46	-91
NNMT	62	-7	-23	-16	26	Saurashtra & Kutch	35	24	-49	-68	-94
SH West Bengal & Sikkim	14	-3	73	-3	143	Konkan and Goa	8	182	-25	-71	-81
Gangetic West Bengal	-62	13	21	-77	-1	Madhya Maharashtra	-4	179	-40	-54	91
Orissa	-19	64	9	6	-49	Marathwada	-3	0	-79	-62	10
Jharkhand	-73	18	49	-62	-54	Vidarbha	60	-5	-74	-49	-57
Bihar	-74	19	101	-59	45	Chhattisgarh	-16	3	-4	-49	-44
East Uttar Pradesh	-78	-10	90	-49	-74	Coastal A. P.	99	146	47	-17	-71
West Uttar Pradesh	-27	-48	59	-57	-89	Telangana	125	189	-11	-42	-65
Uttaranchal	-2	-14	19	06	-78	Rayalseema	-17	7	0	46	89
Haryana, Chandigarh and Delhi	37	38	9	-19	-86	TamilNadu & Pondicherry	-37	-29	148	75	49
Punjab	53	73	92	-83	-53	Coastal Karnataka	-35	141	-9	-90	-62
Himachal Pradesh	-13	-26	48	-35	-73	N. I. Karnataka	6	142	-63	-51	91
J & K	55	-14	21	-1	-67	S. I. Karnataka	-14	188	-2	2	281
West Rajasthan	314	23	3	-19	-99	Kerala	-40	61	-57	-78	70
East Rajasthan	43	-9	-55	-69	-89	Lakshadweep	-78	-45	4	-23	295

The sub divisions like Jharkhand, Uttar Pradesh, Himachal Pradesh, East Rajasthan, Madhya Pradesh, Gujarat, Konkon & Goa, Vidarbha, Coastal Karnataka, Kerala and Lakshadweep received scanty / deficient rain in at least 3 out of last 5 weeks. Other subdivisions received almost normal distribution of rain during this period.



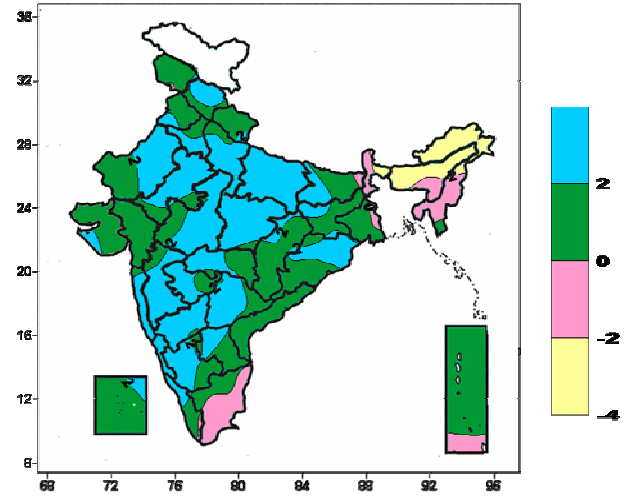
Contour maps for the week ending 03.09.08

Actual Mean Maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 03.09.08



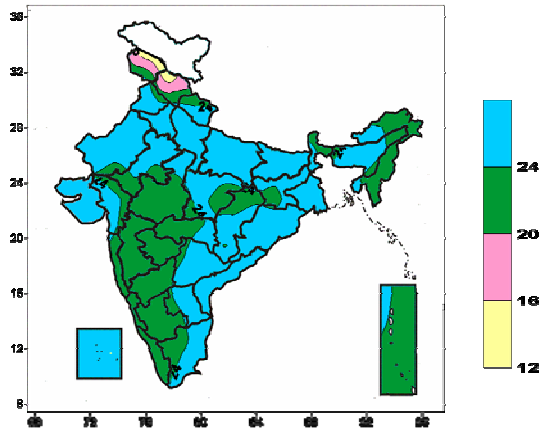
Actual Mean Maximum Temperature ranges between 36 to 40°C in some parts of Punjab, Haryana, West Rajasthan. 28 to 32°C over some parts of Bihar, Sub Himalayan West Bengal, Orissa, Vidarbha, Marathwada, parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Kerala, Karnataka, Madhya Maharashtra, Interior Karnataka and Arunachal Pradesh and most parts of North East India, Central India, Konkan & Goa and coastal Karnataka and Lakshadweep, Andaman Nicobar Island. 24 to 28°C in some parts of Jammu & Kashmir, Himachal Pradesh and North East India and 32 to 36°C in remaining part of the country.

Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 03.09.08



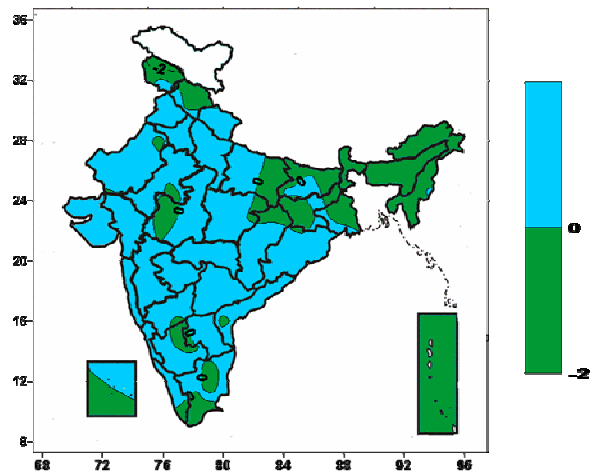
Maximum Temperature anomaly ranges between 2 to 4°C some parts of Punjab, Chhattisgarh, South Saurashtra, Jharkhand, Haryana, Marathwada, Vidarbha, Orissa, Telangana, Rayalaseema and most parts of Rajasthan, Uttar Pradesh, Madhya Pradesh, Maharashtra (except Vidarbha), Karnataka, -2 to 0°C in some parts of West Bengal, Tamil Nadu, Assam, NMMT and Andaman Nicobar Island, -4 to -2°C in entire parts of Arunachal Pradesh, some parts of Assam, Sub Himalayan West Bengal and 0 to 2°C in remaining parts of the country.

Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 03.09.08



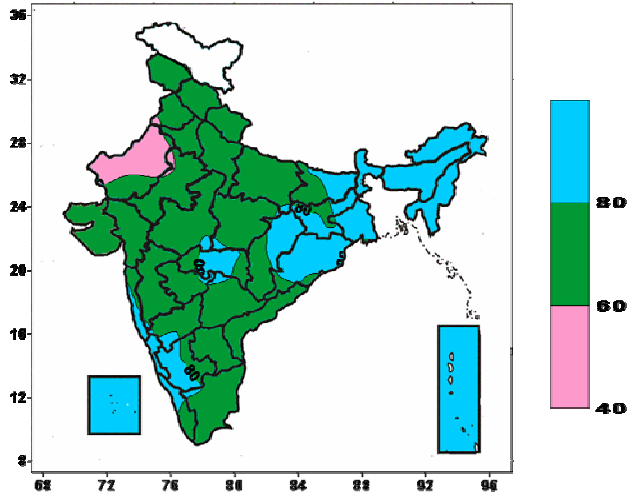
Actual Mean Minimum Temperature ranges between 20 to 24°C in some parts of North West India, Sub-Himalayan West Bengal, Gujarat, Rajasthan, North Eastern states, most parts of Maharashtra, West Madhya Pradesh, Kerala, Karnataka, Andaman Nicobar Island, 12 to 16°C in some parts of Jammu & Kashmir and Himachal Pradesh and 24 to 28°C in remaining parts of the country.

Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 03.09.08



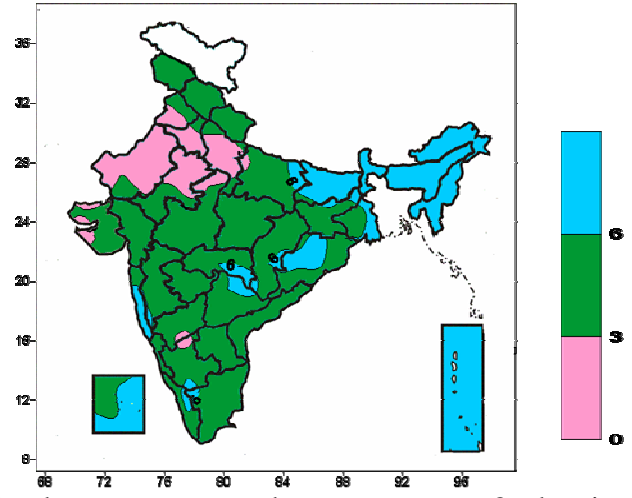
Minimum Temperature anomaly ranges between -2 to 0°C over some parts of West Madhya Pradesh, south India, Lakshadweep, most parts of east and North East India, Andaman & Nicobar islands and 0 to 2°C over remaining parts of the country.

Relative Humidity (%) over India for the week ending 03.09.08



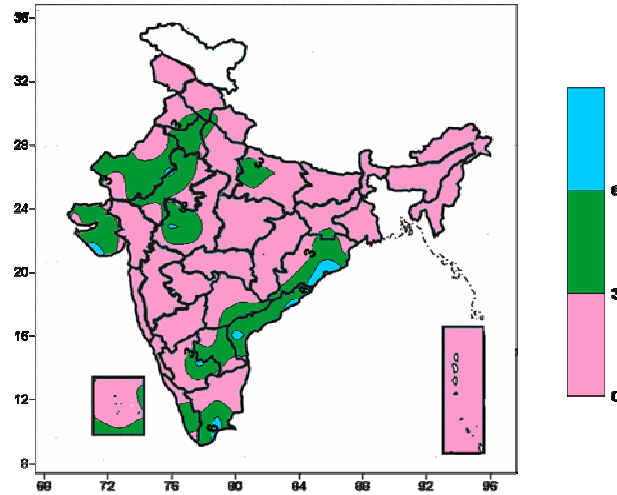
Relative humidity was ranges above 80% in some parts of Interior Karnataka, Chattisgarh, most parts of North Eastern states, East India, Konkan & Goa, Coastal Karnataka Lakshadweep, Andaman & Nicobar Island, 40 to 60% some parts of West Rajasthan, Punjab and East Rajasthan and 60 to 80% in remaining part of the country.

Cloud amount (okta) over India for the week ending 03.09.08



Cloud amount ranges between 6 upto 8 okta in some parts of East Uttar Pradesh, Vidarbha and Telangana and Tamil Nadu, South interior Karnataka, Kerala, Orissa and Lakshadweep and most parts of Bihar, West Bengal, North Eastern states, Andaman & Nicobar Island, 0 to 3 okta in some parts of East Uttar Pradesh, Saurashtra, Interior Karnataka, North West Madhya Pradesh, most parts of Punjab, Haryana, West Uttar Pradesh, Rajasthan 3 to 6 okta in remaining part of the country.




Wind speed (knots) over India for the week ending 03.09.08

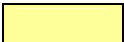




Wind speed ranges between 6 to 9 knots in some parts of Orissa, Gujarat, Coastal Andhra Pradesh and Tamil Nadu. 3 to 6 knots in some parts of Punjab, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan, Saurashtra & Kutch, West Madhya Pradesh, Kerala, Tamil Nadu, Lakshadweep, Andhra Pradesh, Haryana and 0 to 3 knots in remaining parts of the country.

Districts experiencing stress condition

State	Most Stress ***	13/08/08	20/08/08	20/08/08	27/08/08	03/09/08
Andhra Pradesh	Adilabad	48	-75	-75	-77	-43
	Karimnagar	153	-67	-67	-59	-77
	Medak	381	-53	-53	-39	-39
Madhya Pradesh	Balaghat	91	-91	-66	-54	-65
	Chindwara	1	-55	-83	-86	-35
	Damoh	-32	-25	-83	-76	-53
	Dindori	22	-96	-62	-64	-94
	Jabalpur	89	-100	-100	-80	-99
	Narsingpur	66	-100	-86	-21	-87
	Sagar	41	-91	-97	-74	-79
	Seoni	44	-100	-88	-81	-72
	Sidhi	**	-36	-22	-77	-70
	Badwani	-79	**	-84	-100	-70
	Betul	-33	-66	-88	-41	-88
	Guna	8	-100	-88	-81	-98
	Harda	-1	-100	-90	-100	-100
	Hosangabad	75	-97	-93	-88	-85
	Khandwa	-4	-81	-85	-60	-96
	Khargone	-72	-67	-86	-49	-80
	Mandsaur	-6	-71	-88	-61	-96
	Raisen	65	-79	-85	-53	-94
	Rajgarh	-25	-53	-89	-63	-100
	Ratlam	-46	-35	-89	-29	-100
	Sehore	-5	-100	-97	-68	-99
	Sheopur Kalani	99	-82	-88	-52	-100
	Shivpuri	34	-26	-26	-83	-96
	Ujjain	-58	-54	-88	-51	-99
	Vidisha	-20	-100	-71	-92	-99
Rajasthan	Baran	27	-45	-84	-69	-99
	Bhilwara	33	-31	-94	-77	-94
	Bundi	7	-58	-72	-71	-90
	Dausa	83	-51	-40	-48	-100
	Jaipur	33	-36	-55	-96	-100
	Jhalawar	-1	-30	-95	-47	-100
	Karauli	77	-55	-20	-31	-100
	Kota	130	-65	-83	-82	-99
	Rajsamand	77	-28	-89	-70	-100
	Sawai Madhopur	60	-73	-87	-92	-100
	Sikar	190	-58	-76	-99	-100
	Sirohi	78	-30	-99	-92	-100
	Bikaner	369	-26	-79	-100	-100
Jodhpur	319	-58	-100	-84	-100	

 (20% or more excess rainfall)
 (-19 to +19% normal rainfall)
 (-20 to -59% deficient rainfall)

 (-60 to -99 % scanty rainfall)
 (-100% no rainfall)
 ** (Data not available)

Chattisgarh	Kanker	5	-38	-75	-75	-90
	Koriya	-98	-24	-77	-74	-86
	Rajandgaon	48	-34	-39	-75	-71
Punjab	Fatehgarh Saheb	-83	-56	-23	-100	-100
Haryana	Kurukshetra	-73	-31	-31	-100	-86
	Panipat	-59	-45	-36	-100	-33
	Rewari	19	-21	-53	-100	-100
Himachal Pradesh	Chamba	-61	-73	-35	-71	-100
Maharashtra	Jalgaon	-42	-33	-64	-67	-55
	Parbhani	-38	-33	-52	-67	-53
	Washim	-38	-31	-97	-44	-24
Uttar Pradesh	Unnao	-99	-100	-99	-77	-94
	Firozabad	-100	-90	**	-100	-100
	Jalaun	-67	-38	-29	-67	-91
	Jhansi	84	-68	-38	-96	-63
	Meerut	-96	-100	-77	-57	-93
Uttaranchal	Pithorgarh	-65	-52	-81	-47	-79
	Rudraprayag	-60	-29	-31	-62	-52
Bihar	Supual	-98	-61	-71	-100	-24

State	More Stress**	06/08/08	13/08/08	20/08/08	27/08/08	03/09/08
Gujarat	Ahmedabad	154	35	-45	-67	-95
	Anand	53	98	-62	-82	-80
	Baroda	4	170	-70	-52	-88
	Dahod	-17	99	-61	-31	-94
	Kheda	39	178	-57	-65	-90
	Narmada	12	135	-73	-77	-92
	Navsari	77	355	-43	-78	-80
	Panchmahal	-18	118	-58	-41	-99
	Surat	52	191	-74	-60	-89
	Diu	-26	242	-94	-81	-100
	Jamnagar	-38	0	-22	-100	-98
	Junagarh	-39	43	-82	-99	-100
	Kutch	71	46	-53	-100	-99
	Porbandara	-30	22	-90	-100	-100
Kerala	Kannur	-92	199	-42	-92	-74
	Tikamgarh	12	264	-41	-55	-94
Madhya Pradesh	Bhopal	6	27	-97	-79	-99
	Dewas	-24	59	-88	-40	-96
	Dhar	-79	53	-82	-65	-89
	Gwalior	19	-12	-39	-30	-99
	Jhabua	-65	61	-84	-47	-98
Orissa	Balasore	-56	**	-26	-85	-20
	Jajpur	-55	**	-36	-29	-74
	Malkangiri	3	**	-56	-87	-96
Rajasthan	Ajmer	162	95	-96	-98	-100
	Alwar	7	-9	-53	-80	-100
	Banswara	-53	5	-96	-70	-91
	Chittorgarh	37	105	-97	-51	-100

	Dungarpur	-54	22	-96	-45	-100
	Jhunjhunu	184	-15	-68	-100	-93
	Tonk	74	-11	-79	-54	-86
	Udaipur	22	79	-99	-30	-98
	Barmer	50	62	-100	-100	-100
	Churu	271	83	-64	-100	-100
	Hanumangarh	394	0	-79	-100	-100
	Jaisalmer	1014	13	-100	-100	-100
	Jalore	55	64	-100	-60	-100
	Nagaur	418	1	-76	-83	-100
	Pali	133	84	-100	-93	-100
	Sri Ganganagar	546	47	-100	-82	-97
Chattisgarh	Bastar	2	-6	-24	-59	-33
	Dantewara	52	12	-85	-85	-90
	Durg	74	-9	-57	-69	-37
Haryana	Faridabad	-83	4	-77	-45	-98
	Hissar	-52	46	-54	-100	-100
	Katihah	76	-13	-34	-100	-70
	Mahendragarh	264	-4	-25	-100	-100
	Rohtak	-80	7	-31	-100	-100
Maharashtra	Mumbai	-24	107	-36	-38	-97
	Raigad	-11	152	-25	-75	-69
	Ratnagiri	8	110	-40	-68	-88
	Sindhudurg	36	252	-28	-78	-78
	Thane	5	210	-34	-62	-89
	Dhule	-66	9	-85	-21	-75
	Nandurbar	-63	263	-67	-81	-79
	Latur	34	17	-93	-74	-35
	Nanded	-45	18	-95	-84	-72
	Akola	-49	11	-76	-61	-21
	Amraoti	-45	-16	-71	-34	-51
	Bhandara	42	-7	-63	-59	-43
	Buldhana	-50	-3	-80	-36	-20
	Chandrapur	169	16	-78	-61	-55
	Gadchiroli	132	-11	-71	-44	-55
	Gondia	104	11	-67	-69	-68
	Nagpur	23	-4	-77	-42	-81
	Wardha	49	-16	-73	-69	-76
	Yeotmal	34	-5	-70	-42	-80
Punjab	Faridkot	-100	304	-100	-100	-100
	Muktesar	360	92	-100	-100	-100
Arunachal Pradesh	Lower Subansirt	-39	29	-71	-89	-21
Uttar Pradesh	Deoria	**	**	-74	-100	-100
	Muzzaffarnagar	**	**	-100	-39	-100

State	Stress *	13/08/08	20/08/08	20/08/08	27/08/08	03/09/08
Andhra Pradesh	East Godavari	88	67	67	-44	-81
	Krishna	364	22	22	-38	-83
	Sirkakulam	78	29	29	-55	-48
	West Godavari	147	94	94	-24	-86

	Khammam	198	114	114	-40	-81
	Rangareddy	360	-18	-18	-50	-59
	Warangal	238	53	53	-23	-77
Assam	Morigaon	-37	-11	-6	-68	-35
Gujarat	Banaskantha	143	163	95	-67	-100
	Dangs,	67	333	62	-70	-67
	DNH & Daman	39	279	-19	-80	-83
	Gandhinagar	93	265	25	-38	-100
	Patan	218	89	-17	-49	-100
	Valsad	49	343	-3	-84	-89
	Rajkot	8	78	8	-84	-79
	Surendranagar	90	92	-12	-38	-93
Bihar	Aurangabad	-95	91	30	-82	-97
	Bhojpur	-98	7	89	-73	-39
	Buxar	-99	216	87	-72	-99
	Gaya	-92	-27	55	-59	-76
	Rohtas	-96	97	18	-79	-100
	Siwan	-74	-20	154	-40	-59
	Vaishali	-98	-92	95	-41	-64
Jharkhand	Bokaro	-80	26	77	-73	-63
	Dhanbad	-80	-9	9	-62	-32
	Giridih	-42	**	69	-88	-38
	Palamau	-67	72	62	-61	-100
	Santhal Parganas	-77	23	-4	-84	-22
Karnataka	Dakshin Kannada	-34	-13	-14	-91	-61
	Udupi	-50	-17	3	-88	-63
	Uttar Kannada	-29	-16	-11	-91	-61
Kerala	Kasaragod	-76	-100	-5	-93	-89
Madhya Pradesh	Chhatarpur	-6	-100	9	-68	-88
	Katni	-60	**	-6	-96	-30
	Panna	-98	**	18	-85	-97
	Rewa	-87	-100	58	-92	-49
	Satna	-93	-100	75	-99	-81
	Datia	-49	-63	-9	-94	-90
	Morena	1	-19	-18	-57	-70
Orissa	Bhadrak	-54	**	-9	-43	-83
	Gajapati	-2	**	15	-72	-73
	Kendrapara	-77	**	-3	-50	-86
	Nawapara	-15	**	-7	-34	-31
	Rayagada	18	**	-7	-73	-50
	Sundargarh	-41	**	55	-26	-82
Tamil Nadu & Pondicherry	Perambalur	**	-100	**	-22	-49
	Pondicherry	28	-94	**	-89	-77
	Tiruvallur	-85	-65	**	-44	-56
	Tiruvannamalai	-32	-93	**	-67	-73
	Villupuram	-55	-92	**	-66	-86
West Bengal	Murshidabad	-95	-65	44	-86	-79
	Purulia	-47	-18	49	-83	-52
	Malda	-13	20	100	-70	-45

Rajasthan	Dholpur	5	9	-6	-89	-88
	Bharatpur	-38	-6	33	-84	-100
Chattisgarh	Korba	-39	-1	84	-55	-75
	Raipur	-6	-7	-16	-53	-30
	Surguja	-93	2	26	-38	-22
Haryana	Ambala	174	109	40	-85	-71
	Bhiwani	311	232	55	-100	-100
	Chandigarh	361	40	-9	-75	-68
	Delhi	-26	20	57	-97	-71
	Fatehabad	-59	-28	343	-100	-100
	Gurgaon	-80	-4	5	-99	-100
	Jhajar	102	169	-9	-88	-100
	Jind	-54	37	10	-91	-69
	Karnal	-25	-18	25	-96	-83
	Sirsa	35	93	-6	-100	-100
	Sonepat	-17	96	90	-100	-29
	Yamunanagar	127	-43	-8	-72	-96
Himachal Pradesh	Bilaspur	-21	82	123	-71	-38
	Hamirpur	10	20	38	-76	-52
	Kangra	18	-49	26	-43	-49
	Lahaul and Spiti	-73	-52	58	-59	-100
	Sirmaur	-21	-40	12	-52	-98
	Solan	-23	-6	76	-55	-23
Maharashtra	Goa	29	305	58	-87	-74
Punjab	Amritsar	57	339	7	-100	-39
	Gurdaspur	12	3	133	-83	-88
	Hoshiarpur	138	77	144	-74	-60
	Jalandhar	117	33	247	-90	-36
	Nawashahar	482	-13	338	-100	-91
	Patiala	40	250	26	-98	-78
	Ropar	254	-9	156	-56	-43
	Sangrur	-86	-62	26	-100	-74
Uttar Pradesh	Allahabad	-92	143	48	-92	-94
	Azamgarh	-100	-69	48	-100	-100
	Ballia	-90	134	127	-55	-27
	Balrampur	-94	-47	135	-85	-76
	Banda	-84	-24	11	-83	-83
	Barabanki	-88	24	121	-63	-93
	Farrukhabad	-45	-54	95	-95	-91
	Gorakhpur	-93	40	182	-49	-43
	Hardoi	-85	-89	176	-29	-100
	Jaunpur	-99	107	165	-28	-98
	Kanpur City	-62	-47	191	-74	-65
	Pratapgarh	-44	-25	-4	-99	-96
	RaiBareilly	-96	-6	127	-31	-67
	Shrawasti	-44	-51	131	-88	-100
	Sitapur	-64	91	216	-55	-85
	Varanasi	-98	-13	412	-67	-82
	Agra	28	-37	77	-77	-100
	Aligarh	-95	-62	230	-49	-100

	Auraiya	-60	-68	145	-35	-100
	Bareilly	2	-49	187	-63	-90
	Bijnor	**	-100	-17	-83	-100
	Bulandsahar	10	6	220	-84	-38
	Etawah	-72	-50	36	-28	-100
	Hamirpur	-43	-47	15	-31	-83
	Mathura	196	72	79	-31	-100
	Moradabad	66	-21	44	-57	-100
	Shahjahanpur	-85	-12	221	-21	-100
Uttrakhand	Dehradun	72	31	48	-26	-67

*** Most stress (more than 3 weeks continuously deficient to no rain)

**More stress (3 weeks continuously deficient to no rain)

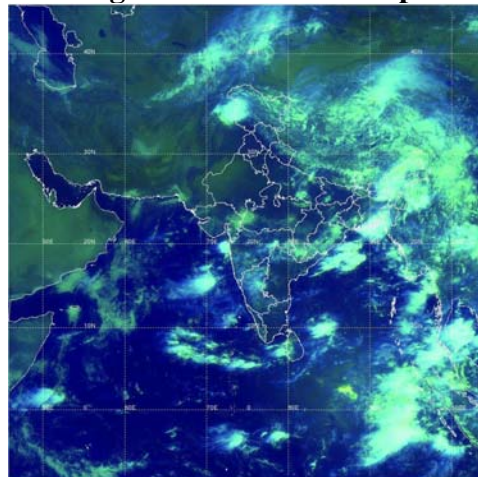
*Stress (2 weeks continuously deficient to no rain)

Districtwise Rainfall Distribution for remaining districts of the country is given in Annexure I.

Chief Synoptic Feature (Based on 1430 hours IST observations of 4th September, 2008)

- The axis of monsoon trough passes through Ferozepur, Roorkee, Gondia, Gaya, Midnapore and thence southeastwards to northeast Bay of Bengal.
- Current meteorological analysis and numerical weather prediction models suggest that fairly widespread rainfall activity with isolated heavy to very heavy rainfall is likely over northeastern States and sub-Himalayan West Bengal & Sikkim during next 48 hours.
- Morning's cyclonic circulation over southeast Arabian Sea and neighbourhood persists. Under its influence fairly widespread rainfall activity with isolated heavy to very heavy falls is likely over Coastal Karnataka, Kerala and Lakshadweep during next 3-4 days.
- Numerical weather prediction models indicate that a cyclonic circulation is likely to form over west central Bay of Bengal around 7th September and a mid-latitude westerly trough is likely to affect parts of northwest India during 5-7th September.

Satellite image of 5 UTC on 5th September 08



Zone-wise Forecast

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

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Isolated rain/thundershowers are likely over Jammu & Kashmir and Punjab till tomorrow and increase thereafter.
- Isolated rain/thundershowers are likely over Himachal Pradesh, Uttarakhand and north Haryana, Chandigarh during next 48 hours and increase thereafter.
- Isolated rain/thundershowers are likely over the rest region.

Quantitative District Weather Forecast for next five days:

- Light to rather moderate rain will occur over the region.

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

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Rain/thundershowers are likely at many places over West Bengal & Sikkim and coastal Orissa.
- Isolated rain/thundershowers are likely over the rest region.

Quantitative District Weather Forecast for next five days:

- Light rain will occur over Bihar, Jharkhand and light to rather moderate rain will occur over West Bengal, Sikkim and Orissa.

NORTHEAST INDIA [Arunachal Pradesh, NMM & T, Assam, Meghalaya,]

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Rain/thundershowers are likely at many places over Arunachal Pradesh, Assam & Meghalaya for next 48 hours and decrease thereafter.
- Rain/thundershowers are likely at a few places over the rest region.

Quantitative District Weather Forecast for next five days:

- Light to rather moderate rain will occur over the region.

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

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Rain/thundershowers are likely at **many** places over Coastal Karnataka, Kerala and Lakshadweep.
- Isolated rain/thundershowers are likely over the rest region during next 48 hours and increase thereafter.

Quantitative District Weather Forecast for next five days:

- Light to rather moderate rain will occur over the region.

WEST INDIA [GOA, MAHARASHTRA (OTHER THAN VIDARBHA), GUJARAT, RAJASTHAN]

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Rain/thundershowers are likely at a few places over Konkan & Goa, Madhya Maharashtra. Marathwada and Gujarat region.
- **Isolated** rain/thundershowers are likely over north Rajasthan from 6th September.
- Mainly dry Weather is likely over the rest region.

Quantitative District Weather Forecast for next five days:

- Light rain will occur in Gujarat and Rajasthan and light to rather moderate rain will occur in Maharashtra

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

(Forecast valid upto 1430 hours IST of 7th September, 2008)

- Rain/thundershowers are likely at few places over south Chhattisgarh and Vidarbha.
- Isolated rain/thundershowers are likely over south Madhya Pradesh during next 48 hours and increase thereafter.
- Isolated rain/thundershowers are likely over the rest region.

Quantitative District Weather Forecast for next five days:

- Light to rather moderate rain will occur over the region.

Warning :

- Isolated heavy to very heavy rainfall is likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Kerala, Coastal Karnataka and Lakshadweep.

Weather Outlook from 1430 IST of 7th to 1430 IST of 9th September, 2008 (Based on numerical weather products):

- Fairly widespread rainfall activity is likely over Konkan & Goa, Coastal Karnataka, Kerala and Lakshadweep.
- Fairly widespread rainfall activity is also likely over Andhra Pradesh and adjoining east & central India.

Zonewise Agromet Advisories

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

Himachal Pradesh

- **Major standing crops:** Vegetables (vegetative / flowering / fruiting / harvesting), Maize (vegetative / tasseling / silking), Rice (tillering / panicle initiation), Apple (fruit development / maturity), Tea (plucking), new planting of evergreen fruit plants.
- As there was no significant rain during last couple of weeks in most of the districts of the State and rain is likely to occur only at isolated places for next 48 hours, apply irrigation to the standing crops.
- As the weather condition is favourable, undertake intercultural operation in the standing crops.
- It is optimum time for planting of evergreen plants like Mango, litchi, guava, citrus, loquat and amla in Sub-mountain & Low hills Sub tropical zone.

Plant Protection:

- The weather is congenial for spread of fruit rot in tomato, chilli and Shimla mirch. For control apply Rhidomil – MZ fungicide @ 250 g / 100 litre of water at an interval of 10-15 days or Blytox - 50 @ 300 g / 100 litres of water.
- Rice blast is appearing and there is also more chance of infestation as weather condition is conducive. For control, spray Blitox-50 (3 g per litre of water) or Bavistin (1 g per litre of water). Weather is also conducive for infestation of rice hispa. For control, chlorpyrifos 20 EC @ 2.5 ml per litre may be applied if infestation crosses economic threshold level.
- **Animals:** Weather is conducive for spread of foot and mouth disease (FMD) and galgotu in animals. Farmers are advised for vaccination of animals against FMD.
- **Poultry:** As humidity is increasing, replace the poultry houses with fresh litter to avoid wetting and keep the houses clean. Climate is also congenial for attack of Diarhria and cocksedia. Consult the nearby veterinarian under these circumstances.

Uttarakhand

- **Major standing crops:** Sugarcane (vegetative), Maize, groundnut and vegetables (vegetative/flowering), Rice (early vegetative / tillering), Urd (early vegetative).
- As there was insufficient rain in all the districts of the State during last few weeks and rain / thundershowers are likely at isolated places during next 48 hours and increase thereafter, apply irrigation to the crop.
- Application of fertilizers and intercultural operation in early sown crops may be carried out on a non rainy day.
- Maintain 3 – 5 cm of water in rice the field.

Punjab

- **Major standing crops:** Rice (early vegetative/vegetative), Horticultural crops (vegetative), Sugarcane (vegetative), Early sown cotton(late vegetative/squaring stage), maize and groundnut (early vegetative to late vegetative), Sunflower (vegetative/flowering).
- As most of the districts received insufficient rain during last week in most of the districts and rain is likely to occur at isolated places in Punjab till tomorrow and increase thereafter, farmers are advised to apply irrigation and intercultural operations on a non rainy data.
- Farmers are advised to undertake sowing of toria using recommended varieties i.e PBT 37/TL 15 in undulating plain zone comprising of Gurdaspur, Hoshiarpur, Ropar, and Patiala districts utilizing the rainfall during last week and as rainfall is also expected during next three days.

- Farmers are advised to start sowing of desi varieties of radish, peas, potato, palak and late season varieties of cauliflower and planting of fruits crops like sweet orange, lime mango and guava utilizing the rainfall during last week and as rainfall is also expected during next three days.

Haryana

- **Major standing crops:** Rice (early vegetative / tillering), Sugarcane (vegetative), Horticulture crops (vegetative), Sunflower (vegetative/flowering), Early sown cotton (late vegetative/squaring stage), and Bajra (vegetative).
- As most of the districts received insufficient rain during last week and rain is likely to occur at isolated places in the State and increase in rainfall in north Haryana after 48 hours, farmers are advised to apply irrigation and intercultural operation to the crops.
- Farmers are advised to undertake transplanting of brinjal utilizing the rainfall during last two weeks and also rain is likely to occur in the State during next three days.
- Farmers are advised to continue application of top dressing of urea to bajra.
- Farmers are advised to start sowing of desi varieties of radish, peas, potato, palak and late season varieties of cauliflower and planting of fruits crops like sweet orange, lime mango and guava utilizing the rainfall during last week and as rainfall is also expected during next three days.

Delhi

- **Major standing crops:** Maize (cob formation stage), arhar, bajra and fodder sorghum (vegetative / flowering stage), Sugarcane (vegetative stage), *Kharif* rice (tillering / panicle initiation / flowering stage).
- As there was no significant rain during last couple of weeks and there is possibility of only isolated rain for next 3 days over the State, apply irrigation to the standing crops.
- As there is less chance of rain, weather is favourable to undertake intercultural operation to the standing crops.
- As weather is favourable, farmers are advised to apply nitrogen in *kharif* rice and maintain 3 – 5 cm of standing water after 48 hours of application of fertilizer.
- As this is the optimum time, the farmers are advised to prepare land and sow raddish and carrot and also prepare nurseries for tomato. Select varieties from Pusa Deshi, Pusa Rashim etc. for raddish and Pusa Kesar, Pusa Mighali etc. for carrot for sowing.
- As weather will be conducive, farmers are advised to undertake earthing up in sugarcane crop to prevent lodging.

Plant Protection

- There is chance of attack of stem borer and rice bug in rice due to favourable weather condition. Farmers are advised to apply monocrotophos or chloropyriphos or endosulphan @ 0.5 kg a.i. for one hectare of land to control stem borer. To control rice bug apply Parathion @ 25 kg / ha.

Uttar Pradesh

- **Major standing crops:** Summer sugarcane (vegetative), Mango trees (fruit setting), *Kharif* Rice (early vegetative), *Kharif* pulses and maize (early vegetative).
- As there was insufficient rain in most of the districts during last two weeks and rain/thundershowers are likely at isolated places over the State during next three days, apply irrigation to sugarcane and early sown *kharif* crops.
- Undertake intercultural operations, application of fertilizers and pesticides in early sown crops like maize, til and urd.
- Farmers in the remaining areas of Bahraich, Bareilly, Bijnore, Pillibhit, Rampur, Saharanpur and Sharaswati nagar are advised to complete transplanting of rice and also transplantation of seedling in place of rotten seedlings. Topdressing of recommended amount of Nitrogen may be done as per requirement in early transplanted rice.

- Undertake transplanting of brinjal, tomato and chillies (plains) and cauliflower in hilly region. Complete sowing of soyabean utilizing the rainfall received during last week and good amount of rainfall is expected during next 2-3 days.
- **Plant Protection:** Weather conditions are conducive for mild incidences citrus canker in Allahabad, Banda, Barari, Chitrakut, Hamirpur, Jalaun, Jhansi, Lalitpur and Mahoba districts. Monitor the crop and spray Blitox @ 3-4 g/liter of water to control canker.

J & K

- **Major standing crops:** Pulses (vegetative), Rice (milking/dough stage) in Kashmir division.
- As rain/thundershowers is likely at isolated places during next 24 hours and increase thereafter, apply irrigation to the standing crops.
- In Jammu regions, drain out water from maize, bajra and pulses fields under water stagnation condition in low laying areas.
- Undertake sowing of turnip in the nursery in Kashmir divisions as there is a possibility of 40 mm of rainfall during next five days.
- Undertake thinning in carrot in Kashmir division.
- Due to presence of sufficient moisture in the soil and also with a possibility of 48 mm of rainfall during next five days in Jammu division, undertake sowing of toria crop in fallow land. Farmers can go for the sowing of radish (Varieties: Giant snow ball and Pusa synthetic), cabbage (Varieties: Golden arc), knoll khol (Varieties: White Vienna PV).
- Undertake harvesting of crops like maize and fodder crops and vegetable crops like tomato, cucurbit and capsicum in Kashmir division.
- **Plant Protection:** Monitor brinjal, tomato and bhindi crops for phytoplasma in Jammu region. Rogue out the affected plant to prevent further spread.
- Present weather is congenial for blight and leaf spot in tomato and downy mildew in cucurbits. Monitor the crops for the diseases and spray the crop with fixed copper @ 0.3% or diathane Z-78 @0.2% on a non rainy day and at 10-12 days intervals in Jammu region.
- Weather is congenial for mild incidences of fruit fly in guava. Monitor the guava trees and collect and destroy the affected fruits and use pesticide bait on a non rainy day to control the pest.

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

Bihar

- **Standing Crops:** Sugarcane (vegetative), *Kharif* rice (early vegetative / tillering), Maize (vegetative), Pulses(vegetative)
- Flood situation due to breaching of embankment of Kosi river in Bihar is still persisting. The severely affected districts are Madhepura, Araria, Purnea, Katihar, Khagaria, Supaul and Saharsa and about 60 – 70% area of the standing crops like jute, rice and sugarcane were submerged with 3-4 feet water depth.
- Transplanting of over aged photo sensitive rice varieties may be completed utilizing the rainfall during last week and 3-4 seedlings per hill in close spacing may be planted in regions except Pusa and Samastipur region. Farmers in Pusa & Samastipur region can wait for receding of flood water entirely and continue when the conditions become favourable for transplanting.
- Weather is likely to remain favourable for sowing of carrot, cabbage, cauliflower, pigeon pea varieties *sharad* and *Pusa 9*, tobacco varieties P.T.-76, Lichhawi, Vaisahli special and Sona patti nursery in this week in upland areas of north Bihar. If fields are already prepared, sowing of these crops is advised immediately.
- Farmers are advised to prepare nursery beds for sowing of winter tomato, cauliflower and cabbage in south Bihar by taking advantage of realized rainfall during last week.
- As there was sufficient rainfall in most of the districts of the State during last week, postpone irrigation to the standing sugarcane, maize, arhar, til, sunflower and vegetable crops. Arrange for drainage facilities in the early sown crops to avoid water stagnation.

- Mild infestation of stem borer insects is observed in paddy crops in most of the areas of north Bihar. Spray Monocrotophus @ 1.5ml per litre of water to control the pest.
- Due to high temperature and high humidity there may be the chances of attack of stem borer, leaf roller and leaf hopper in rice crop in south Bihar. Monitor the crop and in case of attack, spray Endosulphan 35 EC or Chloropyriphos 20 EC @ 1.5 ml / litre of water and repeat it after 15 days.
- Undertake intercultural operations, spraying and application of fertilizers in rice, maize, vegetables and pulse crops in south bihar alluvial zone and north east alluvial zone.

Jharkhand

- **Major standing crops:** Kharif rice, arhar and Early sown maize (early vegetative).
- As there was no significant rainfall in most of the districts during last week and rain/thundershower are likely at isolated places over the State for the next three days, apply irrigation to early sown maize, arhar, urd and vegetables.
- Farmers are advised to complete preparation of main field and undertake transplanting of *kharif* rice in low lands of remaining areas to be sown as there was good amount of rainfall was received during last few weeks and the rainfall is also expected for the next three days.
- Transplanting of tomato may be continued with varieties like Pusa rubi, Pusa early, selection-12 etc. in Dumka and adjoining districts utilizing the rainfall received during last few weeks and rainfall is also expected for the next three days.
- Undertake intercultural operations, spraying and application of fertilisers in early sown maize, arhar, urd and vegetables.

Orissa

- **Major standing crops:** *Kharif* Rice (proper time for transplanting), Sugarcane (vegetative), Maize, cotton (proper time for sowing of maize and cotton), Early sown crop (early vegetative), Early sown Jute (early vegetative).
- Start sowing of niger and castor in the fallow up lands of East & South Eastern coastal plain zone comprising of Cuttack, Gajapati, Ganjam, Jagatsighpur, Nayagarh, Khurda, Kendrapara, Puri, North Central Plateau zone comprising of Mayurbhanj, Keonjhar and also Bhubaneswar districts as rainfall occurred in these districts during last week and good amount of rainfall is expected during next five weeks. High yielding varieties of niger such as Deomali and IGP-76 and castor such as Aruna, Jyoti, Kranti, S-1 and GC-2 can be sown.
- As rain is likely at many places in coastal Orissa, postpone irrigation to the standing crops in coastal Orissa and as there was insufficient rainfall in most of the districts in interior Orissa during last two weeks and rain is likely at isolated places only, apply irrigation to the crops in interior Orissa.
- Farmers are advised to apply top dressing of fertilizers in transplanted rice and other crops.
- Due to prevailed high rainfall and cloudy conditions in Bargarh, Bolangir, Boudh, Chiplima, Jharsuguda, Sambalpur, and Sonepur, there is possibility of stem borer and gall midge incidence in rice. Apply Carbofuran 3G @ 12 kg/ac.
- There is possibility of occurrence of aphid in maize crop in the prevailing weather in Keonjhar and Mayurbhanj districts and apply 300 ml Metasystox in 200 litre of water per acre as foliar spray.
- There is incidence of leaf folder and case worm in paddy in Western central table land zone. Apply Monocrotophos @ 2ml /litre of water or Chloropyriphos @ 2ml /lit of water.
- Postpone application of fertilizers, spaying and undertaking of weeding in coastal Orissa as rain is likely at many places in the coastal region.

West Bengal

- **Major standing crops:** Sugarcane (vegetative), jute (maturity / harvesting), *Aus* rice (early maturity / maturity), *aman* rice (early vegetative / tillering).
- As most of the districts of West Bengal received rain during last week and rain is also likely to occur at many places over the State, postpone irrigation to the crops. As sub Himalayan West Bengal is also

likely to receive isolated heavy to very heavy rain, arrange for draining out excess water from the fields in this region.

- As the weather condition is favourable, prepare nurseries for early cauliflower. Select improved varieties of cauliflower like Kanwari, Jowhar, Moti, Early Patna etc.
- Undertake cultivation of tomato. Select improved varieties of tomato like Pusa Rubi, Pusa Early, Pusa Ketki, S-20, Roma Super etc. and some leaf curl virus tolerant hybrid varieties like NS-585, NP-5005, INDUM-9502, 9802 etc.
- Undertake sowing and transplanting in Sub Himalayan West Bengal after current spells of rain.

Plant Protection:

- Apply plant protection measures after current spells of rain.
- There is chance of attack of blast in *aman* rice in Red Lateritic zone. For controlling blast farmer friends can spray with carbendazim 50% (Bavistin) @ 1gm per litre of water.
- In the prevailing weather situation, infestations of leaf rot may be seen in cauliflower in New Alluvial Zone. Apply 2.5 gm mancozeb per litre of water to control the attack.
- Sheath blight disease is now becoming severe in *aman* rice in New Alluvial Zone due to favourable weather condition. To prevent the disease apply Carbendazim @ 1 gm or Propiconazole @ 1 ml per litre of water to the standing crop.
- In the prevailing weather situation, infestations of leaf-rot may be enhanced in chrysanthemum in New Alluvial Zone. Apply 1 g Carbendazim and 2 g Mancozeb together per litre of water to control the attack.

Sikkim

- **Major standing crops:** Orange (fruiting/harvesting), large cardamom (capsule development / maturity), ginger (late vegetative), maize (harvesting), rice (active tillering).
- As rain/thundershower are likely at many places over the State along with isolated heavy to very heavy rainfall during next 48 hours, postpone irrigation to orange, large cardamom, ginger and vegetable crops. Arrange for drainage facilities to avoid water stagnation.
- During the tillering stage, drain out excess water due to excess rainfall and maintain water level of 3-4 cm in rice fields in medium and high hills to enable maximum tillering.
- **Plant Protection:** Chirke and foorkey infected large cardamom plants may be destroyed by uprooting / burial at regular intervals in the pits. Regular inspections may be carried out to observe caterpillar/shoot borer/shoot fly incidence if any and may be hand picked and destroyed mechanically. 1% Bordeaux mixture or copper oxychloride @ 3gm/ltr of water may be sprayed to the cardamom plants after spells of rain to protect from fungal diseases.
- Monitor ginger for bacterial wilt in Medium and High hills and collect and destroy the affected plants completely to prevent further spread of the disease.

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

Assam

- **Major standing crops:** Sugarcane (vegetative), arhar (vegetative), early transplanted *sali* rice (early vegetative / tillering), vegetables (sowing / vegetative / flowering / fruiting).
- The rising level of rivers with continuous rain caused flood situation in Assam. As many as one million people in 16 districts have been badly affected. According to reports, over one million people in over 1300 villages of 16 districts have been affected badly with this flood which covers about 2,69,609 hectares of land and thousands hectares of standing crops especially *Sali* rice and jute have been destroyed. Kamrup, Dhubri, Goalpara, Dibrugarh, Sonitpur, Nalbari, Barpeta, Lakhimpur, Dhemaji, Morigaon, Nogaon and Dibrugarh are the worst affected districts in the current wave of flood.
- As rain / thundershowers are likely at many places for next 48 hours along with isolated heavy to very heavy rain over the State, postpone irrigation to the crops. Also arrange for draining out excess water from the field.

- Farmers are advised to collect the *sali* rice seeds of the varieties like Disang, Luit, Kapili, IR –50 and Sonamukhi and to go for direct sowing in flood affected areas after receding of flood water. For one bigha land, 7-8 kg seeds are required.
- In chronically flood-affected areas, aged seedlings of *Sali* rice varieties like Andrew Sali, Monohar Sali, Kmj-1-19- 1 etc. up to 50-60 days may be transplanted up to 15th September. 4-6 seedlings per hill should be transplanted at closer spacing (15X15 cm).
- Undertake land preparation and sowing of other crops after current spells of rain.
- Prepare land and sow cauliflower, raddish, brinjal etc. The varieties of cauliflower like Pusa Ketaki, Pusa Deepali, Early Kuwary etc. can be sown. Select varieties from Pusa Himani, Pusa Deshi etc. for sowing of raddish and Pusa Kranti, JC-1, JC-2 etc. for brinjal.
- This is also proper time for sowing of sesamum, black gram and green gram. Select recommended varieties like Madhabi, Gauri, Binayak, Punjab Til No-1 etc. for sesamum, T-9, T-27, Pant U-19, T-122 etc. for black gram and T-44, Koper Gaon, ML-56, ML-131 for green gram.
- The farmers who have not vaccinated their domestic live stocks like cattle, goat and pigs, should vaccinate against BQ, HS, Foot and mouth disease as well as anthrax disease. They should not be fed with water submerged rotted grasses and fed with anti worm drugs. Poultry birds should be fed with antibiotics and vitamins after consulting veterinary doctors.
- Fisheries should be well protected with nylon nets in view of flood situation.

Arunachal Pradesh

- **Major standing crops:** Ginger (rhizome formation), Vegetables (harvesting), Wet seeded rice (vegetative), Jhum rice (grain formation), Millets (grain formation) and maize (maturity).
- As there was excess rainfall in most of the districts during last week and rain/thundershower are likely at many places along with heavy to very heavy rainfall at isolated places over the State, postpone irrigation to the standing maize (cob formation), millet and ginger crops. Provide adequate drainage facilities in ginger crop to prevent the spread of rhizome rot disease.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, wet seeded rice, jhum rice and millets after current spells of rain.
- Farmers are advised to start land preparation and sowing of winter vegetables after current spells of rain.

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

Andhra Pradesh

- **Major standing crops:** Sugarcane (grand growth), Rice (transplanting/vegetative)

Coastal AP

Plain Land

- Farmers in Krishna, Guntur and Prakasam districts are advised to continue transplanting of rice (BPT 5204).
- Farmers are advised to complete land preparation and sowing of chillies in Guntur and Prakasam districts by utilizing monsoon showers.
- Farmers in Visakappattinam are advised to complete transplanting of rice.
- **Plant Protection:** Due to water logging in Krishna district, attack of white fly, red rot and wilt is anticipated in sugarcane. Farmers are advised to monitor the crop and undertake plant protection measures to control the pests and diseases.
- Attack of cut worm and stem borer is reported in Swarna varieties of rice in Srikakulam and Vijayanagaram districts. Attack of blast is also reported. Farmers are advised to undertake plant protection measures to control the pests and diseases.
- Damping off disease is reported in chillies. Spray Copper oxy chloride @ 2 g/litre of water to control the disease.
- Monitor pulse crops for tobacco caterpillar and bacterial leaf spot. Spray Chloropyriphos @ 2.5 ml/l or Acephate @ 1.0 g/l of water to control the larvae at early stage. For the control of the grown up

larvae, undertake poison baiting with rice bran, jaggery and Chlorpyrifos/Monocrotophos @10:1:1 ratio. For the control of bacterial leaf spot in pulse crops like green gram and black gram, spray Copper oxychloride @ 3 g/l + Streptocyclin @ 0.1 g/l of water.

- Weather is congenial for mild incidences of aphids, mealy bugs and jassids in cotton. Spray Monocrotophos in 1:4 or Imidaclopride in 1:20 ratio with water at 20, 40 and 60 days after sowing to control the pests.
- Due to congenial weather, attack of stem borer is reported in maize. Monitor the crop and spray Carbofuran 3G @3 kg/acre.

High Altitude Areas

- Farmers in high altitude regions of Srikakulam, East Godavari, Vijayanagaram, Visakappattinam and Khammam are advised to continue sowing of pulse crops like rajma and niger as there is a possibility of 50-65 mm of rainfall during next five days.
- **Plant Protection:** Attack of blast is reported in paddy and ragi. Farmers are advised to undertake plant protection measures to control the disease.

Rayalaseema

- Farmers in all the districts are advised to go for intercultural operation in early sown *kharif* crops under prevailing normal weather condition.
- Farmers in Anantapur and Kurnool are advised to continue transplanting of rice and planting of new orchards (papaya, mango and banana) as there is a possibility of 50-55 mm of rainfall during next five days.
- **Plant Protection:** Attack of sucking pests is reported in groundnut in Ananthapur and Cuddappah districts. Farmers are advised to undertake plant protection measures to control the pests.
- Attack of stem borer in paddy, leaf miner and sucking pests in groundnut and internode borer in sugarcane is reported in Chiththoor district. Farmers are advised to undertake plant protection measures to control the pests and diseases.

Telangana

Farmers in Karimnagar, Nizamabad and Adilabad districts are advised to undertake intercultural operations and application of fertilizers and pesticides in early sown crops under prevailing normal weather condition.

- **Plant Protection:** Attack of stem borer is reported in rice. Spray Carbofuran @ 10 kg/acre.
- Weather conditions are congenial for the attack of mealy bug in cotton. Monitor the crops for the pests and undertake spray Dichlorvas @ 1 ml/litre of water.

Karnataka

- **Major standing crops:** Annual sugarcane (tillering), Early sown Kharif crops (vegetative).

Coastal Karnataka

- Due to possibility of 85 mm of rainfall during next five days in Udupi and Dakshin Kannada districts, farmers are advised to undertake intercultural operations after spells of rain in early transplanted rice, arecanut, coconut, cashew and banana. Apply second dose of fertilizers (urea, rock phosphate and potash). Apply FYM @ 15-30 kg/tree to plantation crops in addition to fertilizers.
- **Plant Protection:** Due to high humidity during last week, attack of leaf folder is noticed in rice. Farmers are advised to monitor the crop and spray Quinalphos @ 2 ml/litre after spells of rain to prevent further incidence.
- Due to high humidity, Colerago may attack arecanut. Monitor the crop and spray Bordeaux mixture @ 1% after spells of rain.

North Interior Karnataka

- Due to receipt of sufficient rainfall in Bellary, Bijapur, Bagalkot and Koppal districts during last week (50-80 mm in the districts except in Bagalkote where rainfall was 35 mm) and also with a possibility of 40-55 mm of rainfall during next five days, undertake sowing of sunflower, navane, horse gram and

fodder maize and bajra in red soils and shallow black soils. Sunflower, cotton and fodder maize and fodder bajra in medium to deep black soils.

- Farmers in Bidar region are advised to continue sowing of sunflower with realized rainfall during last week (50 mm) and also with a possibility of 55 mm of rainfall during next five days.
- In view of sufficient amount of rainfall received during last week (35 mm) and also with a possibility of 65 mm of rainfall during next five days, farmers in Gulbarga district are advised to continue sowing of sunflower (KBSH 1, RSH 1, SP 275, SP244 and Darsa Kaveri).
- Farmers in Raichur area are advised to continue sowing of cotton (DCH-32, DHH-11, NHH-44 and Bt Hybrids) and sunflower (Morden, BSH-1, KBSH-1, RSFH-1) with realized rainfall during last week (84 mm) and also with a possibility of 50 mm of rainfall during next five days.
- **Plant Protection:** Due to cold and cloudy weather conditions, attack of sucking pests in cotton, leaf eating caterpillars and leaf spot in groundnut and thrips in chillies is reported in Dharwad. Spray Dimethoate @ 1.7 ml to control sucking pests in cotton, Methyl Demeton @ 1 ml/litre of water to control eating caterpillars and Chlorothalonil @ 0.2% to control leaf spot in groundnut. Spray chemicals.
- Due to continuous rain, powdery mildew is reported in black gram and green gram. Spray Carbendazim @ 1 g/litre of water. Also sucking pests leaf eating caterpillar and stem fly are noticed. Spray Monocrotophos @ 1 ml or Dimethoate @ 1.75 ml/liter of water to control the pests.
- Monitor citrus for canker and spray Streptomycin Sulphate (0.5 g) + Copper oxi-chloride (2g)/liter of water to control the disease.
- Due to cold and cloudy weather, necrosis is expected in sunflower in Dharwad. Spray Imidachloprid @ 0.25 ml/litre of water.

South Interior Karnataka

- Due to possibility of 45 mm of rainfall during next five days, farmers in Bangalore, Kolar and Tumkur are advised to undertake intercultural operations and application of fertilizers in early sown crops. Undertake gap filling in millets to maintain optimum plant population. Apply Gypsum @ 200 kg/acre in 30 days old groundnut.
- Farmers in Mysore and Tumkur districts are advised to undertake sowing of ragi (GPU 28 and Indaf 5), sunflower (KBSH 41 and 44), maize (NAC 6004 and NAC 6002 varieties and Nityashri hybrid) and short duration pulses like green gram, black gram, cowpea and horse gram during this month. With the receipt of water from KRS, undertake transplanting of rice (Thella, Hamza, KRH 1, Mangala, Mukthi, Bilimukthi and Rasi) and undertake planting of sugarcane (CO varieties – 419, 62175, 7804, 8371 and 86032).
- **Animal Husbandry:** Undertake vaccination against FMD and Anthrax in cattle in Bangalore, Kolar and Tumkur.
- **Plant Protection:** Due to cloudy weather conditions in Mysore and Tumkur districts, attack of blast is reported in rice and ragi nursery. Spray Hinosan or Kitacin @ 1 ml/litre of water to control the disease.
- There are chances of Tikka leaf spot in groundnut, sucking pests in cotton, stem borer in maize, blast in rice and rhizome rot in ginger in Shimoga. Farmers are advised to monitor the crops for the pest and disease and undertake plant protection measures.

Kerala

- **Major standing crops:** Rice (flowering/grain formation).
- Rain/thundershowers are likely to occur at many places for the next three days along with isolated heavy to very heavy rainfall during next 48 hours, farmers are advised to postpone irrigation to rice and plantation crops. Arrange for drainage facilities to avoid water stagnation.
- Due to heavy rainfall in Thiruvananthapuram district during last week, severe water stagnation is reported in coconut, banana and vegetable crop fields. Farmers are advised to arrange for drainage facilities to avoid crop damage due to water stagnation.

- Farmers in Malappuram, Kasargod, Kozhikode and Kannur districts are advised to undertake intercultural operations and application of fertilizers in plantation crops (coconut, arecanut, pepper and cashew) after spells of rain.
- This is proper time for sowing of *mundakan* rice in nursery in Thrissur, Malappuram, Kasargod, Kozhikode and Kannur districts. Select among Mangala, Mashurie, H-4 and Karuna (long duration varieties). Select among Matta triveni, Kanjana, Jaya, Athira and Aiswarya (short/medium duration varieties) where water availability is not sufficient to raise long duration rice
- **Plant Protection:** Weather conditions are favourable for the attack of brown plant hopper and leaf folder in Kottayam and rice bug in Thiruvananthapuram. Monitor the crop and spray Sevin @ 4 g/litre of water after spells of rain to control brown plant hopper and leaf folder. Spray Malathion @ 2 ml/litre of water after spells of rain to control rice bug.
- Attack of mahali disease is reported in arecanut in Thrissur, Malappuram, Kasargod, Kozhikode and Kannur districts. Apply 1% Bordeaux mixture after spells of rain to control the disease.

Tamilnadu

- **Major standing crops:** Rice (*Kuruvai*) (vegetative), Early, Mid Sugarcane (cane development/maturity stage), Special season sugarcane (grand growth stage) Sorghum (vegetative) Cotton (boll maturity/picking stage)
- Apply irrigation to groundnut, sugarcane and pulse crops as rain/ thundershowers likely at isolated places over the State.
- Undertake intercultural operations and application of fertilizers and pesticides in Kuruvai rice in Thanjavur, Trichy, Karur, Nagappattinam and Perambalur districts as there is a possibility of 24-34 mm of rainfall during next five days.
- Undertake sowing of bhindi, tomato and cowpea in Chennai, Cuddalore, Kanchipuram, Thiruvarur, Thiruvannamalai, Vellore and Villupuram districts using irrigation water.
- Farmers in Namakkal are advised to sow rice (CORH-3, CO-R-4 and CO-R-49) in nursery, hybrid maize (CO-HM-5), groundnut (VRI-6, VRI-7, TMV-13) and red gram (Vamban-3 and CO-RG-7) by utilizing the moisture in the field.
- Farmers in Thirunelveli, Tuticorin and Virudunagar are advised to undertake sowing of chillies in nursery with a possibility of 35-60 mm of rainfall during next five days.
- Monitor poultry birds for Gumboro disease and undertake vaccination to prevent further spread in Namakkal area.
- Due to rainy conditions in Chennai, Cuddalore, Kanchipuram, Thiruvallur, Vellore, Villupuram, increase in vector activity resulting in a slight rise in arthropod borne diseases particularly blood protozoans like Anaplasmosis, Theileriosis and Trypanosomiasis and viral disease such as blue tongue amongst farm animals is expected. Undertake vector control for ticks and flies and midges under the guidance of veterinarians. Also avoid stagnation which can allow for fly and midges breeding sites. Also undertake prophylactic drenching with appropriate medication, for fluke infections like amphistomiasis and liveflukes.
- **Plant Protection:** Present weather is conducive for mild incidences of leaf folder in paddy in Coimbatore district. Spray Monocrotophos @1 litre/ha to control the disease.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT, RAJASTHAN]

Maharashtra

- **Major standing crops:** Sugarcane (pre-seasonal) (elongation / cane development), sugarcane (*Suru*) (active growth / elongation), irrigated cotton (floral bud formation / squaring), *kharif* groundnut (flowering / pegging in Kolhapur, vegetative / flowering in other parts of the State), *kharif* cotton (floral bud formation / squaring in Nasik, Latur and Amravati, vegetative / floral bud initiation in other districts), *kharif* rice (panicle initiation / flowering in South Konkan, flag leaf initiation in North Konkan and Kolhapur and Satara districts and tillering in other parts of the State), soybean (flowering

/ pod formation in Kolhapur and vegetative / flowering in other districts), tur and sunflower (vegetative), black gram (flowering / pod formation) and green gram (pod formation / pod maturity).

- The weather is favourable for carrying out intercultural operation to keep the field weed free. Perform the same on a non-rainy day.
- As there is chance of less rain, apply second dose of Nitrogen (i.e. 870 gm Urea per 1 R area) to *kharif* rice in South Konkan and Sub Montane zone as topdressing. Also apply 870 gm Urea + 2.5 kg Single super phosphate + 670 gm Murate of potash per Are in finger millet on a non-rainy day.

Plant protection

- Apply plant protection measures on a non-rainy day.
- There is chance of occurrence of mealy bug, aphids and jassids in cotton in Nasik and Latur division and powdery mildew in green gram in Central Vidarbha zone due to favourable weather condition. To control mealy bug in cotton, spray *Vertisilium lekaini* or *Metarizium annesopli* bacteria @ 40 gm in 10 liters water. If infestation is more spray 75 % Acipheth @ 30 gm or 76% Dichlorovhos @ 20 ml or 40% Trizophos @ 20 ml in 10 liters of water with 20 gm soap powder. To control powdery mildew in green gram, spray Dinocap @ 10 ml or Tridemorf @ 5 ml or Sulpher @ 30 g in 10 liters of water.
- There is chance of infestation of blast in *kharif* rice in Nagpur and Kolhapur division. For control spray Carbendazim @ 1 g / lit or Copper-oxy- chloride @ 2.5 g / lit of water with 1 ml sticker.
- There is possibility of occurrence of tikka in groundnut in Western Maharashtra Plain zone. For control of Tikka on Groundnut, spray Dithane M-45 @ 2.5 g in 10 liters of water.
- Infestation of tobacco caterpillar in soybean is reported in Nagpur, Wardha, Bhandara, Chandrapur and Gadchiroli districts of Vidarbha. More than 50% soybean area in Chandrapur has been affected due to tobacco caterpillar infestation. Due to favourable weather condition, there may be more infestation of this insect. Monitor the crop for the pest and spray Chlorpyriphos @ 2 litres/ha.

Gujarat

- **Major standing crops:** Sugarcane (cane development), *Kharif* groundnut (vegetative / flowering), *Kharif* cotton (vegetative / flowering), *Kharif* rice (tillering / panicle initiation), other *kharif* crops (germination / early vegetative / vegetative / flowering).
- Weather condition is favourable to carry out intercultural operation in standing crops in all the districts of Gujarat State.
- As there was no significant rain during last couple of weeks in most of the districts of the State and no significant rain is likely to occur during next five days, apply irrigation to the standing crops.
- As weather condition is favourable, apply nitrogen in form of urea @ 87 kg / ha in hybrid cotton and also apply nitrogen in *kharif* rice as top dressing.
- Under prevailing weather condition, to control the problem of yellowish leaf in *kharif* groundnut, 100 gm ferrous sulphate plus 10 gm citric acid in 10 liter water should be mixed and sprayed two times at 8 days interval.

Plant protection

- There is chance of infestation of mealy bug in cotton. To control the mealy bug, dusting of methyl parathion 2% or fenvalrate 0.4% dust should be done surrounding the plants and field boundaries. Spray the crop with profenophos 50 EC @ 20 ml in 10 litres of water along with 10 gram washing powder.
- There is chance of infestation of tikka leaf spot in groundnut. To control the tikka leaf spot farmers are advised to apply chlorothalonil @ 25 gm or hexaconazole @ 5 ml in 10 litre of water.
- As there is chance of infestation of powdery mildew in sesame due to favourable weather condition, wettable sulphur 75 % should be applied @ 40 g / litre of water at weekly interval.

Rajasthan

- **Major standing crops:** Groundnut, bajra, jowar, maize, sesame, cluster beans, red gram, cotton, vegetables. All the crops are at vegetative stage.
- As rain/thundershower are likely at isolated places over north Rajasthan and mainly dry weather is likely to prevail over south Rajasthan during next three days, apply irrigation to the crops.

East Rajasthan

- Farmers in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur are advised to complete planting of mango, guava, lime, ber, aonla, pomegranate and karonda etc. with a possibility of light rains during next five days.
- Vaccinate the cattle to save from infections against FMD and BQ in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur.
- **Plant Protection:** Weather conditions are favourable for mild incidences of Tikka leaf spot in groundnut in Alwar, Dholpur, Bikaner and Jaisalmer. Monitor the crop for the pest. To control the pest, spray Carbendazim @ 500 ppm.
- Weather conditions are favourable for mild incidences of white fly and jassids in cotton in Alwar and Dholpur. Monitor the crop for the pest. To control the pest, spray Dimethoate or Methyl Demeton @ 1 litre/ha.
- Weather conditions are favourable for wilt in Clusterbean in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur. Spray Streptocyclin @ 100 ppm to control wilt.
- Weather conditions are favourable for mild incidences of shoot borer in jowar in Alwar, Bharatpur, Karauli, Sawai Modhpur. Spray Endosulphan 35 EC @ 1.25 litre/ha to control the pest.
- Downy mildew disease may attack pearl millet crop (at panicle initiation stage) in Alwar, Bharatpur, Karauli, Sawai Modhpur. Spray Zineb @ 2.5 kg or Mencozeb @ 2 kg per hectare 2-3 times at an interval of 3 days.
- Blight disease may attack tomato, brinjal & chilli crops in Ajmer, Dausa, Tonk due to continuous cloudy weather. In this disease brownish spots are formed on leaves farmers are advised to spray mencozeb @ 2 gm or copper oxychloride @ 3 gm or Redomil MZ-2 gm per litre water.
- Weather conditions are favourable for mild incidences of stem borer in maize in Karauli, Alwar, Dholpur, Sawai Modhpur. Spray Endosulphan 35 EC @ 1.25 litre/ha to control the pest.
- Weather conditions are favourable for mild incidences of jhulsa in tomato. Spray Dithane-M-45 @ 0.2% to control the pest.

West Rajasthan

- Farmers in Jalore and Jodhpur are advised to sow bajra and other pulse crops with a possibility of light rains during next five days. Short duration varieties of pulse crops may be taken up for sowing. Optimum spacing may be maintained. Carry out intercultural operations and application of fertilizers in early sown crops.
- Weather condition is conducive for sowing of chillies and other vegetables in Barmer, Churu, Jalore and Jodhpur. Farmers are advised to sow the crops with a possibility of light rains during next five days.
- Undertake sowing of sweet gourd, cucumber, pumpkin, bitter gourd, tinda, tomato and ladies finger in Barmer, Churu, Jalore and Jodhpur with a possibility of light rains during next five days.
- Undertake intercultural operations and application of fertilizers in early sown cabbage in Barmer, Churu, Jalore and Jodhpur.

- Farmers in Pali district are advised to undertake planting of short duration fodder crops on priority basis. Apply first dose of nitrogen fertilizer to cotton crop. Undertake land preparation and sowing for rabi crops where kharif crops were not undertaken.
- **Plant Protection:** Weather conditions are favourable for mild incidences of bacterial blight in cluster beans in Bikaner and Jaisalmer districts. Monitor the crops for the disease. To control bacterial blight, spray Streptocyclin @ 1g/10 liters of water + Copper oxychloride @ 0.2%
- Weather conditions are favourable for mild incidences of leaf eating caterpillar in bajra, pulses, fruits and vegetable crops in Barmer, Churu, Jalore and Jodhpur. Spray Qunalphos @ 1.5 kg or Endosulphan @ 4.25 kg/hectre to control the pest. For controlling sucking pests, spray Monocrotophos @ 1 ml/litre of water.
- Monitor groundnut for crown rot in Barmer, Churu, Jalore and Jodhpur. Apply Trichiderma @ 1 kg/ha.

CENTRAL INDIA [M.P., CHHATTISGARH]

Madhya Pradesh

- **Major standing crops:** Sugarcane (grand growth), soyabean (vegetative), maize (vegetative), cotton (vegetative) and vegetable crops (nursery/transplanting).
- As there was no significant rainfall during last week except in Chattarpur, Chindwara, Katni, Rewa and Umaria and rain / thundershower is likely at isolated places over the State, apply irrigation to the crops. Postpone irrigation in the above districts as there was sufficient rainfall received during last week.
- Prepare land and nursery for medium varieties of cauliflower. Undertake land preparation and planting of *kharif* vegetables like brinjal, tomato, early cauliflower and chilli in Jabalpur, Katni, Panna, Rewa, Satna, Seoni and Sidhi districts with a possibility of 20-45 mm rainfall during next five days. Also undertake planting of guava, citrus, mango and anola during this period.
- **Animal Husbandry:** Provide proper ventilation and clean water to cattle and arrange for vaccination to save them from infectious disease in Jabalpur, Katni, Panna, Rewa, Satna, Seoni and Sidhi districts. Due to the possibility of cloud weather during next five days, arrange for artificial light in poultry for maintain the egg production.
- **Poultry:** Due to possibility of Coccidiosis in poultry birds in Sehore, maintain sanitation and aeration in the sheds.
- **Plant Protection:** There is chance of attack of semilooper and girdle beetle in soybean in Jabalpur, Katni, Panna, Rewa, Satna, Seoni and Sidhi districts. Monitor the crop for the pests and undertake plant protection measures to control the pest.
- Weather conditions are favourable for the incidences of green leaf hopper in maize and sucking pests in vegetable crops. Apply Phorate to control green leaf hopper and spray Methyl Demeton @ 1 ml/litre of water to control sucking pests.
- There is chance of attack of leaf eating caterpillars in rice in and around Jabhua and Dhar districts. Spray Traizophos @ 2 ml/litre of water. Also attack of sucking pests is reported in cotton. Spray Imidachlorpid @ 0.3 ml/litr to control the pests.
- Monitor groundnut for Tikka leaf spot in Khandwa and Harda districts. Spray Mancozeb @ 2 g/liter of water. There is chance of attack of semilooper and girdle beetle in soybean. Spray Traizophos 40 EC @ 2 ml/litre of water.
- Monitor black gram, green gram and soyabean for hockmoth in Sehore. Spray Profenophos 50 E.C. @ 1.5 litres/hectre in 500 litres water Also monitor soyabean for tobacco caterpillar. Spray Quinalphos @ 1.5 litres/hectre in 600 litres water to control the pest at early stage.
- There is a possibility of stem borer in maize and jowar. Apply Phorate 10 G @ 8-10 granules/plant.

Chattisgarh

- **Major standing crops:** Autumn sugarcane (vegetative), Soybean and black gram (flowering / pod formation), groundnut (flowering / pegging), *kharif* rice (tillering), pigeon pea, green gram and sesame (vegetative / flowering / pod formation).
- As Bastar, Dhamtari, Janjgir, Jashpurnagar, Raigarh and Surguja districts received sufficient rain during last week, postpone irrigation to the standing crops in these districts. As the remaining districts received no significant rain during last week and rain / thundershower is likely to occur only at isolated / a few places over the State during next three days, apply irrigation to the standing crops in these districts.
- Due to poor rain during last few weeks in Rajnangdaon, Durg, Dantewada, Kanker and Koriya districts, farmers in these districts are advised to provide supplementary irrigation to early sown crops to overcome stress conditions.
- As the weather condition is favourable, undertake intercultural operation to keep the crop fields weed free. Also apply 1st split dose of N at 3 weeks after transplanting and 2nd split dose of N at 6 weeks after transplanting in *kharif* rice.
- This is proper time for preparation of land and transplanting of chilli and brinjal and preparation of nurseries of early varieties of cabbage and cauliflower.
- As the weather condition is favourable, undertake earthing up in maize to prevent the crops from lodging.

Plant protection

- Incidence of stem borer may occur in *kharif* rice due to favourable weather condition, hence it is advised to keep watch over the crop and install light trap for initial control. If the incidence is higher, apply Carbofuron 3 G @ 10 kg / acre.
- Present Weather may lead to the incidence of tobacco caterpillar in soyabean in Kabhirdham, Durg and Rajnandgaon districts. Monitor the crop for the pest and spray Chlorpyrifos @ 2 litres/ha or Dichlorvas (DDVP) @ 625 ml / ha.
- In maize crop, leaf spot and blast disease attack is being observed and may be enhanced due to favourable weather condition. For its control, Dithane M-45 or Micozeb @ 2 g / litre water may be sprayed.

Annexure I
Rainfall distribution in different regions of the country during last
Five weeks (6/08/08 to 03/09/08)
NORTH WEST INDIA

Punjab-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Punjab-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bhatinda	9	-34	99	-100	-13	Kapurthala	**	-100	603	-35	-16
Ferozpur	-100	3	-79	-100	-2	Ludhiana	248	81	163	-64	-12
						Moga	167	45	28	76	-44
Haryana-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Haryana-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Faridabad	-83	4	-77	-45	-98	Mahendragarh	264	-4	-25	-100	-100
Hissar	-52	46	-54	-100	-100	Panchkkula	-28	7	-63	-15	-96
Katihah	76	-13	-34	-100	-70	Rohtak	-80	7	-31	-100	-100
H.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	H.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Kinnaur	-50	149	115	10	-100	Mandi	-25	-47	8	-13	-65
Kullu	70	43	130	95	-59	Shimla	-29	5	132	20	-86
						Una	135	136	209	-72	4
W.U.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	W.U.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Badaun	**	-84	-25	6	**	Jotiba Phule Nagar	-32	**	**	-81	**
Baghpat	-100	**	89	-98	**	Lalitpur	-93	**	**	**	**
Ghaziabad	-100	**	**	-95	**	Mainpuri	-98	-100	**	-86	**
						Pilibhit	**	-99	-87	**	**
Uttarakhand Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Uttarakhand Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Almora	-42	-96	-88	4	-100	Haridwar	-42	-84	220	60	-49
Chamoli	-11	17	-24	25	-61	Nainital	-14	-49	233	-19	-87
Champawat	3	33	85	80	-75	Udham Sing Nagar	-99	**	**	**	**
Garhwal (P) Pauri	15	-50	-37	26	**	Uttar Kashi	48	39	-15	77	-88
Garhwal (T)	-5	-55	172	-9	-100						

EAST INDIA

G.W.B.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	G.W.B.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bankura	-33	-22	129	-87	-18	24 Pargana (N)	-73	-60	-91	-87	-7
Birbhum	-50	68	26	-74	42	Nadia	-74	-49	46	-78	23
Burdwan	-69	55	44	-74	18	24 Pargana (S)	-63	10	-2	-60	-5
Hooghly	-60	24	5	-98	72	Midnapore	-66	61	-1	-75	10
Howrah	-50	-8	-42	-64	43						
S.H.W.B- Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	S.H.W.B- Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Coochbehar	-16	13	106	51	242	Dinajpur (N)	47	**	**	-75	150
Darjeeling	94	1	70	-2	99	Dinajpur (S)	133	95	2	-83	-1
Jalpaiguri	23	-13	73	32	207						
Sikkim	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08						
Sikkim	-26	-4	36	-20	91						
Orissa-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Orissa-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Angul	-24	**	-6	1	-52	Kandhamal	-14	**	-35	73	-29
Bargarh	-69	**	-4	159	-18	Keonjhar	-26	**	-22	78	-52
Bolangir	-39	**	79	7	-65	Khurda	-2	**	-4	24	-31
Boudh	-21	**	-31	83	-56	Koraput	29	**	19	13	18
Cuttack	6	**	27	42	-73	Mayurbhanj	-38	**	-10	-7	-67

Deogarh	-35	**	-24	-7	-70	Nawarangpur	88	**	68	4	38
Dhenkanal	-20	**	-9	10	-78	Nayagarh	79	**	105	36	-26
Ganjam	**	**	47	-40	-11	Puri	31	**	-38	17	-93
Jagatsingpur	-43	**	45	16	-90	Sambalpur	-32	**	-2	40	-49
Jharsuguda	-83	**	138	1	-89	Sonepur	-40	**	43	119	-60
Kalahandi	-23	**	32	53	-28						
Bihar-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Bihar-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Araria	-67	-65	297	**	190	Madhepura	**	**	**	**	**
Bhagalpur	-97	26	75	**	-44	Madhubani	-69	-76	55	**	48
Darbhanga	-75	-80	-11	**	43	Monghyar	-49	240	306	**	101
East Champaran	-72	22	189	**	17	Muzaffarpur	-67	17	79	**	24
Jhanabad	-100	-32	**	**	**	Patna	-94	146	105	**	76
Kathihar	-41	48	130	**	23	Purnea	42	24	308	**	162
Khagadia	-84	-20	191	**	222	Saharsha	-9	-19	239	**	150
Kishanganj	-96	**	**	**	**	Samstipur	-93	-63	65	**	-14
West Champaran	-58	60	93	**	23	Saran	**	-61	**	**	**
						Sitamarhi	-99	232	96	**	187
Jharkhand-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Jharkhand-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
East Singbhum	-70	-35	173	**	-61	Ranchi	-70	48	38	**	-49
Hazaribagh	-82	123	248	**	-33	Sahebganj	-87	**	**	**	**
						West Singbhum	-80	-75	-60	**	-100
E.U.P. Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	E.U.P. Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Amd Nagar	-84	**	**	**	-100	Kanpur Dehat	-97	-47	39	-74	-65
Bahraich	-56	-15	91	-5	-88	Kheri	-28	-65	147	-1	-97
Basti	-66	69	6	8	-73	Kushi nagar	**	-5	**	-15	-69
Faizabad	-52	**	130	-100	-100	Lucknow	-55	-86	207	**	-94
Fatehpur	-94	-54	65	-95	-91	Maharajganj	-99	16	**	39	-95
Gazipur	-96	-82	51	-95	**	Mau	-95	-77	-100	**	-85
Gonda	-83	-9	124	-87	-9	Mirzapur	-68	**	234	-100	**
Sidharthnagar	-50	-8	48	95	-54	S M Nagar	**	-6	**	-31	-67
Sonbhadra	-98	-82	-34	-78	**	S R Nagar	**	-97	**	**	**
Sultanpur	-92	98	158	-34	-2						

NORTH EAST INDIA

Assam-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Assam-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Barpeta	33	407	221	29	1065	Kamrup	-66	33	-3	-73	69
Bongaigaon	-41	295	148	82	210	Karbj Analog	54	-33	185	119	19
Cachar	106	-31	39	95	27	Karimganj	28	-69	-77	-67	16
Darrang	-90	-61	-53	-63	280	Kokrajhar	-23	254	195	138	492
Dhubri	-91	-30	-86	-99	376	Lakhimpur	-7	-46	91	-38	200
Dibrugarh	-8	-25	5	2	96	Nalbari	-55	107	-19	-64	402
E G Hills	-62	89	109	-90	222	Nowgong	-17	-44	-17	30	-66
E K Hills	-26	83	218	9	532	Sibsagar	153	-90	-69	-19	-29
Goalpara	-77	164	94	-57	434	Sonitpur	40	41	-42	-29	158
Golghat	-48	-46	49	-58	5	Tinsukia	52	-70	52	33	49
Hailakandi	281	42	31	175	-39	Jorhat	20	6	-36	1	-36

Arunachal Pradesh	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Arunachal Pradesh	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Changlang	-33	-58	-49	-54	-78	Tawang	64	-30	18	84	118
E Kameng	-57	33	218	-7	346	Tirap	29	-40	72	-27	103
E Slang	-12	-42	87	153	207	USubansiri	-54	33	3	-86	81
Lohit	52	-70	11	48	-2	W Kameng	176	151	152	-17	312
Papumpara	410	476	272	45	486	W Stang	**	65	**	**	**

SOUTH PENINSULA

Coastal Andhra Pradesh	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Coastal Andhra Pradesh	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Guntur	290	-2	-2	8	-83	Visakhapatnam	45	-8	-8	2	-54
Nellore	64	200	200	26	-77	Vizianagram	42	79	79	-22	-16
Prakasam	116	-8	-8	0	-86						
A.P.(T)-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	A.P.(T)-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Hyderabad	558	67	67	-38	40	Nalgonda	359	22	22	32	-99
M nagar	79	-1	-1	-4	-93	Nizamabad	170	-64	-64	-96	-2
A.P.(R)-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	A.P.(R)-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Anantapur	-9	-76	-76	158	417	Cuddapah	-33	44	44	31	-87
Chittoor	-19	97	97	-20	58	Kurnool	73	-43	-43	22	-30
Kerala-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Kerala-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Alappuzha	-100	68	-65	-90	87	Kozhikode	-51	362	-65	-98	3
Ernakulam	-57	26	-25	-86	72	Malappuram	-86	41	-84	-94	69
Idukki	-100	101	-51	-30	68	Palakkad	-32	27	-73	-87	67
Kollam	-100	65	-81	-75	286	Pathanamthitta	-100	130	-76	-92	370
Kottayam	-94	83	-42	-92	119	Thiruvananthapuram	-86	-34	-65	-97	586
Wyanad	-80	121	-81	-64	-16	Thrissur	-95	29	-57	-95	-17
NI Karnataka-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	NI Karnataka-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bagalkote	-56	-47	-91	-37	103	Gadag	-67	-23	-83	-94	108
Belgaum	30	21	-33	-96	281	Gulbarga	16	-28	-53	-50	-13
Bidar	74	3	-96	-53	17	Haveri	17	13	-14	-91	116
Bijapur	-30	-59	-97	100	100	Koppal	-1	-50	-78	-99	155
Dharwad	8	10	-64	-100	219	Raichur	-47	-62	-59	-76	181
SI Karnataka-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	SI Karnataka-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bangalore R	-25	-2	182	150	170	Hassan	-57	-39	-66	-47	490
Bangalore U	13	47	258	79	194	Kodagu	25	15	-42	-51	29
Bellary	-27	-44	-47	-51	178	Kolar	-43	28	13	84	327
Chamarajnagar	-60	12	-28	296	388	Mandya	-64	61	38	119	223
Chickmagalur	8	30	-1	-93	187	Mysore	-33	8	-40	107	242
Chitradurga	-10	7	-14	33	585	Shimoga	-14	6	-3	-93	62
Davangere	4	-7	-28	-87	344	Tumkur	-35	47	79	286	730
Tamil Nadu-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Tamil Nadu-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Chennai	-69	-75	**	-77	-100	Pudukottai	-97	-94	**	157	-97
Coimbatore	253	648	**	306	766	Ramanathapuram	-95	-100	**	304	33
Cuddalore	106	-99	**	17	-79	Salem	-49	23	**	128	156
Dharmapuri	-81	109	**	196	-56	Sivaganga	-47	-100	**	131	-21
Dindigul	-39	-84	**	356	242	Thanjavur	-70	-91	**	19	-57

Erode	-100	-39	**	294	126	Theni	71	384	**	377	196
Kanchipuram	**	-76	**	-65	-2	Tirunelveli	-73	496	**	339	1057
Kanyakumari	-72	179	**	-71	1670	Tiruvarur	-66	-91	**	26	-26
Karur	-93	-99	**	134	123	Trichy	-100	-99	**	105	-6
Krishnagiri	-27	-22	**	74	76	Tuticorin	-100	-100	**	184	268
Madurai	-79	-100	**	261	49	Vellore	-68	-42	**	-93	9
Nagapattinam	19	-85	**	-28	22	Virudhunagar	-100	-100	**	172	192
Namakkal	-92	-66	**	173	301	Nilgiris	-27	52	**	35	56

WEST INDIA

Gujarat-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Gujarat-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Broach	-13	129	-76	15	-90	Mehsana	87	132	-35	10	-99
S&Kutch-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	S&Kutch-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Amreli	-37	50	-95	2	-73	Bhavnagar	134	87	-89	36	-98
M'Maharashtra-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	M'Maharashtra-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Ahmednagar	63	76	-92	-14	79	Nasik	74	711	45	-66	64
Jalgaon	-42	-33	-64	-67	-55	Pune	-64	101	-65	-88	252
Kolhapur	43	312	22	-85	74	Sangli	-77	205	-48	-90	484
Sholapur	78	-34	-67	56	156	Satara	12	195	-31	-83	32
Marathwada-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Marathwada-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Aurangabad	-41	0	-66	-47	34	Usmanabad	125	-37	-88	-42	140
Beed	63	18	-74	-65	99	Parbhani	-38	-33	-52	-67	-53
Jalna	-57	-4	-73	-41	3						

CENTRAL INDIA

Chhattisgarh-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	Chhattisgarh-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bilaspur	-48	-14	-19	-13	-24	Kowardna	-39	1	13	-13	-67
Dhamtari	-64	-2	-76	-78	-2	Mahasumund	-84	-20	-53	-2	-83
Janjgir	-37	5	83	4	-16	Raigarh	-71	-13	159	62	-8
Jashpurnagar	-56	-11	106	-78	-12						
E.M.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	E.M.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Mandla	65	-30	-85	8	-83	Shahdol	-61	**	-81	-1	-81
Umaria	-75	-100	-49	-62	-17	Tikamgarh	12	264	-41	-55	-94
W.M.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08	W.M.P.-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08
Bhind	73	1	-2	32	-86	Neemuch	-7	8	-63	3	-98
Indore	-24	-71	-98	-16	-94	Shajapur	-85	-56	-96	-6	-95
Vidarbha-Districts	06.08.08	13.08.08	20.08.08	27.08.08	03.09.08						
Washim	-38	-31	-97	-44	-24						