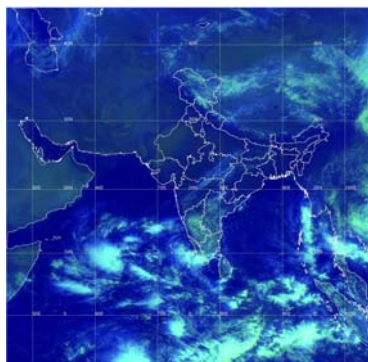




# National Agromet Advisory Bulletin

Thursday, 16<sup>th</sup> October, 2008

(For the period 16<sup>th</sup> to 20<sup>th</sup> October, 2008)



Satellite image of 5 UTC  
on 17<sup>th</sup> October, 08

## Onset of Northeast monsoon

Onset of Northeast monsoon has taken place over Tamil Nadu on 16<sup>th</sup> October, 2008.

## Forecast for South India

- Rain/thundershowers are likely at many places over Tamil Nadu, Kerala, Lakshadweep and Coastal Andhra Pradesh.
- Rain/thundershowers are likely at a few places over south Karnataka, Rayalaseema and Andaman & Nicobar Islands.
- Isolated rain/thundershowers are likely over the rest region.

## Advisories for Tamil Nadu

- Farmers in Tamil Nadu are advised to undertake land preparation and sowing of green gram, black gram, groundnut, cotton, *rabi* vegetables and transplanting of chillies utilizing the rainfall due to northeast monsoon.
- Postpone irrigation to groundnut, sugarcane and pulse crops as well as arrange for drainage facilities.

## Advisories for Kerala

- Farmers in southern districts of Kerala are advised to undertake transplanting of *mundakan* rice by utilizing the northeast monsoon rainfall.
- Farmers in the districts of northern parts of the State are advised to wait for receipt of rain to undertake transplanting of *mundakan* rice.
- Farmers are advised to postpone irrigation as well as arrange for drainage facilities.







## 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

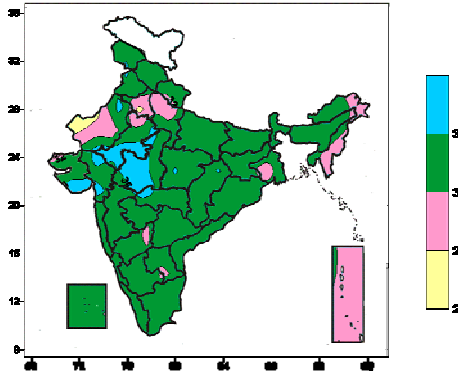
Comparison of weekly rainfall distribution (in % dep.) in different Met. Sub-divisions during past 5 weeks					
Sub-division	Cumulative Rainfall (% Dep.) for the period				
	17 <sup>th</sup> September	24 <sup>th</sup> September	1 <sup>st</sup> October	8 <sup>th</sup> October	15 <sup>th</sup> October
A & N Islands	63	-74	-58	-95	-72
Arunachal Pradesh	-88	-59	-59	-39	-75
Assam and Meghalaya	-55	-24	-20	-3	-79
NNMT	-26	93	13	45	-66
SH West Bengal & Sikkim	-67	-43	-55	3	-89
Gangetic West Bengal	13	50	16	-40	-92
Orissa	160	125	-67	-56	-89
Jharkhand	6	58	-52	-58	-99
Bihar	-81	-51	38	-16	-63
East Uttar Pradesh	-89	242	-70	-52	-93
West Uttar Pradesh	-34	128	-97	-82	-84
Uttaranchal	-81	289	-94	-5	-72
Haryana, Chandigarh and Delhi	-75	530	-99	-90	-94
Punjab	-97	119	-100	-86	-64
Himachal Pradesh	-93	397	-99	-53	-75
J & K	-64	-69	-95	46	-31
West Rajasthan	9	116	-100	-97	-100
East Rajasthan	88	193	-94	-93	-97
West M. P.	-21	21	-90	15	-84
East M. P.	-74	110	-98	-29	-90
Gujarat region	234	218	-100	19	-99
Saurashtra & Kutch	893	291	-99	1	-100
Konkan and Goa	323	66	-98	-15	-52
Madhya Maharashtra	263	16	-97	43	0
Marathwada	206	-13	-99	-18	-78
Vidarbha	12	-23	-96	-28	-79
Chhattisgarh	-46	100	-86	-69	-90
Coastal A. P.	63	-69	-80	-78	-83
Telangana	95	-68	-90	-82	-74
Rayalseema	-86	-84	-63	7	-69
TamilNadu & Pondicherry	-85	-78	-72	-48	49
Coastal Karnataka	141	-28	-98	-74	-57
N. I. Karnataka	-10	-60	-75	-9	6
S. I. Karnataka	-17	-62	-93	-6	-39
Kerala	92	-20	-99	-99	-9
Lakshadweep	-92	-93	-94	-98	10

The sub divisions like Arunachal Pradesh received scanty / deficient rain in all the 5 weeks; Andaman Nicobar Island, Assam and Meghalaya, Sub-Himlayan West Bengal & Sikkim, Uttar Pradesh, Haryana, Chandigarh and Delhi, Punjab, Himachal Pradesh, Jammu & Kashmir, East Madhya Pradesh Vidarbha, Chhattisgarh, Andhra Pradesh, Tamil Nadu & Pondicherry, Coastal Karnataka and Lakshdweep received scanty / deficient rain in 4 out of last 5 weeks; Orissa, Jharkhand, Bihar, Uttarakhand, Rajasthan, west Madhya Pradesh, South interior Karnataka, Kerala received scanty / deficient rain in 3 out of last 5 weeks. Other subdivisions received normal or excess rain for at least 3 weeks out of last 5 weeks.

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

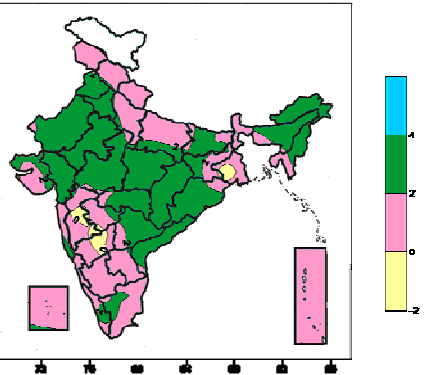
## Contour maps for the week ending 15.10.08

**Actual Mean Maximum Temperature (°C) in India for the week ending 15.10.08**



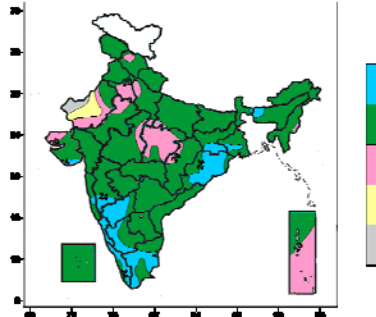
Actual Mean Maximum Temperature ranges between 36 to 40°C in some parts of Rajasthan, East Madhya Pradesh, Chhattisgarh and Gujarat most parts of West Madhya Pradesh, 28 to 32°C over some parts of West Uttar Pradesh, West Rajasthan, North Saurashtra Kutch, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, Interior Karnataka, Rayalaseema, most parts of Haryana, Delhi, Nagaland, Manipur, Mizoram, Andaman Nicobar Island, 24 to 28°C in some parts of West Rajasthan, Haryana 32 to 36°C in remaining part of the country.

**Maximum Temperature (°C) Anomaly in India for the week ending 15.10.08**



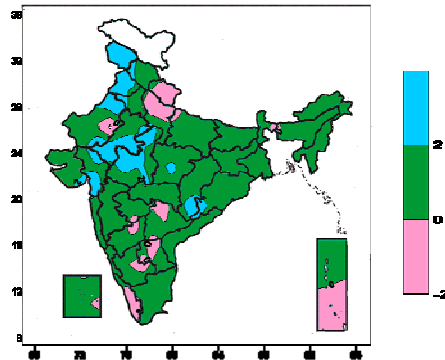
Maximum Temperature anomaly ranges between 2 to 4°C over some parts of Konkan & Goa, Uttar Pradesh, Kerala, Tamil Nadu, Lakshdweep, most parts of Punjab, Haryana, Delhi, Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Orissa, Vidarbha, Telangana, Coastal Andhra Pradesh, North East India, -2 to 0°C in some parts of Gangetic West Bengal, Madhya Maharashtra, Marathwada, North Interior Karnataka and 0 to 2°C in remaining parts of the country.

**Actual Mean Minimum Temperature (°C) in India for the week ending 15.10.08**

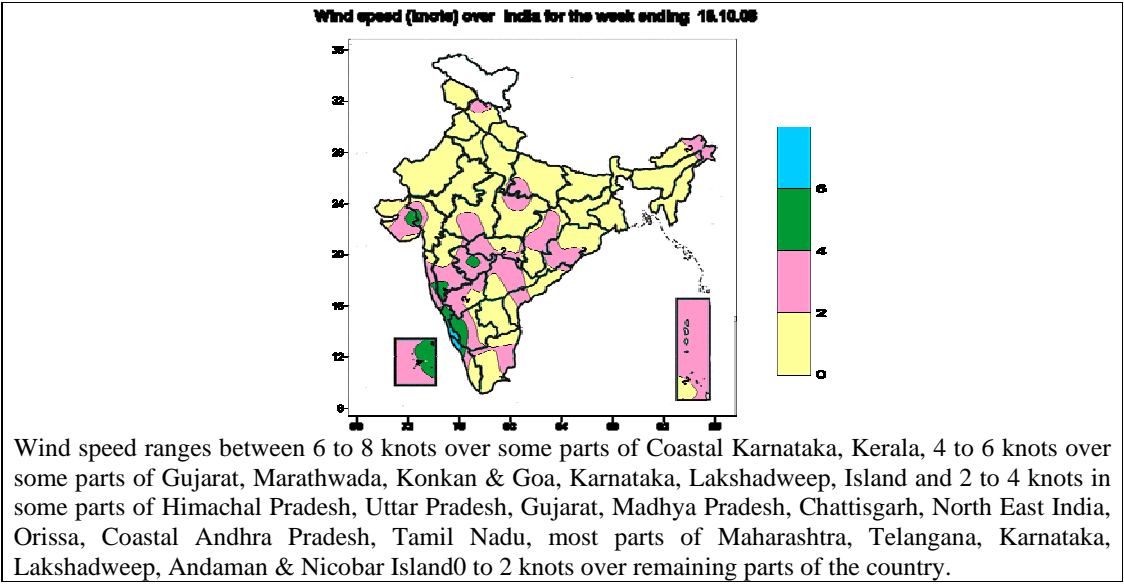
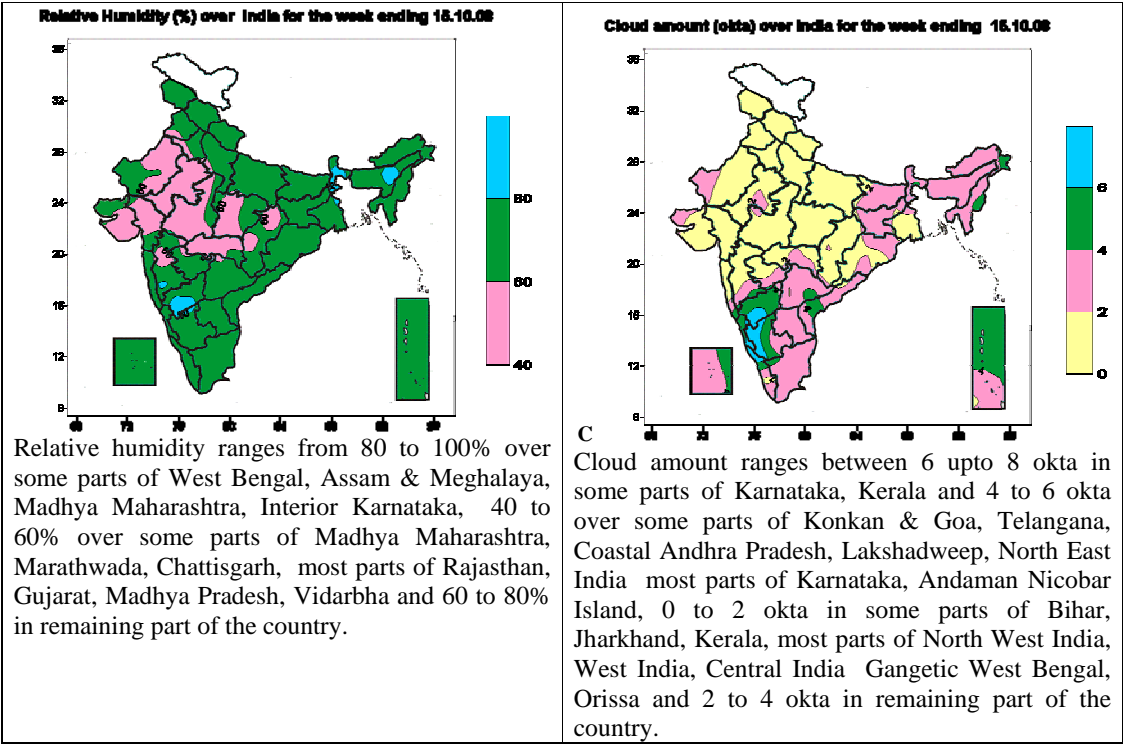


Actual Mean Minimum Temperature ranges between 24 to 28°C over some parts of Gujarat, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Orissa, Konkan & Goa, Madhya Maharashtra, Karnataka, Tamil Nadu, Kerala, 16 to 20°C in some parts of Himachal Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, and most parts of Haryana, Delhi, Andaman Nicobar Islands 12 to 16 °C over West Rajasthan and 20 to 24°C in remaining parts of the country.

**Minimum Temperature (°C) Anomaly in India for the week ending 15.10.08**









Minimum Temperature anomaly ranges between 2 to 4°C over some parts of Jammu & Kashmir, Haryana, Rajasthan, Madhya Pradesh, Gujarat, Chattisgarh, Orissa, most parts of Punjab -2 to 0°C over some parts of East Uttar Pradesh, West Rajasthan, Sub Himalayan West Bengal, Assam, & Meghalaya, Marathwada, Telangana, Rayalaseema, Interior Karnataka, Lakshadweep, Andaman Nicobar Island, most parts of Uttarakhand, West Uttar Pradesh, Kerala, 0 to 2°C over remaining parts of the country.



## Districts experiencing stress condition

*** Most Stress					
State/Districts	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
<b>Arunachal Pradesh</b>					
East Kameng	-83	-100	-100	-69	-83
East Slang	-100	-91	-71	-78	-95
Lower Subansiri	-85	-67	-97	-100	-98
Tirap	-26	-32	-20	-51	-71
<b>Assam</b>					
East Garo Hills	-43	-100	-48	-84	-76
Karimganj	-85	-67	-93	-20	-94
Lakhimpur	-36	-40	-62	-33	-63
Tinsukia	-55	-22	-24	-55	-91
<b>Punjab</b>					
Amritsar	-100	-51	-100	-97	-81
Faridkot	-100	-100	-100	-100	-100
Fatehgarh Sahib	-100	-76	-100	-100	-100
Ferozpur	-100	-71	-100	-100	-100
Gurdaspur	-100	-76	-100	-65	-100
Hoshiarpur	-100	-78	-100	-100	-36
Kapurthala	-100	-22	-100	-100	-100
Moga	-100	-100	-100	-100	-100
<b>Haryana</b>					
Sirsa	-100	-21	-100	-100	-100
<b>East Madhya Pradesh</b>					
Rewa	-87	-23	-88	-93	-100
<b>West Madhya Pradesh</b>					
Badwani	-71	-55	-100	-100	-100
Dewas	-92	-34	-100	-61	-46
Harda	-100	-32	-100	-87	-100
Mandsaur	-20	-38	-96	-62	-100
Rajgarh	-20	-76	-100	-100	-100
<b>Chattisgarh</b>					
Bastar	-27	-33	-79	-71	-87
Dantewara	11	-88	-92	-100	-99
Kanker	-88	-20	-100	-40	-100
<b>East Rajasthan</b>					
Banswara	-2	-63	-100	-91	-100
<b>West Rajasthan</b>					
Barmer	-31	-100	-100	-100	-100
Sri Ganganagar	-100	-42	-100	-100	-100

*** Most Stress					
Gujarat Region	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
Dahod	165	-41	-100	-47	-100
<b>Saurashtra, Kutch &amp; Diu region</b>					
Diu	2743	-89	-100	-100	-100
Junagarh	1420	-74	-100	-41	-100
Porbandara	1370	-64	-100	-100	-100
<b>Maharashtra</b>					
Konkan & Goa					
Mumbai	242	-78	-100	-84	-35
<b>Marathwada</b>					
Nanded	177	-60	-100	-96	-69
Usmanabad	74	-27	-100	-70	-63
<b>Vidarbha</b>					
Chandrapur	-12	-72	-97	-76	-92
Gadchiroli	-47	-58	-100	-89	-100
Nagpur	-43	-65	-75	-47	-71
<b>Orissa</b>					
Bhadrak	342	-44	-29	-72	-99
Malkangiri	-55	-52	-100	-28	-100
Puri	202	-45	-30	-73	-97
<b>Karnataka</b>					
Coastal Karnataka					
Dakshin Kannada	48	-51	-98	-68	-26
Uttar Kannada	182	-40	-97	-77	-81
North Interior Karnataka					
Koppal	-92	-38	-85	-52	-100
Raichur	-85	-77	-65	-20	-99
South Interior Karnataka					
Bellary	-92	-84	-82	-39	-97
Davangere	-64	-82	-98	-30	-28
Tumkur	-92	-73	-89	-35	-28

	(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)

\*\*\* 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).

*** Most Stress					
Kerala	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
Ernakulam	-93	-100	-99	-91	-41
Idukki	-100	-100	-99	-55	-64
Kasaragod	-98	-100	-100	-100	-43
Kottayam	-100	-37	-96	-92	-35
Kozhikode	-90	-100	-100	-99	-49
Malappuram	-97	-100	-100	-100	-29
<b>Andhra Pradesh</b>					
Coastal Andhra Pradesh					
East Godavari	45	-80	-92	-76	-87
Guntur	-69	-54	-74	-88	-100
Krishna	5	-79	-93	-87	-99
Nellore	-76	-47	-56	-82	-20
Prakasam	-83	-90	-56	-78	-81
Sirkakulam	217	-54	-85	-96	-89
Visakhapatnam	239	-68	-95	-66	-100
Vizianagram	142	-44	-86	-82	-100
West Godavari	89	-83	-99	-58	-89
Telangana					
Adilabad	109	-65	-99	-62	-93
Karimnagar	187	-85	-99	-81	-52
Khammam	187	-55	-95	-57	-89
Mehabubnagar	-23	-55	-78	-43	-92
Medak	65	-88	-100	-85	-45
Nalgonda	56	-69	-68	-80	-100
Nizamabad	228	-65	-100	-83	-38
Warangal	132	-55	-99	-65	-53

** More stress					
State/Districts	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
<b>Himachal Pradesh</b>					
Lahaul and Spiti	-100	197	-100	-100	-93
Shimla	-99	955	-100	-68	-43
Sirmaur	-88	688	-100	-100	-86
Solan	-96	966	-100	-100	-82
<b>Punjab</b>					
Bhatinda	-100	148	-100	-100	-100
Ludhiana	-89	148	-100	-91	-61
Muktesar	-100	28	-100	-100	-100
Sangrur	-100	24	-100	-100	-100
<b>Haryana</b>					
Bhiwani	-100	487	-100	-52	-100
Faridabad	-6	747	-100	-100	-100
Fatehabad	-100	445	-100	-100	-100
Gurgaon	-4	780	-100	-100	-100
Hissar	-100	350	-100	-55	-100
Jind	-100	597	-100	-100	-100
Katihari	-100	1389	-100	-100	-100
Karnal	-100	400	-99	-100	-100
Kurukshetra	-100	368	-100	-100	-100
Mahendragarh	-5	954	-100	-100	-100
Panchkkula	-90	395	-100	-100	-100
Rohtak	-92	389	-100	-100	-100
Sonepat	-27	658	-100	-100	-100
Yamunanagar	-100	272	-100	-89	-100
<b>New Delhi</b>	-73	376	-100	-100	-100
<b>East Madhya Pradesh</b>					
Balaghat	-56	153	-100	-45	-97
Chhatarpur	-62	132	-100	-71	-100
Damoh	-64	128	-100	-20	-100
Narsingpur	-54	61	-100	-32	-100
Panna	-48	44	-100	-100	-100
Sagar	-79	7	-100	-31	-100
Satna	-85	178	-93	-98	-100
Shahdol	-88	215	-100	-100	-100
Sidhi	-90	56	-100	-100	-100
<b>West Madhya Pradesh</b>					
Bhind	1	156	-100	-100	-100
Bhopal	-31	191	-100	-91	-99
Datia	-30	29	-56	-100	-100

(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)

\*\*\* 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.

<b>** More stress</b>					
<b>Madhya Pradesh</b>	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
Guna	-33	160	-100	-100	-100
Gwalior	-28	73	-100	-100	-100
Khandwa	42	98	-100	-68	-100
Morena	8	91	-100	-100	-100
Neemuch	-39	14	-27	-93	-45
Raisen	-54	45	-100	-41	-100
Shajapur	8	-7	-100	-69	-95
Shivpuri	-22	50	-100	-100	-100
Vidisha	21	142	-100	-30	-48
<b>Chattisgarh</b>					
Bilaspur	-42	279	-63	-92	-71
Dhamtari	-91	103	-100	-42	-100
Durg	-60	179	-59	-100	-100
Janjgir	-93	270	-100	-100	-100
Korba	-72	366	-100	-88	-100
Kowardna	-72	191	-40	-100	-100
Mahasumund	-87	380	-100	-38	-100
Raigarh	-53	321	-95	-70	-100
Raipur	-23	264	-88	-41	-49
Rajandgaon	-27	84	-86	-96	-100
<b>East Rajasthan</b>					
Ajmer	187	222	-100	-100	-100
Alwar	60	1003	-100	-100	-100
Baran	127	320	-100	-100	-100
Bharatpur	-25	361	-100	-100	-100
Bhilwara	152	74	-100	-100	-100
Bundi	52	179	-100	-81	-66
Chittorgarh	128	111	-54	-100	-100
Dausa	89	549	-100	-100	-100
Dholpur	-46	105	-100	-100	-100
Jaipur	64	279	-100	-100	-100
Jhalawar	83	110	-100	-100	-100
Jhunjhunu	-65	360	-100	-100	-100
Karauli	32	368	-100	-100	-100
Kota	6	92	-100	-100	-97
Rajsamand	229	28	-90	-100	-100
Sawai Madhopur	57	133	-100	-100	-100
Sikar	10	369	-97	-100	-100
Sirohi	76	134	-100	-55	-100
Tonk	122	169	-100	-100	-100
Udaipur	313	40	-85	-20	-100

<b>** More stress</b>					
<b>West Rajasthan</b>	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
Bikaner	-27	4	-100	-100	-100
Churu	-100	203	-100	-100	-100
Hanumangarh	-100	161	-100	-100	-100
Jaisalmer	-100	94	-100	-100	-100
Jalore	330	176	-100	-53	-100
Jodhpur	42	345	-100	-100	-100
Nagaur	53	210	-100	-100	-100
Pali	101	57	-100	-100	-100
<b>Gujarat Region</b>					
Anand	252	496	-100	-81	-100
Banaskantha	163	401	-100	-73	-100
Baroda	209	115	-100	-20	-100
Broach	219	146	-100	-72	-100
DNH & Daman	247	117	-100	-79	-100
Gandhinagar	308	18	-100	-100	-100
Kheda	273	249	-100	-100	-100
Mehsana	84	74	-100	-56	-100
Navsari	341	187	-100	-20	-100
Patan	161	985	-100	-100	-100
Sabarkantha	111	36	-100	-20	-100
Valsad	310	107	-100	-42	-92
<b>Saurashtra, Kutch &amp; Diu region</b>					
Jamnagar	1416	61	-100	-70	-100
Kutch	492	45	-100	-100	-100
<b>Maharashtra</b>					
<b>Konkan &amp; Goa</b>					
Goa	502	58	-92	-87	-86
Ratnagiri	308	51	-97	-35	-22
Sindhudurg	464	33	-97	-46	-79
<b>Madhya Maharashtra</b>					
Dhule	196	12	-100	-43	-100
<b>Marathwada</b>					
Latur	197	106	-100	-86	-84
<b>Vidarbha</b>					
Akola	58	66	-100	-48	-96
Bhandara	-97	27	-93	-97	-100
Gondia	-86	70	-97	-22	-100
<b>Orissa</b>					
Angul	159	223	-48	-64	-99
Balasore	83	-12	-69	-86	-97

<b>** More stress</b>					
Orissa	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
Bolangir	39	329	-100	-63	-68
Boudh	215	614	-93	-73	-46
Cuttack	354	29	-46	-79	-92
Deogarh	-8	172	-89	-97	-100
Dhenkanal	186	49	-31	-88	-54
Gajapati	273	26	-99	-54	-89
Ganjam	263	-6	-80	-75	-100
Jagatsingpur	439	66	-27	-50	-70
Jajpur	515	-4	-29	-99	-98
Kandhamal	322	370	-84	-44	-49
Keonjhar	159	75	-52	-55	-98
Khurda	170	51	-55	-65	-78
Koraput	127	-3	-96	-36	-100
Mayurbhanj	89	81	-41	-63	-99
Nawapara	155	346	-87	-100	-86
Nawarangpur	62	40	-36	-100	-100
Nayagarh	354	51	-69	-100	-100
Rayagada	228	51	-100	-34	-100
Sambalpur	33	367	-97	-40	-90
Sonepur	160	308	-100	-72	-100
<b>West Bengal</b>					
GWB					
Midnapore	50	23	-58	-31	-100
Purulia	21	169	-80	-75	-99
<b>Karnataka</b>					
Coastal Karnataka					
Udupi	156	-1	-99	-75	-59

<b>* Stress</b>					
State/Districts	17/09/08	24/09/08	01/10/08	08/10/08	15/10/08
<b>Arunachal Pradesh</b>					
Lohit	-91	-48	11	-88	-87
<b>Assam</b>					
Goalpara	-77	-83	54	-58	-69
Karbj Analog	75	423	-7	-41	-90
Nalbari	-95	-40	57	-27	-81
<b>Orissa</b>					
Kendrapara	299	-23	-17	-71	-89
<b>West Bengal</b>					
GWB					
Bankura	14	120	-15	-64	-100
Birbhum	-20	32	-16	-31	-71
Hooghly	-35	201	82	-98	-87
Howrah	33	126	-10	-89	-93
Murshidabad	-71	-58	185	-78	-100
24 Pargana (N)	-8	-14	108	-34	-94
24 Pargana (S)	-7	60	16	-43	-77
SHWB					
Malda	-47	-72	90	-36	-99
<b>Andhra Pradesh</b>					
Rayalaseema					
Chittoor	-85	-81	-11	-47	-21

	(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)

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

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

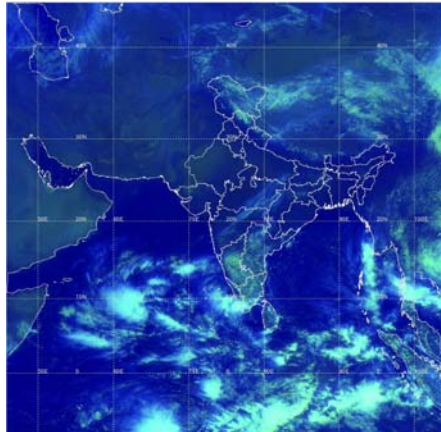
\*Stress (2 weeks continuously deficient to no rain.



**Chief Synoptic Feature (Based on 1430 hours IST observations of 16<sup>th</sup> October, 2008)**

- The western disturbance over Jammu & Kashmir and neighbourhood is moving away eastwards. The ongoing fairly widespread precipitation activity over Western Himalayan Region is likely to decrease from tomorrow onwards. With the eastward movement of the system, night temperatures are likely to fall by 2-3<sup>o</sup> C over northwest India during next 48 hours.
- Morning's feeble low pressure area over southeast Arabian Sea persists. It is likely to become more marked. Scattered to fairly widespread rainfall activity is likely over many parts of south peninsula and Lakshadweep during next 2-3 days.
- Due to prevailing of easterly/east-southeasterly winds, the maximum temperatures are above normal by 4-6<sup>o</sup>C along the west coast and by 2-4<sup>o</sup>C over central India and adjoining areas.

**Satellite image of 5 UTC on 17<sup>th</sup> October 08**



**Zone-wise Forecast**

**NORTHWEST INDIA [J & K, H. P., UTTARAKHAND, PUNJAB, HARYANA, DELHI, WEST UP]**  
(Forecast valid upto 1430 hours IST of 19<sup>th</sup> October, 2008)

- Isolated rain/snow are likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- Isolated rain/thundershowers are likely over the rest region till tomorrow and mainly dry weather is likely thereafter.

**Quantitative District Weather Forecast for next five days:**

- Light rainfall is likely to occur over the region.

**EAST INDIA [EAST UP, JHARKHAND, BIHAR, ORISSA, WEST BENGAL & SIKKIM]**  
(Forecast valid upto 1430 hours IST of 19<sup>th</sup> October, 2008)

- Isolated rain/thundershowers are likely over Sub-Himalayan West Bengal & Sikkim.
- Mainly dry weather is likely over the rest region.

**Quantitative District Weather Forecast for next five days:**

- Light rain is likely to occur over Sub-Himalayan West Bengal & Sikkim and dry weather is likely to prevail in remaining parts of the region.

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**NORTHEAST INDIA** [Arunachal Pradesh, NMM & T, Assam, Meghalaya] (Forecast valid upto 1430 hours IST of 19<sup>th</sup> October, 2008)

- Isolated rain/thundershowers are likely over Arunachal Pradesh.
- Mainly dry weather is likely over the rest region.

**Quantitative District Weather Forecast for next five days:**

- Light rain is likely to occur in Arunachal Pradesh and dry weather is likely to prevail in remaining parts of the region.

**SOUTH INDIA** [TN, AP, KERALA, KARNATAKA, LAKSHADWEEP, ANDAMAN & NICOBAR ISLANDS] (Forecast valid upto 1430 hours IST of 11<sup>th</sup> October, 2008)

- Rain/thundershowers are likely at many places over Tamil Nadu, Kerala, Lakshadweep and Coastal Andhra Pradesh.
- Rain/thundershowers are likely at a few places over south Karnataka, Rayalaseema and Andaman & Nicobar Islands.
- Isolated rain/thundershowers are likely over the rest region.

**Quantitative District Weather Forecast for next five days:**

- Rather moderate rainfall is likely to occur over Kerala and Tamil Nadu, Coastal Andhra Pradesh, light to rather moderate rainfall is likely to occur over South Interior Karnataka, Coastal Karnataka and Rayalaseema, light rain is likely to occur over North Interior Karnataka, Telangana.

**WEST INDIA** [GOA, MAHARASHTRA (OTHER THAN VIDARBHA), GUJARAT, RAJASTHAN] (Forecast valid upto 1430 hours IST of 19<sup>th</sup> October, 2008)

- Isolated rain/thundershowers are likely over South Konkan & Goa, South Madhya Maharashtra and Rajasthan.
- Mainly dry weather is likely over the rest region.

**Quantitative District Weather Forecast for next five days:**

- Light rainfall is likely to occur over South Konkan & Goa, South Madhya Maharashtra and Rajasthan and dry weather is likely to prevail over remaining parts of the region.

**CENTRAL INDIA** [M.P., CHHATTISGARH, VIDARBHA] (Forecast valid upto 1430 hours IST of 19<sup>th</sup> October, 2008)

- Mainly dry weather is likely over the region.

**Quantitative District Weather Forecast for next five days:**

- Mainly dry weather is likely to occur over the region.

**Warning (During next 48 hours):**

- Isolated heavy rainfall is likely over Tamil Nadu, Kerala and Lakshadweep.

**Weather Outlook from 1430 IST of 19<sup>th</sup> to 1430 IST of 21<sup>st</sup> October, 2008 (Based on numerical weather products):**

- Due to approach of a fresh easterly wave, fairly widespread rainfall activity is likely to continue over south peninsula.
- A fresh western disturbance is also likely to affect western Himalayan region.

# 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 (cob maturity / harvesting), Rice (grain maturity / harvesting), Apple (fruit maturity / harvesting), Tea (plucking), new planting of evergreen fruit plants.
- As there was no significant rain during last few weeks in most of the districts of the State and rain is also likely to occur only at isolated places during next five days, farmers are advised to apply irrigation to the crops.
- Weather condition is favourable to undertake intercultural operation to keep the field weed free.
- As prevailing weather condition is favourable, undertake nursery sowing of early pea, cauliflower, cabbage, knoll khol and broccoli in low hills. Select varieties from Snow ball K-1, Palam Uphar, Golden Acre for cabbage, White Viena for Knol khol, Palam Kanchan, Palam Vichitrta and Palam Samridhi for broccoli and Pride of India for cauliflower and Mater ageta-6 for peas.
- Weather condition is also favourable to undertake sowing of carrot, raddish and turnip and also the leafy vegetables like lettuce, methi, palak, dhania etc.
- 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 conditions are favourable for damping off of the cauliflower seedlings. Hence, the farmers are advised to treat the nursery beds with formalin (one part formalin and 7 parts water). The treated beds should be covered with polythene sheets. This formalin treatment should be given 15 to 20 days before seed sowing. The seeds should be sown only when the soil becomes free from formalin vapours.

## Uttarakhand

- **Major Standing Crops:** **Sugarcane (vegetative), Maize, groundnut and vegetables** (vegetative/flowering/early maturity), Rice (grain formation/early maturity in Nainital district), Urd , soybean (pod formation/maturity).
- As there was no significant rain in most of the districts of the State during last week, apply irrigation to the crop.
- Farmers are advised to undertake sowing of potato varieties like Kufri Jyoti, Kufri Asokh and Kufri Anand, pea varieties like Arkil, Pant Ageta, VL-7, Pant Sabjee Mater-3, Ajad Matar-3, VL Mater-3 and garlic varieties like Jamuna Safed & Jamuna Safed-3 etc. in valleys(at 5000 ft height) of Nainital District and sowing of mustard varieties PR-8988, Kranti and Krishna and vegetable pea varieties like Arkle, Pant Sabjee Mater-3, Akja Mater-1 in Udham Singh Nagar districts utilizing the stored soil moisture and undertake transplanting of cabbage variety Pacheti snowball.
- Application of fertilizers and intercultural operation in early sown crops may be carried out.
- Maintain 3 – 5 cm of water in rice the field.

## Punjab

- **Major Standing Crops:** Rice (maturity), Horticultural crops (vegetative), Sugarcane (vegetative), Early sown cotton (boll formation stage), maize, groundnut (late vegetative), and Sunflower (flowering).
- As most of the districts received no rain during last few weeks and no significant rain is likely over the State, farmers are advised to apply irrigation.
- Sowing of berseem and toria can be undertaken using recommended varieties i.e PBT 37/TL 159(toria) by utilizing the stored soil moisture.

- Farmers are advised to continue 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 in irrigated areas.
- To control iron deficiency in sugarcane, spray the crop with ferrous sulphate solution.

### Haryana

- **Major Standing Crops:** Rice (maturity), Sugarcane (vegetative), Horticulture crops (vegetative), Sunflower (flowering), Early sown cotton (boll formation stage) and Bajra (vegetative/flowering).
- As most of the districts received no rain during last few weeks and no significant rain is likely over the State, farmers are advised to apply irrigation.
- Farmers are advised to continue 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 with available irrigation facilities.
- To control iron deficiency in sugarcane, spray the crop with ferrous sulphate solution.

### Delhi

- **Major Standing crops:** Maize (cob maturity / harvesting), arhar (seed maturity / harvesting), bajra (grain maturity / harvesting) and fodder sorghum (vegetative), *Kharif* rice (milk / dough / maturity / harvesting), vegetables (sowing / transplanting / early vegetative / vegetative).
- As there rain is not likely to occur during next five days, farmers are advised to undertake intercultural operation to keep the crop fields weed free.
- Wherever *kharif* rice is at milk / dough stage, apply irrigation to maintain 3 – 5 cm of standing water.
- Remove water from the fields of *kharif* rice 10 – 15 days before harvesting of the crops. Weather condition is favourable to harvest already matured crops of rice.
- As the weather condition is favourable, farmers are advised to prepare land and undertake sowing of mustard, early varieties potato, pulses like gram, pea and lentil and fodder crop like berseem. Select varieties from Pusa Jaikisan, Varuna etc. for sowing mustard and Kufri Bahar, Kufri Anand, Kufri Surya for plating of potato.
- Prevailing weather condition is favourable for land preparation and sowing of raddish and carrot and also for preparation of nurseries for broccolli, pea, tomato and late maturing varieties of cauliflower. Select varieties from Hill Queen, Pusa Deshi, Pusa Rashim etc. for raddish and Pusa Kesar for carrot for sowing. Select varieties from Pusa Broccoli [KTS-1], Palam Vichitra, Kanchan for broccolli, Pusa Hybrid 1, Pusa Hybrid 2, Pusa Rohini etc. for tomato and Pusa Snowball K1, Pusa Himjyoti and Pusa Rohini for cauliflower for nursery sowing.

### Uttar Pradesh

- Major Standing Crops: Summer sugarcane (vegetative), Mango trees (fruit setting), *Kharif* Rice (maturity), *Kharif* pulses and maize (early maturity).
- Sowing one of early varieties of Potatoes Kufri Chandrmukhi, medium and late varieties Kufri Badshah, Kufri Bahar, Kufri Sindoori and Kufri Lalima may be undertaken utilizing the rainfall received during earlier weeks.
- As there was no significant rain in most of the districts during last week, apply irrigation to sugarcane and early sown *kharif* crops.
- Undertake weeding, intercultural operations, application of fertilizers and pesticides in maize.
- Prepare field and undertake sowing of toria utilizing the rainfall received during earlier weeks.
- Undertake transplanting of brinjal, tomato and chillies (plains) and cauliflower in hilly region.

### J & K

- Major Standing Crops: Pulses (harvest), Rice (harvest), Maize (harvesting) in Kashmir division.
- As rain/thundershower are likely at isolated places over the State for the next three days, apply irrigation to the standing crops.

- Undertake sowing of vegetable crops like potato (var. K.Badshah, K.Sindhuri, K.Chipsona & K.Jyoti), radish (var. Pusa Chetki, Japanese white & Pusa Reshmi), carrot (var. Pusa Kesar), turnip (var. PTWG), garlic (var. local, large segmented), spinach (prickly seeded) and methi (P.E.B.K.methi) with a possibility of good amount of rains during next five days in Jammu division. Also undertake sowing of *rabi* crops like barley, mustard, gobhi sarson and gram
- Undertake sowing of pran and garlic with a possibility of good amount of rainfall during next five days in Kashmir divisions. Also continue sowing *rabi* crops like wheat, brown sarson, pea and lentil.
- Undertake harvesting of crops like rice, pulses, maize and fodder crops in Kashmir division.
- Undertake sowing of toria and gobhi sarson in Rajouri and winter vegetable crops like potato, radish, carrot, turnip, garlic, spinach and methi in Leh division.
- **Plant Protection:** In Jammu, weather is congenial for incidences of
- canker in citrus. Monitor the citrus trees and collect and destroy the affected fruits and spray Terramycin @ 1 g/10 litre of water to control the disease.
- blister beetle in maize in Rajouri. Collect and destroy mechanically. Spray Endosulfan @ 0.7%, if required.

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

### **Bihar**

- **Major Standing Crops:** Sugarcane (vegetative), *Kharif* rice (panicle initiation/flowering in north bihar and booting/panicle initiation in south bihar), Maize (vegetative), Pulses (vegetative).
- As rain is not likely to occur during next five days, apply irrigation to the rice and other standing crops.
- **North west alluvial plain zone:** Farmers are advised to plough the fields and continue sowing of toria in the upland.
- Those farmers who could not top dress urea in the standing paddy crop are advised to apply urea@20 kg per hectare in the crop before flowering stage.
- Planting/sowing of sugarcane, rai and yellow mustard, *rabi* maize, pea, sunflower, radish and lentil may be undertaken by utilizing the rainfall during earlier weeks. Farmers are also advised to start land preparation and complete transplanting of tobacco as early as possible. Apply 1-2 gm of Furadon per plant so that the crop may prevent the attack of caterpillars and other insects.
- **Flood affected North East alluvial plain zone:**
- Undertake harvesting of short duration and early varieties of rice like Prabhat and Turanta.
- Preparation field and sowing of *rabi* crops like early potato may be completed and start sowing of *rabi* maize such as Shaktiman 1, 2, 3 and 4 utilizing the rainfall during earlier weeks.
- Start land preparation for wheat to be sown in November.
- In agro forestry plantations, undertake training of branches in subabul for intercropping.
- **South Bihar:** Farmers are advised to prepare field for sowing of toria, short duration sunflower and early potato in south Bihar
- Farmers are advised to start land preparation and sowing of winter maize, potato, oil seeds like rapeseed and mustard, sunflower and pulses like gram, lentil and pea by utilizing the realized rainfall during earlier weeks.. Also undertake sowing of recommended varieties of *rabi* maize like Lakshmi, Devki, Rajender Makka-1 and 2., Hi- stretch and Ganga -11 may be sown after 15th October. Select varieties of Potato like Kufri Chandramukhi, Kufri Ashoka, Rajendra Potato-1,2 and 3, Kufri Badshah, Kufri Lalima, Kufri Kuber and Kufri Alankar. Kufri Lalima, Kufri Kuber and Kufri Alankar can be sown from 15th October while other variety can be sown from 15th October till 15th November. Undertake sowing of fodder crops like Berseem, lucerne and Oat may also be sown from 15th October. During this period autumn planting of sugarcane may also be started. In diara areas, farmers are suggested to broadcast Kalal at the earliest as flood water recedes. They are also advised to prepare land for Parbal planting and procuring of vines of Parbal.

## Jharkhand

- **Major Standing Crops:** *Kharif* rice (flowering), arhar and Early sown maize (early vegetative).
- As rain is not likely to occur during next five days, apply irrigation to the standing crops.
- Farmers are advised to undertake sowing of potato varieties Kufri Chandramukhi, K.Jyoti, K.lalima and O.N.2236 etc. and pea variety Arkel utilising the residual soil moisture.
- Farmers are advised to undertake transplanting of brinjal, tomato, cauliflower with application of organic manure in the fallow upland field as early vegetable crop.
- Undertake intercultural operations, spraying and application of fertilisers in early sown maize, arhar, urd and vegetables.
- To control the attack of gundhi bug in flowering stage of rice, spray Chlorpyrifos dust 10 kg per acre.

## Orissa

- **Major Standing crops:** *Kharif* Rice (panicle initiation stage and early sown crop is early maturity to harvesting stage.), Sugarcane (vegetative), Maize (vegetative), cotton (vegetative), Early sown Jute (vegetative).
- As there was insufficient rainfall in most of the districts during last two weeks, apply irrigation to the standing crops.

### Coastal Orissa:

- In flood affected uplands and up-medium lands, where completely crop damaged (more than 50% population) due to flood, sowing of pre-*rabi* crops like green gram, black gram and *rabi* sesame, castor, groundnut varieties like AK-12-24, Smruty and JI-24 and vegetables may be done. Complete sowing of pre-*rabi* crops such as niger. Also undertake sowing of mustard varieties M-27, TS-29, Anuradha and Parvati under rainfed condition.
- As early sown green gram, black gram and ground nut crops are at maturity stage, continue harvesting by picking up pods in case of green-gram and black-gram.

### Interior Orissa:

- There is little chance by attack of pod-borer in Sesamum crop. If pods are damaged, spray the crop with Endosulphan @ 2ml/lit.

## West Bengal

- **Major Standing Crops:** Sugarcane (cane development), *aman* rice (flowering / milk / dough).
- As there was no significant rain during last week in most of the districts of the State and there is no chance of occurrence of significant rain during next five days, apply irrigation to the standing crops. As dry condition is likely to prevail, also apply irrigation to *aman* rice to maintain 3 – 5 cm water in the field.
- Under prevailing weather condition, undertake intercultural operation to keep the fields weed free.
- After harvesting of *aus* rice and jute, using stored soil moisture due to rainfall during earlier weeks, the farmers are advised to sow seeds of rainfed *toria* and mustard. Sow varieties of *toria* like Agrani, Panchali etc. and white-mustard like Binoy, Subinoy etc.
- Prepare land and undertake transplanting of seedlings, sowing of seeds of winter vegetables like radish, spinach and broccoli etc. and planting of improved varieties of gladiolus bulb.

### Plant Protection:

- Under the prevailing weather condition, there is a chance of attack of green leaf hopper in *aman* rice in Coastal Saline Zone. Control measure should be taken when 10-20 insects per hill are found. Spray any one of the insecticides like Imidaclopride 17.8 SL @ 3 ml / litre or Acephate 75 WP @ 1 g / litre of water and at 7-10 days interval.

## Sikkim

- **Major Standing Crops:** Orange (fruiting/harvesting), large cardamom (capsule maturity/ harvesting), ginger (rhizome formation/development), maize (harvesting), rice (active tillering). This is proper time for sowing of *rabi* crops.
- As there was no significant rainfall during last week in the state and rain/thundershower are likely at isolated places over the State for the next three days, apply irrigation to the standing crops.
- Undertake land preparation and sowing of *rabi* vegetable crops like cabbage, cauliflower, carrot, Chinese cabbage, knol-khol, garden peas radish, turnip, lettuce, celery, spinach, etc in medium and low hills. Start transplanting when the seedlings attain proper age. Also undertake planting of *rabi* potato in medium and low hills.
- Start sowing of wheat and mustard when the temperature is in the range of 20-23<sup>0</sup>C.
- **Plant Protection:** 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 to protect from fungal diseases.
- Weather conditions are congenial for mild incidences of fruit fly and trunk borer in orange. Monitor the trees and undertake plant protection measures to control the pests.
- 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), *sali* rice (flowering / grain formation), vegetables (sowing / vegetative / flowering / fruiting).
- As there was no significant rain in most of the districts of the State during last week and there is no possibility of rain during next five days, farmers are advised to apply irrigation to the standing crops.
- In view of prevailing dry condition farmers are also advised to apply irrigation in *Sali* rice to maintain 3 – 5 cm water in the field.
- As rain is not likely to occur, farmers are advised to undertake intercultural operation to keep the field weed free.
- Under prevailing weather condition, farmers are advised to apply following recommended fertilizers to coconut and areca nut. Fertilizers should be applied in ring method at a depth of 15 cm and in a distance of 90 cm from the plant.
  - Coconut: Urea @ 750 g, SSP @ 1250 g, MOP @ 850 g and borax @ 25 g per plant.
  - Areca nut: Urea @ 115 g, SSP @ 125 g, MOP @ 137 g and borax @ 5 g per plant.
- As the weather condition is favourable, this is proper time to prepare land and sow cauliflower, cabbage, raddish, brinjal, tomato, knolkhol etc.
- Condition is also favourable to undertake sowing of mustard, lentil, pea, *rabi* groundnut and planting of early varieties of potato.
- Details of crop varieties are mentioned in Annexure I.

### Plant protection:

- As there is chance of attack of stem borer, leaf folder, swarming caterpillar etc. in *sali* rice in North Bank Plain Zone and rain is also not likely to occur, farmers are advised to spray quinolphos or nuvacron @ 2 ml / litre of water to control these insects. In case of low lying water logged field of this region, as there is chance of heavy infestation of stem borer, farmers are advised to apply furadon @ 3 – 4 kg / bigha.

### Animal Husbandry:

- Cholera, Chabaka, Anthrax, Galphula etc. diseases may occur in the animals. The deceased animals due to these diseases should be buried in the soil to avoid further spreading of the diseases. For worm related problem the animal should be fed with the medicine 'Piperzine' three times in a month.

## **Arunachal Pradesh**

- **Major Standing crops:** Ginger (rhizome formation), Vegetables (harvesting), Wet seeded rice (flowering/grain formation), *Jhum* rice (maturity/harvesting), Millets (grain formation/harvesting) and maize (maturity).
- As there was no significant rainfall in most of the districts during last week, apply irrigation to the standing crops like millet (cob formation stage) and ginger.
- Farmers are advised to continue land preparation and sowing of rapeseed and mustard, pea and winter cole vegetables and also undertake field preparation for sowing of potato and wheat by utilizing the realized rainfall during earlier weeks.

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

### **Andhra Pradesh**

- **Major Standing Crops:** Groundnut, Jowar, Bajra, Ragi and Maize (all harvesting), Sugarcane (grand growth), Rice (vegetative), Chillies (vegetative)
- As rain/thundershower are likely at a few places over Coastal Andhra Pradesh and at isolated places over remaining parts of the State, apply irrigation to the standing crops like sugarcane and chillies.

#### **Coastal AP**

##### **Plain Land**

- Farmers in Srikakulam are advised to continue harvesting groundnut, jowar, bajra, maize, ragi and maize crops as conducive weather prevails during these days.
- Farmers in upland areas of West Godavari, Krishna, Guntur and Praskasam districts are advised to undertake *rabi* sowing of green gram (var: LGG 450, 460, 407, ML 267 and Pusa 105) and black gram (LBG 623, 20 and T 9) with a possibility of moderate rains during next five days.
- Farmers in the remaining districts are advised to undertake intercultural operations in *khairf* crops.
- **Plant Protection:** Weather conditions are congenial for
- moderate attack of blast and sheath blight in rice (at flowering stage) in Srikakulam, Vijayanagaram and Visakappattinam districts; undertake plant protection measures on a non rainy day.
- whitefly and internode borer in sugarcane in Krishna district; undertake plant protection measures on a non rainy day.
- sucking pests like thrips in tomato and transplanted/direct sown chillies in West Godavari, Krishna, Guntur and Praskasam districts; spray Monocrotophos @ 1.6 ml/litre of water on a non rainy day. Control of thrips will also prevent spread of tobacco streak virus in cotton.
- red mite in brinjal and bhendi; undertake plant protection measures on a non rainy day.

##### **High Altitude Areas**

- Farmers in high altitude regions of Srikakulam, East Godavari, Vijayanagaram, Visakappattinam and Khammam are advised to undertake intercultural operations and application of fertilizers and pesticides in *khairf* crops on a non rainy day.
- Farmers are advised to continue harvesting ragi due to favourable weather conditions.
- Complete sowing of wheat and mustard with a possibility of moderate rains during next five days.
- **Plant Protection:** Weather conditions are congenial for
- leaf folder, gall midge and blast in paddy; undertake plant protection measures on a non rainy day.

### **Rayalaseema**

- Farmers in Anantapur are advised to continue sowing of coriander, Bengal gram, sunflower and maize with a possibility of moderate rains during next five days.
- Groundnut crop at pod formation/development stage shows wilting symptom due to dry spell/insufficient rains; farmers are advised to arrange for supplementary irrigation



- Farmers in Cuddappah are advised to continue transplanting of rice with a possibility of moderate rains during next five days.
- **Plant Protection:** Weather conditions are favourable for mild incidences of
- stem borer in rice in Nellore district; undertake plant protection measures
- stem borer and brown plant hopper in paddy, leaf spot and rust in groundnut, *Heliothis* in tomato and sucking pests in cotton in Cuddappah district; undertake plant protection measures.
- leaf folder in rice, *Heliothis* in tomato and *Maruca* pod borer in red gram and other pulses in Chittoor; undertake plant protection measures.

#### **Telangana**

- Farmers in Karimnagar, Nizamabad and Adilabad districts are advised to apply supplementary irrigation to red gram, maize and turmeric as dry spell condition prevails in the districts for 2-3 weeks.
- **Plant Protection:** Weather conditions are favourable for mild incidences of
- stem borer in rice. Spray Carbofuran @ 10 kg/acre.
- *Spodoptera* in soyabean in Adilabad; undertake plant protection measures.
- Stem borer in rice, leaf folder in red gram, *Spodoptera* in groundnut, leaf spot in turmeric, powdery mildew, phyllody and Bihar hairy caterpillar in sesamum and sucking pests in cotton in Karimnagar, Nizamabad, Warranag and Medak districts; undertake plant protection measures.

#### **Karnataka**

- **Major Standing Crops:** Annual sugarcane (grand growth), Early sown *Kharif* crops (grain formation/development). This is proper time for sowing of *rabi* crops.
- As there was no significant rainfall during last week except in Bidar, Bijapur and Kodagu districts and rain/thundershower are likely at a few places over South Interior Karnataka and at isolated places over rest of the regions of Karnataka, apply irrigation to the standing crops. Postpone irrigation in the above districts as there was excess rainfall during last week.

#### **Coastal Karnataka**

- Farmers in Udupi and Dakshin Kannada districts are advised to undertake intercultural operations in rice, arecanut, coconut, cashew and banana with a possibility of good amount of rainfall during next five days.
- **Plant Protection:** Due to cloudy weather, leaf folder and case worm may attack rice. Monitor the crop for the pests and undertake plant protection measures.
- Due to high humidity in Udupi, Uttar Kannada and Dakshin Kannada districts, Colerago may attack arecanut. Monitor the crop and spray Bordeaux mixture @ 1%. Also attack of stem borer in ginger, turmeric and cardamom in Uttar Kannada; undertake plant protection measures.

#### **North Interior Karnataka**

- Due to possibility of moderate rainfall during next five days, farmers in Bellary, Bijapur, Bagalkot and Koppal districts are advised to undertake intercultural operations, application of fertilizers and pesticides in early sown sunflower and cotton.
- Farmers in Bidar region are advised to undertake sowing of *rabi* crops like irrigated wheat (October 15<sup>th</sup> to November 15<sup>th</sup>) and Bengal gram (October and November) with realized rainfall during last week and also with a possibility of moderate rainfall during next five days. Also undertake planting of sugarcane during October and November and sowing of vegetable crops like brinjal, tomato, cabbage and cauliflower in the nursery.
- Due to possibility of moderate rainfall during next five days, farmers in Dharwad are advised to undertake sowing of wheat, chickpea, safflower, sorghum and sunflower.
- Farmers in Bijapur, Chitradurga and Shimoga are advised to undertake sowing of jowar, Bengal gram and safflower during *rabi* season with a possibility of good amount of rainfall during next five days. Select among A1 and GBS 964 for Bengal gram and A1, S-144 for safflower.
- Farmers in Raichur are advised to continue sowing of sunflower with a possibility of moderate rainfall during next five days. Also undertake sowing of Bengal gram and safflower during *rabi* season.

**Plant Protection:** Due to cold and cloudy weather conditions, attack of sucking pests in cotton is reported in Dharwad district. Also necrosis is noticed in sunflower. Spray Dimethoate @ 1.7 ml to control sucking pests in cotton, To control sunflower necrosis, spray Imidachloprid 17.8 S.L @ 0.25 ml or Oxidematon 25 EC @ 1.5 ml per liter of water.

- Weather conditions are favourable for mild incidences of:
- citrus canker in Bijapur; spray Streptomycin Sulphate (0.5 g) + Copper oxi-chloride (2g)/liter of water.
- sucking pests in early sown Bt cotton in Gulbarga; undertake plant protection measures.

#### **South Interior Karnataka**

- Farmers are advised to arrange for seeds and other inputs for undertaking sowing of *rabi* crops as north east monsoon is approaching over the region.
- Farmers in Bangalore, Kolar and Tumkur are advised to undertake intercultural operations and application of fertilizers in early sown crops on a non rainy day.
- Farmers in Mysore and Tumkur districts are advised to undertake transplanting of rice (Thella, Hamza, KRH 1, Mangala, Mukthi, Bilimukthi and Rasi) and planting of sugarcane (CO varieties – 419, 62175, 7804, 8371 and 86032) with the canal water.

**Plant Protection:** weather conditions are favourable for

- stem borer and leaf roller in rice in Mysore, Mandya and Chamrajnagar districts; undertake plant protection measures on a non rainy day to control the pests.
- Tikka leaf spot in groundnut, sucking pests like thrips, aphids and white fly in cotton, blast in rice and rhizome rot and soft rot in ginger in Shimoga. Spray Carbendazim 2.1 g/litre of water on a non rainy day to control rice blast and Tikka leaf spot in groundnut. Spray Emidochloprid @ 0.6gm/ltr of water on a non rainy day to control sucking pests in cotton Spray Ridomil MZ @ 2g/litre and Streptocycline @ 0.5g/litre on a non rainy day to control rhizome rot and soft rot in ginger.

#### **Kerala**

- **Major Standing Crops:** *Virippu* rice (harvesting), *Mundakan* rice (nursery/transplanting) and Plantation crops (Coconut, Arecanut, Pepper and Cashew).
- Farmers in southern districts of Kerala are advised to undertake transplanting of mundakan rice by utilizing the northeast monsoon rainfall.
- Farmers in the districts of northern parts of the State are advised to wait for receipt of rain to undertake transplanting of mundakan rice.
- As rain/thundershowers are likely to occur at many places for the next three days, farmers are advised to postpone irrigation to plantation crops. Arrange for drainage facilities as heavy rainfall is likely to occur at isolated places during next 48 hours.
- Undertake intercultural operations and application of fertilizers and pesticides in plantation crops (coconut, arecanut, pepper and cashew) after spells of rain.
- Farmers in Thiruvananthapuram, Thrissur, Malappuram, Kasargod, Kozhikode and Kannur districts are advised to undertake transplanting of *mundakan* rice with a possibility of good amount of rainfall during next five days.
- Farmers in Thrissur district are advised to undertake transplant the tomato seedlings with a possibility of moderate rains during next five days. Also undertake sowing of *Amaranthus* and cowpea as intercrops in plantation crops. Select Co 1 variety for *Amaranthus* as it is resistant for leaf spot.
- Farmers in Thrissur, Malappuram, Kasargod, Kozhikode and Kannur districts are advised to complete planting of Nendran banana.

**Plant Protection:** Weather conditions are favourable for the attack of

- stem bleeding in coconut and blight in cashew in Malappuram, Kasargod, Kozhikode and Kannur districts. Spray Calyxin @ 5 ml/litre after spells of rain to control stem bleeding and 1% Bordeaux mixture to control blight. Also stem borer in vegetable crops like tomato, brinjal and chillies. Spray Sevin @ 4 g/litre of water after spells of rain.

- foot rot in black pepper in Malappuram, Kasargod, Kozhikode and Kannur districts; spray Copper oxy chloride @ 1% after spells of rain.
- mahali disease in arecanut in Thrissur, Malappuram, Kasargod, Kozhikode and Kannur districts; apply 1% Bordeaux mixture after spells of rain.
- wilt and anthracnose in pepper in Thiruvananthapuram; apply *Pseudomonas* culture @ 10 g/liter of water after spells of rain.

### Tamilnadu

- **Major Standing Crops:** Rice (*Kuruvai*) (grain maturity), Early, Mid Sugarcane (harvesting stage), Special season sugarcane (grand growth stage), Sorghum (grain development/ maturity), Cotton (boll maturity/picking stage). This is proper time for sowing of *rabi* crops.
- Northeast monsoon arrived over the state and farmers are advised to undertake land preparation and sowing of *rabi* crops utilizing the rainfall.
- Postpone irrigation to groundnut, sugarcane and pulse crops as rain/thundershowers are likely to occur at many places over the State during next three days. Arrange for drainage facilities as heavy rainfall is likely to occur at isolated places during next 48 hours.
- Farmers in Namakkal region are advised to undertake sowing of black gram and green gram. Select among C0 7, Vamban 4 and Vamban 5.
- Farmers in Chennai, Cuddalore, Kanchipuram, Thiruvarur, Thiruvannamalai and Villupuram districts are advised to undertake sowing of vegetable crops.
- Farmers in Thirunelveli, Tuticorin and Virudunagar are advised to undertake sowing of *rabi* crops. Also undertake pre-monsoon sowing of cotton in the main field.
- 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 spot in turmeric in Namakkal; spray Zineb @ 2.5 ml/litre of water after spells of rain.
- internode borer in sugarcane and fruit borer in bhindi in Kovilpatty, Thirunelveli, Tuticorin and Virudunagar districts. Use *Trichogramma chilonis* @ 1 cc/acre after spells of rain.
- seedling rot/damping off in chillies nursery in Thirunelveli, Tuticorin and Virudunagar districts. Spray Copper oxy chloride @ 2.5 g/liter of water after spells of rain.

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

#### Maharashtra

- **Major Standing Crops:** Sugarcane (pre-seasonal & suru) (elongation / cane development), irrigated cotton (boll formation / boll maturity in Nasik, Pune, Latur and Aurangabad division), *kharif* groundnut (pod maturity / harvesting in Kolhapur & Pune, pod formation / pod maturity in other parts of the State), *kharif* cotton (boll formation in Nasik, Pune, Latur, Amravati and Aurangabad divisions and squaring / boll formation in Nagpur division), *kharif* rice (grain formation / grain maturity in Konkan, flowering / grain formation in Pune, Nashik and Kolhapur divisions and panicle initiation / flowering in Nagpur division), soybean (pod maturity / harvesting in Kolhapur and pod maturity in other districts), tur (flowering in Pune and Nashik divisions & branching / flowering in Latur, Amravati and Nagpur divisions), sunflower (seed formation), black gram and green gram (pod maturity / picking), safflower & *rabi* jowar in germination in Pune division.
- As there was no significant rain during last week and rain is also not likely to occur during next five days, apply irrigation to maintain 3 – 5 cm water in *kharif* rice field and also apply irrigation to *kharif* groundnut, sunflower, jowar and tur at pod formation / grain formation stage.

- The weather is favourable for carrying out intercultural operation to keep the crop fields weed free.
- As the prevailing weather condition is favourable, this is proper time for sowing of *rabi* jowar in Pune, Solapur, Kolhapur and Ahmednagar. Select varieties from Maldandi 35-1, RSV-833, Selection-3, Phule Yeshodha & Mauli. Mauli variety gives good result in the medium soil. Use 10 kg seeds per hectare for sowing.
- As the prevailing weather condition is favourable, this is proper time for sowing of *rabi* safflower in Madhya Maharashtra & Marathwada & West Vidarbha. For sowing of safflower, varieties like Bhima, Tara and Girna may be chosen. Use 45 x 25 cm distance between rows of crop. Give seed treatment of Azotobactor before sowing.
- Under prevailing weather condition, this is proper time for planting of pre-seasonal sugarcane in all the districts of Madhya Maharashtra.
- Weather condition is favourable to undertake harvesting of already matured soybean in Kolhapur, Pune, Aurangabad, Latur and Amravati divisions and picking of matured pods of green gram and black gram in all divisions and harvesting of matured groundnut & bajra in Kolhapur and Pune divisions.

#### **Plant protection**

- Infestation of tobacco caterpillar in soybean is continued in Nagpur, Wardha, Bhandara, Chandrapur and Gadchiroli districts of Vidarbha. The intensity of infestation is reducing gradually. Monitor the crop for the pest and spray Chlorpyrifos @ 2 litres / ha.
- There is chance of infestation of Red leaf on BT Cotton in Central Maharashtra Plateau Zone & in cotton in Central Vidarbha Zone. For control spray 80 % water soluble Sulphur @ 25 gm or Bavistin @ 10 gm in 10 liters of water.
- Red gram is likely to be infested by leaf folder. For the control of leaf folder, spray 5 % Neem extract or Dimethoate @ 10 ml or 50 % Carbaril water soluble powder @ 40 gm or Monocrotophos @ 15 ml in 10 liters water. Spray 500 liters solution per hectare.

#### **Gujarat**

- **Major Standing Crops:** Sugarcane (cane development), *Kharif* groundnut (pod maturity / harvesting), *Kharif* cotton (boll formation / boll maturity), *Kharif* rice (milk / dough / maturity), Maize (cob maturity / harvesting), Bajra (grain maturity / harvesting), castor (vegetative / spike formation), mustard, mustard and vegetables (sowing / transplanting).
- As there was no rain during last week in most of the districts of the State and there is no chance of occurrence of significant rain during next five days, apply irrigation to sugarcane, *kharif* cotton, castor and vegetables. Also apply irrigation to *kharif* rice to maintain 3 – 5 cm water in the field.
- As dry condition is likely to prevail, undertake intercultural operation in above mentioned crops to keep the fields weed free.
- Prevailing weather is conducive for harvesting of already matured crops of *Kharif* groundnut, maize and bajra and also for picking of *kharif* cotton.
- As weather condition is favourable, prepare land and undertake sowing of mustard and carrot in North Gujarat region. For sowing select the certified high yielding varieties of mustard *viz.*, Guj – Mustard-1, 2, 3 and carrot like Pusa Kesar. Adopt seed rate of 6 to 7 Kg / ha for carrot.
- As weather condition is favourable, prepare land and undertake sowing of wheat and chickpea in Bhal and Coastal zone. Sowing of wheat and chickpea should be done during October. Select varieties like Arnej – 206, GW-1 & 2 for wheat and Gujarat Chickpea – 1 & 2 for chickpea for sowing. Seed rate for chickpea crop sowing is 50 to 60 kg ha<sup>-1</sup>.
- Under prevailing weather condition, undertake land preparation and complete sowing of coriander in Anand, Dahod, Kheda, Panchmahal and Vadodara districts within this week. Delayed sowing will lead to the attack of aphids.
- Weather condition is also favourable to undertake sowing of vegetable crops like brinjal, tomato and cabbage in North Saurashtra region.

### Plant protection

- There is chance of infestation of mealy bug in cotton in North Saurashtra region. 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 leaf roller in Ahmedabad, Anand, Bhavnagar, Dahod, Kheda, Panchmahal and Vadodara districts and stem borer in Ahmedabad and Bhavnagar districts in rice. Spray Phosphomidan @ 3 ml / litre of water or Monocrotophos @ 3.6 ml / litre of water to control the pests. Also flower and shoot borer may attack in bhindi in the above districts except in Ahmedabad and Bhavnagar. Spray Endosulfan @ 2 ml / litre of water to control flower and shoot borer in bhindi.

### Rajasthan

- **Major Standing Crops:** Groundnut, bajra, jowar, maize, sesame, cluster beans, red gram, cotton, vegetables. All the crops are at grain development/maturity stage. This is proper time for sowing *rabi* crops.
- As there was no significant rainfall during last week in the state and dry weather is likely to prevail for the next three days, apply irrigation to the crops.

### East Rajasthan

- This is proper time for sowing of mustard in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur districts. Undertake land preparation and sowing of mustard. Select among Pusa gold, Maya, Vasundhara, PR 15, 45, Bio 902, NRCSB 506, 101 and Varuna.
- This is proper time for sowing of radish (Pusa Rasmi), carrot, mid cauliflower and winter brinjal in Ajmer and Tonk. Undertake land preparation and sowing of the crops. Before sowing treat the seeds with Thiram @ 2.5 gm per kg seeds.
- Undertake field preparation and sowing of rainfed taramira, toria and pea in Alwar, Tonk, Dausa and Jaipur. Select among Arkil, Hara bona, VL-3, Jawahar Matar-4 and Matar Ageti-6 for pea.
- Start field preparation for the sowing of rainfed mustard in Ajmer, Jaipur, Tonk and Dausa. Select Pusa Jai Kisan (Bio-902), PR-15 (Kranti), T-59 (Varuna) and Laxmi are improved varieties of mustard. Drill 30 kg nitrogen and 15 kg phosphate at the sowing. Treat seeds with Mencozeb @ 2.5 gm per kg of seed.
- Due to rainfall and high wind speed in adjoining areas of Udaipur during last week, lodging of maize and sorghum crops is reported; farmers are advised to harvest the ear heads of sorghum and pick up the cobs of maize.
- Undertake field preparation and sowing of gram and mustard in Udaipur by utilizing the rainfall during last week. Use higher seed rate in mustard because the prevailing temperature is around 28 deg C, which is three degree higher than the temperature required for normal sowing and the mean temperature for sowing of mustard is 25 degree C.
- Undertake field preparation and sowing of cauliflower, cabbage and *rabi* onion, carrot (Nantis, Pusa), raddish (Japanese white and Hill Queen). Pusa drun head, Late drum head , selection – 8 for cabbage and Pusa sanobal K-1 in irrigated areas of Jaipur and Dausa
- **Plant Protection:** Weather conditions are favourable for mild incidences of
- white fly and jassids in cotton in Alwar and Dholpur; spray Dimethoate or Methyl Demeton @ 1 litre/ha.
- sucking pests in vegetable crops in Banswara; spray Dimethoate @ 2 ml/litre of water.
- Complete Plantation of guava, Mango, Lime, Ber, Amla, Pomegranate and others in Alwar, Bharatpur, Dholpur, Karauli and Sawai Madhepur districts.
- In Ajmer and Tonk cauliflower is affected with leaf eating insects like sawfly, flea betel and lemon butterfly. Farmers are advised to spray Melathion 5% or Carboryl 5% dust @ 20 kg /ha or Melathion 50 E.C 1 ml or Endosulphon 35 E.C 1.5 ml /lit water.

### West Rajasthan

- Farmers in Barmer, Churu, Jalore and Jodhpur are advised to undertake sowing of *rabi* crops during these days. Select among Pusa kalyani, T-59, Varuna, Pusa Gold, RH 30A, PR-15, Bio-902, Pusa Jai

Kisan for mustard. Farmers in Sriganaganagar and Hanumangarh may select among Pusa Gold, RGN 13, RGN-48, Varuna T-59 laxmi and RH 8812 varieties of mustard. Postpone sowing of mustard when temperature is higher.

- Undertake sowing of sweet gourd, cucumber, pumpkin, bitter gourd, tinda, tomato and ladies finger in Barmer, Churu, Jalore and Jodhpur.
- Farmers in Sriganaganagar and Hanumangarh are advised to undertake sowing of Kino.
- **Plant Protection:** Weather conditions are favourable for mild incidences of leaf eating caterpillar in fruits and vegetable crops in Barmer, Churu, Jalore and Jodhpur; spray Qunalphos @ 1.5 kg or Endosulphan @ 4.25 kg/hectre. Attack of leaf curl virus and bacterial leaf spot in chillies; spray Monocrotophos @ 1 ml/litre of water to control vector and to prevent spread of virus. To control bacterial leaf spot, spray Streptocycline @ 200 mg/litre of water + Copper oxy chloride @ 2.5 g/litre of water.
- pink boll worm in cotton and white fly in sugarcane in Sriganaganagar and Hanumangarh; undertake plant protection measures.

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

### Madhya Pradesh

- **Major Standing Crops:** Sugarcane (grand growth), soyabean (pod formation/development), maize (cob formation/development), cotton (flowering) and vegetable crops (nursery/transplanting). This is proper time for sowing of *rabi* crops.
- As there was no significant rainfall during last week and dry weather is likely to prevail over the state, apply irrigation to the standing crops.
- Prepare land for sowing of *rabi* crops in Morena, Bhind, Gwalior, Shivpuri Guna Sheopur and Ashoknagar districts.
- Undertake land preparation and planting of vegetables like mid cauliflower, cabbage, potato and field pea in Jabalpur, Katni, Panna, Rewa, Satna, Seoni and Sidhi districts and cauliflower in Bhind, Gwalior, Shivpuri Guna, Sheopur, Ashoknagar.
- Farmers in Indore, Mandsaur, Ratlam, Neemuch, Shajapur, Ujjain and Rajgarh are advised to undertake sowing of mustard, toria, sunflower and safflower. Undertake sowing of potato and pea as early crops if irrigation facilities are available.
- Farmers in Sehore, Bhopal, Damoh, Raisen, Sagar, Vidisha are advised to undertake sowing of *rabi* crops like wheat (Sujata, HW 2004 and HI 1500), gram ( J.G 130, J.G 16, J.G 11, Jaki 92-18), chick pea (KAK 2 and J.G.K 1) and lentil (masoor) (J.L.S 1, J.L. 3, I.P.L 81)
- Undertake sowing of potato, berseem, garlic, pea, coriander, spinach and methi in Chhindwara and Betul districts with irrigation facilities at the earliest. Also undertake planting of *autumn* sugarcane and onion. Under rainfed conditions, undertake sowing of mustard, toria and safflower.
- Farmers in Tikamgarh, Datia and Chattarpur are advised to undertake land preparation and sowing of mustard, chana and alsii. Do seed treatment before sowing. Also undertake sowing of marigold. (Pusa basanti, full orange). Complete sowing of raddish (Pusa rashim, Pusa white, Desi, Punjab white), carrot (Pusa kesar, meghali), spinach (Pusa jyot, pusa harit, pant composite-1) and methi (kasuri and pusa early). Undertake nursery for cabbage (Golden acre and Pride of India).
- **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. Create smoke during the night in cattle shed to prevent cattle from mosquitoes and bees.
- Undertake vaccination in cattle against Anthrax, Galgotu, Black quarter and FMD in Indore, Mandsaur, Ratlam, Neemuch, Shajapur, Ujjain and Rajgarh. Also undertake deworming.
- **Plant Protection:** Weather conditions are favourable for sucking pests in fruits and vegetable crops in Jabhua hills zone, spray Methyl Dimethon 25 EC 1 ml/litre. Also fruit borer in tomato; spray Tricophos @ 2 ml/litre of water.

- Leaf eating and sucking pests on Soyabean, black gram and green gram, with grain eating insects in gird zone. For control spray 500 ml of Methyl Parathyon 50 in 500 litre water /ha or sprinkle Methyl Parathyon (2%) powder 15 to 20 Kg /ha.
- Spotted bollworm and leaf eating caterpillar in cotton in Chhindwara and Betul districts. Spray Endosulfan @ 1.5 litres/ha to control the pests.
- Red pumpkin beetle in cucurbits, sucking pest and powdery mildew in vegetables in Indore, Mandsaur, Ratlam, Neemuch, Shajapur, Ujjain and Rajgarh districts. Apply Methyl parathion @ 2% dust before fruiting to control red pumpkin beetle, spray Dimethoate @ 1.5 ml/litre of water to control sucking pests and spray Carbendazime @ 1 g/litre of water to control powdery mildew in vegetables.

### **Chattisgarh**

- **Major Standing Crops:** Sugarcane (vegetative), soybean and black gram (seed maturity / harvesting), groundnut (seed maturity / harvesting), *kharif* rice (flowering / milk / dough), pigeon pea, green gram and sesame (seed formation / early maturity).
- As there was no significant rain during last few weeks in most of the districts of the State and mainly dry weather is likely to prevail during next five days, apply irrigation to the standing crops. Under prevailing weather condition, also apply irrigation to *kharif* rice to maintain 3 – 5 cm water in the field.
- Weather condition is conducive to undertake intercultural operation to keep the field weed free.
- Due to clear weather conditions, undertake harvesting of soybean, black gram and groundnut.
- As weather condition is favourable, this is proper time to prepare land and transplant tomato, chilli and brinjal if nurseries are ready.
- Present temperature trend is suitable for proper germination of niger and sugarbeet in Bastar Plateau Zone. Hence, it is advised to prepare the fields well pulverized and complete the sowing of these crops during this month.
- After the harvest of *kharif* crops, undertake ploughing to conserve soil moisture and control weeds. This also favours timely sowing of *rabi* crops.

### **Plant protection**

- Due to hot and humid weather conditions incidence of blast may occur in rice crop in Bastar Plateau Zone. Hence, it is advised to keep watch over the crops and in case of higher incidence spray Hinosan or Kitazin @ 30 ml / 15 litres of water.
- Present weather conditions may also favour the incidences of leaf roller and gundhi bug in rice in Bastar Plateau Zone. Spray chloropyriphos @ 2 ml / litre of water to control leaf roller and carbaryl @ 2 ml / litre of water to control gundhi bug.

## Annexure I

### Crop varieties of Assam

- **Cauliflower:** Improved Japanese, Pusa Synthetic, Snowball-16, Pusa Ketki etc.
- **Cabbage:** Golden Acre, Pride of India, Pusa Mukta, Drum head, Eclipse Drum Head, Hybrid-10, Hybrid-20 etc.
- **Raddish:** Pusa Himani, Pusa Deshi etc.
- **Brinjal:** Pusa Kranti, Pusa Purple Long, Pusa Purple Round, JC-1, JC-2 etc.
- **Tomato:** Punjab Chhuhara, Punjab Kesri, Sioux, Pusa Ruby, Arka Abha, Arka Alok, Arka Abhijit, BT-1, Bilahi-1, Bilahi-2.
- **knolkhol:** White Vienna, Purple Vienna.
- **Rabi groundnut:** JL-24.
- **Early varieties of potato:** Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Badshah, Kufri Sindhuri etc.
- **Mustard:** TS-36, TS-38, Varuna, TM-2, TM-4, M-27 etc.
- **Pea:** T-163, Rasna, Banevila, Arkel, Azad, Alankar etc.
- **Lentil:** B-77, L-9-12, P-L-406 etc.



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