

July 11, 2011

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### Advancement of the monsoon falters

The advancement of the rainfall faltered sharply as the rainfall *for the week ended July 06, 2011* stood at 25.1% below normal as against 10% above normal rains in the preceding week. However *cumulative rainfall* for the season till July 06, 2011 stood 1.2% above normal.

The number of divisions with Excess/ Normal rainfall continued to stand at ~27 (out of 36) for the week ended July 06, 2011. The total rainfall till date is about 24.5% of the normal (see table VI) rainfall for the full season compared with 22.9% for the corresponding period last year.

### Lower rains in important agricultural states

For the week ended July 06, 2011, rainfall in rain dependent areas came down to 29.9% below normal from 15.9% above normal in preceding week. However rainfall for the season still stood at 6.9% above normal in rain dependent areas. However certain key agri states like Gujarat, Maharashtra and Andhra Pradesh received 22-80% below normal rainfall for the season till date.

### Reservoir levels at 27% of their FRL's

The reservoir levels stand at 27% of their full reservoir level (FRL) and at twice of their LPA.

### Forecast rainfall for parts of central, eastern and north eastern regions

As the advancement of the monsoon continues, parts of central, eastern and north eastern regions in India are likely to receive a good amount of rainfall with rest of India expected to receive lesser rainfall.

### Major crop acreage at ~30mn hectares down 3.7%yoy

Acreage under major crops increased decreased to ~30mn hectares from 31.1mn hectares last year; decrease of 3.7%. Sown area under Cotton and Coarse cereals decreased by ~32.5% and 10.7% respectively as compared to the same period last year whereas area under rice, pulses and sugarcane saw an increase.

**TABLE – I Cropped area for major crops**

Mn hectres	9-Jul-10	8-Jul-11	% yoy chg
Rice	7.2	7.4	2.8
Coarse cereals	5.8	5.2	-10.7
Oilseeds	5.8	5.4	-6.9
Pulses	0.8	2.3	174.8
Sugarcane	4.7	5.1	8.5
Cotton	6.6	4.5	-32.5
<b>Total</b>	<b>31.1</b>	<b>29.9</b>	<b>-3.7</b>

**TABLE – II: Advancement of southwest monsoon**

% deviation to normal	8-Jun-11	15-Jun-11	22-Jun-11	29-Jun-11	6-Jul-11
Well Irrigated areas	11.9	18.2	33.3	69.6	51.6
Adequately Rain-fed areas	54.0	18.4	18.3	-2.1	-8.5
Rain Dependent Areas	6.3	1.2	34.2	21.3	6.9
<b>India</b>	<b>17.1</b>	<b>3.4</b>	<b>11.3</b>	<b>10.7</b>	<b>1.2</b>

Source: Indian Meteorological Department, Emkay Research

**TABLE – III: Distribution of rainfall**

No of divisions	8-Jun-11	15-Jun-11	22-Jun-11	29-Jun-11	6-Jul-11
Excess	9	15	17	17	12
Normal	16	10	9	9	15
Deficient/Scanty	11	11	10	10	9

Source: Indian Meteorological Department, Emkay Research

TABLE – IV: Distribution of rainfall during southwest monsoon till July 06, 2010

Division	From June 1 to					
	July 6, 2011			July 7, 2010		
	Actual (MM)	Normal (MM)	Deviation (%)	Actual (MM)	Normal (MM)	Deviation (%)
<b>Well Irrigated Areas</b>	<b>166</b>	<b>110</b>	<b>51.6</b>	<b>73</b>	<b>116</b>	<b>-36.9</b>
East Uttar Pradesh	214	151	41.4	53	161	-67.0
West Uttar Pradesh	192	106	81.2	77	114	-32.2
Haryana, Chandigarh And Delhi	82	67	23.6	92	69	33.7
Punjab	109	73	50.0	91	75	21.1
<b>Adequately Rain-Fed Areas</b>	<b>604</b>	<b>660</b>	<b>-8.5</b>	<b>649</b>	<b>713</b>	<b>-8.9</b>
Konkan And Goa Region	933	928	0.5	896	944	-5.1
Coastal Karnataka	1,294	1,103	17.3	1,049	1,183	-11.3
Kerala	854	819	4.3	824	886	-7.0
Sub-Himalayan West Bengal And Sikkim	575	616	-6.6	708	631	12.2
Assam & Meghalaya	419	627	-33.1	562	728	-22.8
Nagaland, Manipur, Mizoram And Tripura	416	492	-15.4	459	501	-8.4
Arunachal Pradesh	359	618	-42.0	512	594	-13.8
Uttaranchal	331	232	42.8	232	243	-4.4
Andaman & Nicobar Islands	493	513	-3.9	636	552	15.2
Lakshadweep	208	386	-46.0	419	386	8.7
<b>Rain Dependent Areas</b>	<b>179</b>	<b>168</b>	<b>6.9</b>	<b>164</b>	<b>177</b>	<b>-7.0</b>
Gangetic West Bengal	487	311	56.4	234	315	-25.7
Orissa	263	274	-3.8	222	287	-22.6
Jharkhand	345	258	33.8	134	262	-49.1
Bihar	323	230	40.6	147	243	-39.5
Himachal Pradesh	152	135	12.1	246	138	78.5
Jammu & Kashmir	111	90	24.2	109	88	24.4
West Rajasthan	29	46	-37.1	73	46	56.9
East Rajasthan	159	93	71.4	86	99	-13.2
West Madhya Pradesh	248	150	65.5	130	170	-23.6
East Madhya Pradesh	338	197	72.1	130	225	-42.3
Gujarat Region	22	189	-88.3	138	200	-31.0
Saurashtra And Kutch	29	124	-77.0	156	130	19.5
Madhya Maharashtra	154	189	-18.4	234	192	22.1
Marathwada	99	175	-43.6	295	183	61.2
Vidarbha	166	226	-26.5	261	244	7.1
Chattisgarh	226	252	-10.5	173	278	-37.5
Coastal Andhra Pradesh	123	134	-8.1	210	137	53.7
Telangana Region	139	178	-22.0	206	182	13.2
Rayalaseema	75	81	-6.9	117	76	53.5
North Interior Karnataka	128	127	0.7	157	122	28.6
South Interior Karnataka	203	187	8.5	177	194	-9.2
Tamil Nadu And Pondicherry	62	56	10.7	87	56	54.7
<b>India</b>	<b>218</b>	<b>215</b>	<b>1.2</b>	<b>204</b>	<b>227</b>	<b>-10.1</b>
<b>Excess/Normal/Deficient/Scanty</b>	<b>No of divisions</b>			<b>No of divisions</b>		
Excess	12			12		
Normal	15			13		
Deficient/Scanty	9			11		

Source: Indian Meteorological Department, Emkay Research

TABLE – V: Distribution of rainfall during southwest monsoon for the week ended July 06, 2011

Division	July 6, 2011			July 7, 2010		
	Actual (MM)	Normal (MM)	Deviation (%)	Actual (MM)	Normal (MM)	Deviation (%)
<b>Well Irrigated Areas</b>	<b>50.5</b>	<b>41.0</b>	<b>23.4</b>	<b>49.4</b>	<b>44.6</b>	<b>10.7</b>
East Uttar Pradesh	78.9	51.8	52.3	23.9	57.1	-58.1
West Uttar Pradesh	55.1	41.4	33.1	65.1	45.6	42.8
Haryana, Chandigarh And Delhi	22.6	25.3	-10.7	71.9	26.5	171.3
Punjab	14.0	32.7	-57.2	56.8	34.6	64.2
<b>Adequately Rain-Fed Areas</b>	<b>116.0</b>	<b>160.4</b>	<b>-27.7</b>	<b>129.3</b>	<b>157.0</b>	<b>-17.6</b>
Konkan And Goa Region	102.4	265.8	-61.5	223.7	269.8	-17.1
Coastal Karnataka	249.0	281.0	-11.4	287.4	282.0	1.9
Kerala	66.2	199.5	-66.8	156.4	206.9	-24.4
Sub-Himalayan West Bengal And Sikkim	177.1	152.1	16.4	149.2	139.0	7.3
Assam & Meghalaya	117.9	141.1	-16.4	78.5	132.3	-40.7
Nagaland, Manipur, Mizoram And Tripura	92.5	93.4	-1.0	57.6	82.2	-29.9
Arunachal Pradesh	97.6	134.1	-27.2	58.2	118.2	-50.8
Uttaranchal	103.6	73.1	41.7	123.1	79.6	54.6
Andaman & Nicobar Islands	77.2	86.5	-10.8	200.8	90.2	122.6
Lakshadweep	54.4	65.7	-17.2	99.0	60.0	65.0
<b>Rain Dependent Areas</b>	<b>34.4</b>	<b>49.1</b>	<b>-29.9</b>	<b>62.4</b>	<b>54.1</b>	<b>15.3</b>
Gangetic West Bengal	61.6	80.4	-23.4	34.0	76.8	-55.7
Orissa	52.0	68.1	-23.6	67.6	80.0	-15.5
Jharkhand	36.5	70.7	-48.4	22.1	75.4	-70.7
Bihar	113.6	74.4	52.7	32.2	73.0	-55.9
Himachal Pradesh	18.9	46.5	-59.4	120.0	47.9	150.5
Jammu & Kashmir	18.5	29.6	-37.5	18.4	29.9	-38.5
West Rajasthan	4.9	17.6	-72.2	24.3	19.2	26.6
East Rajasthan	12.4	36.0	-65.6	59.1	37.9	55.9
West Madhya Pradesh	33.7	50.8	-33.7	73.5	61.7	19.1
East Madhya Pradesh	35.1	71.6	-51.0	70.8	81.8	-13.4
Gujarat Region	6.7	66.2	-89.9	76.8	81.3	-5.5
Saurashtra And Kutch	4.5	42.7	-89.5	83.1	48.8	70.3
Madhya Maharashtra	24.9	49.5	-49.7	49.6	57.3	-13.4
Marathwada	29.4	37.6	-21.8	176.5	38.1	363.3
Vidarbha	22.9	65.3	-64.9	116.2	76.7	51.5
Chattisgarh	36.3	80.0	-54.6	83.8	89.7	-6.6
Coastal Andhra Pradesh	47.5	35.3	34.6	71.5	37.0	93.2
Telangana Region	59.5	48.2	23.4	103.8	47.0	120.9
Rayalaseema	23.8	14.7	61.9	22.7	16.2	40.1
North Interior Karnataka	36.8	26.2	40.5	42.5	23.8	78.6
South Interior Karnataka	34.7	53.1	-34.7	41.8	58.9	-29.0
Tamil Nadu And Pondicherry	27.2	11.3	140.7	7.1	14.2	-50.0
<b>India</b>	<b>44.7</b>	<b>59.7</b>	<b>-25.1</b>	<b>64.5</b>	<b>63.0</b>	<b>2.4</b>

Source: Indian Meteorological Department, Emkay Research

Excess/Normal/Deficient/Scanty	No of divisions	No of divisions
Excess	9	13
Normal	7	10
Deficient/Scanty	20	11

Source: Indian Meteorological Department, Emkay Research

TABLE – VI: Rainfall till date as % of full season

Division	From June 1 to					
	July 6, 2011			July 7, 2010		
	Actual (MM)	FS (MM)	Deviation (%)	Actual (MM)	FS (MM)	Deviation (%)
<b>Well Irrigated areas</b>	<b>166</b>	<b>717</b>	<b>23.2</b>	<b>73</b>	<b>717</b>	<b>10.2</b>
East Uttar Pradesh	214	907	23.6	53	907	5.9
West Uttar Pradesh	192	769	24.9	77	769	10.0
Haryana, Chandigarh and Delhi	82	466	17.6	92	466	19.7
Punjab	109	494	22.0	91	494	18.5
<b>Adequately Rain-fed areas</b>	<b>604</b>	<b>1,972</b>	<b>30.6</b>	<b>649</b>	<b>1,972</b>	<b>32.9</b>
Konkan and Goa region	933	2,790	33.4	896	2,790	32.1
coastal Karnataka	1,294	3,163	40.9	1,049	3,163	33.2
Kerala	854	2,130	40.1	824	2,130	38.7
sub-Himalayan West Bengal and Sikkim	575	1,916	30.0	708	1,916	37.0
Assam & Meghalaya	419	1,942	21.6	562	1,942	28.9
Nagaland, Manipur, Mizoram and Tripura	416	1,390	29.9	459	1,390	33.0
Arunachal Pradesh	359	1,702	21.1	512	1,702	30.1
Uttaranchal	331	1,206	27.5	232	1,206	19.2
Andaman & Nicobar Islands	493	1,680	29.3	636	1,680	37.9
Lakshadweep	208	981	21.2	419	981	42.7
<b>Rain Dependent Areas</b>	<b>179</b>	<b>764</b>	<b>23.5</b>	<b>164</b>	<b>764</b>	<b>21.5</b>
Gangetic West Bengal	487	1,130	43.1	234	1,130	20.7
Orissa	263	1,163	22.6	222	1,163	19.1
Jharkhand	345	1,079	32.0	134	1,079	12.4
Bihar	323	1,019	31.7	147	1,019	14.4
Himachal Pradesh	152	772	19.6	246	772	31.9
Jammu & Kashmir	111	523	21.3	109	523	20.8
west Rajasthan	29	262	11.0	73	262	27.8
east Rajasthan	159	629	25.3	86	629	13.7
West Madhya Pradesh	248	901	27.5	130	901	14.4
East Madhya Pradesh	338	1,086	31.2	130	1,086	11.9
Gujarat region	22	907	2.4	138	907	15.2
Saurashtra and Kutch	29	486	5.9	156	486	32.1
madhya Maharashtra	154	695	22.2	234	695	33.6
Marathwada	99	706	14.0	295	706	41.7
Vidarbha	166	972	17.1	261	972	26.9
Chattisgarh	226	1,200	18.8	173	1,200	14.5
coastal Andhra Pradesh	123	570	21.6	210	570	36.8
Telangana region	139	762	18.2	206	762	27.1
Rayalaseema	75	376	20.0	117	376	31.2
north interior Karnataka	128	485	26.3	157	485	32.4
south interior Karnataka	203	667	30.4	177	667	26.5
Tamil Nadu and Pondicherry	62	310	20.1	87	310	28.1
<b>India</b>	<b>218</b>	<b>889</b>	<b>24.5</b>	<b>204</b>	<b>889</b>	<b>22.9</b>

Source: Indian Meteorological Department, Emkay Research

# Full season is normal rainfall from June 1 to September 30

TABLE –VII: Reservoir levels in select areas between July 01-July 07, 2011

	Live capacity at FRL (BCM)	Current storage (BCM)	Storage as % of live capacity		
			This year	Last year	10-yr avg
<b>Himachal Pradesh</b>					
Gobind Sagar(Bhakra)	6.2	2.7	44	17	32
Pong Dam	6.2	3.4	55	7	16
<b>Total</b>	<b>12.4</b>	<b>6.1</b>	<b>49</b>	<b>12</b>	
<b>Punjab</b>					
Thein	2.3	1.1	46	28	38
<b>Rajasthan</b>					
Mahi Bajaj Sagar	1.7	0.0	2	4	17
Jhakam	0.1	0.0	5	6	16
Rana Pratap Sagar	1.4	0.2	13	21	37
<b>Total</b>	<b>3.3</b>	<b>0.2</b>	<b>7</b>	<b>12</b>	
<b>Orissa</b>					
Hirakud	5.4	0.4	8	9	18
Balimela	2.7	0.4	15	4	5
Salanadi	0.6	0.1	10	19	30
Rengali	3.4	0.9	25	2	9
Machkund(Jalput)	0.9	0.6	66		24
Upper Kolab	0.9	0.1	13	3	19
Upper Indravati	1.5	0.2	11	2	23
<b>Total</b>	<b>15.3</b>	<b>2.6</b>	<b>17</b>	<b>2</b>	
<b>Maharashtra</b>					
Jayakwadi(Paithon)	2.2	0.3	15	4	18
Koyana	2.7	1.1	41	31	45
Bhima(Ujjani)	1.5	0.2	14	25	
Isapur	1.0	0.5	49	18	24
Mula	0.6	0.1	13	7	17
Yeldari	0.8	0.3	35	12	8
Girna	0.5	0.0	5	7	15
Khadakvasla	0.1	0.0	41	38	36
Upper Vaitarna	0.3	0.1	37	21	40
Upper Tapi	0.3	0.1	42	62	22
Pench (Totaladoh)	1.1	0.3	29	5	8
<b>Total</b>	<b>11.0</b>	<b>3.1</b>	<b>28</b>	<b>18</b>	
<b>Uttar Pradesh</b>					
Matatila	0.7	0.2	22	59	26
Rihand	5.6	0.9	17	3	6
<b>Total</b>	<b>6.4</b>	<b>1.1</b>	<b>17</b>	<b>9</b>	
<b>Madhya Pradesh</b>					
Gandhi Sagar	6.8	0.0	0	1	4
Tawa	1.9	0.5	28	41	24
Bargi	3.2	0.5	16	4	6
Bansagar	5.2	0.7	13	3	2
Indira Sagar	9.7	0.5	5	2	0
<b>Total</b>	<b>26.9</b>	<b>2.2</b>	<b>8</b>	<b>5</b>	
<b>Andhra Pradesh</b>					
Srisaillam	8.3	8.2	99	98	79
Nagarjuna Sagar	6.8	6.5	94	38	55
Sriramsagar	2.3	0.4	17	6	
Somasila	2.0	1.4	68	68	21
Lower Manair	0.6	0.6	100	100	12
<b>Total</b>	<b>20.0</b>	<b>17.1</b>	<b>85</b>	<b>64</b>	
<b>Total India</b>	<b>151.8</b>	<b>40.9</b>	<b>27</b>	<b>13</b>	<b>15</b>

Source: Central water commission, Emkay Research

FRL: Full reservoir level

BCM: Billion cubic meters

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