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Voluntary _ Public

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India

Post: New Delhi

Monsoon Update - Second Half Forecast Calls for More Rain

Report Categories:

Agriculture in the News

Agricultural Situation

Agriculture in the Economy

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Climate Change/Global Warming/Food Security

Cotton and Products

Grain and Feed

Oilseeds and Products

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Report Highlights:

A strong monsoon continues to improve soil and crop conditions across India. While most states are seeing adequate or above-average rainfall, a few states have deficits and many state reservoir levels remain below the 10-year average. The Indian Meteorological Department forecasts monsoon rainfall for the second half of the season to be above the long period average.

General Information:**Above Normal Monsoon Rains Expected for the Second Half of the Season**

As a whole, India received normal rainfall from June 1 through July 31 with zero percent departure from the long-period average (LPA) for the southwest monsoon. On August 1, the Indian Meteorological Department (IMD) forecast rainfall to be 107 percent above the LPA for the second half (August and September) of the monsoon season. According to the IMD, southwest monsoon rainfall was 11 percent below the LPA in June but 7 percent above the LPA for July.

Table 1. India: Regional Rainfall Distribution from June 1, 2016 – August 4, 2016

Regions	Actual (mm)	Normal (mm)	Percentage Departure
Northwest India	334.0	319.8	4
Central India	598.8	534.6	12
South Peninsula	413.2	404.1	2
East and Northeast India	712.9	835.4	-15
All India	499.1	490.9	2

Source: Indian Meteorological Department

Several States Witness Deficit Rains

While the monsoon covered the entire country by July 13, rainfall distribution has varied by region. North, central and southern India received excess rainfall. Eastern and northeast India are 15 percent deficient as of August 4, 2016. Even in states where excess rainfall occurred, some districts remain deficient, too. According to IMD data, there are 8 meteorological subdivisions covering 18 percent of the area of the country that have received deficit rains.

Quickened Kharif Planting Pace as Soil Moisture Good

According to spatial analysis, surface and subsurface soil moisture remains higher than last year for India. The planting pace of Kharif crops is 6 percent faster than last year. Planting of pulses has seen a 41 percent increase this season whereas cotton planting has seen a 9 percent decline (see Table 2).

Reservoir Levels for All India Remain Below 10-Year Average

A number of regions still see below 10-year average reservoir levels across the 91 major reservoirs of India (see Table 3). States having better storage than last year include Maharashtra, Madhya Pradesh, Andhra Pradesh and Telangana. States having lower levels than last year are Himachal Pradesh, Punjab, Rajasthan, West Bengal, Tripura, Jharkhand, Odisha, West Bengal Gujarat, Uttar Pradesh, Uttarakhand, Chhattisgarh, Kerala and Tamil Nadu. Karnataka reservoir levels are about the same as last year.

Progress of rain over India (Relative departure from normal)
(June 1- August 3, 2016)

SI No	Meteorological Sub Division	Normal (June-Sep)	01-Jun - 30-Jun 2016	01-Jun - 29-Jul 2016	01-Jun - 30-Jul 2016	01-Jun - 31-Jul 2016	01-Jun - 01-Aug 2016	01-Jun - 02-Aug 2016	01-Jun - 03-Aug 2016	Jun 1-August 3 2016		
										ACT (mm)	NOR (mm)	Def/Sur p (mm)
1	And. & Nic. Islands	1683	-2	-16	-15	-14	-13	-13	-12	772	879	-107
2	Arunachal Pradesh	1768	-19	1	0	0	-1	-2	-3	1038	1070	-32
3	Assam & Meghalaya	1793	-38	-26	-26	-26	-27	-27	-28	787	1096	-309
4	Naga, Mani, Mizo, Trip.	1497	-41	-26	-26	-25	-25	-26	-27	635	866	-231
5	SHW. Bengal & Sikkim	2006	17	18	18	16	15	15	15	1317	1148	+169
6	Gangetic W. Bengal	1168	-31	-11	-10	-11	-8	-6	-6	575	613	-38
7	Odisha	1150	-24	-19	-20	-20	-19	-17	-16	496	587	-91
8	Jharkhand	1092	-37	-20	-21	-21	-21	-20	-19	458	566	-108
9	Bihar	1028	-24	-6	-6	-5	-7	-7	-8	498	544	-45
10	East Uttar Pradesh	898	-28	0	3	3	5	4	2	447	437	+11
11	West Uttar Pradesh	769	-16	22	23	25	25	22	21	434	359	+74
12	Uttarakhand	1229	4	15	16	15	14	13	11	716	646	+70
13	Hary., Chand. & Delhi	466	-29	-13	-10	-10	-11	-12	-13	201	230	-29
14	Punjab	492	17	-13	-14	-16	-19	-21	-22	198	253	-56
15	Himachal Pradesh	825	6	-29	-27	-27	-24	-24	-25	326	437	-110
16	Jammu & Kashmir	535	-2	2	2	0	-3	-2	-5	272	285	-13
17	West Rajasthan	263	10	-20	-15	-15	-14	-11	-9	128	140	-13
18	East Rajasthan	616	-3	32	34	34	35	39	42	439	309	+130
19	W. Madhya Pradesh	876	4	42	40	37	38	43	45	622	429	+193
20	E. Madhya Pradesh	1051	-26	38	36	35	33	33	32	692	523	+169
21	Gujarat region	901	-76	-41	-41	-39	-37	-34	-32	338	497	-159
22	Saurashtra & Kutch	474	-65	-56	-52	-49	-45	-45	-46	154	285	-131
23	Konkan & Goa	2914	14	16	16	17	21	24	26	2413	1914	+500
24	M. Maharashtra	729	-30	9	8	8	8	14	22	501	411	+90
25	Marathwada	683	10	28	27	31	32	30	31	460	350	+109
26	Vidarbha	955	-3	38	36	36	36	35	34	693	516	+178
27	Chhattisgarh	1147	-9	-4	-5	-5	-6	-5	-3	580	600	-20
28	C. Andhra Pradesh	581	77	18	16	18	17	17	16	323	278	+46
29	Telangana	755	47	17	16	16	17	16	17	464	397	+67
30	Rayalaseema	398	90	61	62	60	58	57	55	263	170	+93
31	T. Nadu & Pondicherry	317	44	37	35	34	32	30	28	154	120	+34
32	Coastal Karnataka	3084	11	-14	-14	-14	-15	-16	-17	1769	2131	-362
33	North int. Karnataka	506	31	25	23	26	25	26	25	315	253	+62
34	South int. Karnataka	660	22	6	5	6	4	3	2	386	377	+9
35	Kerala	2040	-8	-24	-24	-25	-25	-26	-27	1052	1432	-381
36	Lakshadweep	999	-3	-3	-5	-6	-7	-8	-9	585	640	-55

Table 2: India. Kharif 2016 Sown Area (in million hectares)

Crop	Area sown in 2016-17 on July 29, 2016	Area sown in 2015-16 on July 29, 2015	Normal Area on July 29	Change
Rice	23.192	22.568	22.611	2.80%
Pulses	11.035	7.825	7.675	41.00%
Coarse Cereals	15.076	14.484	14.709	4.15%
Oilseeds	15.978	14.798	14.506	8.00%
Sugarcane	4.683	4.591	4.621	2.00%
Jute & Mesta	0.754	0.772	0.812	-2.30%
Cotton	9.233	10.191	10.419	-9.40%
Total	79.951	75.229	75.353	6.30%

Source: Ministry of Agriculture, Government of India

Table 3: India. Storage Status at 91 Major Reservoirs on July 28, 2016
Regional Water Storage Levels as Percentage of Full Reservoir

Region	2016	2015	10 years Average
Northern Region	36	69	47
Eastern Region	32	45	33
Western Region	36	34	41
Central Region	50	53	33
Southern Region	31	31	45
All India	38	87	94

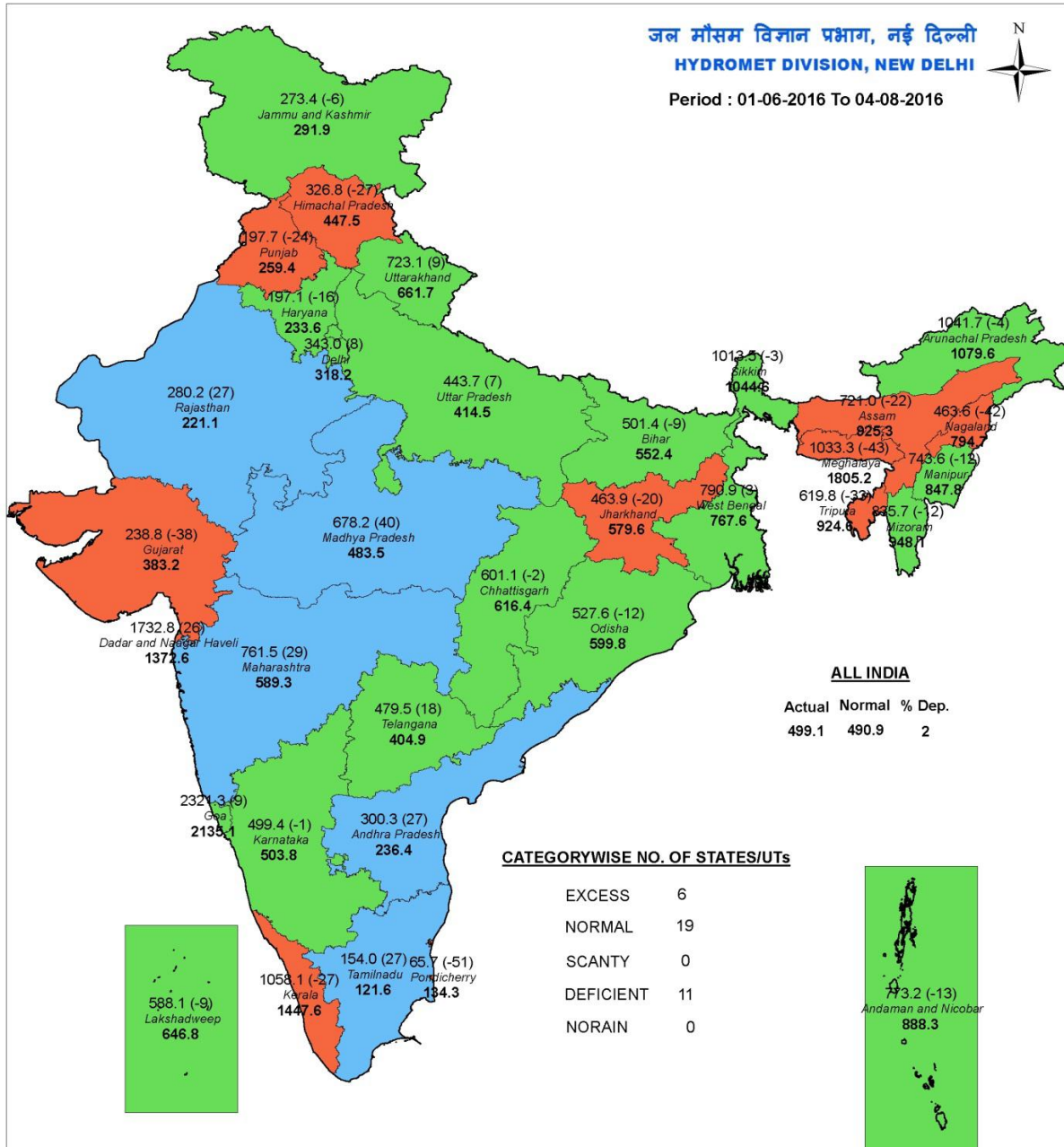
Source: Ministry of Water Resources, Government of India

Table 4: India. Total Kharif 2016 Sowing Position (in million hectares) by State

State	Normal Area on July 29	Area Sown in 2016-17 on July 29, 2016	Area Sown in 2015-16 on July 29, 2015	Change
Andhra	1.421	2.027	1.268	59.9%
Arunachal	0.146	0.233	0.120	94.2%
Assam	1.434	1.432	1.517	-5.6%
Bihar	2.430	2.753	2.721	1.2%
Chhattisgarh	3.335	3.290	3.369	-2.3%
Goa	0.005	0.005	0.005	0.0%
Gujarat	5.277	5.151	4.975	3.5%
Haryana	2.185	2.311	2.400	-3.7%
Himachal	0.399	0.404	0.401	0.7%
Jammu and	0.482	0.485	0.490	-1.0%
Jharkand	0.932	1.032	1.007	2.5%
Karnataka	3.938	5.021	3.312	51.6%
Kerala	0.080	0.055	0.040	37.5%
Madhya	10.426	10.993	10.318	6.5%
Maharashtra	11.871	13.308	11.449	16.2%
Manipur	0.171	0.189	0.200	-5.5%
Meghalaya	0.093	0.105	0.104	1.0%
Mizoram	0.038	0.041	0.042	-2.4%
Nagaland	0.183	0.220	0.195	12.8%
Odisha	2.836	2.583	2.579	0.2%
Punjab	3.530	3.500	3.615	-3.2%
Rajasthan	8.444	8.884	9.508	-6.6%
Sikkim	0.007	0.011	0.011	0.0%
Tamil Nadu	0.693	0.730	0.776	-5.9%
Telangana	2.448	2.766	2.625	5.4%
Tripura	0.077	0.115	0.128	-10.2%
Uttar Pradesh	9.327	9.135	9.082	0.6%
Uttarakhand	0.579	0.612	0.586	4.4%
West Bengal	2.270	2.182	2.112	3.3%
Puducherry	-	-	-	-
Others	0.299	0.382	0.275	38.9%
All-India	75.356	79.955	75.230	6.3%



STATE RAINFALL MAP



SUBDIVISION-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:04-08-2016				Period:01-06-2016 To 04-08-2016			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
	REGION : EAST AND NORTH EAST INDIA	5.7	12.5	-54%		712.9	835.4	-15%	
1	ARUNACHAL PRADESH	3.6	9.4	-61%	S	1041.7	1079.6	-4%	N
2	ASSAM & MEGHALAYA	5.6	17.0	-67%	S	792.0	1112.5	-29%	D
3	N M M T	9.3	12.6	-26%	D	644.1	878.5	-27%	D
4	SHWB & SIKKIM	1.0	17.0	-94%	S	1317.7	1164.7	13%	N
5	GANGETIC WEST BENGAL	11.0	12.2	-10%	N	586.5	625.2	-6%	N
6	JHARKHAND	5.6	13.2	-58%	D	463.9	579.6	-20%	D
7	BIHAR	2.9	8.7	-67%	S	501.4	552.4	-9%	N
	REGION : NORTH WEST INDIA	6.0	7.8	-23%		334.0	319.8	4%	
1	EAST UTTAR PRADESH	1.2	8.2	-86%	S	448.6	445.0	1%	N
2	WEST UTTAR PRADESH	2.6	10.1	-74%	S	436.2	369.5	18%	N
3	UTTARAKHAND	6.7	15.3	-56%	D	723.1	661.7	9%	N
4	HAR. CHD & DELHI	0.6	7.1	-92%	S	201.5	237.3	-15%	N
5	PUNJAB	0.3	6.3	-96%	S	197.7	259.4	-24%	D
6	HIMACHAL PRADESH	0.5	10.8	-96%	S	326.8	447.5	-27%	D
7	JAMMU & KASHMIR	1.0	6.6	-85%	S	273.4	291.9	-6%	N
8	WEST RAJASTHAN	11.5	3.6	218%	E	139.0	143.7	-3%	N
9	EAST RAJASTHAN	19.1	10.0	91%	E	457.9	318.6	44%	E
	REGION : CENTRAL INDIA	20.1	12.1	66%		598.8	534.6	12%	
1	ODISHA	31.5	12.4	154%	E	527.6	599.8	-12%	N
2	WEST MADHYA PRADESH	34.5	13.7	152%	E	656.0	442.4	48%	E
3	EAST MADHYA PRADESH	15.0	14.2	6%	N	706.7	536.7	32%	E
4	GUJARAT REGION	16.3	10.7	52%	E	354.3	507.4	-30%	D
5	SAURASHTRA & KUTCH	1.2	5.2	-77%	S	155.4	290.0	-46%	D
6	KONKAN & GOA	46.4	27.3	70%	E	2459.5	1941.1	27%	E
7	MADHYA MAHARASHTRA	23.4	7.4	216%	E	525.0	418.6	25%	E
8	MARATHWADA	5.2	6.1	-15%	N	464.8	356.4	30%	E
9	VIDARBHA	7.2	13.0	-44%	D	700.6	528.7	33%	E
10	CHHATTISGARH	18.4	16.5	12%	N	601.1	616.4	-2%	N
	REGION : SOUTH PENINSULA	6.0	5.9	2%		413.2	404.1	2%	
1	A & N ISLAND	1.4	9.4	-85%	S	773.2	888.3	-13%	N
2	COASTAL ANDHRA PRADESH	3.5	4.5	-21%	D	327.0	282.3	16%	N
3	TELANGANA	15.4	7.7	100%	E	479.5	404.9	18%	N
4	RAYALASEEMA	0.0	3.0	-100%	NR	263.4	173.4	52%	E
5	TAMILNADU & PONDICHERY	0.2	2.1	-90%	S	153.7	121.8	26%	E
6	COASTAL KARNATAKA	34.9	25.7	36%	E	1805.7	2156.6	-16%	N
7	N. I. KARNATAKA	6.1	4.0	53%	E	320.8	256.8	25%	E
8	S. I. KARNATAKA	3.8	6.1	-38%	D	390.1	383.5	2%	N
9	KERALA	6.5	15.3	-58%	D	1058.1	1447.6	-27%	D
10	LAKSHADWEEP	3.0	6.4	-53%	D	588.1	646.8	-9%	N
	COUNTRY :	10.7	9.6	12%		499.1	490.9	2%	

Source: Indian Meteorological Department, Government of India