GOVERNMENT OF INDIA MINISTRY OF EARTH SCIENCES RAJYA SABHA

UNSTARRED QUESTION No. 1955 TO BE ANSWERED ON MONDAY, DECEMBER 31, 2018

RAINFALL DURING MONSOON

1955. SHRI NARAYAN LAL PANCHARIYA:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether any state has received less than normal rainfall during the last monsoon;
- (b) if so, the details thereof;
- (c) details regarding normal rainfall and rainfall during this monsoon in the State of Rajasthan;
- (d) details regarding accuracy of rainfall predictions made by weather department during the last monsoon; and
- (e) details regarding States where variances between predicted and actual rainfall are high?

ANSWER

MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTRY OF EARTH SCIENCES (Dr. HARSH VARDHAN)

- (a) Yes Sir. Eight states and 1 Union Territory have received less than normal rainfall during the 2018 monsoon.
- (b) The state wise details which received less than normal rainfall during the monsoon season (June Sept.), 2018 are given in Annexure-I.
- (c) District wise details of normal rainfall and actual rainfall forthe State of Rajasthan during the monsoon-2018 are given in Annexure-II.
- (d) & (e) During the last southwest monsoon 2018, as per the 2nd stage Long Range Forecast made by IMD on 30th May 2018, the predicted rainfall over the country as a whole was NORMAL (i.e. 96% to 104% of Long Period Average (LPA) with a model error of 4%). As per the "End of Season Report Monsoon-2018", the forecast was mostly accurate as the country observed 91% rainfall of its LPA during June September 2018, slightly lower than the error limit.

Main features of the 2nd stage LRF are given in Annexure-III and the Rainfall statistics for SW Monsoon2018 is given in Fig-1 & Annexure-IV.

Annexure-I

The state wise details which received less than normal rainfall during monsoon season (June - Sept.), 2018

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S.	STATES	SEASON:	MONSOON, 2018		
NO.	STATES	ACTUAL(mm)	NORMAL(mm)	% DEP.	
1	ARUNACHAL PRADESH	1198.4	1768.0	-32%	
2	MEGHALAYA	1652.6	2786.8	-41%	
3	MANIPUR	644.1	1404.5	-54%	
4	TRIPURA	1165.1	1489.1	-22%	
5	WEST BENGAL	1102.0	1390.4	-21%	
6	JHARKHAND	784.3	1091.9	-28%	
7	BIHAR	770.8	1027.6	-25%	
8	GUJARAT	484.6	672.7	-28%	
9	LAKSHADWEEP (UT)	553.2	998.5	-45%	

Large Excess: +60% or more

Excess: +20% to +59%

Normal: +19% to -19%

Deficient: -20% to -59%

Large Deficient: -60% to -99%

Annexure-II

The details of Rajasthan state regarding normal rainfall and rainfall during Monsoon-2018

S.	SEASON (01.06.2018 TO 30.09.2018) MONS			
NO.	STATE/DIDTRICTS	ACTUAL(mm)	NORMAL(mm)	
	RAJASTHAN	393.6	419.0	-6%
(I)	EAST RAJASTHAN	635.3	615.8	3%
1	AJMER	421.0	429.6	-2%
2	ALWAR	518.1	555.3	-7%
3	BANSWARA	808.3	831.8	-3%
4	BARAN	946.6	792.2	19%
5	BHARATPUR	755.4	557.6	35%
6	BHILWARA	606.7	580.9	4%
7	BUNDI	608.4	655.9	-7%
8	CHITTORGARH	706.8	709.7	0%
9	DAUSA	592.8	612.1	-3%
10	DHOLPUR	708.2	650.0	9%
11	DUNGARPUR	761.8	637.8	19%
12	JAIPUR	508.6	524.6	-3%
13	JHALAWAR	958.5	855.1	12%
14	JHUNJHUNU	402.1	410.0	-2%
15	KARAULI	591.8	637.4	-7%
16	КОТА	719.4	746.3	-4%
17	PRATAPGARH	1135.0	845.8	34%
18	RAJSAMAND	514.4	506.0	2%
19	SAWAI MADHOPUR	1008.7	664.0	52%
20	SIKAR	565.6	402.5	41%
21	SIROHI	409.0	868.6	-53%
22	TONK	512.3	566.0	-9%
23	UDAIPUR	562.3	591.3	-5%
(II)	WEST RAJASTHAN	201.7	263.2	-23%
1	BARMER	123.2	243.4	-49%
2	BIKANER	259.1	228.7	13%
3	CHURU	324.4	313.7	3%
4	HANUMANGARH	138.1	252.5	-45%
5	JAISALMER	110.5	158.4	-30%
6	JALORE	155.9	394.2	-60%
7	JODHPUR	232.0	274.5 -15%	
8	NAGAUR	287.1	348.5 -18%	
9	PALI	316.9	446.7	-29%
10	SRI GANGANAGAR	172.4	201.4	-14%

2nd Stage Long Range Forecast for the 2018 Southwest Monsoon Rainfall

30 May 2018

HIGHLIGHTS

- Rainfall over the country as a whole for the 2018 southwest monsoon season (June to September) is most likely to be NORMAL (96% to 104% of long period average (LPA)).
- Quantitatively, monsoon season (June to September) rainfall for the country as a whole is likely to be 97% of the LPA with a model error of ±4%.
- Region wise, the season rainfall is likely to be 100% of LPA over North-West India, 99% of LPA over Central India, 95% of LPA over South Peninsula and 93% of LPA over North-East India all with a model error of ± 8 %.
- The monthly rainfall over the country as whole is likely to be 101% of its LPA during July and 94% of LPA during August both with a model error of ± 9 %.

India Meteorological Department

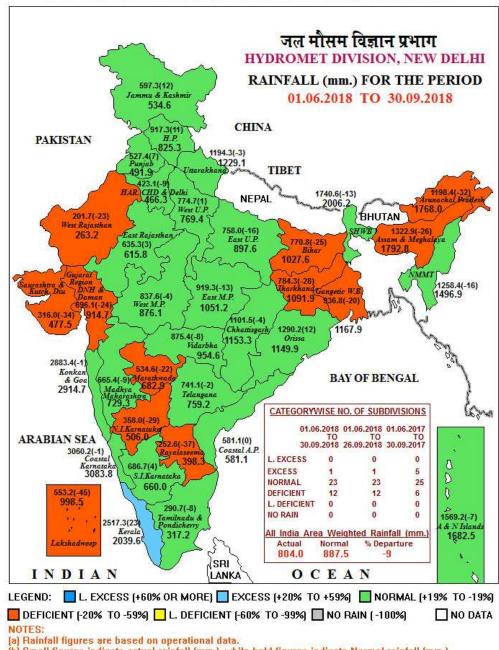
End of Season Report for the 2018 Southwest Monsoon 2 November 2018

HIGHLIGHTS

- The season (June-September) rainfall over the country as a whole was 91% of its long period average (LPA).
- Seasonal rainfalls over Northwest India, Central India, South Peninsula and Northeast (NE) India were 98%, 93%, 98% and 76% of respective LPA.
- Out of the total 36 meteorological subdivisions, 23 subdivisions constituting 68% of the total area of the country received normal season rainfall, 1 subdivision received excess rainfall (1% of the total area), and 12 subdivisions (31% of the total area) received deficient season rainfall.
- Monthly rainfall over the country as a whole was 95% of LPA in June, 94% of LPA in July, 92% of LPA in August, and 76% of LPA in September.

Figure-1

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



 [[]a] Rainfall figures are based on operational data.
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

Annexure IV

SUBDIVISION-WISE RAINFALL (MM) DISTRIBUTION

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1 ODISHA 1290.2 1149.9 12% N 2 WEST MADHYA PRADESH 837.6 876.1 -4% N 3 EAST MADHYA PRADESH 919.3 1051.2 -13% N 4 GUJARAT REGION 696.1 914.7 -24% D 5 SAURASHTRA & KUTCH 316.0 477.5 -34% D 6 KONKAN & GOA 2883.4 2914.7 -1% N 7 MADHYA MAHARASHTRA 665.4 729.3 -9% N 8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N 10 CHHATTISGARH 1101.5 1153.3 -4% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N <						
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3 EAST MADHYA PRADESH 919.3 1051.2 -13% N 4 GUJARAT REGION 696.1 914.7 -24% D 5 SAURASHTRA & KUTCH 316.0 477.5 -34% D 6 KONKAN & GOA 2883.4 2914.7 -1% N 7 MADHYA MAHARASHTRA 665.4 729.3 -9% N 8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHATTISGARH 1101.5 1153.3 -4% N 10 CHATTISGARH 1101.5 1153.3 -4% N 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D		WEST MADHYA PRADESH	837.6	876.1	-4%	N
5 SAURASHTRA & KUTCH 316.0 477.5 -34% D 6 KONKAN & GOA 2883.4 2914.7 -1% N 7 MADHYA MAHARASHTRA 665.4 729.3 -9% N 8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D		EAST MADHYA PRADESH			-13%	N
5 SAURASHTRA & KUTCH 316.0 477.5 -34% D 6 KONKAN & GOA 2883.4 2914.7 -1% N 7 MADHYA MAHARASHTRA 665.4 729.3 -9% N 8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D		GUJARAT REGION	696.1	914.7	-24%	D
7 MADHYA MAHARASHTRA 665.4 729.3 -9% N 8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N SOUTH PENINSULA 704.4 716.1 -2% 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9	5	SAURASHTRA & KUTCH	316.0	477.5	-34%	D
8 MARATHWADA 534.6 682.9 -22% D 9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N SOUTH PENINSULA 704.4 716.1 -2% 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP	6	KONKAN & GOA	2883.4	2914.7	-1%	N
9 VIDARBHA 875.4 954.6 -8% N 10 CHHATTISGARH 1101.5 1153.3 -4% N SOUTH PENINSULA 704.4 716.1 -2% 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	7	MADHYA MAHARASHTRA	665.4	729.3	-9%	N
CHHATTISGARH 1101.5 1153.3 -4% N SOUTH PENINSULA 704.4 716.1 -2% 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	8	MARATHWADA	534.6	682.9	-22%	D
SOUTH PENINSULA 704.4 716.1 -2% 1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	9	VIDARBHA	875.4	954.6	-8%	N
1 A & N ISLAND 1569.2 1682.5 -7% N 2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	10	CHHATTISGARH	1101.5	1153.3	-4%	N
2 COASTAL ANDHRA PRADESH 581.1 581.1 0% N 3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D		SOUTH PENINSULA	704.4	716.1	-2%	
3 TELANGANA 741.1 759.2 -2% N 4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	1	A & N ISLAND	1569.2	1682.5	-7%	N
4 RAYALASEEMA 252.6 398.3 -37% D 5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	2	COASTAL ANDHRA PRADESH	581.1	581.1	0%	N
5 TAMILNADU & PUDUCHERRY 290.7 317.2 -8% N 6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	3	TELANGANA	741.1	759.2	-2%	N
6 COASTAL KARNATAKA 3060.2 3083.8 -1% N 7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	4	RAYALASEEMA	252.6	398.3	-37%	D
7 N. I. KARNATAKA 358.0 506.0 -29% D 8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	5	TAMILNADU & PUDUCHERRY	290.7	317.2	-8%	N
8 S. I. KARNATAKA 686.7 660.0 4% N 9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	6	COASTAL KARNATAKA	3060.2	3083.8	-1%	N
9 KERALA 2517.3 2039.6 23% E 10 LAKSHADWEEP 553.2 998.5 -45% D	7	N. I. KARNATAKA	358.0	506.0	-29%	D
10 LAKSHADWEEP 553.2 998.5 -45% D	8	S. I. KARNATAKA	686.7	660.0	4%	N
	9	KERALA	2517.3	2039.6	23%	E
COUNTRY AS A MUIOLE COST COST COST	10	LAKSHADWEEP	553.2	998.5	-45%	D
COUNTRY AS A WHOLE 804.0 887.5 -9%		COUNTRY AS A WHOLE	804.0	887.5	-9%	

	PERIOD: 01.06.2018	TO 30.09.2018	
CATEGORY	NO. OF	SUBDIVISIONAL % AREA OF COUNTRY	
	SUBDIVISIONS		
LARGE EXCESS	0	0%	
EXCESS	1	1%	
NORMAL	23	68%	
DEFICIENT	12	31%	
LARGE DEFICIENT	0	0%	
NO RAIN	0	0%	