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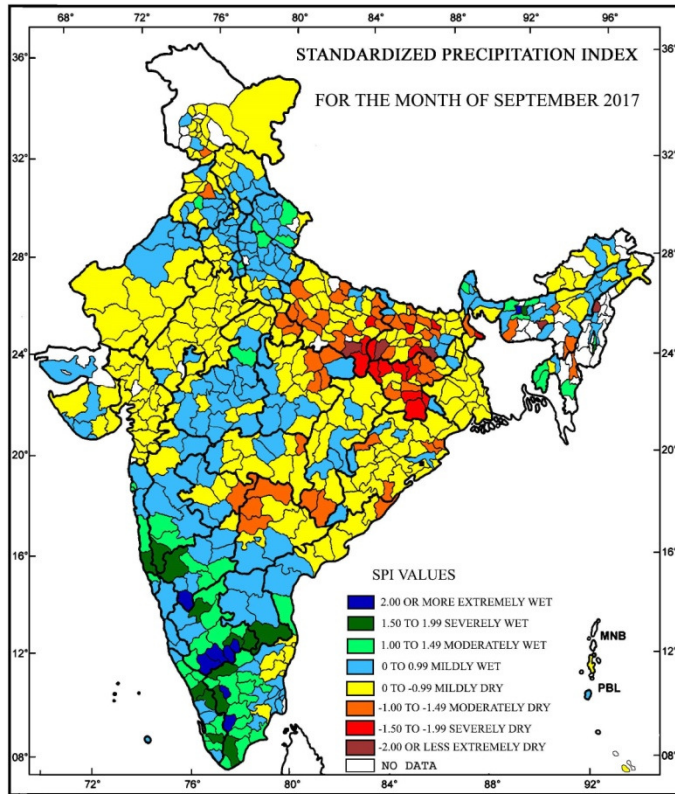
## **Standardized Precipitation Index statistics for the month of September 2017 and for the southwest monsoon season (June- September) 2017**

Standardized Precipitation Index (SPI), is an important and well accepted index for drought monitoring and is based only on precipitation. This index is widely used over different parts of the world as well as included in World Meteorological Department recommended index for monitoring meteorological drought. This index is negative for drought, and positive for wet conditions. As the dry or wet conditions become more severe, the index becomes more negative or positive. India Meteorological Department is monitoring meteorological drought over India in district scales since January 2013. In addition Standardized Precipitation Index map is also prepared in every week for the use in national level agricultural advisory bulletin of India Meteorological department. The following statistics will provide the moderately/severely/extremely dry/wet situations of the country during the southwest monsoon season 2017.

Fig 1 & 2 give SPI values in different categories for the districts in India during the month of September 2017 and cumulative June – September 2017 respectively. Actual district rainfall for the month of September 2017 is used for SPI computation while the base period of the SPI computation is 1901-2000. The SPI is generated at the end of every month to identify the regions with prevailing or beginning/ending of the extremely/severely/moderately dry/wet conditions.

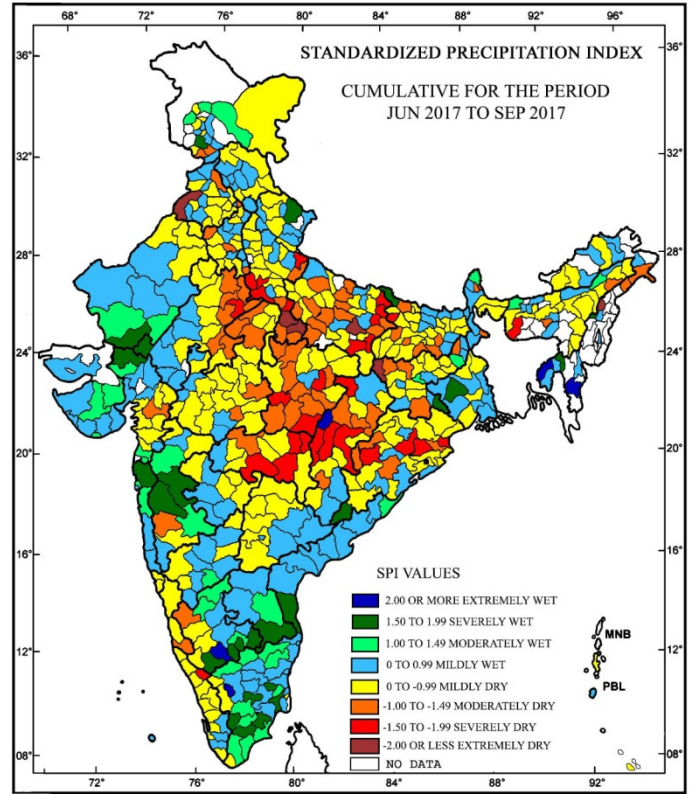
**Fig 1**

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**Fig 2**

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During the month of September 2017, Extremely / severely /moderately dry conditions prevailed over **many** districts of Jharkhand; **few** districts of Bihar, East Uttar Pradesh, Telangana; **one or two districts** of Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Sub Himalayan West Bengal & Sikkim, Orissa, West Uttar Pradesh, Punjab, Jammu & Kashmir, East Madhya Pradesh, Marathwada, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh.

Standardized Precipitation Index (SPI) for the cumulative period June to September 2017 indicates extremely/ severely/moderately dry Conditions over **many** districts of East Madhya Pradesh; **few** districts of Sub Himalayan West Bengal & Sikkim, Orissa, East Uttar Pradesh, West Uttar Pradesh, East Rajasthan, Vidarbha, Chhattisgarh, Coastal Karnataka; **one or two** districts of Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Jharkhand, Bihar, Haryana, Delhi & Chandigarh, Punjab, Jammu & Kashmir, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, South Interior Karnataka and Kerala

Table 1 gives the percentage area and number of districts under each category of SPI for the month of September 2017 & for the cumulative period June-September 2017.

**Table 1**

Categories(SPI range)	September 2017		June-September 2017	
	Percentage Area	No. of Districts	Percentage Area	No. of Districts
Extremely wet( 2.00 or more)	1.07%	8	0.71%	5
Severely wet(1.50 to 1.99)	2.90%	15	5.52%	26
Moderately wet(1.00 to 1.49)	7.43%	51	7.90%	36
Mildly wet(0 to 0.99)	28.73%	167	30.41%	163
Mildly dry(0 to -0.99)	49.60%	273	37.55%	244
Moderately dry(-1.00 to -1.49)	7.87%	55	11.95%	77
Severely dry(-1.50 to -1.99)	1.88%	15	5.02%	29
Extremely dry(-2.00 or less)	0.51%	5	0.81%	6

Table 2 gives the area weighted SPI values of the States for the month of September & Jun-Sep 2017 calculated from the district SPI values for each state. These values help to define the dry/wet conditions of the states.

**Table 2**

STATE	AREA WEIGHTED SPI		STATE	AREA WEIGHTED SPI	
	September	Jun-Sep		September	Jun-Sep
ANDHRA PRADESH	0.34	0.98	MANIPUR	0.90	0.03
ARUNACHAL PRADESH	-0.20	-0.11	MEGHALAYA	-0.79	-0.78
ASSAM	0.26	-0.09	MIZORAM	-0.01	1.91
LAKSHADWEEP	0.70	0.66	NAGALAND	-0.50	-0.50
BIHAR	-0.86	-0.33	ORISSA	-0.44	-0.45
GUJARAT	-0.28	0.56	PUNJAB	-0.08	-0.40
HARYANA	0.13	-0.45	RAJASTHAN	-0.31	0.23
GOA	0.87	-0.31	TAMILNADU	0.89	0.96
DELHI	0.59	0.05	TRIPURA	0.68	1.48
TELANGANA	-0.60	-0.29	UTTAR PRADESH	-0.49	-0.83
HIMACHAL PRADESH	-0.10	-0.28	WEST BENGAL	-0.46	0.05
J & K	-0.36	0.52	ANDAMAN & NICOBAR	-0.29	-0.40
KARNATAKA	1.10	0.37	SIKKIM	0.72	0.66
KERALA	1.22	-0.28	JHARKHAND	-1.19	-0.46
MADHYA PRADESH	-0.05	-0.75	UTTARAKHAND	0.37	0.40
MAHARASHTRA	0.19	0.00	CHHATHISGARH	-0.30	-0.66

The above table shows that **moderately dry** condition over Jharkhand; **mildly wet** condition Andhra Pradesh, Assam, Haryana, Maharashtra, Manipur, Tamil Nadu, Tripura, Sikkim, Uttarakhand, Goa, Delhi, Lakshadweep; **moderately wet** condition over Karnataka, Kerala; and **mildly dry** condition prevailed over rest of the states in the month of September 2017.

Rainfall situation for the cumulative period June to September 2017 indicates **severely wet** condition over Mizoram; **moderately wet** condition over Tripura; **mildly wet** condition over Andhra Pradesh, Gujarat, Jammu & Kashmir, Karnataka, Rajasthan, Tamil Nadu, West Bengal, Sikkim, Uttarakhand, Delhi, Lakshadweep; and **mildly dry** condition prevailed over rest of the states.

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