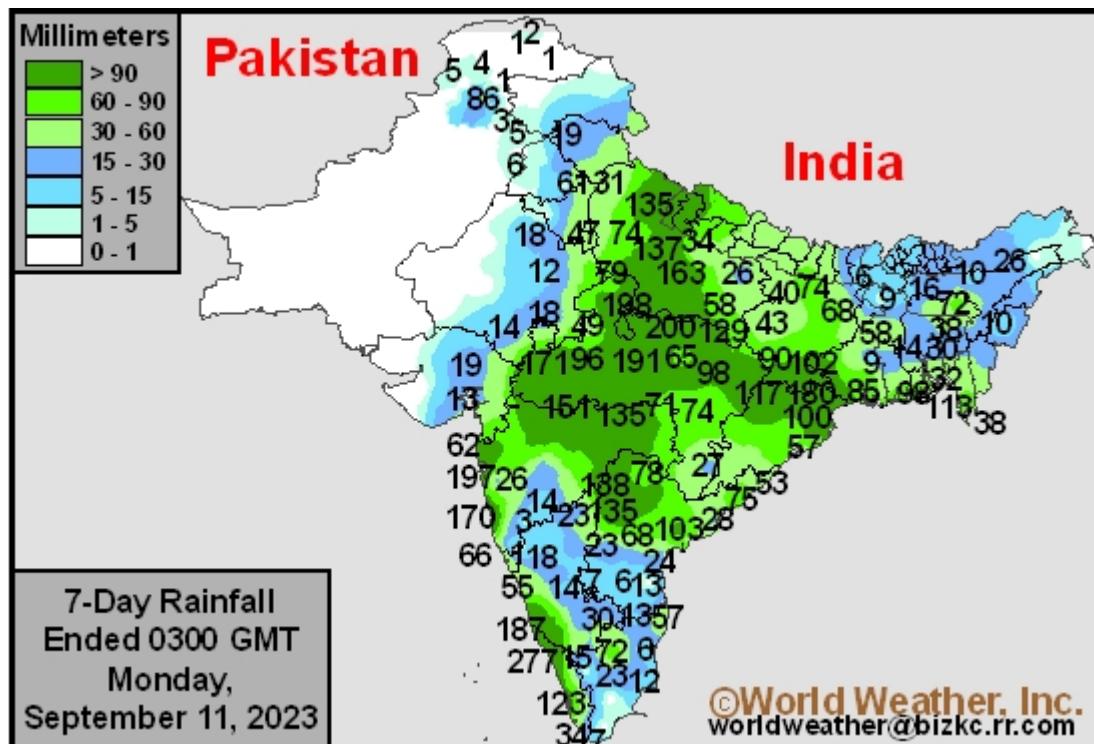


Central India Rainfall Increases While NW Continues Drying

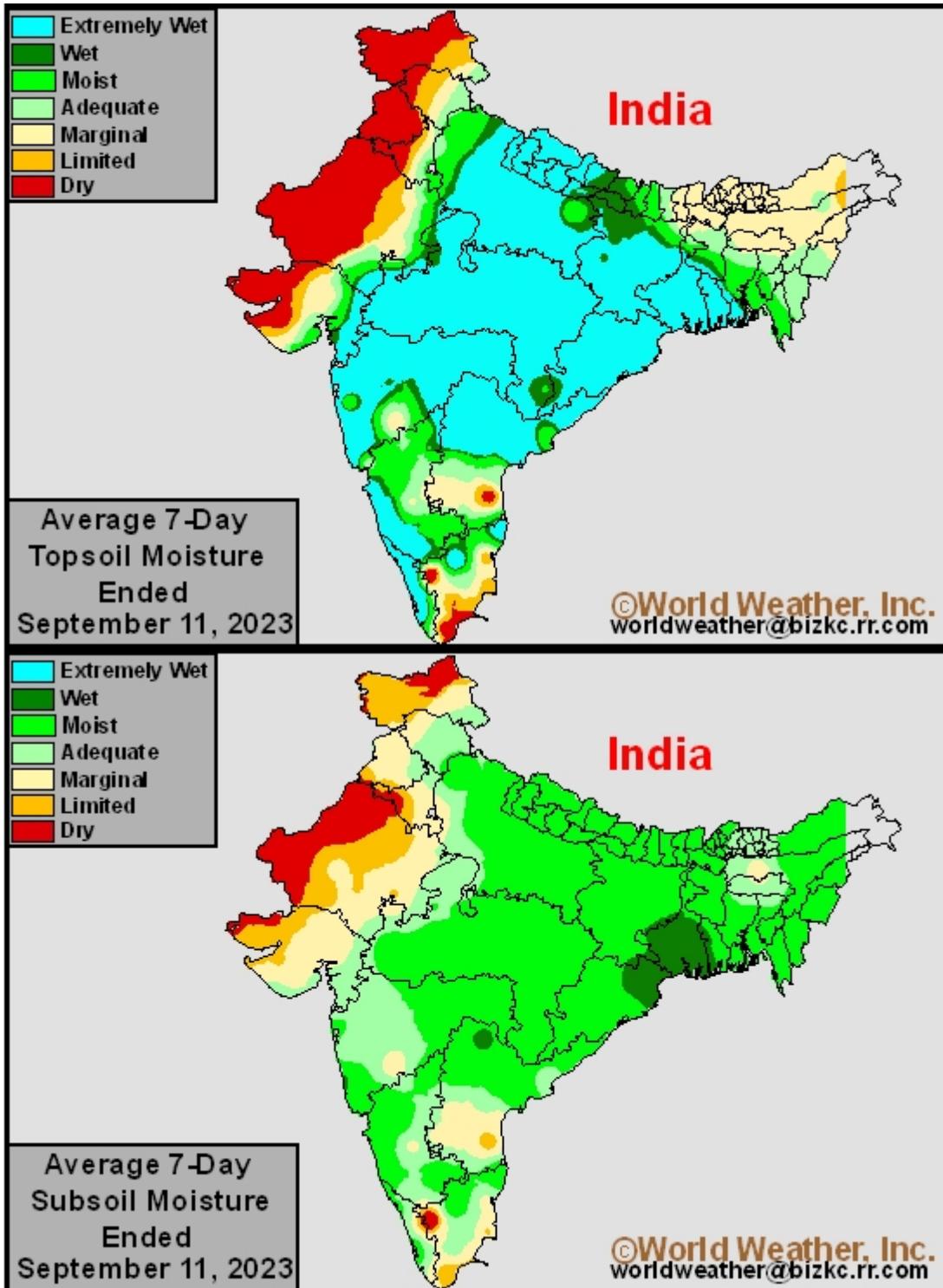
By Andrew Owen

Kansas City, September 11 (World Weather Inc.) – Rain returned significantly to the heart of India this past week resulting in better runoff conditions after unusually dry late August weather. In the meantime, northwestern India and Pakistan continued to dry down as if the summer monsoon had already ended in late August. Western sections of Gujarat and Rajasthan into much of Punjab will remain drier biased this week and will continue to dry down. Timely rain was noted earlier in the planting and growing season, prompting a good outlook for these areas this season; however, late-season development conditions have started to deteriorate as seasonal rains seemed to have abated early. A good soaking of rain is needed to support better late-season development conditions and to maintain a good outlook for crop production. The recent abundance of rain in central India will continue over the coming week and possibly ten days further improving long term water supply after poor rainfall in August.

Rainfall varied significantly across India during the past week. Madhya Pradesh, northern and eastern Maharashtra, Telangana, parts of northern Andhra Pradesh, Chhattisgarh, central Odisha, western West Bengal, southern Jharkhand and Uttar Pradesh received some of the most significant rain varying from 3.00 to 7.87. A few areas in Kerala and coastal sections of both Karnataka and Maharashtra received 3.00 to 10.91 inches of rain. Bangladesh, the Eastern States, Bihar, Himachal Pradesh, eastern sections of Punjab and Haryana, and Tamil Nadu received 0.24 to 2.91 inches of rain. Southern Andhra Pradesh and most other locations in Karnataka, along with eastern sections of Gujarat and Rajasthan, received 0.24 to 1.18 inches of rain. Most other locations in northwestern India were dry.



Central India Rainfall Increases While NW Continues Drying



Western sections of Gujarat and Rajasthan into a large section of Punjab and Haryana continue to have short to very short soil moisture. Pockets in Tamil Nadu and southern Andhra Pradesh also have a shortage of moisture despite recent rainfall. The remaining locations have adequate to excessive amounts of moisture. [Flooding was noted](#)

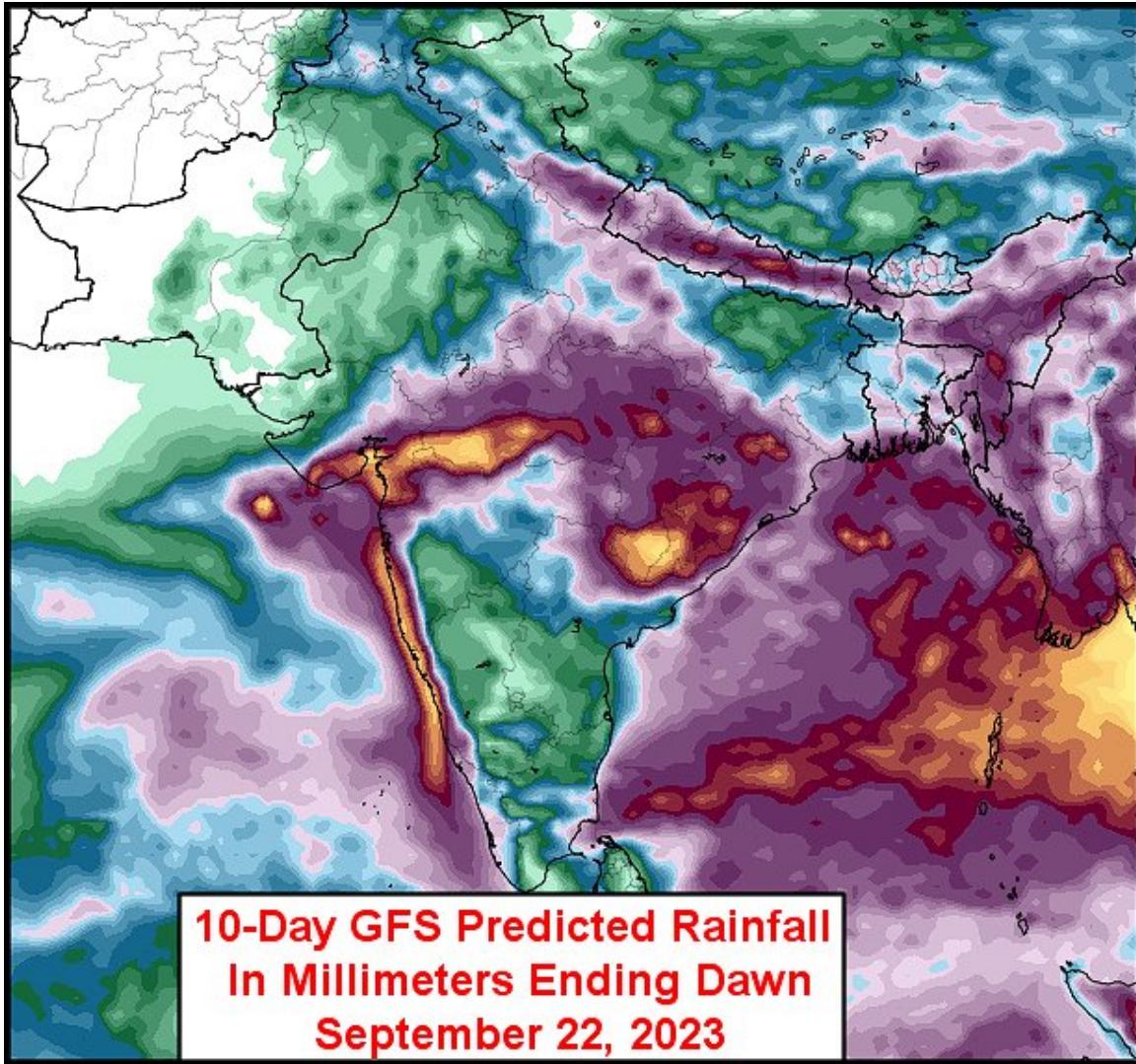
Central India Rainfall Increases While NW Continues Drying

in Uttar Pradesh in recent days and may have occurred in the wettest locations of Madhya Pradesh. However, crop and structural damage was suspected of being minimal.

Ongoing dryness in western sections of Gujarat and Rajasthan into Punjab and portions of Haryana continued to promote less than favorable conditions for grain, oilseed, mustard, guar, dry bean, pulses, cotton and other crop development. A good soaking of rain is needed to support better late-season crop development conditions and to avoid any significant production cuts. The driest pockets in Tamil Nadu and southern Andhra Pradesh may also experience minor production cuts for the sugarcane and other early-planted crops due to dryness earlier this year. Cotton harvesting in northwestern India will begin soon, but for now bolls are opening and a little last minute rain might be good for the more immature crop.

The remaining production areas in India generally had enough moisture to support aggressive growth in recent weeks. Some of the wettest locations in central and eastern India may have trended a little too wet at times for ideal growth. A period of drier weather would be welcome later this month to support ideal late-season development conditions.

Central India Rainfall Increases While NW Continues Drying



WEATHER OUTLOOK

Western sections of Gujarat and Rajasthan into Punjab and Haryana will remain drier biased this week. Periods of erratic rain will be possible late this week and weekend, though resulting rainfall will generally be too light to significantly impact long-term soil conditions. Precipitation potentials may increase marginally September 19 – 25 for most locations. However, the rain will likely be too light to improve the moisture profile. Late-season development conditions will remain less than favorable to poor this week as the ground continues to firm. **The potential for some rain during the second week of the outlook may improve late-season growth and could help maintain favorable production potentials. If the rain fails to evolve, production may trend a lower than previous estimates.**

Southern India will see a mix of erratic monsoonal rain and sunshine this week. Precipitation will occur on a frequent basis as a monsoonal disturbance tracks further to the

Central India Rainfall Increases While NW Continues Drying

north. Kerala and coastal Karnataka will see some of the most frequent and significant rain with totals ranging from 1.00 to 4.00 inches and local amounts of 6.00 inches or more by next Monday morning. Tamil Nadu and northern Andhra Pradesh will receive 0.25 to 2.00 inches of rain with a few locally greater amounts possible. The remaining locations will only receive 0.10 to 0.75 inch of rain. A similar weather pattern is expected September 19 – 25 as well. The periods of spotty rain will help support some new growth in the coming weeks, but may be unable to significantly improve the moisture profile in the driest areas of Tamil Nadu, Karnataka, and southern Andhra Pradesh. New crop growth should continue under generally good conditions outside the driest locations. Production of the sugarcane and other early-planted crops may be lower than normal this season due to the extended period of drier weather earlier in the season.



**India Meteorological Department
Hydromet Division, New Delhi**

SUBDIVISION-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:11-09-2023				Period:01-06-2023 To 11-09-2023			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
	REGION : EAST AND NORTH EAST INDIA	4.3	10.2	-58%		966.7	1192.6	-19%	
1	ARUNACHAL PRADESH	9.4	12.9	-27%	D	1317.9	1447.7	-9%	N
2	ASSAM & MEGHALAYA	9.5	12.0	-20%	D	1293.7	1562.3	-17%	N
3	N M M T	5.0	9.6	-48%	D	832.3	1139.0	-27%	D
4	SHWB & SIKKIM	1.6	13.5	-88%	LD	1735.2	1653.7	5%	N
5	GANGETIC WEST BENGAL	0.0	9.3	-99%	LD	756.4	1000.6	-24%	D
6	JHARKHAND	0.7	8.4	-92%	LD	596.9	890.6	-33%	D
7	BIHAR	0.3	7.7	-96%	LD	629.8	858.9	-27%	D
	REGION : NORTH WEST INDIA	10.7	3.9	173%		534.4	538.1	-1%	
1	EAST UTTAR PRADESH	26.1	7.3	258%	LE	526.2	703.9	-25%	D
2	WEST UTTAR PRADESH	40.1	5.0	701%	LE	653.6	611.0	7%	N
3	UTTARAKHAND	32.7	6.1	436%	LE	1145.2	1073.2	7%	N
4	HAR. CHD & DELHI	3.4	3.1	11%	N	394.7	395.9	0%	N
5	PUNJAB	0.7	1.8	-59%	D	354.5	402.9	-12%	N
6	HIMACHAL PRADESH	1.7	4.0	-57%	D	823.9	674.2	22%	E
7	JAMMU & KASHMIR AND LADAKH	2.8	3.6	-22%	D	511.5	503.3	2%	N
8	WEST RAJASTHAN	0.0	1.2	-99%	LD	352.9	268.1	32%	E
9	EAST RAJASTHAN	3.2	3.6	-10%	N	522.7	588.4	-11%	N
	REGION : CENTRAL INDIA	3.7	6.2	-40%		804.0	882.0	-9%	
1	ODISHA	1.8	8.7	-80%	LD	891.8	1018.4	-12%	N
2	WEST MADHYA PRADESH	5.7	5.0	15%	N	692.9	803.8	-14%	N
3	EAST MADHYA PRADESH	11.1	7.4	50%	E	860.4	952.9	-10%	N
4	GUJARAT REGION	0.2	4.1	-94%	LD	718.8	850.6	-16%	N
5	SAURASHTRA & KUTCH	0.0	2.6	-100%	NR	694.5	484.4	43%	E
6	KONKAN & GOA	8.3	12.0	-31%	D	2853.3	2665.3	7%	N
7	MADHYA MAHARASHTRA	0.3	5.0	-93%	LD	522.5	642.9	-19%	N
8	MARATHWADA	1.7	5.1	-66%	LD	444.6	542.6	-18%	N
9	VIDARBHA	2.9	5.1	-42%	D	775.3	859.7	-10%	N
10	CHHATTISGARH	4.7	8.3	-44%	D	843.1	1022.7	-18%	N
	REGION : SOUTH PENINSULA	7.9	5.2	52%		553.2	611.1	-9%	
1	A & N ISLAND	109.7	11.3	870%	LE	1928.6	1352.8	43%	E
2	COASTAL AP and YANAM	15.9	5.6	183%	LE	497.8	490.4	2%	N
3	TELANGANA	9.8	5.7	71%	LE	764.1	633.0	21%	E
4	RAYALASEEMA	0.1	5.8	-98%	LD	261.2	315.9	-17%	N
5	TN PUDU and KARAikal	0.8	4.2	-80%	LD	255.2	248.5	3%	N
6	COASTAL KARNATAKA	19.8	8.9	122%	LE	2386.1	2914.8	-18%	N
7	N. I. KARNATAKA	1.2	4.1	-71%	LD	367.6	383.7	-4%	N
8	S. I. KARNATAKA	2.0	4.3	-54%	D	428.3	579.1	-26%	D
9	KERALA & MAHE	21.8	7.8	180%	LE	1088.3	1854.6	-41%	D
10	LAKSHADWEEP	7.5	6.0	24%	E	723.6	927.7	-22%	D
	COUNTRY :	6.8	5.9	15%		697.8	772.5	-10%	

Central India Rainfall Increases While NW Continues Drying

The remaining production areas in India will have several opportunities for monsoonal rain this week. Precipitation will occur on a near daily basis as a monsoonal disturbance slowly meanders from eastern into central India. Madhya Pradesh, Telangana, Chhattisgarh, Odisha, and portions of northern Maharashtra will receive 2.00 to 6.00 inches of rain with local amounts of 9.00 inches or more by next Monday morning. Other locations will receive 0.75 to 4.00 inches of rain and locally greater amounts. The wet weather bias will persist September 19 – 25. Flash flooding will remain the greatest concern for Madhya Pradesh and neighboring locations this week. Minor crop and structural damage will be possible if flooding is severe enough. The environment will otherwise remain favorable for aggressive development outside the wettest fields.

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