



**Government of India
Earth System Science Organization
Ministry of Earth Sciences
India Meteorological Department**

Dated: 19th August, 2018

Sub: Rainfall over Kerala during Monsoon Season-2018 and forecast for next 5 days

Exceptionally High Seasonal rainfall Scenario over Kerala so far

- Rainfall over Kerala during southwest monsoon season 2018 (1 June to 19 August, 2018) has been exceptionally high. Kerala so far received 2346.6 mm against normal of 1649.5 mm (above normal by 42%). The spatial distribution of district-wise seasonal rainfall is shown in **Annexure 1**. It indicates that highest excess rainfall is recorded over Idukki District (92% above normal) followed by Palakkad (72% above normal).

Month	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from normal
June, 2018	749.6	649.8	15
July, 2018	857.4	726.1	18
1-19, August, 2018	758.6	287.6	164
1 June to 19 August, 2018	2346.6	1649.5	42%

- The rainfall over Kerala during June, July and August (1-19 August) has been 15%, 18% and 164% above normal respectively as shown in the above **Table**.
- Rainfall during August, 2018 so far has been exceptionally high.
- The rainfall over Kerala has been in general above normal throughout the season (**Annexure 2a**). Specially, there were two consecutive active spells with above normal rainfall peaking around 14 & 20 June respectively. Another peak rainfall activity was experienced around 20 July. The week-wise rainfall departure over Kerala is shown in **Annexure 3a**. Heavy rainfall observed (7 cm or more) during 8 August to till date is given in **Annexure 3b**.

- **Fresh spell of active rainfall commenced since 8 August and continued till 16 August. Thereafter, there has been gradual decrease in rainfall over Kerala as shown in Annexure 2b.**
- Due to the above rainfall scenario prevailed till end of July, 2018 over Kerala, all of major 35 odd reservoirs storage was close to the full reservoir level (FRL) and had no buffer storage to accommodate the heavy inflows from 10th August. The continued exceptional heavy rainfall in August (with 170% above normal so far) in the catchment areas had compelled the authorities to resort to heavy releases downstream into the rivers. Such a scenario that continued for almost a week now has caused overflowing of all river banks leading to widespread flooding almost all over the state.

Forecast over Kerala till 23 August

- A fresh low pressure area has formed over northwest Bay of Bengal today, the 19th August 2018 morning, however it will not have any significant impact over Kerala.
- Rainfall activity over Kerala is likely to decrease further gradually during next 5 days except for some isolated pockets of heavy rainfall (7-11 cm) on 19th August.
- Accordingly, district-wise rainfall forecast for Kerala is given in **Annexure 4**.

INDIA METEOROLOGICAL DEPARTMENT
MC THIRUVANANTHAPURAM

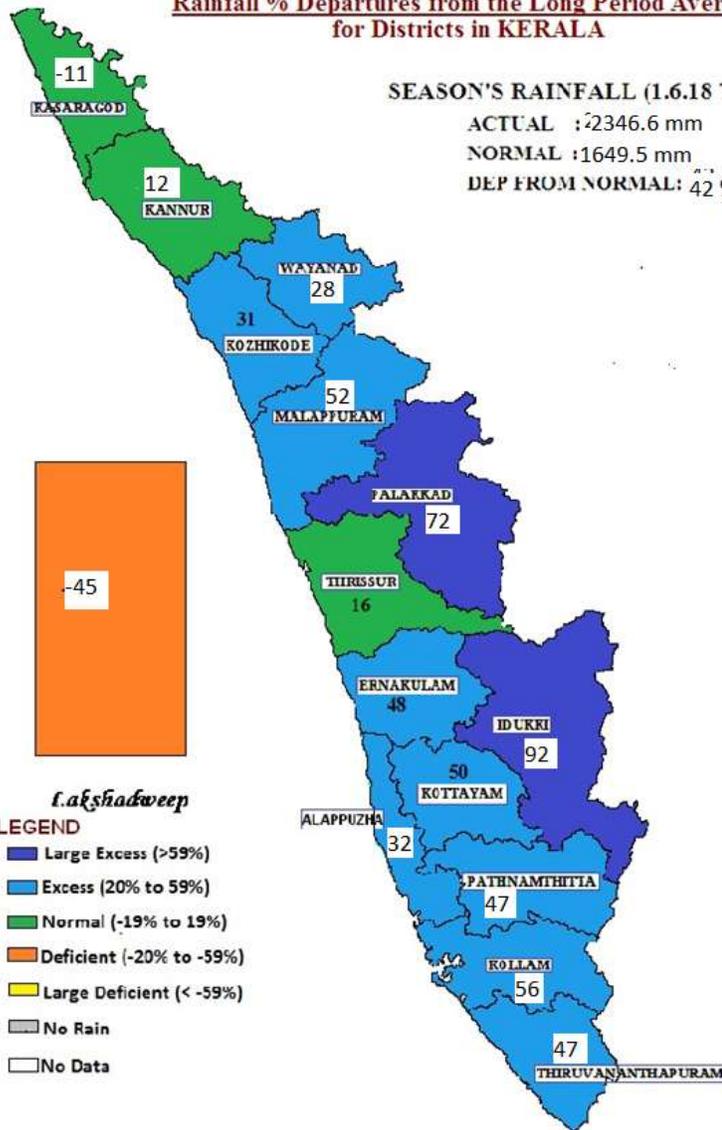
**Rainfall % Departures from the Long Period Averages
 for Districts in KERALA**

SEASON'S RAINFALL (1.6.18 TO 19.8.2018)

ACTUAL : 22346.6 mm

NORMAL : 1649.5 mm

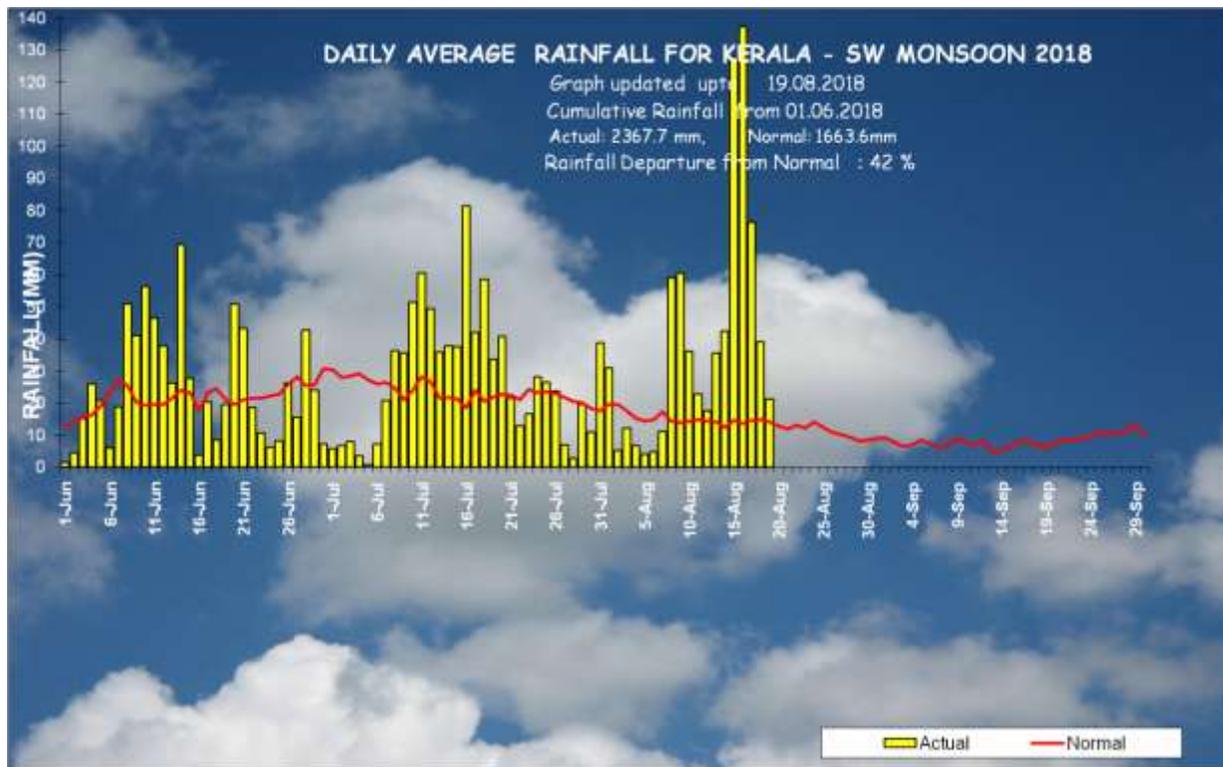
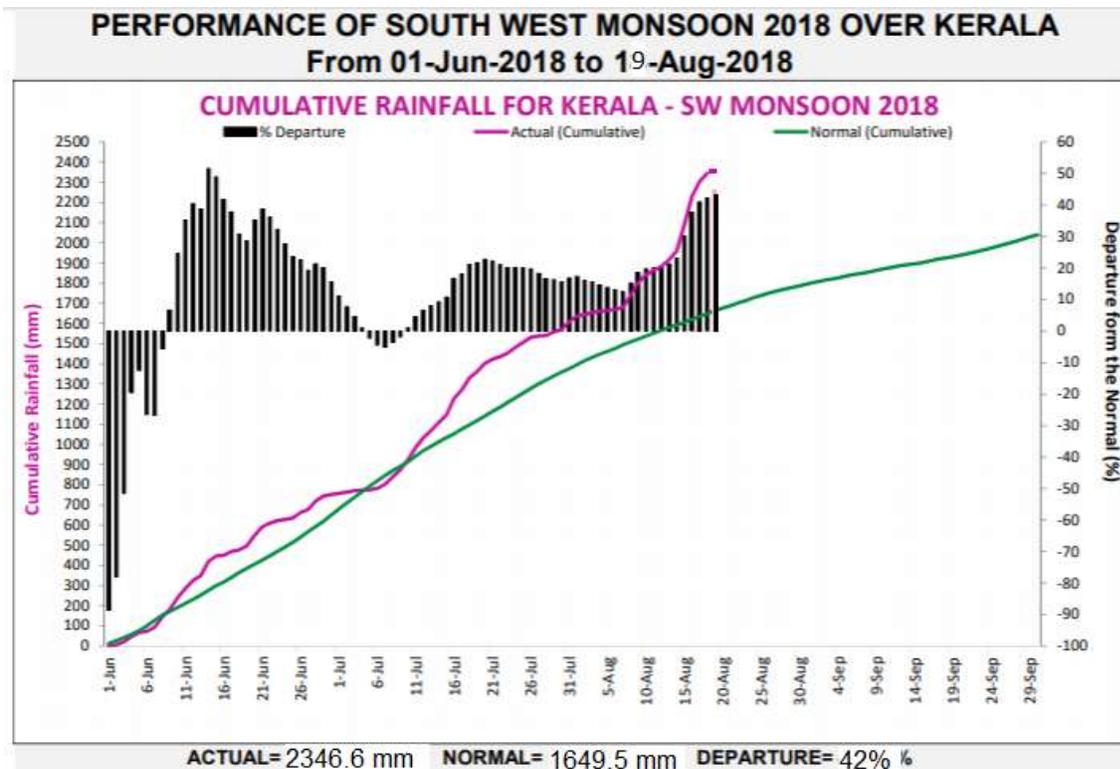
DEP FROM NORMAL: 42 %

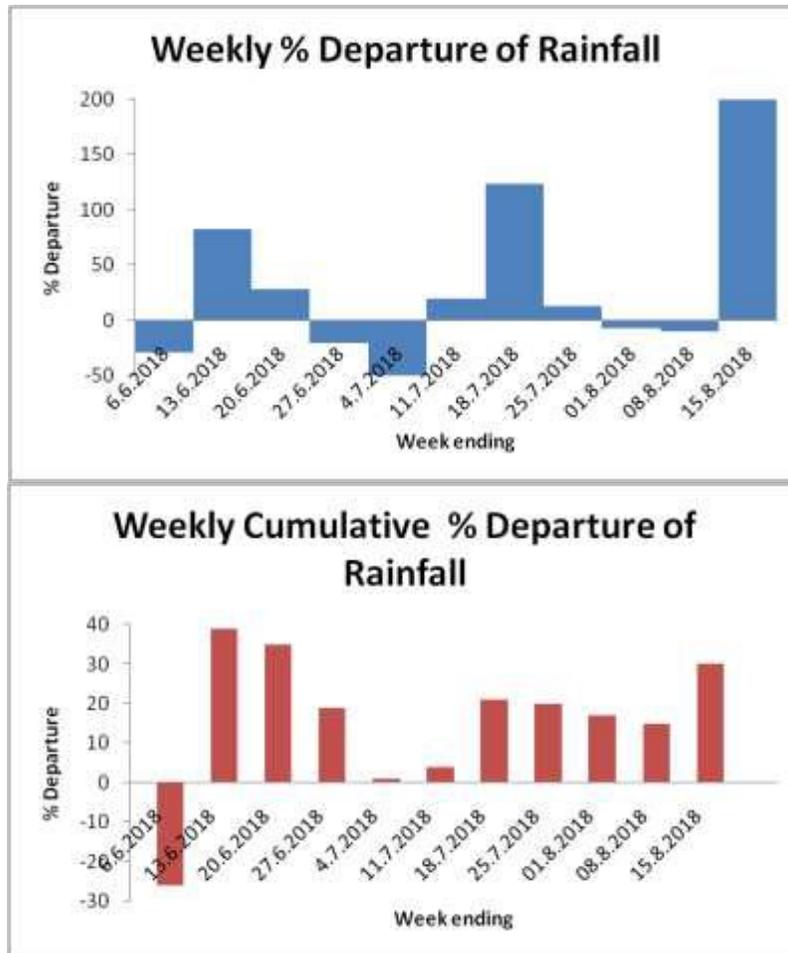


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LEGEND

- Large Excess (>59%)
- Excess (20% to 59%)
- Normal (-19% to 19%)
- Deficient (-20% to -59%)
- Large Deficient (< -59%)
- No Rain
- No Data





Significant amounts of rainfall (in cm)
(From 0830 Hrs. IST of previous day to 0830 Hrs. IST of the day)

8 AUGUST 2018		12 AUGUST 2018		KOLLAM RLY	11
NILAMBUR	15	Nil		PUNALUR	11
VYTHIRI	14			KOZHA	11
IDUKKI	13	13 AUGUST 2018		VADAKARA	10
PEERMADE	12	MUNNAR KSEB	11	THRITLA	10
MANANTHAVADY	12	VADAKARA	9	CHITTUR	10
VELLANIKKARA	11	IDUKKI	8	MANCOMPU	10
VADAKKANANCHERRY	11	MANANTODDY	8	ALAPUZHA	10
THODUPUZHA	11	KANNUR	7	TELLICHERY	9
KUNNAMKULAM	9	VYTTIRI	7	KUNNAMKULAM	9
IRIKKUR	9	PALAKKAD	7	NEYATTINKARA	9
KUPPADY	8			KUMARAKAM	9
CHENGANNUR	8	15 AUGUST 2018		AMBALAVAYAL	9
AMBALAVAYAL	8	PEERMADE TO	27	KOCHI I.A.F.	9
KONNI	8	IDUKKI	23	NEDUMANGAD	9
PONNANI	7	MUNNAR KSEB	22	ENAMAKKAL	9
MAVELIKKARA	7	KARIPUR AP.	21	VAIKOM	8
PIRAVOM	7	MANJERI	20	PALAKKAD	8
PUNALUR	7	KOZHIKODE	20	KOTTAYAM	8
CHALAKUDY	7	IRIKKUR	18	KUDULU	8
IRINJALAKUDA	7	ALATHUR	18	KONNI	8
		KOCHI C.I.A.L.	17	CHERTHALA	7
9 AUGUST 2018		THODUPUZHA	17		
NILAMBUR	40	MANANTODDY	16	16 AUGUST 2018	
MANANTODDY	31	PERUMPAVUR	16	PEERMADE TO	35
PEERMADE TO	25	VADAKKANANCHERRY	15	PONNANI	27
MUNNAR KSEB	25	QUILANDI	15	VADAKARA	26
PALAKKAD	21	VYTTIRI	15	VELLANIKKARA	25
MYLADUMPARA_AGRI	21	PIRAVAM	15	ENAMAKKAL	25
MANNARKKAD	17	PARUMBIKULAM	15	MANNARKKAD	24
CHITTUR	15	PERINTHALAMANNA	15	ALATHUR	23
AMBALAVAYAL	12	VELLANIKKARA	14	KUNNAMKULAM	23
IDUKKI	10	ANGADIPURAM	14	CHALAKUDI	22
KUPPADY	9	THIRUVANANTHAPURAM	14	OTTAPALAM	21
KONNI	8	MYLADUMPARA AGRI	14	THRITLA	21
MANCOMPU	8	ALWAYE PWD	14	IRINJALAKUDA	19
KURUDAMANNIL	7	TALIPARAMBA	14	KODUNGALLUR	18
CHENGANNUR	7	KANNUR	14	THODUPUZHA	18
OTTAPALAM	7	KODUNGALLUR	14	PATTEMBI	18
PUNALUR	7	TRIVANDRUM AERO	13	MANJERI	17
PARUMBIKULAM	7	HARIPAD	12	PALAKKAD	17
		KAYAMKULAM	12	KOLLAMKODE	17
10 AUGUST 2018		IRINJALAKUDA	12	PERINTHALAMANNA	16
PEERMADE TO	16	PONNANI	12	QUILANDI	16
IDUKKI	13	KUPPADY	12	PARUMBIKULAM	15
NILAMBUR	9	PATTEMBI	12	ERNAKULAM SOUTH	14
PIRAVAM	7	KAYAMKULAM AGRI	11	KOZHA	14
ARYANKAVU	7	MAVELIKARA	11	PIRAVAM	13
MANANTODDY	7	KOLLAMKODE	11	KOZHIKODE	13
		ERNAKULAM SOUTH	11	KARIPUR AP.	13
11 AUGUST 2018		OTTAPALAM	11	KONNI	12
IDUKKI	9	CHENGANNUR	11	CHITTUR	11
		CHALAKUDI	11	KOCHI I.A.F.	11

ALWAYE PWD	11	VYTTIRI	10
ALAPUZHA	10	PONNANI	9
VYTTIRI	9	KOTTAYAM	9
HARIPAD	9	KOLLAMKODE	9
VAIKOM	9	OTTAPALAM	9
ARYANKAVU	9	THRITLA	9
CHERTHALA	8	MYLADUMPARA AGRI	9
KUPPADY	8	KURUDAMANNIL	9
KOTTAYAM	7	MAVELIKARA	8
KOLLAM RLY	7	ARYANKAVU	8
AMBALAVAYAL	7	PERINTHALAMANNA	8
MAVELIKARA	7	KUPPADY	8
PUNALUR	7	AMBALAVAYAL	8
		THODUPUZHA	8
		PIRAVAM	7
17 AUGUST 2018			
PEERMADE TO	19		
VELLANIKKARA	15	18 AUGUST 2018	
IRINJALAKUDA	15	MUNNAR KSEB	11
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ALATHUR	12	ARYANKAVU	7
KONNI	11		
KUNNAMKULAM	10	19 AUGUST 2018	
PERUMPAVUR	10	MUNNAR KSEB	9
MANANTODDY	10		
PATTEMBI	10		
PALAKKAD	10		
PUNALUR	10		



District Rainfall Forecast For Kerala and Lakshadweep

Sunday, 19 August 2018

Issue Time: 1130 hours IST

District		19-Aug Today	20-Aug Mon	21-Aug Tue	22-Aug Wed	23-Aug Thu
Thiruvananthapuram	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall				
	<i>Probability:</i>	Most Likely				
Kollam	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall				
	<i>Probability:</i>	Most Likely				
Pathanamthitta	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall				
	<i>Probability:</i>	Most Likely				
Alappuzha	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall				
	<i>Probability:</i>	Most Likely				

Distribution of Rainfall		Intensity of Rainfall		Probability of Occurrence (%)		Warning Colour Codes
Category	% of stations	Type	Amount (mm)	Unlikely	< 25	Warning (Take Action)
Most Places	76 - 100%	Very Light	0.1 to 2.4	Likely	25 - 50	Alert (Be Prepared)
Many Places	51-75%	Light	2.5 - 15.5	Very Likely	50 - 75	Watch (Be Updated)
A Few Places	26-50%	Moderate	15.6 - 64.4	Most Likely	> 75	No Warning (No Action)
Isolated places	1-25%	Heavy	64.5 - 115.5			
Dry	0	Very Heavy	115.6 - 204.4			
		Extremely Heavy	≥ 204.5			



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District		19-Aug Today	20-Aug Mon	21-Aug Tue	22-Aug Wed	23-Aug Thu
Kottayam	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Ernakulam	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Idukki	<i>Spatial Distribution:</i>	Most Places				
	<i>Intensity:</i>	Heavy rainfall at isolated places	Light to moderate rainfall			
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Thrissur	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely

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District		19-Aug Today	20-Aug Mon	21-Aug Tue	22-Aug Wed	23-Aug Thu
Palakkad	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Malappuram	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Kozhikode	<i>Spatial Distribution:</i>	Most Places				
	<i>Intensity:</i>	Heavy rainfall at isolated places	Light to moderate rainfall			
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Wayanad	<i>Spatial Distribution:</i>					
	<i>Intensity:</i>	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	<i>Probability:</i>	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely

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Kannur	Spatial Distribution:	Most Places				
	Intensity:	Heavy rainfall at isolated places	Light to moderate rainfall			
	Probability:	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Kasaragode	Spatial Distribution:					
	Intensity:	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	Probability:	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely
Lakshadweep	Spatial Distribution:					
	Intensity:	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall	Light to moderate rainfall
	Probability:	Most Likely	Most Likely	Most Likely	Most Likely	Most Likely

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