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Seasonal, Monthly and weekly Rainfall Forecasts for October-December 2024

Issued on 2nd October 2024 by Seasonal Forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus Climate Outlook for October to December 2024 season over Sri Lanka has been developed through an expert assessment of the prevailing global climate conditions influencing the South Asian climate and seasonal forecasts from different climate models around the world. The Bureau of Meteorology's model suggests SSTs are likely to remain within the ENSO-neutral range (-0.8 °C to +0.8 °C) throughout the forecast period. It is possible a La Niña may develop in coming months but if so, it is forecast to be relatively weak and short-lived. The Indian Ocean Dipole (IOD) is currently neutral and most global model forecasts is favoured for a neutral IOD for upcoming season (source- BOM, Australia). Careful consideration is also given to other regional and global factors as well as the intraseasonal variability of the region that can affect the rainfall and temperature patterns over the country.

Seasonal Rainfall Forecast for October–December 2024 (OND)

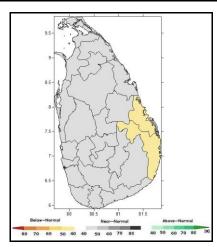


Fig 1.Consensus Probabilistic Monthly rainfall forecast for OND 2024

There is a possibility for near normal rainfall over Sri Lanka except Ampara and Batticalo districts where there is a possibility for below normal rainfall, during OND 2024 as a whole.

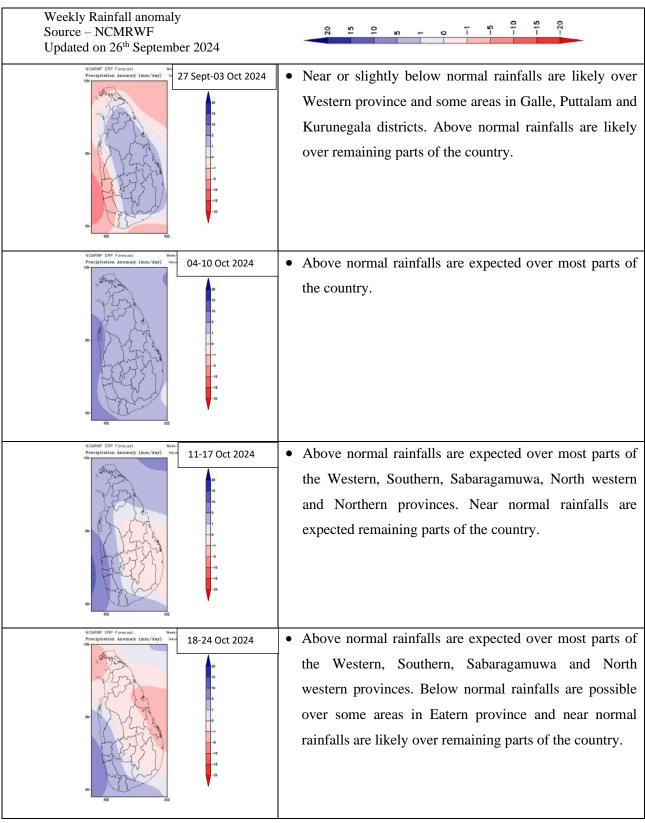
Remarks**- However if La Nina onset occurs in October 2024 there is some possibility of below average rainfall over some parts of Mullative, Trincomalee, Vavuniya, Killinochchi and Jaffna districts as well. On the other hand, development of the synoptic scale systems such as lows and depressions are also possible during the month of October and November. If so rainfall can increase (Fig.01).

Monthly Rainfall Forecasts for October, November and December 2024

Month	Rainfall forecast			
October 2024	There is a higher chance of having near normal rainfalls over most parts of the country during the month of October 2024. There is a possibility for developing atmospheric disturbances, such as low pressure areas and depressions during the month, particularly during latter part of the month. If so rainfall will increase.			
Below-Normal Neor-Normal Above-Normal 40 50 60 70 80 70 60 50 40 40 50 60 70 80 40 50 60 70 80				
	There is a possibility for near normal rainfall over Sri Lanka except Ampara and Batticalo districts where there is a possibility for below normal rainfall, during the month of November 2024. However, if LaNina onset occurs in October 2024, some parts of Mullative, Trincomalee, Vavuniya, Killinochchi, Jaffna, Polonnaruwa and Matale distrcits are also may receive below normal rainfalls during the month. On the other hand, development of the synoptic scale systems such as lows and depressions are also possible during the month. If so rainfall can increase.			
December 2024	According to the available global model forecasts, there is a possibility for near normal rainfall over Sri Lanka except Batticalo and Mullative districts where there is a possibility for below normal rainfall, during the month of December 2024. In addition to that development of the cyclones and wave type disturbances are also possible during the month. If so the forecast may change.			

Fig 2: Monthly rainfall forecasts for October, November and December 2024

The predictability is also limited due to strong day-to-day atmospheric variability caused by the passage of the synoptic scale systems such as lows and depressions as well as intraseasonal Oscillations such as Madden Julian Oscillations (MJO).



Weekly Rainfall forecasts for the month of October 2024

Fig 3.Weekly rainfall forecast for October 2024

Attention is requested for following areas

- More attention for the instructions and advisories issued by authorized agencies particularly related to extreme weather.
- Lightning and temporally strong gusty winds accompanied by thundershowers are also possible during the season, particularly October and November.
- There is a possibility for developing low pressure systems, depressions and Cyclones during the season.

Annex-1

District wise mean (30 years (1981-2010) of average) rainfalls during the months of

	Average rainfall-	Average rainfall-	Average rainfall-
District	October(mm)	November (mm)	December(mm)
Colombo	385.3	368.1	171.3
Kalutara	452.9	384.5	232.9
Galle	401.5	341.6	221.6
Matara	310.5	329.5	192.7
Hambantota	157.2	230.8	144.0
Ampara	160.0	289.6	318.7
Batticaloa	172.3	326.8	371.1
Trincomalee	170.2	334.1	310.1
Mullaithivu	170.3	333.9	250.9
Jaffna	194.1	348.4	232.7
Killinochchi	177.5	340.3	240.3
Mannar	161.1	266.5	188.3
Puttalam	212.1	234.6	107.0
Gampaha	362.8	319.3	120.0
Kegalle	451.9	381.2	154.2
Ratnapura	368.4	365.5	218.7
Monaragala	214.0	293.3	221.2
Badulla	248.5	335.4	324.3
Pollonnaruwa	196.6	290.1	328.8
Vavuniya	188.5	273.6	225.2
Anuradapura	200.0	249.2	208.1
Kurunegala	273.4	270.1	122.0
Matale	242.0	336.5	340.3
Kandy	294.3	318.1	258.0
Nuwaraeliya	313.5	303.2	220.9

October, November and December

 Table 01: 30 year Average (1981-2010) district wise rainfalls during the month of October, November and December

Table 01 shows the mean (30-year Average (1981-2010)) rainfalls during the month of October, November and December in each district.