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Seasonal, Monthly and weekly Rainfall Forecasts for June-August 2022

Issued on 4th June 2022 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

This consensus climate outlook for June to August 2022 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. Currently La Niña conditions are prevailing in the tropical Pacific Ocean and it is expected to continue through summer 2022 and return to neutral during thereafter. Neutral Indian Ocean Dipole (IOD) conditions are prevailing over the Indian Ocean and there is a possibility of negative IOD development in June and continue during the season. These parameters are known to influence the climate variability over Sri Lanka. 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 June–August 2022(JJA)



Fig 1.Consensus Probabilistic Monthly rainfall forecast for JJA 2022

Near normal rainfalls are expected in Western, Sabaragamuwa, Northwestern and central provinces and in Galle and Mathara districts and slightly above normal rainfalls in Northern province with a possibility for below normal rainfalls over Hambantota district. There is no

clear signal for remaining areas where there are equal probabilities of having above or near or below normal rainfalls during the season of JJA 2022. (Fig. 1).

Monthly Rainfall Forecasts for June, July and August 2022


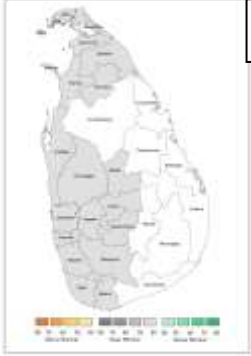

Month	Rainfall forecast
 <p>June 2022</p>	<p>There is a possibility for near normal rainfalls over Western, Sabaragamuwa, Northwestern, Central and Northern provinces and in Galle and Matara districts. There is no clear signal for other areas where there is an equal probability of having above or near or below normal rainfalls during the month of June 2022.</p>
 <p>July 2022</p>	<p>There is a probability for near normal rainfall over Western, Sabaragamuwa, Northwestern, Central and Northern provinces and in Galle and Matara districts and no clear signal for remaining areas of the country for the month of July 2022.</p>
 <p>August 2022</p>	<p>There is a possibility for near normal rainfalls over Central and Sabaragamuwa provinces, slightly below normal rainfalls over Western, Northwestern and Southern provinces with a chance of above normal in Northern province. No clear signal for other areas of the country where exist equal probabilities for below or near or above normal rainfalls over the country during the month of August 2022.</p>

Fig 2.Monthly rainfall forecasts for June, July and August 2022

District wise normal (mean) rainfall values are indicated in annex -1)

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 June 2022

Weekly Rainfall anomaly Source – ECMWF Updated 30 th May 2022	
<p style="text-align: center;">30 May-05 June</p>	<ul style="list-style-type: none"> • Above normal rainfalls are expected over south western part and in Hambantota and Kurunegala districts
<p style="text-align: center;">06-12 May 2022</p>	<ul style="list-style-type: none"> • Slightly below normal rainfalls are expected over some areas in Northwestern, Western, and southern provinces and in Mannar district and equal probabilities exist for below/about/above normal rainfalls over other areas of the country.
<p style="text-align: center;">13-19 May 2022</p>	<ul style="list-style-type: none"> • Below normal rainfalls are expected in western province and equal probabilities exist for below/about/above normal rainfalls over other areas of the country.

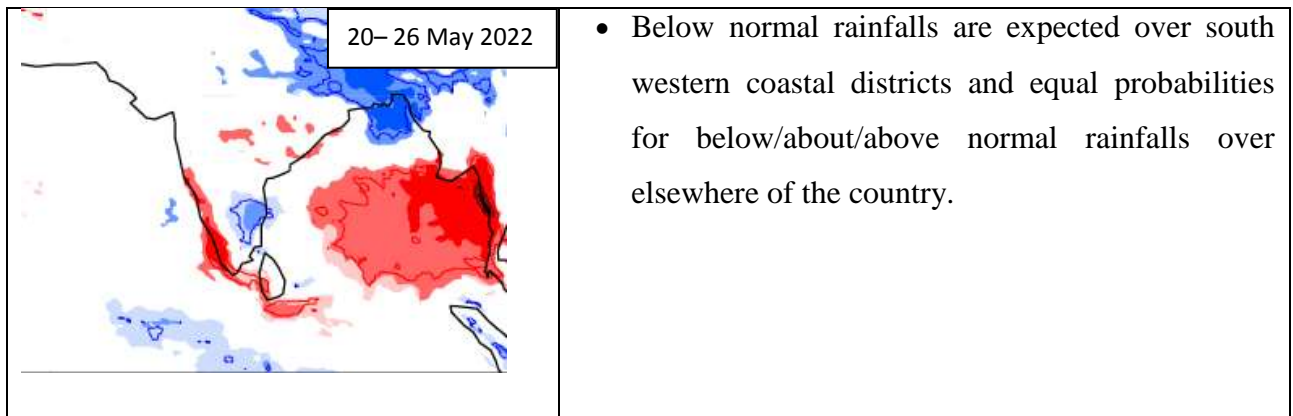


Fig 3. Weekly rainfall forecast for June 2022

Attention is requested for following areas

- More attention for the instructions and advisories issued by authorized agencies particularly on agriculture, water sectors and related to extreme weather.
- Generally there is a possibility for spells of strong gusty winds and heavy rainfall during the season particularly in the SW part of the country.

Annex-1

District wise mean (30 years (1961-1990) of average) rainfalls during the months of June, July and August season.

District	Average rainfall- June (mm)	Average rainfall- July (mm)	Average rainfall- August(mm)
Colombo	247.6	180.0	162.5
Kalutara	350.8	262.9	247.8
Galle	290.5	240.7	239.8
Matara	241.1	171.6	191.6
Hambantota	52.0	45.7	49.2
Ampara	24.4	49.9	57.3
Batticaloa	25.5	55.1	60.5
Trincomalee	22.6	65.5	80.7
Mullaithivu	12.5	39.0	48.0
Jaffna	13.7	24.5	33.3
Killinochchi	9.4	21.8	25.9
Mannar	7.2	13.9	19.2
Puttalam	46.6	28.7	23.1
Gampaha	212.8	136.5	129.1
Kegalle	372.7	299.2	262.9
Ratnapura	277.3	201.4	196.4
Monaragala	24.8	51.2	49.9
Badulla	35.4	72.0	76.3
Pollonnaruwa	18.0	56.9	54.0
Vavuniya	10.6	42.7	56.5
Anuradapura	11.4	37.8	40.5
Kurunegala	86.3	68.0	58.1
Matale	44.0	60.3	59.2
Kandy	172.6	171.0	154.0
Nuwaraeliya	270.1	262.4	234.5

Table 01: 30 year Average (1961-1990) district wise rainfalls during the month of June, July and August

Table 01 shows the mean (30 year Average (1961-1990)) rainfalls during the month of June, July and August in each district.