

இந்திய அரசு
இந்திய வானிலை ஆய்வு துறை
மண்டல வானிலை ஆய்வு மையம்
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GOVERNMENT OF INDIA

INDIA METEOROLOGICAL
DEPARTMENT
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SOUTHWEST MONSOON REPORT 2021

The MJO (MADDEN-JULIAN-OSCILLATION) was observed over Atlantic Ocean during the month of June-2021 had no impact over Indian ocean areas, propagated eastward from Atlantic and African region to Indian Ocean and then from Indian ocean to Maritime continent during the month of July-2021 and continued to propagate eastwards from Maritime continent to western hemisphere and re-emerged into African and Indian Ocean region in the first half of August and stalled over Indian ocean region since then due to weak MJO and propagated Eastwards and lay over Maritime continent during September.

ENSO (EL-NINO-SOUTHERN OSCILLATION) was in neutral phase during June, July, August and September 2021 over Equatorial Pacific Ocean.

IOD (INDIAN OCEAN DIPOLE) was in neutral phase during the month of June and was in negative phase during July, August and September 2021.

**Weather conditions prevailed in Tamil Nadu
and adjoining areas during the period from
June to Sept 2021.**

June 2021:

East-west shear zone, cyclonic circulation, convection and southwest monsoon currents caused moderate to heavy rainfall at many places over Tamilnadu during the month.

The total monthly rainfall recorded in Tamil Nadu and Puducherry was 62.3 mm, normal rainfall is 51.7 mm which is 21 % more than its normal.

The total monthly rainfall recorded in Puducherry was 38.5 mm, normal rainfall is 56.0 mm which is 31 % less than its normal.

The highest monthly average district rainfall of 261.2 mm was recorded in Nilgiris district and the lowest monthly average rainfall of 23.1 mm was recorded in Chengalpattu district.

Highest rainfall recorded in centimetres during June:

Western ghats:

Upper Bhavani 22 and Avalanche 21 (both Nilgiris).

In the land area: Thirumayam (Pudukottai) 19.

JULY 2021:

East-west shear zone, cyclonic circulation, convection and southwest monsoon currents caused moderate to heavy rainfall at many places over Tamilnadu during the month.

The total monthly rainfall recorded in Tamil Nadu and Puducherry was 124.6 mm, normal rainfall is 73.3 mm which is 70 % more than its normal.

The total monthly rainfall recorded in Puducherry was 103.3 mm, normal rainfall is 75.6 mm which is 37 % more than its normal.

The highest monthly average district rainfall of 449.7 mm was recorded in Nilgiris district and the lowest monthly average rainfall of 14.8 mm was recorded in Ramanathapuram district.

Highest rainfall recorded in centimetres during July:

Western ghats: Valparai Pto and Cincona (both from Coimbatore district) 17 each.

In the land area: Kalayanallur (Kallakurichi) 14.

AUGUST 2021:

East-west shear zone, cyclonic circulation, north-south trough, convection and southwest monsoon currents caused moderate to heavy rainfall at a few places over Tamilnadu during the month.

The total monthly rainfall recorded in Tamil Nadu and Puducherry was 88.9 mm, normal rainfall is 92.8 mm which is 4 % less than its normal.

The total monthly rainfall recorded in Puducherry was 137.9 mm, normal rainfall is 123.2 mm which is 12 % more than its normal.

The highest monthly average district rainfall of 220.4 mm was recorded in Nilgiris district and the lowest monthly average rainfall of 18.8 mm was recorded in Thoothukudi district.

Highest rainfall recorded in centimetres during August:

Western ghats: Valparai (Coimbatore) and Avalanche (Nilgiris) 9 each.

In the land area: Kalasapakkam (Tiruvannamalai) and Thanjavur 14 each.

SEPTEMBER 2021:

East-west shear zone, cyclonic circulation, convection and southwest monsoon currents caused moderate to heavy rainfall at a few places over Tamilnadu during the month.

The total monthly rainfall recorded in Tamil Nadu and Puducherry was 117.6 mm, normal rainfall is 118.3 mm which is 1 % less than its normal.

The total monthly rainfall recorded in Puducherry was 124.0 mm, normal rainfall is 136.6 mm which is 9 % less than its normal.

The highest monthly average district rainfall of 239.1 mm was recorded in Tirupathur district and the lowest monthly average rainfall of 28.0 mm was recorded in Thoothukudi district.

Highest rainfall recorded in centimetres during September:

Highest rainfall recorded in centimetres during August: Western ghats: Devala (Nilgiris) 16 each.

In the land area: Tiruppur collectorate 18.

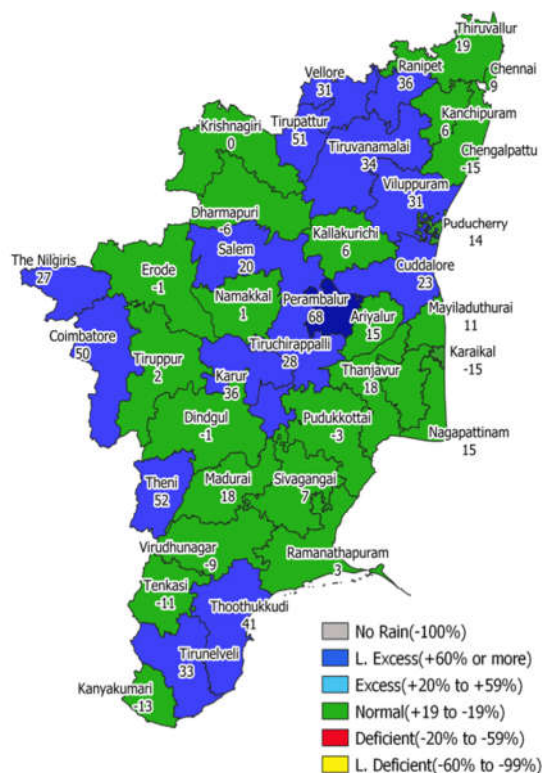
Highest Maximum temperature recorded during June to Sept 2021:

The maximum temperatures were normal in most places and were three to five degrees Celsius above their normal in few interior districts and Madurai Airport recorded the highest max temperature of 41.4 degree Celsius on 01-06-2021.

RAINFALL STATEMENT JUNE TO SEPTEMBER 2021

<i>Districts</i>	<i>Actual (mm)</i>	<i>Normal (mm)</i>	<i>Departure (%)</i>
Ariyalur	433.2	376.9	15
Chengalpattu	387.9	457.9	-15
Chennai	500.2	459.9	9
Coimbatore	1033.2	686.8	50
Cuddalore	438.2	356.7	23
Dharmapuri	369.8	392.3	-6
Dindigul	305.7	308.4	-1
Erode	257.8	259.9	-1
Kallakurichi	439.8	413.2	6
Kanchipuram	517.5	486.4	6
Kanyakumari	426.0	490.6	-13
Karaikal	263.7	308.6	-15
Karur	270.3	199.4	36
Krishnagiri	375.2	375.2	0
Madurai	384.1	325.2	18
Mayiladuthurai	331.8	299.3	11
Nagapattinam	293.8	254.6	15
Namakkal	341.0	336.4	1
Nilgiris	1109.7	874.9	27
Perambalur	468.7	278.7	68
Puducherry	447.7	392.7	14
Pudukottai	320.2	330.2	-3
Ramanathapuram	138.6	135.0	3
Ranipet	623.5	457.6	36
Salem	503.8	421.0	20
Sivagangai	322.9	301.9	7
Thenkasi	156.9	177.0	-11
Thanjavur	370.9	313.7	18
Theni	327.1	215.4	52
Tirunelveli	122.6	92.0	33
Tirupathur	638.6	421.7	51
Tiruppur	153.8	151.3	2
Tiruvallur	553.2	463.4	19
Tiruvannamalai	602.8	449.4	34
Tiruvarur	317.8	302.3	5
Toothukudi	90.9	64.7	41
Tiruchirapalli	353.1	276.8	28
Vellore	629.6	479.9	31
Villupuram	517.5	395.1	31
Virudhunagar	172.3	189.6	-9
Tamilnadu	393.4	336.1	17
Tamilnadu, Puducherry & Karaikal	433.2	376.9	15

PERIOD ENDING 01.06.2021 TO 30.09.2021



In Total, during June to September, Tamil Nadu and Puducherry as a whole recorded 433.2 mm rainfall, which is 15% above than its normal value of 376.9 mm and Puducherry recorded 382.7 mm rainfall which is 10% less than its normal value of 425.6 mm.

Highest rainfall recorded in centimetres during the season (June to September 2021):

Western ghats: Upper Bhavani 22

In the land area: Thirumayam (Pudukottai) 19.

N. Puviarasan, Sc 'E'
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