



DISTRICT STATISTICAL HAND BOOK - 2023

JAFFNA

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1965
DISTRICT SECRETARIAT
JAFFNA

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627861

Annual Publication
District Secretariat, Jaffna.



Chapter: **01**
Geographical Features

Table 1 .1 : Area of Jaffna District - 2022

S.N	Divisional Secretariat	Total Area (sq.km)	Total Area (ha)	Total Area (acre)
1	Delft	45.0	4,500.0	11,115.0
2	Islands South	78.0	7,800.0	19,266.0
3	Islands North	30.0	3,000.0	7,410.0
4	Karainagar	22.0	2,200.0	5,434.0
5	Jaffna	17.0	1,700.0	4,199.0
6	Nallur	40.0	4,000.0	9,386.0
7	Valikamam South West	43.0	4,300.0	11,115.0
8	Valikamam West	44.0	4,400.0	10,868.0
9	Valikamam South	30.0	3,000.0	7,410.0
10	Valikamam North	57.0	5,700.0	14,079.0
11	Valikamam East	102.0	10,200.0	25,194.0
12	Thenmaradchy	221.0	22,100.0	54,587.0
13	Vadamaradchy South West	88.0	8,800.0	21,736.0
14	Vadamaradchy North	29.0	2,900.0	7,163.0
15	Vadamaradchy East	179.0	17,900.0	44,213.0
Total		1,025.0	102,500.0	253,175.0

Source : District Land Use Planning, Jaffna

Table 1.2: Mean Annual and Monthly Rainfall : 2014 – 2022

S.N	Month	2014	2015	2016	Rainy Days
1	January	92.8	0.9	15.9	4.0
2	February	22.7	18.1	6.4	1.0
3	March	-	15.4	1.8	1.0
4	April	8.5	52.4	0.5	1.0
5	May	80.6	215.7	286.0	10.0
6	June	8.1	37.6	15.6	2.0
7	July	1.6	0.2	0.2	-
8	August	108.5	59.5	79.6	2.0
9	September	35.7	46.7	4.0	1.0
10	October	262.1	254.7	48.0	6.0
11	November	496.4	757.8	431.6	15.0
12	December	251.6	379.9	121.2	5.0
Annual Total		1,368.6	1,838.9	1,010.8	48

2017	Rainy Days	2018	Rainy Days	2019	Rainy Days	2020	Rainy Days	2021	Rainy Days	2022
86.7	6.0	14.6	2.0	-	-	23.2	4.0	23.2	4.0	181.19
25.6	1.0	20.9	1.0	5.9	1.0	17.6	1.0	17.6	1.0	108.29
119.6	5.0	48.6	3.0	3.2	5.0	-	-	-	-	18.50
-	-	18.5	5.0	36.4	1.0	30.7	7.0	30.7	7.0	185.09
29.6	2.0	102.9	8.0	-	-	39.9	7.0	39.9	7.0	10.30
10.8	1.0	22.0	1.0	21.7	8.0	2.7	2.0	2.7	2.0	5.30
12.7	3.0	0.2	-	89.3	12.0	118.5	7.0	118.5	7.0	73.09
70.0	7.0	27.0	3.0	83.1	23.0	33.2	2.0	33.2	2.0	94.99
91.3	8.0	62.5	5.0	172.7	19.0	212.6	6.0	212.6	6.0	2.80
184.0	10.0	297.7	19.0	446.0	19.0	23.3	5.0	23.3	5.0	479.39
611.7	17.0	373.3	18.0	292.2	3.0	339.7	24.0	339.7	24.0	263.20
100.6	7.0	132.6	13.0	225.3	19.0	872.9	21.0	872.9	21.0	201.79
1,342.6	67	1,120.8	78	1,375.8	110	1714.3	86	1714.3	86	1623.93

Table 1.3 : Mean Annual and Monthly Air Temperature : 2011 – 2015

"Degree Celsius"

S.N	Month	2011	2012	2013			2014			2015		
				Min	Ave	Max	Min	Ave	Max	Min	Ave	Max
1	January	25.5	25.0	21.9	25.6	29.3	22.3	25.3	28.2	21.7	25.4	29.1
2	February	26.0	26.5	22.7	26.4	30.1	21.0	25.6	30.1	22.0	26.1	30.1
3	March	27.8	28.7	23.9	28.0	32.1	22.8	27.9	33.0	23.4	28.1	32.8
4	April	29.0	29.9	27.1	30.3	33.4	26.4	30.7	35.0	25.6	29.7	33.7
5	May	29.9	30.5	27.9	30.1	32.3	27.9	30.5	33.1	27.4	30.1	32.7
6	June	30.1	30.2	27.7	29.9	32.0	28.6	31.3	33.9	28.0	30.2	32.4
7	July	30.1	30.2	27.3	29.6	31.8	28.0	30.9	33.7	27.5	30.3	33.1
8	August	29.5	29.8	26.3	29.0	31.6	27.0	29.7	32.3	27.3	30.3	33.2
9	September	29.5	29.7	26.7	28.7	30.7	26.6	28.9	31.2	27.1	30.0	32.9
10	October	28.3	28.0	26.1	28.8	31.5	25.2	28.2	31.1	25.1	28.2	31.2
11	November	26.8	27.1	23.7	26.8	29.9	23.3	26.2	29.1	24.1	26.9	29.6
12	December	25.9	26.5	22.2	25.3	28.4	23.8	26.2	28.5	23.7	26.7	29.7
Mean Annual Air Temperature		28.2	28.5	25.3	28.2	31.1	25.2	28.4	31.6	25.2	28.5	31.7
<i>Min : Minimum</i>		<i>Ave : Average</i>		<i>Max : Maximum</i>								

Table 1.3: Mean Annual and Monthly Air Temperature: 2016 – 2022

"Degree Celsius"

S.N	Month	2016		2017		2018		2019		2020		2021		2022	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	January	21.9	29.9	21.5	29.1	20.8	28.9	21.1	28.7	22.2	30.0	22.2	30.0	29.76	22.64
2	February	22.0	31.6	20.3	29.8	21.2	30.0	23.4	31.0	22.2	31.0	22.2	31.0	29.77	21.74
3	March	24.0	34.0	23.9	32.1	23.4	32.3	23.8	33.4	22.9	32.7	22.9	32.7	31.89	24.52
4	April	27.7	35.7	27.1	34.2	25.7	34.3	26.1	34.7	25.7	34.4	25.7	34.4	32.70	25.85
5	May	27.8	33.6	27.6	33.7	27.0	33.3	28.6	34.0	27.7	33.9	27.7	33.9	33.00	28.04
6	June	27.6	32.2	27.5	33.1	27.6	32.1	28.5	33.7	28.1	33.4	28.1	33.4	32.84	27.31
7	July	27.6	32.5	27.3	34.2	27.1	32.9	27.6	32.9	26.9	32.6	26.9	32.6	32.89	26.47
8	August	27.6	33.1	26.6	33.1	26.7	32.2	26.8	31.8	27.0	31.6	27.0	31.6	32.02	26.32
9	September	27.6	32.3	26.2	31.7	25.9	32.2	26.0	31.5	26.2	30.7	26.2	30.7	31.77	26.41
10	October	25.7	32.3	26.3	31.9	24.7	30.4	24.4	30.7	26.1	31.6	26.1	31.6	31.19	25.07
11	November	23.7	29.9	23.9	29.7	23.5	29.5	24.2	30.7	24.3	30.0	24.3	30.0	29.61	23.20
12	December	22.2	29.2	22.8	29.3	22.9	28.9	23.5	29.3	23.2	28.0	23.2	28.0	29.20	23.62
Mean Annual Air Temperature		25.5	32.2	25.1	31.8	24.7	31.4	25.3	31.9	25.2	31.6	25.2	31.6	31.39	29.10

Min : Minimum

Ave : Average

Max : Maximum

Source: Department of Meteorology, Colombo

Table 1.4 : Mean Annual and Monthly Relative Humidity : 2010 – 2022

"Percentage"

S.N	Month	2010		2011		2012		2013		2014		2015
		D	N	D	N	D	N	D	N	D	N	Mean R.U
1	January	71	-	76	86	70	89	72	87	80	-	71
2	February	67	-	72	86	68	86	73	90	72	-	73
3	March	64	-	65	87	64	85	71	90	63	-	67
4	April	70	-	71	87	69	84	71	85	65	-	68
5	May	77	-	75	83	73	80	75	83	76	-	76
6	June	74	-	71	82	71	81	73	82	69	-	74
7	July	70	82	71	79	67	83	71	82	67	-	71
8	August	75	86	73	83	70	82	74	84	72	-	71
9	September	73	-	71	83	70	82	77	85	74	-	73
10	October	69	-	77	90	79	89	74	87	79	-	80
11	November	81	-	80	91	73	88	80	92	84	-	85
12	December	92	-	77	88	77	90	77	86	83	-	84
Mean Relative Humidity		74	-	73	85	71	85	74	86	74	-	74

D : Day N: Night

Table 1.4 : Mean Annual and Monthly Relative Humidity : 2010 – 2022

S.N	Month	2016		2017		2018		2019		2020		2021		2022	
		D	N	D	N	D	N	D	N	D	N	D	N	D	N
1	January	71	NA	75	NA	70	NA	76	NA	73	N/A	73	N/A	79.13	N/A
2	February	69	NA	69	NA	68	NA	73	NA	67	N/A	67	N/A	74.29	N/A
3	March	64	NA	71	NA	69	NA	65	NA	66	N/A	66	N/A	74.90	N/A
4	April	64	NA	69	NA	67	NA	67	NA	68	N/A	68	N/A	78.13	N/A
5	May	74	NA	72	NA	75	NA	73	NA	73	N/A	73	N/A	76.22	N/A
6	June	73	NA	73	NA	78	NA	72	NA	72	N/A	72	N/A	75.47	N/A
7	July	72	NA	68	NA	70	NA	73	NA	73	N/A	73	N/A	73.42	N/A
8	August	71	NA	73	NA	72	NA	79	NA	75	N/A	75	N/A	76.42	N/A
9	September	73	NA	76	NA	73	NA	81	NA	80	N/A	80	N/A	77.53	N/A
10	October	72	NA	79	NA	83	NA	83	NA	76	N/A	76	N/A	79.74	N/A
11	November	79	NA	85	NA	82	NA	81	NA	82	N/A	82	N/A	80.67	N/A
12	December	76	NA	77	NA	83	NA	81	NA	84	N/A	84	N/A	81.61	N/A
Mean Relative Humidity		72	-	74	-	74	-	75	-	74	-	74	-	77.29	-

D : Day N: Night Source: Department of Meteorology, Colombo

NA: Data Not Available

Table 1.5: Mean Wind Speed: 2007 – 2018 & 2022

"km/hour"

S.N	Month	2007	2008	2009	2010	2013	2014	2015	2016		2017		2018		2022	
									8.30	17.30	8.30	17.30	8.30	17.30	8.30	17.30
1	January	-	4.7	5.7	6.8	NA	9.3	8.3	5.8	9.20	5.5	8.60	5.4	8.40	4.6	6.6
2	February	-	4.7	4.5	6.2	NA	7.8	8.7	5.4	11.5	4.8	9.9	7.4	9.9	4.0	7.6
3	March	5.4	4.8	3.8	5.8	NA	9.2	8.1	6.4	10.2	5.3	6.2	6	7.7	5.2	7.0
4	April	5.9	6.3	7.5	5.7	NA	6.9	5.5	7.1	7.6	8	7.1	6.6	8.3	7.0	3.6
5	May	15.2	12.1	12.3	9.2	NA	10.5	10.7	6.2	7.7	9.8	9.9	7.4	7.8	3.6	3.8
6	June	12.4	8.5	3.4	11.0	NA	11.0	12.3	9.4	10.8	11.7	12.6	12.8	13.0	6.9	8.5
7	July	13.1	8.1	11.8	8.4	NA	11.0	11.3	9.4	10	7.8	9.7	7.8	10.0	6.4	7.9
8	August	13.4	11.9	10.5	8.5	NA	10.7	10.1	9.2	16.7	6.3	8.5	8.7	10.4	5.9	6.4
9	September	11.5	13.1	11.7	8.0	11.4	9.0	10.7	9.4	11.5	8.3	8.5	8.5	8.9	6.9	7.1
10	October	7.0	5.7	6.7	-	8.5	5.9	5.7	7.9	5.8	7.4	7.0	5.4	4.7	5.4	4.1
11	November	3.6	6.2	4.6	-	5.6	5.9	5.8	5.5	6.1	5.8	5.6	5.0	5.0	5.5	4.9
12	December	-	5.2	-	-	7.4	8.4	7.4	7.2	7.8	6.2	7.3	6.5	6.8	5.9	4.9

Source: Department of Meteorology, Colombo

Table 1.6: Land Use Pattern – 2022

S.N	Land Use Type	Extent (Ha)	Percentage (%)
1	Built up Land	4,149	4.05
	Homesteads /Home Garden	32,365	31.58
2	Agricultural Land		
	Coconut	1,482	1.45
	Paddy	12,887	12.57
	Palmyrah	5,463	5.33
	Field Crops	9,139	8.92
	Other cultivation (Cashew,Banana)	599	0.58
3	Abandoned Agricultural Land		
	Abandoned Paddy Land	1,434	1.40
4	Forest Land		
	Dense Forest	319	0.31
	Scrub	3,978	3.88
	Grassland	4,219	4.12
	Forest Plantation	129	0.13
5	Wetland		
	Marsh	4,418	4.31
	Mangroves	668	0.65
6	Water Bodies	14,679	14.32
7	Rocks	603	0.59
8	Sandy Areas	4,191	4.09
9	Bare Land	1,778	1.73
Total		102,500	100.00

Source: Dept of Land Use Planning, Jaffna