

Table 1:1 : Area of Jaffna District - 2021

S.N	Divisional Secretariat	Total Area (sq.km)	Total Area (ha)	Total Area (acre)
1	Delft	45.0	4,500.0	11,115
2	Islands South	78.0	7,800.0	19,266
3	Islands North	30.0	3,000.0	7,410
4	Karainagar	22.0	2,200.0	5,434
5	Jaffna	17.0	1,700.0	4,199
6	Nallur	40.0	4,000.0	9,951
7	Valikamam South West	43.0	4,300.0	10,550
8	Valikamam West	44.0	4,400.0	10,868
9	Valikamam South	30.0	3,000.0	7,410
10	Valikamam North	57.0	5,700.0	14,079
11	Valikamam East	102.0	10,200.0	25,194
12	Thenmaradchi	221.0	22,100.0	54,587
13	Vadamaradchi South West	88.0	8,800.0	21,736
14	Vadamaradchi North	29.0	2,900.0	7,163
15	Vadamaradchi East	179.0	17,900.0	44,213
Total		1025.0	102,500.0	253,175

Source : District Land Use Planning, Jaffna

Table 1:2 : Mean Annual and Monthly Rainfall : 2012 - 2021

S.N	Month	2012	2013	2014	2015	2016	Rainy Days
1	January	6.4	151.8	92.8	0.9	15.9	4.0
2	February	0.2	151.1	22.7	18.1	6.4	1.0
3	March	8.3	117.0	-	15.4	1.8	1.0
4	April	65.0	53.8	8.5	52.4	0.5	1.0
5	May	7.2	71.9	80.6	215.7	286.0	10.0
6	June	-	-	8.1	37.6	15.6	2.0
7	July	2.6	Tr	1.6	0.2	0.2	-
8	August	8.6	56.3	108.5	59.5	79.6	2.0
9	September	135.4	100.4	35.7	46.7	4.0	1.0
10	October	395.3	81.7	262.1	254.7	48.0	6.0
11	November	80.6	161.9	496.4	757.8	431.6	15.0
12	December	233.6	87.4	251.6	379.9	121.2	5.0
Annual Total		943.2	1,033.3	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
	86.7	6.0	14.6	2.0	-	-	23.2	4.0	23.2	4.0
	25.6	1.0	20.9	1.0	5.9	1.0	17.6	1.0	17.6	1.0
	119.6	5.0	48.6	3.0	3.2	5.0	-	-	-	-
	-	-	18.5	5.0	36.4	1.0	30.7	7.0	30.7	7.0
	29.6	2.0	102.9	8.0	-	-	39.9	7.0	39.9	7.0
	10.8	1.0	22.0	1.0	21.7	8.0	2.7	2.0	2.7	2.0
	12.7	3.0	0.2	-	89.3	12.0	118.5	7.0	118.5	7.0
	70.0	7.0	27.0	3.0	83.1	23.0	33.2	2.0	33.2	2.0
	91.3	8.0	62.5	5.0	172.7	19.0	212.6	6.0	212.6	6.0
	184.0	10.0	297.7	19.0	446.0	19.0	23.3	5.0	23.3	5.0
	611.7	17.0	373.3	18.0	292.2	3.0	339.7	24.0	339.7	24.0
	100.6	7.0	132.6	13.0	225.3	19.0	872.9	21.0	872.9	21.0
	1,342.6	67	1,120.8	78	1,375.8	110	1714.3	86.0	1714.3	86

mm

Source: Department of Meteorology, Colombo

Table 1:3 : Mean Annual and Monthly Air Temperature : 2013 - 2021

S.N	Month	2013			2014			2015			2016			2017		2018		2019		2020		2021	
		Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	January	21.9	25.6	29.3	22.3	25.3	28.2	21.7	25.4	29.1	21.9	29.9	21.5	29.1	20.8	28.9	21.1	28.7	22.2	30.0	22.2	30.0	
2	February	22.7	26.4	30.1	21.0	25.6	30.1	22.0	26.1	30.1	22.0	31.6	20.3	29.8	21.2	30.0	23.4	31.0	22.2	31.0	22.2	31.0	
3	March	23.9	28.0	32.1	22.8	27.9	33.0	23.4	28.1	32.8	24.0	34.0	23.9	32.1	23.4	32.3	23.8	33.4	22.9	32.7	22.9	32.7	
4	April	27.1	30.3	33.4	26.4	30.7	35.0	25.6	29.7	33.7	27.7	35.7	27.1	34.2	25.7	34.3	26.1	34.7	25.7	34.4	25.7	34.4	
5	May	27.9	30.1	32.3	27.9	30.5	33.1	27.4	30.1	32.7	27.8	33.6	27.6	33.7	27.0	33.3	28.6	34.0	27.7	33.9	27.7	33.9	
6	June	27.7	29.9	32.0	28.6	31.3	33.9	28.0	30.2	32.4	27.6	32.2	27.5	33.1	27.6	32.1	28.5	33.7	28.1	33.4	28.1	33.4	
7	July	27.3	29.6	31.8	28.0	30.9	33.7	27.5	30.3	33.1	27.6	32.5	27.3	34.2	27.1	32.9	27.6	32.9	26.9	32.6	26.9	32.6	
8	August	26.3	29.0	31.6	27.0	29.7	32.3	27.3	30.3	33.2	27.6	33.1	26.6	33.1	26.7	32.2	26.8	31.8	27.0	31.6	27.0	31.6	
9	September	26.7	28.7	30.7	26.6	28.9	31.2	27.1	30.0	32.9	27.6	32.3	26.2	31.7	25.9	32.2	26.0	31.5	26.2	30.7	26.2	30.7	
10	October	26.1	28.8	31.5	25.2	28.2	31.1	25.1	28.2	31.2	25.7	32.3	26.3	31.9	24.7	30.4	24.4	30.7	26.1	31.6	26.1	31.6	
11	November	23.7	26.8	29.9	23.3	26.2	29.1	24.1	26.9	29.6	23.7	29.9	23.9	29.7	23.5	29.5	24.2	30.7	24.3	30.0	24.3	30.0	
12	December	22.2	25.3	28.4	23.8	26.2	28.5	23.7	26.7	29.7	22.2	29.2	22.8	29.3	22.9	28.9	23.5	29.3	23.2	28.0	23.2	28.0	
Mean Annual Air Temperature		25.3	28.2	31.1	25.2	28.4	31.6	25.2	28.5	31.7	25.5	32.2	25.1	31.8	24.7	31.4	25.3	31.9	25.2	31.6	25.2	31.6	

Min : Minimum Ave : Average Max : Maximum Source : Department of Meteorology, Colombo

Table 1.4 : Mean Annual and Monthly Relative Humidity : 2010 - 2021 "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

Table 1.4 Mean Annual and Monthly Relative Humidity ; 2010 - 2021

"Percentage"

S.N	Month	2016		2017		2018		2019		2020		2021	
		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
2	February	69	NA	69	NA	68	NA	73	NA	67	N/A	67	N/A
3	March	64	NA	71	NA	69	NA	65	NA	66	N/A	66	N/A
4	April	64	NA	69	NA	67	NA	67	NA	68	N/A	68	N/A
5	May	74	NA	72	NA	75	NA	73	NA	73	N/A	73	N/A
6	June	73	NA	73	NA	78	NA	72	NA	72	N/A	72	N/A
7	July	72	NA	68	NA	70	NA	73	NA	73	N/A	73	N/A
8	August	71	NA	73	NA	72	NA	79	NA	75	N/A	75	N/A
9	September	73	NA	76	NA	73	NA	81	NA	80	N/A	80	N/A
10	October	72	NA	79	NA	83	NA	83	NA	76	N/A	76	N/A
11	November	79	NA	85	NA	82	NA	81	NA	82	N/A	82	N/A
12	December	76	NA	77	NA	83	NA	81	NA	84	N/A	84	N/A
Mean Relative Humidity		72		74		74		75		74		74	

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

Table 1.5 : Mean Wind Speed : 2007 - 2018

S.N	Month	2007	2008	2009	2010	2013	2014	2015
1	January	-	4.7	5.7	6.8	NA	9.3	8.3
2	February	-	4.7	4.5	6.2	NA	7.8	8.7
3	March	5.4	4.8	3.8	5.8	NA	9.2	8.1
4	April	5.9	6.3	7.5	5.7	NA	6.9	5.5
5	May	15.2	12.1	12.3	9.2	NA	10.5	10.7
6	June	12.4	8.5	3.4	11.0	NA	11.0	12.3
7	July	13.1	8.1	11.8	8.4	NA	11.0	11.3
8	August	13.4	11.9	10.5	8.5	NA	10.7	10.1
9	September	11.5	13.1	11.7	8.0	11.4	9.0	10.7
10	October	7.0	5.7	6.7	-	8.5	5.9	5.7
11	November	3.6	6.2	4.6	-	5.6	5.9	5.8
12	December	-	5.2	-	-	7.4	8.4	7.4

Data not available in 2019, 2020 and 2021

NA: Data Not Available

"km/hour"

2016		2017		2018	
8.30	17.30	8.30	17.30	8.30	17.30
5.8	9.20	5.5	8.60	5.4	8.40
5.4	11.5	4.8	9.9	7.4	9.9
6.4	10.2	5.3	6.2	6	7.7
7.1	7.6	8	7.1	6.6	8.3
6.2	7.7	9.8	9.9	7.4	7.8
9.4	10.8	11.7	12.6	12.8	13.0
9.4	10	7.8	9.7	7.8	10.0
9.2	16.7	6.3	8.5	8.7	10.4
9.4	11.5	8.3	8.5	8.5	8.9
7.9	5.8	7.4	7.0	5.4	4.7
5.5	6.1	5.8	5.6	5.0	5.0
7.2	7.8	6.2	7.3	6.5	6.8

Source: Deparent of Meteorology, Colombo

Table 1.6 : Land Use Pattern - 2021

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	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: District Land Use Planning, Jaffna.