

Geographical Features

Figure 1 : Divisional wise Area (sq.km)

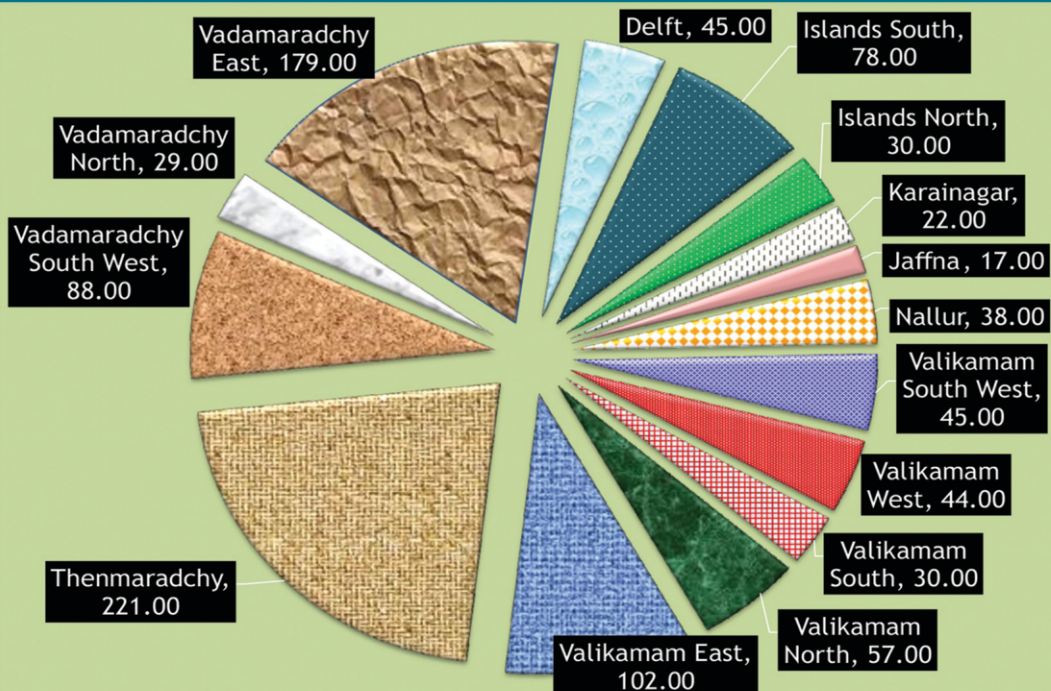


Table 1.1 : Area of Jaffna District - 2019

S.N	Divisional Secretariat	Total Area (sq.km)	Total Area (ha)	Total Area (acre)
1	Delft	45.00	4,500.00	11,115.00
2	Islands South	78.00	7,800.00	19,266.00
3	Islands North	30.00	3,000.00	7,410.00
4	Karainagar	22.00	2,200.00	5,434.00
5	Jaffna	17.00	1,700.00	4,199.00
6	Nallur	38.00	3,800.00	9,386.00
7	Valikamam South West	45.00	4,500.00	11,115.00
8	Valikamam West	44.00	4,400.00	10,868.00
9	Valikamam South	30.00	3,000.00	7,410.00
10	Valikamam North	57.00	5,700.00	14,079.00
11	Valikamam East	102.00	10,200.00	25,194.00
12	Thenmaradchi	221.00	22,100.00	54,587.00
13	Vadamaradchi South West	88.00	8,800.00	21,736.00
14	Vadamaradchi North	29.00	2,900.00	7,163.00
15	Vadamaradchi East	179.00	17,900.00	44,213.00
Total		1,025.00	102,500.00	253,175.00

Source : District Land Use Planning Office, Jaffna

Table 1.2: Mean Annual and Monthly Rainfall : 2009 - 2019

S.N	Month	2009	2010	2011	2012	2013	2014	2015	Rainy Days	2016	Rainy Days	2017	Rainy Days	2018	Rainy Days	2019	Rainy Days
1	January	6.9	47.1	81.0	6.4	151.8	92.8	0.9	1	15.9	4	86.7	6	14.6	2	0.0	0
2	February	0.0	0.0	3.1	0.2	151.1	22.7	18.1	5	6.4	1	25.6	1	20.9	1	5.9	1
3	March	149.5	0.1	1.3	8.3	117.0	0.0	15.4	4	1.8	1	119.6	5	48.6	3	3.2	5
4	April	204.4	66.6	210.9	65.0	53.8	8.5	52.4	10	0.5	1	0.0	0	18.5	5	36.4	1
5	May	13.8	94.5	11.9	7.2	71.9	80.6	215.7	9	286.0	10	29.6	2	102.9	8	0.0	0
6	June	2.4	29.7	1.3	0.0	0.0	8.1	37.6	3	15.6	2	10.8	1	22.0	1	21.7	8
7	July	3.1	5.1	0.7	2.6	Tr	1.6	0.2	1	0.2	0	12.7	3	0.2	0	89.3	12
8	August	41.0	127.5	15.1	8.6	56.3	108.5	59.5	5	79.6	2	70.0	7	27.0	3	83.1	23
9	September	24.4	142.8	31.1	135.4	100.4	35.7	46.7	8	4.0	1	91.3	8	62.5	5	172.7	19
10	October	52.1	115.1	301.1	395.3	81.7	262.1	254.7	17	48.0	6	184.0	10	297.7	19	446.0	19
11	November	371.6	492.2	518.1	80.6	161.9	496.4	757.8	26	431.6	15	611.7	17	373.3	18	292.2	3
12	December	401.7	375.8	295.1	233.6	87.4	251.6	379.9	17	121.2	5	100.6	7	132.6	13	225.3	19
Annual Total		1270.9	1496.5	1,470.7	943.2	1,033.3	1,369	1,838.9	106	1,010.8	48	1,342.6	67	1,120.8	78	1,375.8	110

Tr - Trace (Rainfall less than 0.1 mm)

0.3> Rainy days

Source : Department of Meteorology, Colombo

Figure 2: Mean Annual and Monthly Rainfall : 2007 - 2019 (Table 1.2)

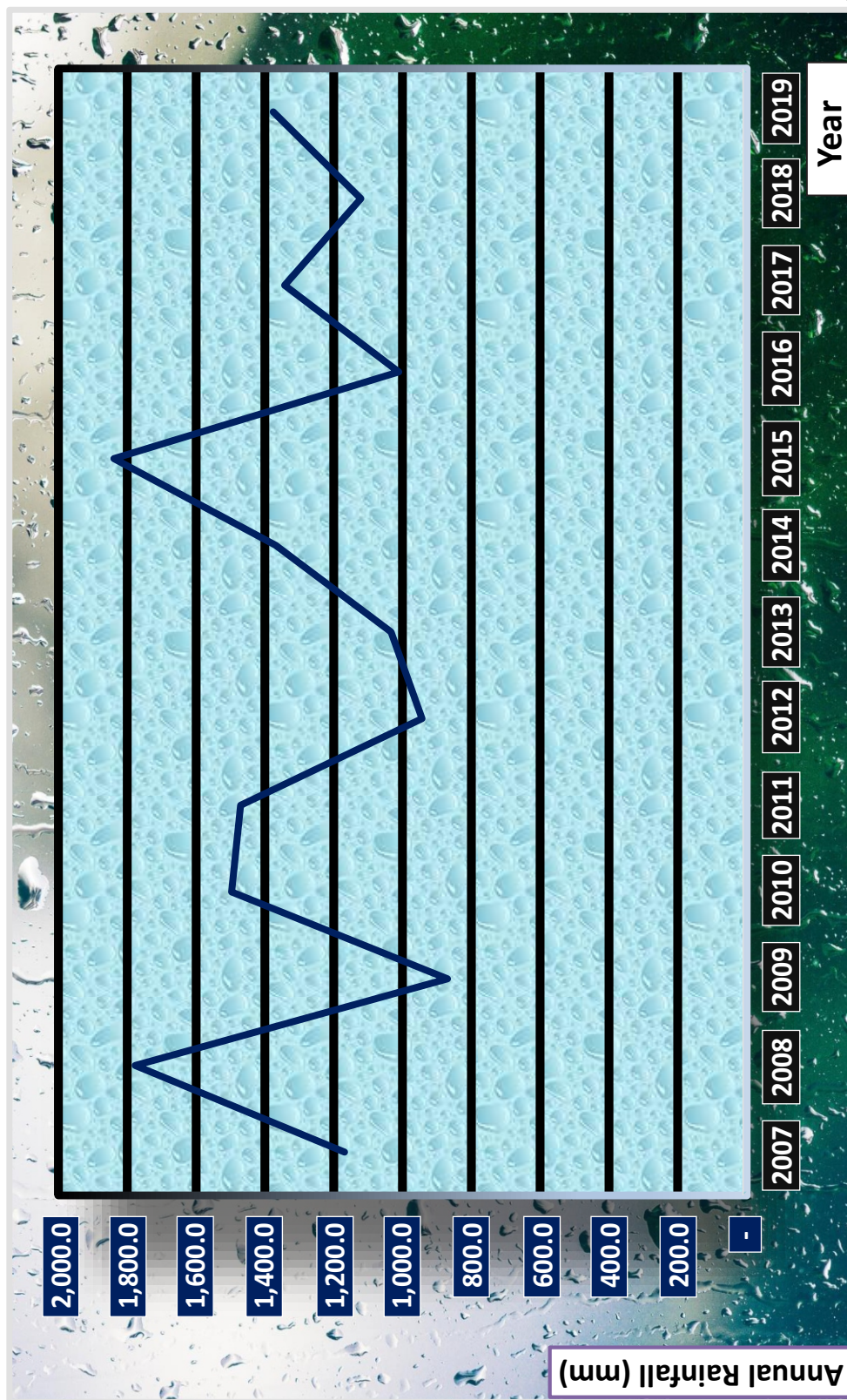


Table 1.3 : Mean Annual and Monthly Air Temperature : 2011 - 2019

"Degree Celsius"

S.N	Month	2011	2012	2013			2014			2015			2016		2017		2018		2019	
				Min	Max	Ave	Min	Max	Ave	Min	Max	Ave	Min	Max	Min	Max	Min	Max	Min	Max
1	January	25.5	25.0	21.9	29.3	25.6	22.3	28.2	25.3	21.7	29.1	25.4	21.9	29.9	21.5	29.1	20.8	28.9	21.1	28.7
2	February	26.0	26.5	22.7	30.1	26.4	21.0	30.1	25.6	22.0	30.1	26.1	22.0	31.6	20.3	29.8	21.2	30.0	23.4	31.0
3	March	27.8	28.7	23.9	32.1	28.0	22.8	33.0	27.9	23.4	32.8	28.1	24.0	34.0	23.9	32.1	23.4	32.3	23.8	33.4
4	April	29.0	29.9	27.1	33.4	30.3	26.4	35.0	30.7	25.6	33.7	29.7	27.7	35.7	27.1	34.2	25.7	34.3	26.1	34.7
5	May	29.9	30.5	27.9	32.3	30.1	27.9	33.1	30.5	27.4	32.7	30.1	27.8	33.6	27.6	33.7	27.0	33.3	28.6	34.0
6	June	30.1	30.2	27.7	32.0	29.9	28.6	33.9	31.3	28.0	32.4	30.2	27.6	32.2	27.5	33.1	27.6	32.1	28.5	33.7
7	July	30.1	30.2	27.3	31.8	29.6	28.0	33.7	30.9	27.5	33.1	30.3	27.6	32.5	27.3	34.2	27.1	32.9	27.6	32.9
8	August	29.5	29.8	26.3	31.6	29.0	27.0	32.3	29.7	27.3	33.2	30.3	27.6	33.1	26.6	33.1	26.7	32.2	26.8	31.8
9	September	29.5	29.7	26.7	30.7	28.7	26.6	31.2	28.9	27.1	32.9	30.0	27.6	32.3	26.2	31.7	25.9	32.2	26.0	31.5
10	October	28.3	28.0	26.1	31.5	28.8	25.2	31.1	28.2	25.1	31.2	28.2	25.7	32.3	26.3	31.9	24.7	30.4	24.4	30.7
11	November	26.8	27.1	23.7	29.9	26.8	23.3	29.1	26.2	24.1	29.6	26.9	23.7	29.9	23.9	29.7	23.5	29.5	24.2	30.7
12	December	25.9	26.5	22.2	28.4	25.3	23.8	28.5	26.2	23.7	29.7	26.7	22.2	29.2	22.8	29.3	22.9	28.9	23.5	29.3
Mean Annual Air Temperature		28.2	28.5	25.3	31.1	28.2	25.2	31.6	28.4	25.2	31.7	28.5	25.5	32.2	25.1	31.8	24.7	31.4	25.3	31.9

Min : Minimum Max : Maximum Ave : Average

Source: Department of Meteorology, Colombo

Table 1.4 : Mean Annual and Monthly Relative Humidity : 2009 - 2019

"Percentage"

S.N	Month	2009		2010		2011		2012		2013		2014		2015	2016		2017		2018		2019	
		D	N	D	N	D	N	D	N	D	N	D	N	Mean R.U	D	N	D	N	D	N	D	N
1	January	70	-	71	-	76	86	70	89	72	87	80	-	71	71	NA	75	NA	70	NA	76	NA
2	February	61	-	67	-	72	86	68	86	73	90	72	-	73	69	NA	69	NA	68	NA	73	NA
3	March	69	-	64	-	65	87	64	85	71	90	63	-	67	64	NA	71	NA	69	NA	65	NA
4	April	74	-	70	-	71	87	69	84	71	85	65	-	68	64	NA	69	NA	67	NA	67	NA
5	May	75	-	77	-	75	83	73	80	75	83	76	-	76	74	NA	72	NA	75	NA	73	NA
6	June	74	-	74	-	71	82	71	81	73	82	69	-	74	73	NA	73	NA	78	NA	72	NA
7	July	72	-	70	82	71	79	67	83	71	82	67	-	71	72	NA	68	NA	70	NA	73	NA
8	August	72	-	75	86	73	83	70	82	74	84	72	-	71	71	NA	73	NA	72	NA	79	NA
9	September	73	-	73	-	71	83	70	82	77	85	74	-	73	73	NA	76	NA	73	NA	81	NA
10	October	69	-	69	-	77	90	79	89	74	87	79	-	80	72	NA	79	NA	83	NA	83	NA
11	November	81	-	81	-	80	91	73	88	80	92	84	-	85	79	NA	85	NA	82	NA	81	NA
12	December	92	-	92	-	77	88	77	90	77	86	83	-	84	76	NA	77	NA	83	NA	81	NA
	Mean Relative Humidity	74	-	74	-	73	85	71	85	74	86	74	-	74	72	-	74	-	74	-	75	-

D : Day N: Night

NA: Not Available (Data)

Source: Department of Meteorology, Colombo

Table 1.5 : Mean Wind Speed : 2007 - 2019

S.N	Month	2007	2008	2009	2010	2013	2014	2015	"km/hour"							
									2016		2017		2018		2019	
									8.30 am	17.30	8.30 am	17.30	8.30 am	17.30	8.30 am	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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
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	NA	NA
12	December	-	5.2	-	-	7.4	8.4	7.4	7.2	7.8	6.2	7.3	6.5	6.8	NA	NA

NA: Not Available (Data) - 2019 Instrument damaged

Source: Department of Meteorology, Colombo

Table 1.6 : Land Use Pattern - 2019

S.N	Land Use Type	Extent(ha)	Percentage (%)
1	Built up Land	4149	4.05
	Homesteads / Home Garden	32365	31.58
2	Agricultural Land		
	Coconut	1482	1.45
	Paddy	12887	12.57
	Palmyrah	5463	5.33
	Field Crops	9139	8.92
	Other cultivation (cashew,Banana)	599	0.58
3	Abandoned Agricultural Land		
	Abandoned paddy	1434	1.40
4	Forest Land		
	Dense Forest	319	0.31
	Scrub	3978	3.88
	Grassland	4219	4.12
	Forest Plantation	129	0.13
5	Wetland		
	Marsh	4418	4.31
	Mangroves	668	0.65
6	Water Bodies	14679	14.32
7	Rocks	603	0.59
8	Sandy Areas	4191	4.09
9	Bare Land	1778	1.73
Total		102,500.00	100.00

Source : District Land Use Planning Office, Jaffna