

Table.1. Statistical information of the research area

Station name	Long	Lat	Elevation	Max Rainfall (mm)	Min Rainfall (mm)	Mean Rainfall (mm)	Standard deviation
Bagepalli	78	13.75	674	1026.41	220.15	531	174.5
Bangarapete	78.25	13	754	1443.68	237.49	684	245.9
Chikkaballapura	77.75	13.5	863	1155.40	178.00	611	217.1
Gauribidanur	77.5	13.5	663	1168.58	337.48	740	204.1
Gudibande	77.75	13.75	662	1068.61	68.92	532	209.5
Kolar	78	13.25	762	1198.47	401.74	701	201.7
Malur	78	13	783	1398.46	348.61	755	223.7
Mulabhagilu	78.5	13.25	659	1447.01	270.00	790	207.9
Shidlaghatta	78	13.5	769	1213.14	316.00	619	205.5
Srinivaspura	78.25	13.25	717	1297.26	331.87	696	212.1
Chinthamani	78.25	13.5	673	1296.03	347.54	731	210.5

Table 2. The severity of Agricultural drought by VHI (Source: Kogan 2001)

Severity level	VHI values
Extreme drought	<10
Severe drought	<20
Moderate drought	<30
Mild drought	<40
No drought	>50

Table 3. Stations wise drought mean value and total area of square Kilometre in Pre - monsoon season from 2015-2019

Grid Stations	Drought Category in Area of square Km in Pre-Monsoon					Mean rainfall in mm
	Extreme	Severe	Moderate	Mild	No drought	
Bagepalli	633.21	605.41	664.49	639.05	2003.57	79.7
Bangarapete	106.83	477.97	818.26	717.27	2164.07	119.5
Chikkaballapura	331.23	535.08	568.39	530.94	1194.58	106.0
Gauribidanur	369.44	564.07	631.91	621.59	2155.49	109.0
Gudibande	123.97	150.90	146.12	141.80	565.06	80.0
Kolar	225.12	553.53	777.73	720.57	1661.06	117.3
Malur	129.30	416.68	732.76	634.30	1199.70	151.9
Mulabhagilu	314.08	581.11	740.94	703.11	1693.17	130.9
Shidlaghatta	305.67	526.49	606.26	531.83	1332.63	97.8
Srinivaspura	606.69	863.13	705.80	581.34	1497.69	118.4
Chinthamani	740.20	985.54	696.35	450.76	1555.57	115.5

Table 4. Stations wise drought mean value and total area of square Kilometre in S-W monsoon season from 2015-2019

Grid Stations	Drought Category in Area of square Km in S-W Monsoon					Mean rainfall in mm
	Extreme	Severe	Moderate	Mild	No drought	
Bagepalli	397.70	375.53	270.11	189.91	587.17	546.3
Bangarapete	73.61	108.54	272.55	370.80	859.08	694.9
Chikkaballapura	273.63	247.31	210.25	190.81	341.48	650.1
Gauribidanur	209.27	388.38	463.10	339.74	338.92	840.1
Gudibande	99.77	134.19	97.91	56.75	58.01	564.6
Kolar	83.62	128.93	233.08	227.00	903.35	735.5
Malur	278.22	100.21	124.95	158.32	587.36	756.5
Mulabhagilu	127.87	222.55	309.82	242.52	710.03	785.2
Shidlaghatta	338.55	205.54	167.27	129.72	480.12	649.2
Srinivaspura	89.16	211.38	226.86	206.99	964.68	712.4
Chinthamani	330.55	361.08	176.07	89.67	812.47	744.2

Table 5. Stations wise drought mean value and total area of square Kilometre in N-E monsoon season from 2015-2019

Grid Stations	Drought Category in Area of square Km in N-E Monsoon					Mean rainfall in mm
	Extreme	Severe	Moderate	Mild	No drought	
Bagepalli	460.14	172.88	292.46	342.84	3275.63	173.79
Bangarapete	879.64	361.94	505.70	531.76	1899.63	212.3
Chikkaballapura	451.57	171.28	227.55	285.32	2196.78	175.25
Gauribidanur	267.65	133.45	238.98	334.07	3369.76	205.05
Gudibande	31.94	19.39	34.88	260.85	555.65	165.1
Kolar	704.60	296.54	387.46	534.53	2020.10	210.9
Malur	704.05	227.74	245.18	293.00	1645.96	219.10
Mulabhagilu	909.99	332.48	421.82	459.57	1907.58	261.1
Shidlaghatta	367.58	177.40	261.61	348.69	2147.78	191.6
Srinivaspura	562.10	315.73	478.60	650.25	2240.44	215.9
Chinthamani	374.79	241.99	356.82	530.89	2921.74	238.2