

**APPENDIX A: CHATHAM COUNTY RAINFALL DISTRIBUTIONS**

It has been determined that the rainfall totals and intensities for Pittsboro, NC are suitable for the entire County and as shall be used as the rainfall data for Chatham County. This information is from the current NOAA National Weather Service Precipitation Frequency Data Server (PFDS) for Pittsboro, NC (latitude 35.71, longitude -79.18)

This table can also be found at: [http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc\\_pfds.html](http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc_pfds.html).

<b>Chatham County Precipitation (inches)</b>											
<b>Duration</b>	<b>5 min</b>	<b>10 min</b>	<b>15 min</b>	<b>30 min</b>	<b>1 hr</b>	<b>2 hr</b>	<b>3 hr</b>	<b>6 hr</b>	<b>12 hr</b>	<b>24 hr</b>	
<b>Frequency (yr)</b>	<b>1</b>	0.42	0.67	0.84	1.15	1.43	1.69	1.80	2.15	2.55	2.96
	<b>2</b>	0.50	0.79	1.00	1.38	1.73	2.05	2.18	2.60	3.08	3.57
	<b>5</b>	0.57	0.92	1.16	1.65	2.12	2.54	2.71	3.24	3.85	4.47
	<b>10</b>	0.63	1.01	1.27	1.85	2.40	2.90	3.12	3.74	4.48	5.18
	<b>25</b>	0.69	1.10	1.40	2.07	2.76	3.37	3.65	4.41	5.33	6.13
	<b>50</b>	0.73	1.17	1.48	2.23	3.02	3.73	4.07	4.94	6.01	6.89
	<b>100</b>	0.77	1.23	1.55	2.37	3.27	4.08	4.49	5.48	6.72	7.67
	<b>200</b>	0.80	1.27	1.61	2.50	3.51	4.42	4.92	6.04	7.47	8.46
	<b>500</b>	0.84	1.33	1.67	2.66	3.81	4.87	5.49	6.79	8.50	9.56
	<b>1000</b>	0.86	1.36	1.71	2.77	4.04	5.21	5.93	7.39	9.34	10.43

<b>Chatham County Rainfall Intensities (inches/hour)</b>											
<b>Duration</b>	<b>5 min</b>	<b>10 min</b>	<b>15 min</b>	<b>30 min</b>	<b>1 hr</b>	<b>2 hr</b>	<b>3 hr</b>	<b>6 hr</b>	<b>12 hr</b>	<b>24 hr</b>	
<b>Frequency (yr)</b>	<b>1</b>	5.04	4.02	3.36	2.30	1.43	0.85	0.60	0.36	0.21	0.12
	<b>2</b>	6.00	4.74	4.00	2.76	1.73	1.03	0.73	0.43	0.26	0.15
	<b>5</b>	6.84	5.52	4.64	3.30	2.12	1.27	0.90	0.54	0.32	0.19
	<b>10</b>	7.56	6.06	5.08	3.70	2.40	1.45	1.04	0.62	0.37	0.22
	<b>25</b>	8.28	6.60	5.60	4.14	2.76	1.69	1.22	0.74	0.44	0.26
	<b>50</b>	8.76	7.02	5.92	4.46	3.02	1.87	1.36	0.82	0.50	0.29
	<b>100</b>	9.24	7.38	6.20	4.74	3.27	2.04	1.50	0.91	0.56	0.32
	<b>200</b>	9.60	7.62	6.44	5.00	3.51	2.21	1.64	1.01	0.62	0.35
	<b>500</b>	10.08	7.98	6.68	5.32	3.81	2.44	1.83	1.13	0.71	0.40
	<b>1000</b>	10.32	8.16	6.84	5.54	4.04	2.61	1.98	1.23	0.78	0.43