

City	County	KS Region	1-yr ²	90%	85%	Mean	14 Day Wet Season
Arkansas City	Cowley	Central	2.98	1.20	0.92	0.44	1.61
Coffeyville	Montgomery	East	3.16	1.50	1.10	0.57	1.97
Dodge City	Ford	West	2.01	0.79	0.58	0.29	0.80
Emporia	Lyon	East	3.01	1.20	0.90	0.46	1.99
Garden City	Finney	West	1.86	0.89	0.60	0.34	0.74
Great Bend	Barton	Central	2.16	1.00	0.80	0.40	1.38
Hays	Ellis	West	2.01	0.90	0.70	0.36	1.34
Hutchinson	Reno	Central	2.53	1.20	0.90	0.46	1.86
Lawrence	Douglas	East	2.91	1.18	0.90	0.46	1.98
Manhattan	Riley	Central	2.74	1.10	0.82	0.44	1.78
Newton	Harvey	Central	2.71	1.20	0.90	0.46	1.86
Ottawa	Franklin	East	3.00	1.20	0.90	0.46	1.99
Salina	Saline	Central	2.43	1.07	0.80	0.40	1.23
Winfield	Cowley	Central	2.98	1.20	0.92	0.44	1.61

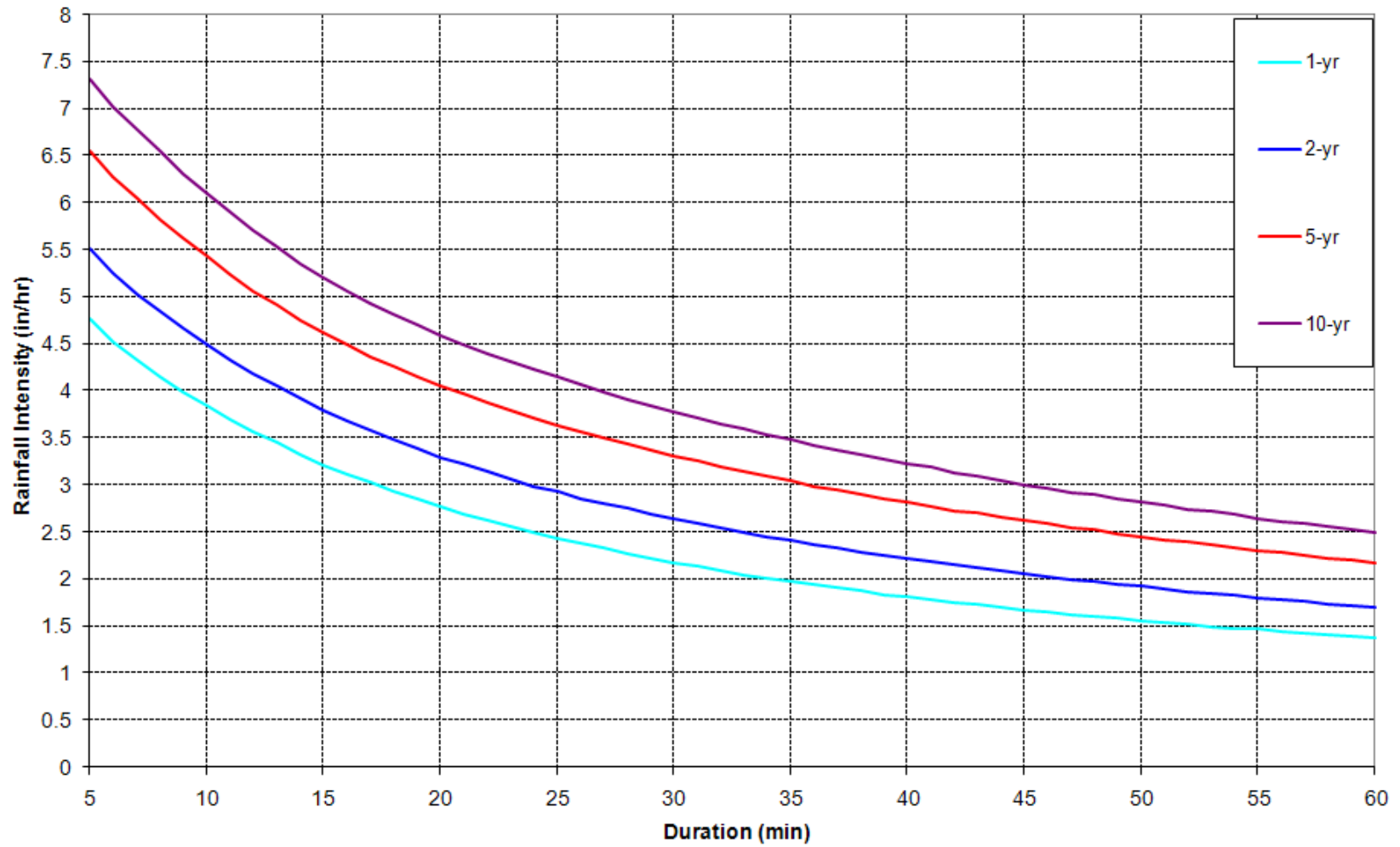
¹McEnroe, 1997. *Rainfall Depth Tables for Kansas Counties.*

Newton, Kansas Rainfall Intensity									
Duration (minute)	85% ¹	90% ¹	1-yr ²	2-yr ²	5-yr ²	10-yr ²	25-yr ²	50-yr ²	100-yr ²
	(inch/hour)								
5	1.25	1.66	4.77	5.52	6.56	7.32	8.44	9.32	10.2
6	1.25	1.66	4.53	5.26	6.28	7.03	8.13	8.99	9.84
7	1.22	1.63	4.33	5.04	6.05	6.78	7.85	8.69	9.52
8	1.18	1.58	4.15	4.85	5.83	6.55	7.59	8.41	9.22
9	1.15	1.53	3.99	4.67	5.63	6.32	7.34	8.14	8.93
10	1.11	1.47	3.84	4.5	5.43	6.11	7.1	7.87	8.64
11	1.07	1.42	3.7	4.34	5.25	5.91	6.86	7.61	8.36
12	1.03	1.38	3.57	4.19	5.07	5.71	6.64	7.37	8.09
13	1.00	1.33	3.45	4.05	4.91	5.53	6.43	7.14	7.84
14	0.96	1.29	3.33	3.92	4.76	5.36	6.24	6.93	7.61
15	0.93	1.25	3.22	3.8	4.62	5.21	6.06	6.73	7.4
16	0.91	1.21	3.12	3.69	4.49	5.07	5.9	6.56	7.21
17	0.88	1.17	3.03	3.58	4.37	4.94	5.76	6.4	7.04
18	0.85	1.14	2.94	3.48	4.26	4.82	5.62	6.25	6.88
19	0.83	1.11	2.85	3.39	4.15	4.7	5.5	6.12	6.73
20	0.81	1.08	2.77	3.3	4.06	4.6	5.38	5.99	6.59
21	0.79	1.05	2.7	3.22	3.97	4.5	5.27	5.87	6.46
22	0.77	1.02	2.63	3.14	3.88	4.4	5.16	5.75	6.34
23	0.75	1.00	2.56	3.06	3.8	4.31	5.06	5.64	6.22
24	0.73	0.98	2.5	2.99	3.72	4.23	4.97	5.54	6.11
25	0.72	0.95	2.44	2.93	3.64	4.15	4.87	5.44	6
26	0.70	0.93	2.38	2.86	3.57	4.07	4.79	5.34	5.9
27	0.68	0.91	2.33	2.8	3.5	4	4.7	5.25	5.8
28	0.67	0.89	2.27	2.75	3.44	3.92	4.62	5.16	5.7
29	0.66	0.88	2.23	2.69	3.37	3.85	4.54	5.08	5.61
30	0.64	0.86	2.18	2.64	3.31	3.79	4.47	4.99	5.52
31	0.63	0.84	2.14	2.59	3.26	3.72	4.39	4.91	5.43
32	0.62	0.83	2.09	2.54	3.2	3.66	4.32	4.84	5.35
33	0.61	0.81	2.05	2.5	3.15	3.6	4.25	4.76	5.26
34	0.60	0.80	2.01	2.45	3.09	3.54	4.19	4.69	5.18
35	0.59	0.78	1.98	2.41	3.04	3.49	4.12	4.62	5.11
36	0.58	0.77	1.94	2.37	2.99	3.43	4.06	4.55	5.03
37	0.57	0.75	1.91	2.33	2.95	3.38	4	4.48	4.96
38	0.56	0.74	1.88	2.29	2.9	3.33	3.94	4.41	4.89
39	0.55	0.73	1.84	2.25	2.86	3.28	3.88	4.35	4.82
40	0.54	0.72	1.81	2.22	2.82	3.23	3.83	4.29	4.75
41	0.53	0.71	1.79	2.18	2.77	3.19	3.77	4.23	4.68
42	0.52	0.70	1.76	2.15	2.73	3.14	3.72	4.17	4.62
43	0.52	0.69	1.73	2.12	2.7	3.1	3.67	4.11	4.56
44	0.51	0.68	1.7	2.09	2.66	3.05	3.62	4.06	4.5
45	0.50	0.67	1.68	2.06	2.62	3.01	3.57	4	4.44
46	0.49	0.66	1.65	2.03	2.59	2.97	3.52	3.95	4.38
47	0.49	0.65	1.63	2	2.55	2.93	3.48	3.9	4.32
48	0.48	0.64	1.61	1.97	2.52	2.9	3.43	3.85	4.27
49	0.47	0.63	1.59	1.95	2.48	2.86	3.39	3.8	4.21
50	0.47	0.62	1.56	1.92	2.45	2.82	3.35	3.75	4.16
51	0.46	0.62	1.54	1.9	2.42	2.79	3.31	3.71	4.11
52	0.46	0.61	1.52	1.87	2.39	2.75	3.26	3.66	4.06
53	0.45	0.60	1.5	1.85	2.36	2.72	3.23	3.62	4.01
54	0.44	0.59	1.48	1.83	2.33	2.69	3.19	3.58	3.96
55	0.44	0.59	1.47	1.8	2.3	2.65	3.15	3.53	3.92
56	0.43	0.58	1.45	1.78	2.28	2.62	3.11	3.49	3.87
57	0.43	0.57	1.43	1.76	2.25	2.59	3.08	3.45	3.83
58	0.42	0.57	1.41	1.74	2.22	2.56	3.04	3.41	3.78
59	0.42	0.56	1.4	1.72	2.2	2.53	3.01	3.38	3.74
60	0.41	0.55	1.38	1.7	2.17	2.5	2.97	3.34	3.7

¹ Rainfall intensity for the 85% and 90% events were derived using equations from Young, C. Bryan and McEnroe, B.M., 2002. *Precipitation Frequency Estimates for the Kansas City Metropolitan Area*.

² Rainfall intensity for the 1-yr through 100-yr events are from KDOT, 1997. *Rainfall Intensity*

Newton, Kansas



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