

Precipitation Estimates

NOAA Atlas 2, Vol. II - Wyoming

Location: Afton, Wyoming

Elevation: 6,200 ft

Latitude 42° 43' 20"

Longitude 110° 55' 48"

Precip/Frequency Data

Return Period	6-hr Precip	24-hr Precip
2	0.70	1.00
5	1.00	1.40
10	1.20	1.60
25	1.40	2.00
50	1.60	2.40
100	1.80	2.60

Precip Values (in) for Given Frequency and Duration

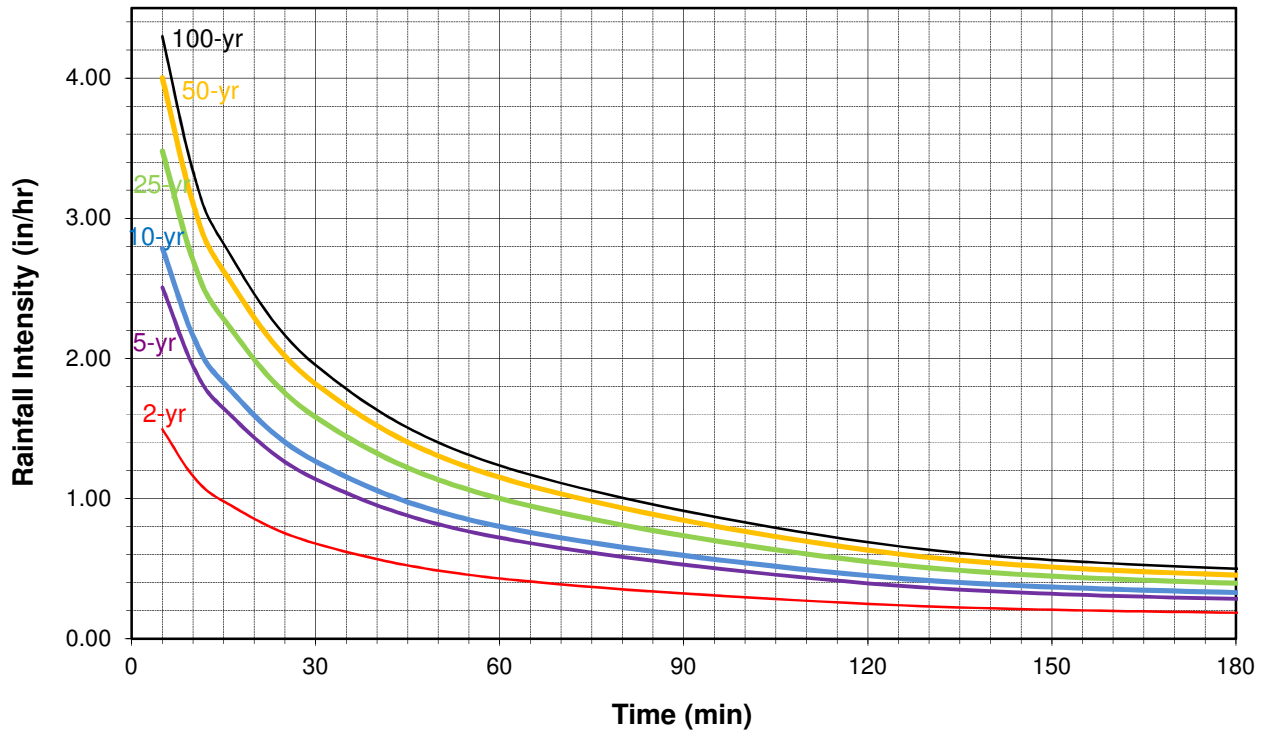
Duration (min)	Return Interval					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
5	0.12	0.21	0.23	0.29	0.33	0.36
10	0.19	0.32	0.36	0.45	0.52	0.56
15	0.24	0.41	0.46	0.57	0.66	0.70
30	0.34	0.57	0.63	0.79	0.91	0.98
60	0.43	0.72	0.80	1.00	1.15	1.23
120	0.50	0.79	0.90	1.10	1.26	1.38
180	0.56	0.85	0.99	1.19	1.36	1.50
360	0.70	1.00	1.20	1.40	1.60	1.80
720	0.85	1.20	1.40	1.70	2.00	2.20
1440	1.00	1.40	1.60	2.00	2.40	2.60

	Read directly from isopluvial maps
	From equations in Table 12 (page 16)
	From equations based on 1 hr values (page 17)
	From equations based on 1 hr and 6 hr values (page 16)
	From Figure 6 nomogram (page 17)
	From Figure 16 nomogram (page 17)

Intensity Values (in/hr) for Given Frequency and Duration

Duration (min)	Return Interval					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
5	1.49	2.51	2.78	3.48	4.00	4.30
10	1.16	1.94	2.16	2.70	3.11	3.33
15	0.98	1.64	1.82	2.28	2.62	2.82
30	0.68	1.14	1.26	1.58	1.82	1.95
60	0.43	0.72	0.80	1.00	1.15	1.23
120	0.25	0.40	0.45	0.55	0.63	0.69
180	0.19	0.28	0.33	0.40	0.45	0.50
360	0.12	0.17	0.20	0.23	0.27	0.30
1440	0.04	0.05	0.06	0.07	0.08	0.09

TOWN OF AFTON, WYOMING Intensity-Duration-Frequency Curves



TOWN OF AFTON WYOMING Intensity-Duration-Frequency Curves

