New Jersey Department of Environmental Protection

Adjustment of NOAA Atlas 14 Precipitation Depths
Reflecting Rainfall Data Records up to 2019

County	Adjustment Factors (1-Day)		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.01	1.02	1.03
Bergen	1.01	1.03	1.06
Burlington	0.99	1.01	1.04
Camden	1.03	1.04	1.05
Cape May	1.03	1.03	1.04
Cumberland	1.03	1.03	1.01
Essex	1.01	1.03	1.06
Gloucester	1.05	1.06	1.06
Hudson	1.03	1.05	1.09
Hunterdon	1.02	1.05	1.13
Mercer	1.01	1.02	1.04
Middlesex	1.00	1.01	1.03
Monmouth	1.00	1.01	1.02
Morris	1.01	1.03	1.06
Ocean	1.00	1.01	1.03
Passaic	1.00	1.02	1.05
Salem	1.02	1.03	1.03
Somerset	1.00	1.03	1.09
Sussex	1.03	1.04	1.07
Union	1.01	1.03	1.06
Warren	1.02	1.07	1.15

1. The adjustment factors for counties are derived from the 1-Day Atlas 14 Adjustments by station in Appendix A of *Changes in Hourly and Daily Extreme Rainfall Amounts in NJ since the Publication of NOAA Atlas 14 Volume*, October 2021, prepared by DeGaetano et al., Northeast Regional Climate Center, Cornell University, NY. (This information is available at https://www.nj.gov/dep/dsr/publications/nj-atlas-14.pdf).
2. The precipitation depth for a specific site is calculated by multiplying the adjustment factor for the county where the site is situated with the precipitation depth (partial duration) of the site obtained from the NOAA Atlas 14 Point Precipitation Frequency Estimates: NJ (https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=nj). If a site is situated in multiple counties, an area-weighted average of the adjustment factors shall be used.