

Sizing Procedure (National Plumbing Code)

WADE

Maximum Rainfall in the United States, 60 Minute Period (10 year record).
Based on United States Department of Commerce Weather Bureau Technical Paper #2.

Table 1

State & City	Rainfall In Inches	State & City	Rainfall In Inches	State & City	Rainfall In Inches	State & City	Rainfall In Inches	State & City	Rainfall In Inches
ALABAMA		IDAHO		Marquette	2.93	Rochester	2.54	Memphis	3.25
Birmingham	3.89	Boise	0.98	Sault Ste. Marie	1.37	Syracuse	2.65	Nashville	2.21
Mobile	3.03	Pocatello	1.24						
Montgomery	3.81			MINNESOTA		N. CAROLINA		TEXAS	
ALASKA		ILLINOIS		Duluth	2.51	Asheville	2.70	Abilene	3.47
Fairbanks	0.99	Cairo	3.15	Minneapolis	2.29	Charlotte	2.81	Amarillo	3.36
ARKANSAS		Chicago	2.81	St. Paul	2.60	Greensboro	2.84	Austin	3.46
Fort Smith	2.47	Peoria	2.60	MISSISSIPPI		Raleigh	3.01	Brownsville	5.00
Little Rock	3.00	Springfield	2.75	Meridian	3.66	Wilmington	3.49	Corpus Christi	3.63
ARIZONA		INDIANA		Vicksburg	3.11	N. DAKOTA		Dallas	3.39
Phoenix	1.41	Evansville	2.79	MISSOURI		Bismarck	3.07	Del Rio	4.82
CALIFORNIA		Fort Wayne	2.27	Columbia	2.73	Devils Lake	2.70	El Paso	4.80
Eureka	1.18	Indianapolis	3.20	Kansas City	4.79	Williston	2.91	Fort Worth	3.35
Fresno	1.36	Terre Haute	2.81	St. Joseph	2.97	OHIO		Galveston	5.31
Los Angeles	1.51	IOWA		St. Louis	3.47	Akron	4.38	Houston	4.36
Red Bluff	2.14	Charles City	2.48	Springfield	2.42	Cincinnati	2.63	Palestine	3.24
Sacramento	1.65	Davenport	2.71	MONTANA		Cleveland	2.21	Port Arthur	3.97
San Diego	1.21	Des Moines	2.65	Havre	1.60	Columbus	2.83	San Antonio	3.07
San Francisco	1.07	Dubuque	2.88	Helena	1.06	Sandusky	3.51	Tvler	3.24
COLORADO		Keokuk	2.56	Kalispell	1.39	Toledo	3.58	UTAH	
Denver	2.20	Sioux City	2.94	Miles City	1.20	OKLAHOMA		Salt Lake City	1.62
Grand Junction	0.92	KANSAS		Missoula	1.36	Oklahoma City	3.32	VERMONT	
Pueblo	3.41	Concordia	3.63	NEBRASKA		OREGON		Burlington	2.16
CONNECTICUT		Dodge City	3.47	Lincoln	3.11	Baker	0.89	Northfield	1.92
Hartford	2.93	Topeka	4.16	North Platte	2.90	Portland	1.31	VIRGINIA	
New Haven	2.38	Wichita	2.66	Omaha	2.62	Roseburg	1.16	Cape Henry	3.78
DELAWARE		KENTUCKY		Valentine	3.02	PENNA.		Lynchburg	3.49
Wilmington	1.93	Lexington	3.15	NEVADA		Erie	2.97	Norfolk	3.67
DISTRICT OF COLUMBIA		Louisville	2.91	Reno	0.93	Harrisburg	2.42	Richmond	4.07
Washington	3.12	LOUISIANA		Winnemucca	1.10	Philadelphia	3.81	WASHINGTON	
FLORIDA		New Orleans	4.71	N. HAMPSHIRE		Pittsburgh	2.09	North Head	1.00
Apalachicola	3.71	Shreveport	3.15	Concord	2.71	Reading	2.68	Seattle	0.84
Jacksonville	3.32	MAINE		NEW JERSEY		Scranton	2.36	Spokane	1.02
Key West	4.30	Eastport	1.61	Atlantic City	3.98	RHODE ISLAND		Tacoma	0.79
Miami	4.53	Portland	2.11	Trenton	2.90	Block Island	2.19	Tootash Island	1.44
Pensacola	4.41	MARYLAND		NEW MEXICO		Providence	2.07	Walla Walla	1.53
Tampa	4.01	Baltimore	3.47	Albuquerque	1.56	S. CAROLINA		Yakima	0.84
GEORGIA		MASSACHUSETTS		Roswell	2.22	Charleston	4.11	W. VIRGINIA	
Atlanta	3.23	Boston	2.10	NEW YORK		Columbia	2.56	Elkins	2.37
Augusta	3.08	Nantucket	2.31	Albany	2.97	Greenville	3.63	Parkersburg	2.12
Macon	4.28	MICHIGAN		Binghamton	2.23	S. DAKOTA		WISCONSIN	
Savannah	3.63	Alpena	1.90	Buffalo	2.22	Huron	2.16	Green Bay	2.25
HAWAII		Detroit	3.09	Canton	2.45	Rapid City	2.43	La Crosse	2.61
Honolulu	2.87	Escanaba	2.14	Ithaca	2.70	TENNESSEE		Madison	3.67
		Grand Rapids	2.21	New York	2.97	Chattanooga	2.52	Milwaukee	2.25
		Lansing	2.06	Oswego	1.33	Knoxville	3.52	WYOMING	
								Cheyenne	2.51
								Lander	1.45
								Sheridan	1.53

Table 2

Size of Drain or Leader In Inches	Rainfall In Inches							
	1	2	3	4	5	6	7	8
	Roof Area In Square Feet							
2	2880	1440	960	720	575	480	410	360
3	8800	4400	2930	2200	1760	1470	1260	1100
4	18400	9200	6130	4600	3680	3075	2630	2300
5	34600	17300	11530	8650	6920	5765	4945	4325
6	54000	27000	17995	13500	10800	9000	7715	6750
8	116000	58000	38660	29000	23200	19315	16570	14500