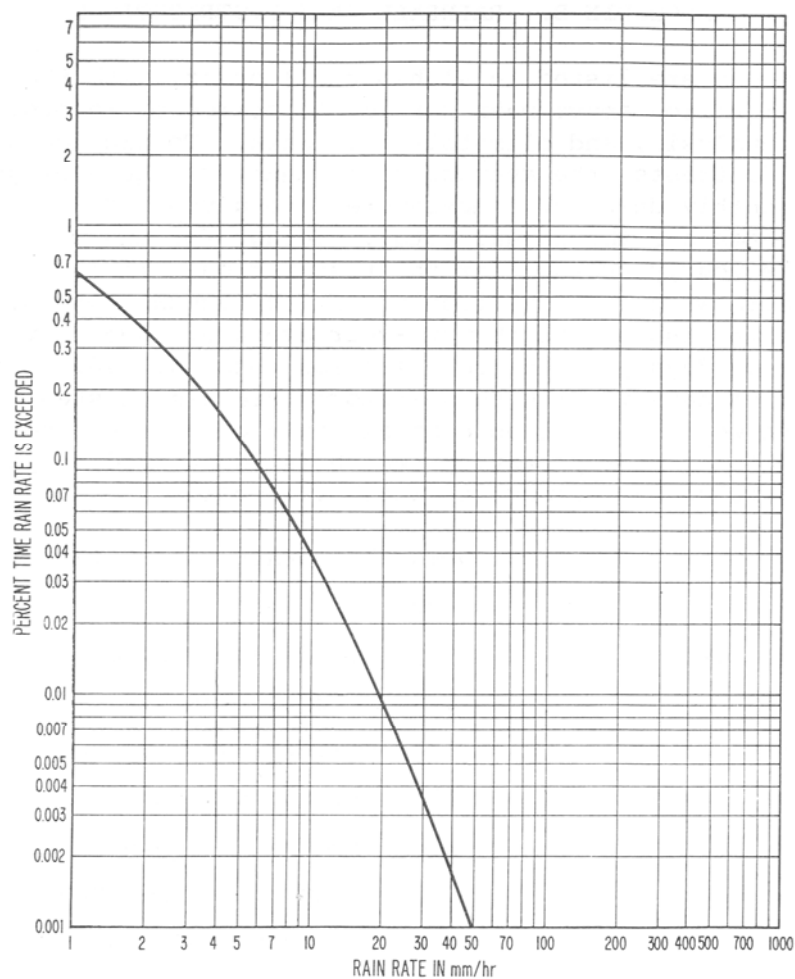


APPENDIX B. RAINFALL RATE DISTRIBUTIONS

Stations are listed in alphabetical order, with the geographical coordinates, elevation above mean sea level, period of record, source of the rainfall rate analysis, and climatological data. To provide an indication of winter/summer contrasts, the average daily maximum, the average daily minimum, and the mean monthly dewpoint temperatures are given for January and July. Precipitation data are the annual total, average for the wettest and driest months, and the yearly average for the test period. If the test period covered two years with great variability in the annual totals, the total for each year is given instead of the two-year average. Where available, the average number of days/yr with precipitation totaling 0.01 in or more and the average number of days/yr with thunderstorms are also listed. Complete climatological data were not available at all rain gage sites, so in some cases data are given for a nearby station, which is identified in parentheses after the climatological element to which it applies.

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Albuquerque, New Mexico

35° 03' N, 106° 37' W

1618 m m.s.l.

Data: Rainfall rate, 4-min averages, 1952

Source: Sims & Jones (1973)

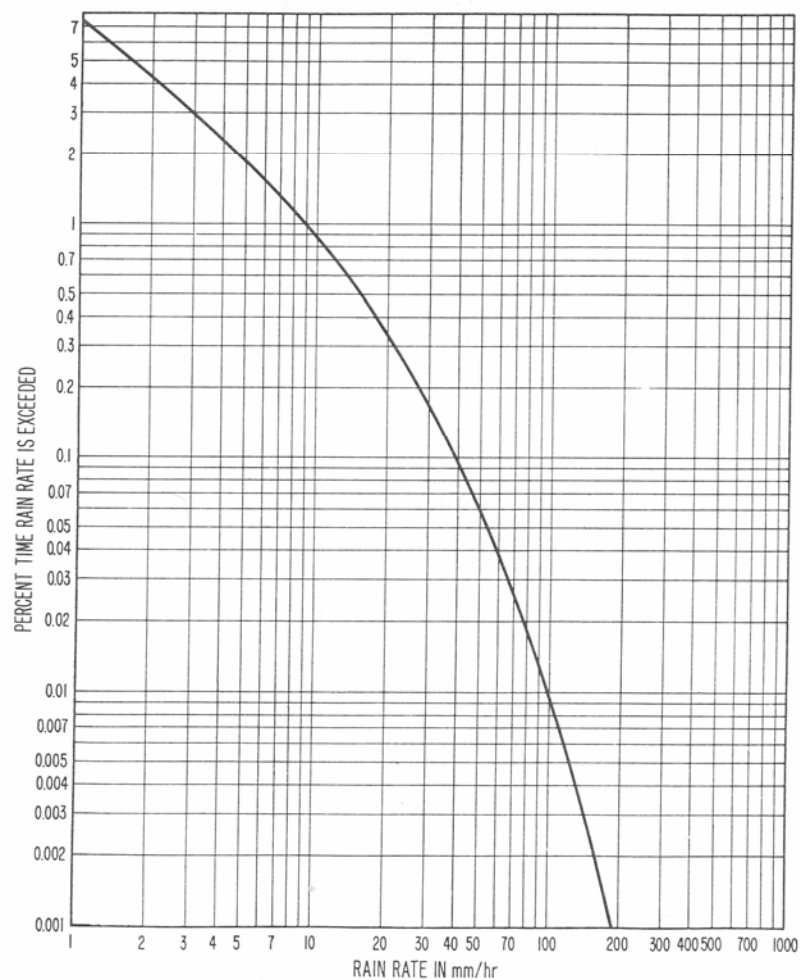
Temperature (°F): January 46/24; July 91/66

Mean Dewpoint (°F): January 19; July 49

Precipitation (inches): Annual 8.13; August 1.33; February, November 0.38
Test period 8.09

Days with 0.01 in or more 58; thunderstorms 43

Located in the Rio Grande valley; an arid continental climate.



Belem, Brazil

01° 20' S, 48° 27' W

10 m m.s.l.

Data: Rainfall rate, 5-min averages, data period not known

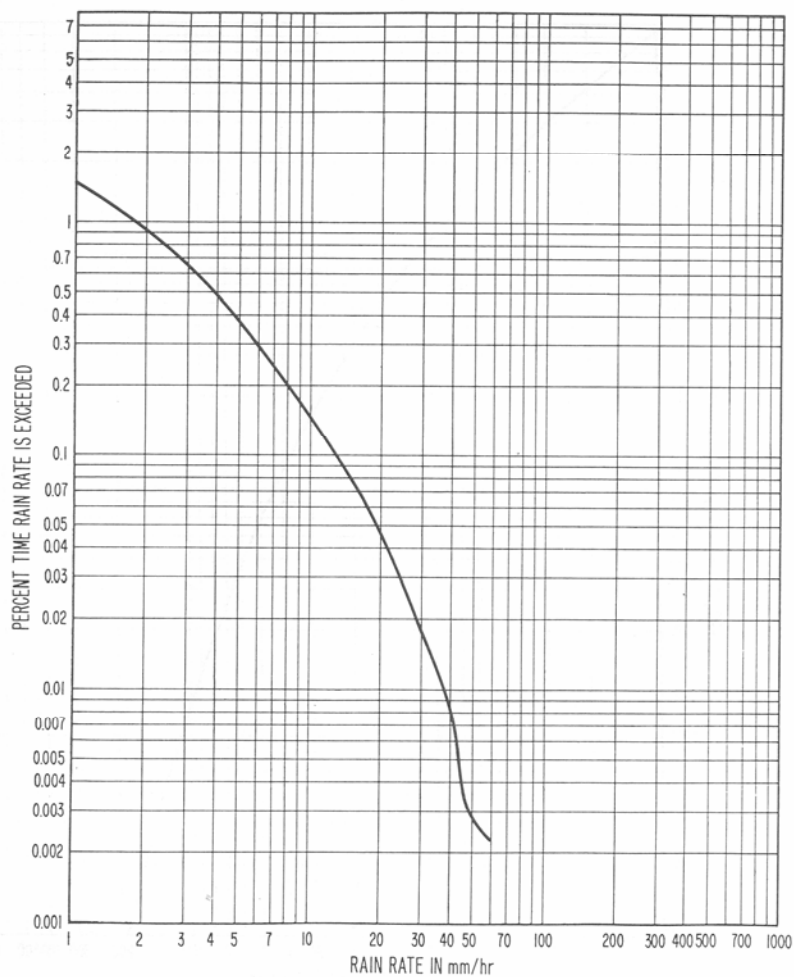
Source: Assis & Salles (1971)

Temperature (°F): January 87/72; July 88/71

Mean Dewpoint (°F): January 74; July 72

Precipitation (inches): Annual 96.0; February, March 14.10; November 2.60
Days with thunderstorms 80

Located on the Amazon delta 145 km from the Atlantic Ocean. A humid tropical climate with frequent rains.



Bet Dagan, Israel

32° 06' N, 34° 46' E

10 m m.s.l.

Data: Rainfall rate, 4-min averages, 1971

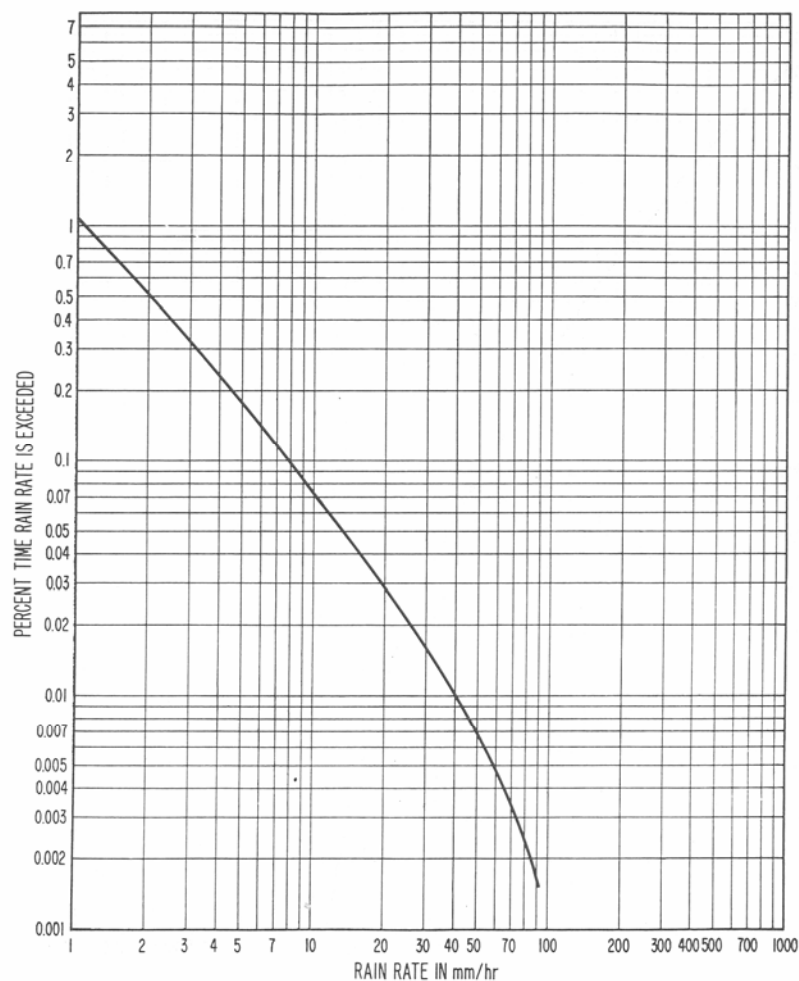
Source: Sims & Jones (1973)

Temperature (°F): January 64/50; July 72/64

Mean Dewpoint (°F): January 47; July 71

Precipitation (inches): Annual 31.3; December 12.92; June, July 0.00
 Test period 26.7
 Days with thunderstorms 20

Located near the Mediterranean Sea; a mild mediterranean-type climate.



Bismarck, North Dakota

46° 46' N, 100° 45' W

502 m m.s.l.

Data: Rainfall rate, 4-min averages, 1966

Source: Sims & Jones (1973)

Temperature (°F): January 20/0; July 86/58

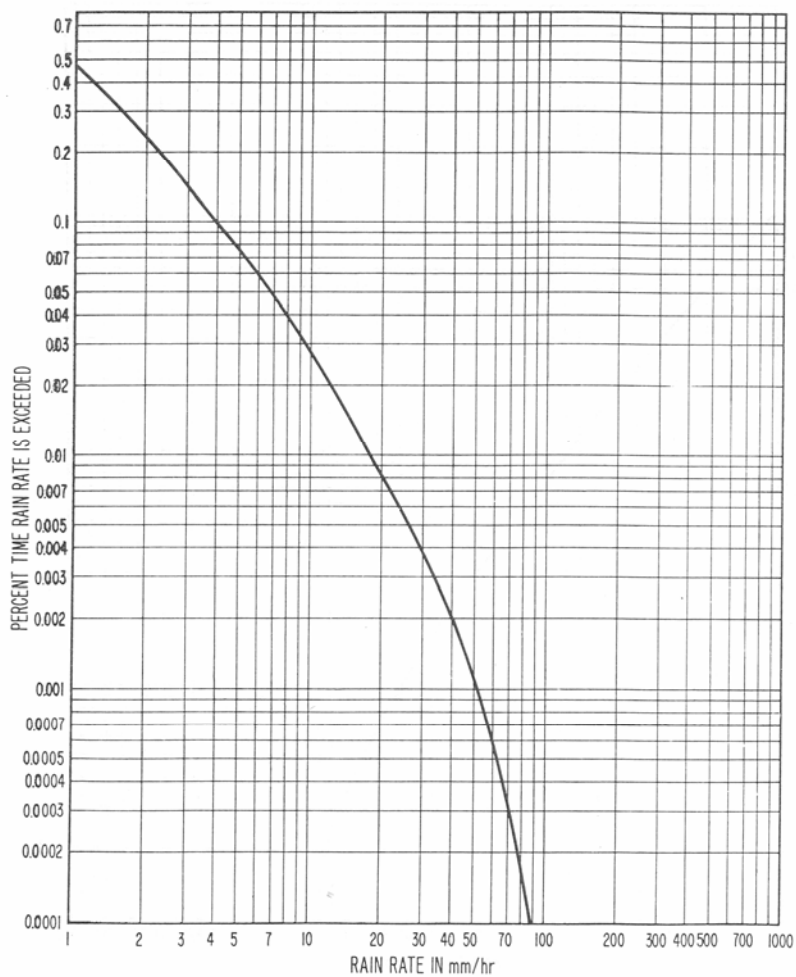
Mean Dewpoint (°F): January 1; July 55

Precipitation (inches): Annual 15.2; June 3.40; December 0.36

Test period 16.7

Days with 0.01 in or more 96; thunderstorms 34

Located on Missouri River in a shallow basin surrounded by low-lying hills. A semi-arid continental climate with cold winters and warm summers.



Blindern (Oslo), Norway

59° 54' N, 10° 37' E

17 m m.s.l.

Data: Rainfall rate, averaging time not known, 28-yr record

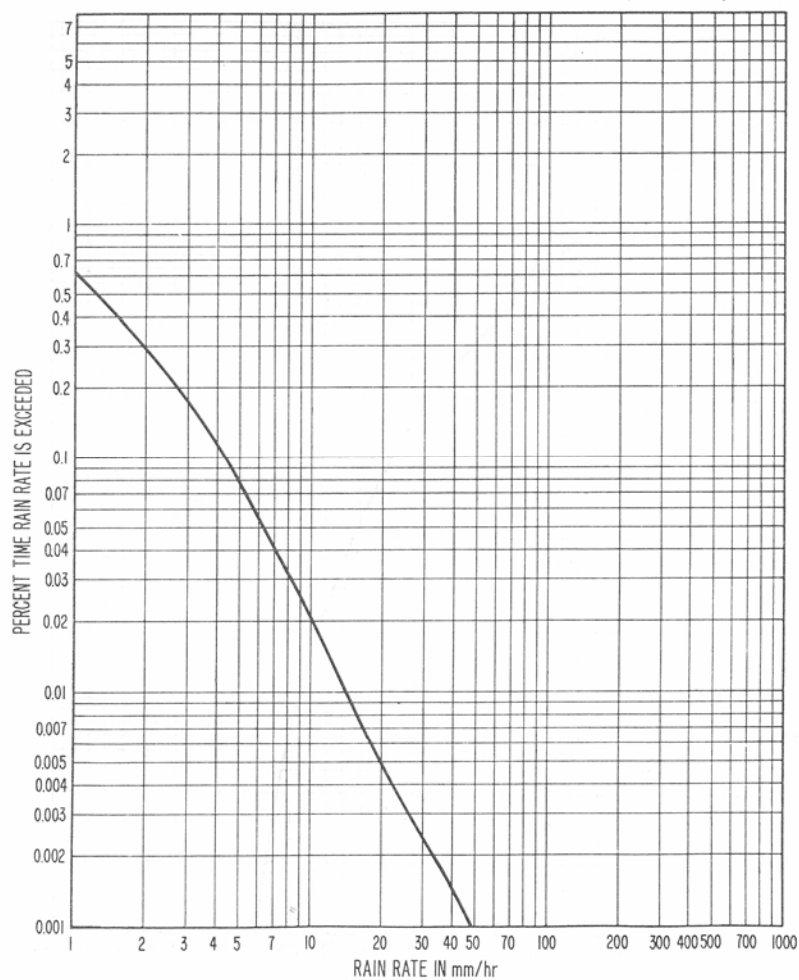
Source: Gutteberg & Kjelaas (1973)

Temperature (°F): January 30/20; July 73/56

Mean Dewpoint (°F): January 17; July 53

Precipitation (inches): Annual 26.9; August 3.80; February 1.30
Days with thunderstorms 16

Located at the head of Oslo Fjord. A cool maritime climate.



Central Russia (Assumed to be Moscow)

55° 49' N, 37° 37' E

156 m m.s.l.

Data: Rainfall rate, averaging time and period of record not known

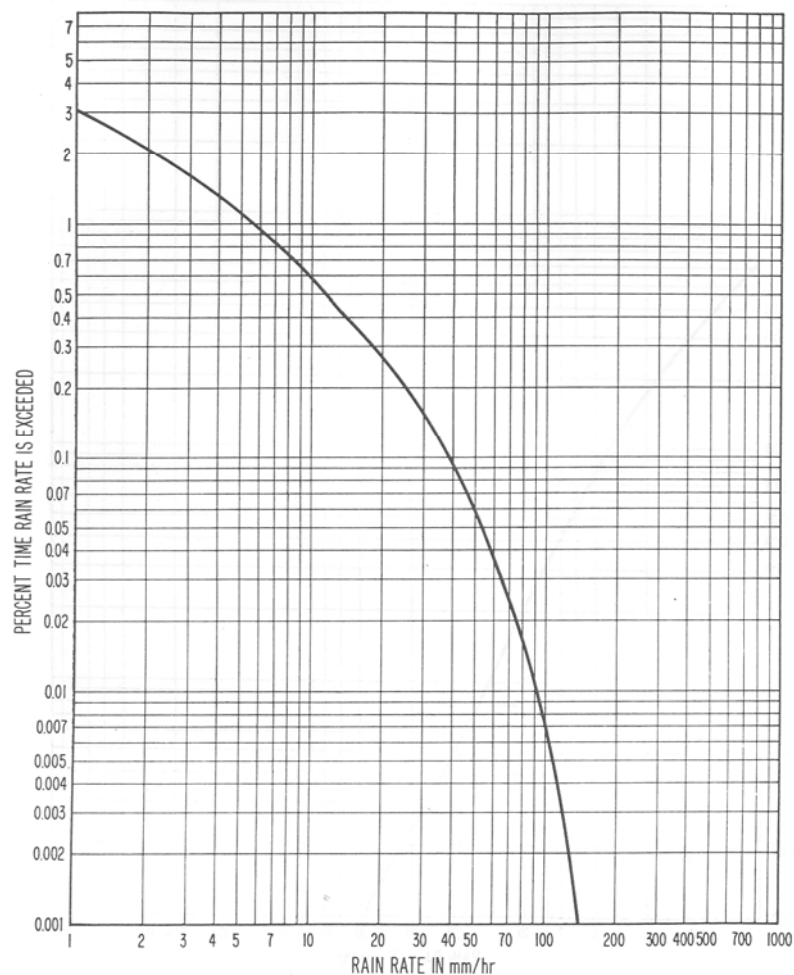
Source: Kolosov et al. (1973)

Temperature (°F): January 21/9; July 76/55

Mean Dewpoint: Not available

Precipitation (inches): Annual 24.8; July 3.0; March 1.1
Days with thunderstorms 22

Located on a hilly plain; a continental temperate climate.



Danang, Viet Nam

16° 02' N, 108° 12' E

10 m m.s.l.

Data: Rainfall rate, 4-min averages, 1963

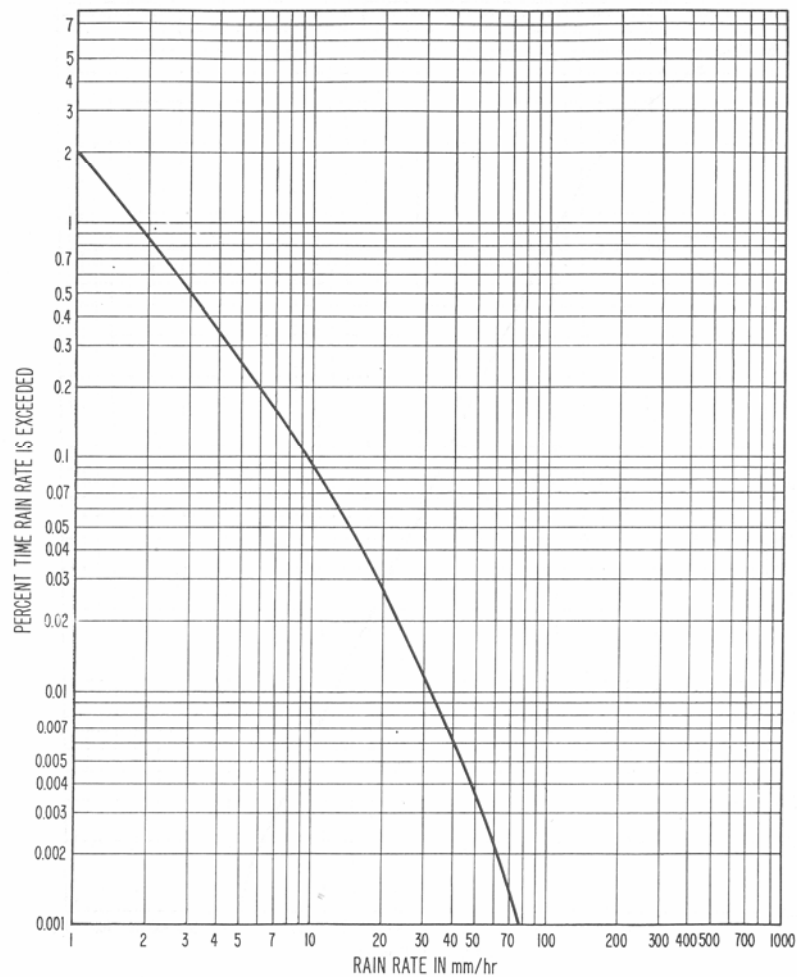
Source: Jones & Sims (1971)

Temperature (°F): January 77/66; July 94/77

Mean Dewpoint (°F): January 66; July 76

Precipitation (inches): Annual 86.8; October 20.47; March 0.82
Days with 0.01 in or more 141; thunderstorms 53

Located on the South China Sea; a tropical monsoon climate.



Darmstadt, Germany

49° 51' N, 08° 41' N

281 m m.s.l.

Data: Rainfall rate, 5-min averages, Sept. 70 - Sept. 71

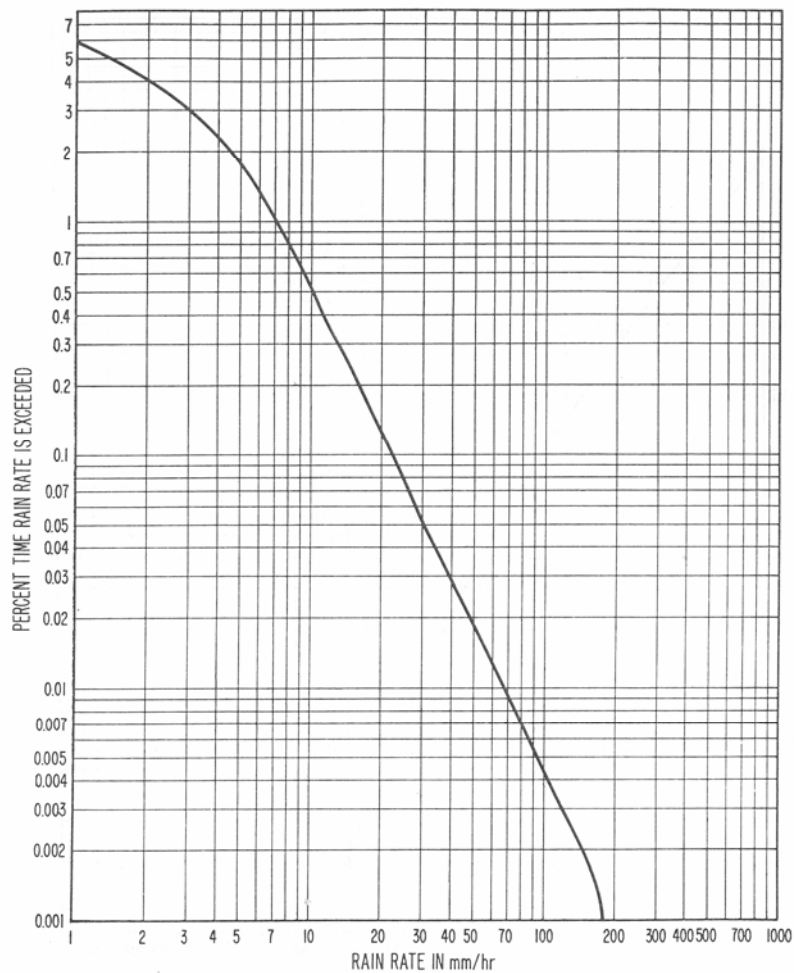
Source: Abel (1973)

Temperature (°F): January 38/29; July 75/56

Mean Dewpoint (°F): January 29; July 54

Precipitation (inches): Annual 25.0; July 2.80; February 1.58
Days with thunderstorms 28

Located in the Rhine valley. A continental climate modified by exposure to maritime air masses from the Atlantic Ocean.



Franklin, North Carolina

35° 02' N, 83° 28' W

1359 m m.s.l.

Data: Rainfall rate, 1-min averages, Dec. 60 - April 62

Source: Jones & Sims (1971)

Temperature (°F): January 54/33; July 86/62

Precipitation (inches): Annual 92.9
Test period 99.8

Located on the eastern slope of the Appalachian Mountains in a saddle called Mooney Gap. A temperate mountain climate with considerable cloudiness.