

Table 409. Joint Percentage Frequency Distribution of 5-foot Dewpoint Temperature ($^{\circ}\text{F}$) and Station Pressure in Inches of Mercury. January 1950-December 1964

| STATION PRESSURE | DEWPOINT TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | TOTAL | CUMUL TOTAL | |
|------------------|---|--------|------|-------|-------|-------|-------|-------|-------|-------|-----------|--------|-------------|---------|
| | ≤ -11 | -10--1 | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | ≥ 80 | | | MISSING |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.07 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.05 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.22 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.15 | 0.11 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.38 | 0.59 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.03 | 0.11 | 0.32 | 0.15 | 0.13 | 0.01 | 0.00 | 0.0 | 0.00 | 0.75 | 1.35 |
| 28.70-28.79 | 0.00 | 0.00 | 0.01 | 0.06 | 0.30 | 0.52 | 0.28 | 0.23 | 0.08 | 0.00 | 0.00 | 0.01 | 1.50 | 2.85 |
| 28.80-28.89 | 0.00 | 0.01 | 0.03 | 0.10 | 0.71 | 0.90 | 0.43 | 0.48 | 0.40 | 0.03 | 0.00 | 0.02 | 3.11 | 5.95 |
| 28.90-28.99 | 0.00 | 0.01 | 0.05 | 0.43 | 1.45 | 1.46 | 0.83 | 1.03 | 1.03 | 0.18 | 0.00 | 0.05 | 6.52 | 12.47 |
| 29.00-29.09 | 0.00 | 0.07 | 0.17 | 0.69 | 2.19 | 2.25 | 1.55 | 2.08 | 2.61 | 0.54 | 0.00 | 0.09 | 12.23 | 24.70 |
| 29.10-29.19 | 0.01 | 0.12 | 0.36 | 1.06 | 3.01 | 2.88 | 2.64 | 3.89 | 4.52 | 0.75 | 0.00 | 0.18 | 19.45 | 44.15 |
| 29.20-29.29 | 0.03 | 0.24 | 0.56 | 1.73 | 3.56 | 3.06 | 3.28 | 4.64 | 4.09 | 0.64 | 0.00 | 0.18 | 21.99 | 66.14 |
| 29.30-29.39 | 0.06 | 0.33 | 0.70 | 1.75 | 3.26 | 2.73 | 2.75 | 3.28 | 1.61 | 0.24 | 0.00 | 0.13 | 16.84 | 82.98 |
| 29.40-29.49 | 0.11 | 0.44 | 0.71 | 1.48 | 2.15 | 1.51 | 1.30 | 0.89 | 0.27 | 0.01 | 0.00 | 0.14 | 9.00 | 91.98 |
| 29.50-29.59 | 0.10 | 0.34 | 0.58 | 1.04 | 1.05 | 0.66 | 0.46 | 0.10 | 0.01 | 0.00 | 0.00 | 0.17 | 4.52 | 96.50 |
| 29.60-29.69 | 0.12 | 0.33 | 0.51 | 0.48 | 0.41 | 0.19 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.03 | 2.11 | 98.61 |
| 29.70-29.79 | 0.06 | 0.15 | 0.17 | 0.18 | 0.12 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 99.33 |
| 29.80-29.89 | 0.04 | 0.09 | 0.05 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.26 | 99.58 |
| 29.90-29.99 | 0.01 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 99.64 |
| >29.99 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.65 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.16 | 0.10 | 0.00 | 0.00 | 0.02 | 0.35 | 100.00 |
| TOTAL CUMUL | 0.55 | 2.15 | 3.92 | 9.13 | 18.43 | 16.73 | 13.94 | 17.00 | 14.72 | 2.39 | 0.00 | 1.03 | 100.00 | |
| TOTAL | 0.55 | 2.70 | 6.62 | 15.75 | 34.18 | 50.91 | 64.86 | 81.85 | 96.58 | 98.97 | 98.97 | 100.00 | | |

TOTAL OBSERVATIONS = 131496

Table 410. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury

| JANUARY 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | TOTAL | CUMUL TOTAL |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.17 | 0.17 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.14 | 0.52 | 0.04 | 0.79 | 1.15 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.17 | 0.46 | 1.17 | 0.03 | 1.92 | 3.06 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.40 | 0.46 | 1.04 | 2.24 | 0.00 | 4.17 | 7.23 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.13 | 0.47 | 0.86 | 1.58 | 3.51 | 0.00 | 6.59 | 13.83 |
| 29.00-29.09 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.46 | 1.08 | 1.63 | 2.28 | 4.94 | 0.07 | 10.49 | 24.32 |
| 29.10-29.19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.18 | 0.74 | 1.64 | 2.99 | 3.11 | 5.48 | 0.06 | 14.22 | 38.54 |
| 29.20-29.29 | 0.00 | 0.00 | 0.00 | 0.04 | 0.24 | 0.62 | 2.05 | 3.32 | 3.79 | 5.08 | 0.02 | 15.16 | 53.70 |
| 29.30-29.39 | 0.00 | 0.00 | 0.00 | 0.07 | 0.29 | 0.99 | 2.69 | 3.53 | 3.92 | 4.45 | 0.03 | 15.96 | 69.66 |
| 29.40-29.49 | 0.00 | 0.00 | 0.00 | 0.03 | 0.25 | 1.26 | 2.47 | 2.96 | 3.58 | 3.01 | 0.04 | 13.60 | 83.26 |
| 29.50-29.59 | 0.00 | 0.00 | 0.03 | 0.10 | 0.25 | 0.79 | 1.37 | 2.15 | 1.92 | 1.22 | 0.01 | 7.83 | 91.09 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.04 | 0.25 | 0.78 | 1.28 | 1.49 | 0.93 | 0.48 | 0.00 | 5.25 | 96.34 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.01 | 0.16 | 0.32 | 0.61 | 0.47 | 0.34 | 0.17 | 0.00 | 2.08 | 98.42 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.03 | 0.11 | 0.20 | 0.34 | 0.32 | 0.30 | 0.05 | 0.00 | 1.34 | 99.77 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.12 | 0.03 | 0.03 | 0.03 | 0.00 | 0.00 | 0.23 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.03 | 0.35 | 1.83 | 6.47 | 14.49 | 20.44 | 23.47 | 32.63 | 0.30 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 11160

| FEBRUARY 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|--------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | TOTAL | CUMUL TOTAL |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.10 | 0.10 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.38 | 0.00 | 0.39 | 0.50 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | 0.22 | 0.28 | 0.28 | 0.00 | 0.88 | 1.11 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.23 | 0.50 | 0.50 | 1.08 | 0.00 | 2.44 | 4.43 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.16 | 0.30 | 0.77 | 1.43 | 1.80 | 0.00 | 4.50 | 8.93 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.29 | 1.02 | 1.24 | 2.08 | 3.07 | 0.04 | 7.94 | 16.87 |
| 29.00-29.09 | 0.00 | 0.00 | 0.00 | 0.02 | 0.31 | 0.36 | 1.12 | 2.23 | 2.41 | 5.02 | 0.03 | 11.51 | 28.38 |
| 29.10-29.19 | 0.00 | 0.00 | 0.00 | 0.04 | 0.36 | 0.89 | 1.78 | 3.04 | 3.67 | 5.07 | 0.00 | 14.85 | 43.23 |
| 29.20-29.29 | 0.00 | 0.00 | 0.01 | 0.16 | 0.30 | 1.53 | 2.73 | 2.95 | 3.66 | 4.75 | 0.00 | 16.09 | 59.32 |
| 29.30-29.39 | 0.00 | 0.00 | 0.03 | 0.12 | 0.54 | 1.70 | 2.45 | 3.00 | 3.00 | 3.56 | 0.01 | 14.40 | 73.71 |
| 29.40-29.49 | 0.00 | 0.00 | 0.01 | 0.19 | 0.58 | 1.51 | 2.69 | 2.72 | 2.49 | 2.17 | 0.11 | 12.47 | 86.18 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.06 | 0.29 | 1.08 | 1.60 | 2.00 | 1.39 | 1.31 | 0.31 | 8.05 | 94.23 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.60 | 0.70 | 0.76 | 0.56 | 0.50 | 0.08 | 3.40 | 97.63 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.25 | 0.26 | 0.29 | 0.29 | 0.13 | 0.00 | 1.29 | 98.92 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.06 | 0.07 | 0.20 | 0.10 | 0.03 | 0.00 | 0.57 | 99.49 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 | 0.15 | 0.03 | 0.04 | 0.00 | 0.33 | 99.82 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.05 | 0.59 | 2.98 | 8.71 | 15.21 | 20.10 | 21.99 | 29.80 | 0.58 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 10176

| MARCH 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | TOTAL | CUMUL TOTAL |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.00 | 0.13 | 0.00 | 0.21 | 0.21 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.06 | 0.10 | 0.00 | 0.23 | 0.44 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.08 | 0.11 | 0.00 | 0.23 | 0.67 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.08 | 0.16 | 0.12 | 0.89 | 0.00 | 1.30 | 1.97 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.04 | 0.19 | 0.23 | 1.30 | 0.00 | 1.80 | 3.77 |
| 28.70-28.79 | 0.00 | 0.00 | 0.03 | 0.00 | 0.03 | 0.08 | 0.22 | 0.31 | 0.41 | 1.65 | 0.00 | 2.73 | 6.51 |
| 28.80-28.89 | 0.00 | 0.00 | 0.02 | 0.05 | 0.13 | 0.29 | 0.44 | 0.66 | 0.66 | 2.66 | 0.00 | 4.92 | 11.42 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.12 | 0.52 | 0.68 | 1.24 | 1.16 | 1.41 | 3.63 | 0.00 | 8.75 | 20.18 |
| 29.00-29.09 | 0.00 | 0.00 | 0.07 | 0.33 | 0.87 | 1.28 | 1.99 | 2.12 | 2.41 | 4.87 | 0.00 | 13.95 | 34.13 |
| 29.10-29.19 | 0.00 | 0.00 | 0.11 | 0.52 | 1.02 | 1.67 | 2.46 | 2.27 | 2.56 | 3.48 | 0.00 | 14.09 | 48.22 |
| 29.20-29.29 | 0.00 | 0.02 | 0.09 | 0.70 | 2.13 | 2.83 | 3.51 | 3.32 | 3.58 | 4.49 | 0.01 | 20.69 | 68.91 |
| 29.30-29.39 | 0.00 | 0.01 | 0.10 | 0.68 | 1.71 | 2.06 | 2.46 | 2.79 | 2.31 | 2.88 | 0.05 | 15.04 | 83.95 |
| 29.40-29.49 | 0.00 | 0.01 | 0.04 | 0.27 | 0.91 | 1.23 | 1.55 | 1.39 | 1.02 | 1.18 | 0.13 | 7.73 | 91.68 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.17 | 0.33 | 0.78 | 1.09 | 1.02 | 0.48 | 0.88 | 0.08 | 4.84 | 96.52 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.15 | 0.14 | 0.23 | 0.52 | 0.47 | 0.53 | 0.26 | 0.00 | 2.31 | 98.84 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.09 | 0.19 | 0.18 | 0.18 | 0.13 | 0.00 | 0.85 | 99.69 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 | 0.06 | 0.01 | 0.00 | 0.00 | 0.21 | 99.89 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.89 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.89 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.04 | 0.00 | 0.00 | 0.11 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.04 | 0.43 | 3.01 | 7.92 | 11.32 | 15.91 | 16.33 | 16.11 | 28.63 | 0.28 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 11160

Table 411. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury

| APRIL 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.04 | 0.06 | 0.05 | 0.20 | 0.70 | 0.00 | 0.41 |
| 28.60-28.69 | 0.00 | 0.00 | 0.03 | 0.01 | 0.06 | 0.11 | 0.31 | 0.16 | 0.37 | 0.77 | 0.00 | 0.00 | 1.13 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.04 | 0.21 | 0.30 | 0.35 | 0.69 | 0.65 | 1.41 | 0.03 | 0.00 | 1.81 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.09 | 0.38 | 0.60 | 0.74 | 0.97 | 1.07 | 1.41 | 0.03 | 0.00 | 3.67 |
| 28.90-28.99 | 0.00 | 0.00 | 0.16 | 0.56 | 0.92 | 1.02 | 1.53 | 1.38 | 1.81 | 2.56 | 0.11 | 0.00 | 6.54 |
| 29.00-29.09 | 0.00 | 0.00 | 0.12 | 0.98 | 1.30 | 1.93 | 2.12 | 1.92 | 2.50 | 2.96 | 0.03 | 0.00 | 13.36 |
| 29.10-29.19 | 0.00 | 0.00 | 0.44 | 1.36 | 2.69 | 2.91 | 2.51 | 2.26 | 2.31 | 3.12 | 0.06 | 0.00 | 14.04 |
| 29.20-29.29 | 0.00 | 0.11 | 0.62 | 1.64 | 2.10 | 2.31 | 2.94 | 2.30 | 1.85 | 2.95 | 0.23 | 0.00 | 17.94 |
| 29.30-29.39 | 0.00 | 0.04 | 0.57 | 1.93 | 1.96 | 2.07 | 2.14 | 2.06 | 1.24 | 2.95 | 0.29 | 0.00 | 17.06 |
| 29.40-29.49 | 0.00 | 0.00 | 0.24 | 0.77 | 1.02 | 1.42 | 1.16 | 0.96 | 0.73 | 1.80 | 0.29 | 0.00 | 14.09 |
| 29.50-29.59 | 0.00 | 0.00 | 0.11 | 0.28 | 0.47 | 0.60 | 0.65 | 0.49 | 0.40 | 0.83 | 0.44 | 0.00 | 7.57 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.09 | 0.26 | 0.20 | 0.23 | 0.28 | 0.11 | 0.23 | 0.26 | 0.00 | 3.70 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.00 | 1.42 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.15 | 2.30 | 7.76 | 11.48 | 13.53 | 14.76 | 13.54 | 13.40 | 21.36 | 1.73 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 10800

| MAY 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 | 0.04 | 0.02 | 0.13 | 0.12 | 0.13 | 0.00 | 0.00 | 0.05 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.27 | 0.15 | 0.15 | 0.32 | 0.00 | 0.00 | 0.47 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.42 | 0.42 | 0.57 | 0.48 | 0.82 | 0.09 | 0.00 | 1.47 |
| 28.90-28.99 | 0.00 | 0.00 | 0.02 | 0.28 | 0.54 | 0.76 | 1.61 | 1.22 | 1.52 | 2.61 | 0.39 | 0.00 | 2.93 |
| 29.00-29.09 | 0.00 | 0.00 | 0.10 | 1.08 | 1.54 | 1.85 | 2.32 | 1.91 | 2.13 | 3.77 | 0.47 | 0.00 | 4.40 |
| 29.10-29.19 | 0.00 | 0.00 | 0.25 | 1.58 | 2.81 | 3.05 | 3.85 | 3.58 | 3.16 | 5.54 | 0.72 | 0.00 | 8.75 |
| 29.20-29.29 | 0.00 | 0.00 | 0.55 | 2.38 | 3.26 | 3.92 | 3.43 | 2.92 | 2.55 | 3.30 | 0.43 | 0.00 | 15.17 |
| 29.30-29.39 | 0.00 | 0.00 | 0.34 | 1.34 | 2.25 | 2.29 | 2.25 | 1.96 | 1.77 | 1.83 | 0.45 | 0.00 | 24.54 |
| 29.40-29.49 | 0.00 | 0.00 | 0.13 | 0.81 | 1.34 | 1.48 | 0.91 | 1.00 | 0.61 | 0.47 | 0.36 | 0.00 | 22.75 |
| 29.50-29.59 | 0.00 | 0.00 | 0.02 | 0.36 | 0.38 | 0.58 | 0.40 | 0.37 | 0.13 | 0.08 | 0.15 | 0.00 | 14.49 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.08 | 0.10 | 0.04 | 0.05 | 0.02 | 0.00 | 0.00 | 7.11 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 97.20 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.68 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 1.42 | 7.89 | 12.27 | 14.51 | 15.39 | 13.85 | 12.70 | 18.90 | 3.06 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 11160

| JUNE 1950-1964 | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| STATION PRESSURE | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.00 | 0.03 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.10 | 0.11 | 0.08 | 0.09 | 0.33 | 0.00 | 0.00 | 0.16 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.07 | 0.13 | 0.16 | 0.26 | 0.30 | 0.31 | 1.16 | 0.00 | 0.00 | 0.79 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.10 | 0.50 | 0.82 | 1.08 | 1.03 | 1.48 | 2.40 | 0.00 | 0.00 | 0.94 |
| 29.00-29.09 | 0.00 | 0.00 | 0.06 | 0.38 | 1.45 | 2.21 | 2.45 | 2.95 | 3.91 | 4.32 | 0.00 | 0.00 | 3.32 |
| 29.10-29.19 | 0.00 | 0.00 | 0.13 | 1.09 | 2.75 | 3.54 | 4.10 | 4.37 | 4.90 | 5.53 | 0.16 | 0.00 | 7.42 |
| 29.20-29.29 | 0.00 | 0.00 | 0.06 | 1.17 | 3.55 | 3.50 | 3.51 | 3.73 | 3.79 | 3.58 | 0.11 | 0.00 | 17.75 |
| 29.30-29.39 | 0.00 | 0.00 | 0.02 | 1.04 | 2.73 | 2.35 | 2.35 | 2.56 | 1.97 | 1.37 | 0.09 | 0.00 | 26.56 |
| 29.40-29.49 | 0.00 | 0.00 | 0.02 | 0.38 | 0.53 | 0.55 | 0.56 | 0.39 | 0.34 | 0.35 | 0.00 | 0.00 | 22.99 |
| 29.50-29.59 | 0.00 | 0.00 | 0.04 | 0.23 | 0.10 | 0.14 | 0.14 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 14.49 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 92.54 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 95.66 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 96.44 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 96.44 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 96.44 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.45 | 0.87 | 0.75 | 0.42 | 0.46 | 0.19 | 0.00 | 96.44 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.32 | 4.48 | 12.23 | 13.83 | 15.44 | 16.24 | 17.25 | 19.64 | 0.56 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 10800

Table 412. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury

| JULY 1950-1964 | | | | | | | | | | | | | |
|--------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-------------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.00-29.09 | 0.00 | 0.00 | 0.00 | 0.03 | 0.26 | 0.36 | 0.23 | 0.22 | 0.14 | 0.13 | 0.00 | 0.00 | 0.31 |
| 29.10-29.19 | 0.00 | 0.00 | 0.01 | 0.17 | 0.73 | 1.38 | 1.63 | 1.52 | 1.89 | 3.70 | 0.08 | 0.00 | 2.47 |
| 29.20-29.29 | 0.00 | 0.00 | 0.06 | 0.72 | 2.24 | 3.92 | 4.11 | 4.54 | 5.97 | 8.10 | 0.42 | 0.00 | 11.11 |
| 29.30-29.39 | 0.00 | 0.00 | 0.14 | 0.98 | 3.27 | 4.52 | 4.73 | 4.93 | 5.48 | 7.72 | 0.47 | 0.00 | 13.90 |
| 29.40-29.49 | 0.00 | 0.00 | 0.03 | 0.99 | 3.27 | 3.25 | 2.80 | 2.78 | 3.16 | 3.39 | 0.10 | 0.00 | 30.08 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.23 | 1.12 | 0.53 | 0.39 | 0.29 | 0.41 | 0.51 | 0.00 | 0.00 | 43.98 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 76.22 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.47 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.51 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.51 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.51 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.51 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.24 | 3.12 | 10.90 | 14.01 | 13.99 | 14.35 | 17.59 | 24.72 | 1.08 | 0.49 | 100.00 |
| TOTAL | 0.00 | 0.00 | 0.24 | 3.36 | 14.26 | 28.27 | 42.26 | 56.61 | 74.20 | 98.92 | 100.00 | | |
| NUMBER OF OBSERVATIONS = 11160 | | | | | | | | | | | | | |

| AUGUST 1950-1964 | | | | | | | | | | | | | |
|--------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-------------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤ 28.29 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.08 | 0.08 | 0.13 | 0.26 | 0.00 | 0.00 | 0.65 |
| 29.00-29.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.29 | 0.28 | 0.37 | 0.64 | 0.98 | 0.00 | 0.00 | 1.32 |
| 29.10-29.19 | 0.00 | 0.00 | 0.00 | 0.07 | 0.44 | 0.82 | 1.55 | 2.02 | 1.74 | 4.01 | 0.00 | 0.00 | 3.27 |
| 29.20-29.29 | 0.00 | 0.00 | 0.00 | 0.30 | 1.79 | 3.07 | 3.69 | 3.55 | 4.11 | 9.40 | 0.00 | 0.00 | 10.65 |
| 29.30-29.39 | 0.00 | 0.00 | 0.00 | 0.65 | 3.38 | 4.65 | 5.44 | 4.78 | 5.87 | 10.27 | 0.03 | 0.00 | 13.92 |
| 29.40-29.49 | 0.00 | 0.00 | 0.00 | 0.39 | 2.49 | 2.67 | 2.71 | 2.34 | 2.89 | 5.37 | 0.05 | 0.00 | 18.92 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.34 | 0.82 | 0.64 | 0.69 | 0.70 | 0.70 | 1.67 | 0.00 | 0.00 | 25.91 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.03 | 0.16 | 0.09 | 0.03 | 0.10 | 0.08 | 0.07 | 0.00 | 0.00 | 39.83 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 99.92 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.01 | 0.00 | 0.00 | 1.78 | 9.19 | 12.32 | 14.47 | 13.94 | 16.16 | 32.04 | 0.08 | 0.00 | 100.00 |
| TOTAL | 0.01 | 0.01 | 0.01 | 1.79 | 10.99 | 23.31 | 37.78 | 51.72 | 67.88 | 99.92 | 100.00 | | |
| NUMBER OF OBSERVATIONS = 11160 | | | | | | | | | | | | | |

| SEPTEMBER 1950-1964 | | | | | | | | | | | | | |
|--------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-------------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.01 | 0.05 | 0.04 | 0.07 | 0.00 | 0.00 | 0.20 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.06 | 0.10 | 0.11 | 0.06 | 0.14 | 0.18 | 0.28 | 0.00 | 0.00 | 0.93 |
| 29.00-29.09 | 0.00 | 0.00 | 0.03 | 0.34 | 0.35 | 0.43 | 0.45 | 0.55 | 0.81 | 1.19 | 0.06 | 0.00 | 1.13 |
| 29.10-29.19 | 0.00 | 0.00 | 0.00 | 0.36 | 1.23 | 1.20 | 1.10 | 1.03 | 1.51 | 3.37 | 0.30 | 0.00 | 5.33 |
| 29.20-29.29 | 0.00 | 0.00 | 0.02 | 1.04 | 2.10 | 2.43 | 2.32 | 3.04 | 2.74 | 4.13 | 0.44 | 0.00 | 10.10 |
| 29.30-29.39 | 0.00 | 0.00 | 0.21 | 1.46 | 3.22 | 3.42 | 3.48 | 4.49 | 5.35 | 6.91 | 0.51 | 0.00 | 15.44 |
| 29.40-29.49 | 0.00 | 0.00 | 0.03 | 1.14 | 2.59 | 3.00 | 2.71 | 3.53 | 3.38 | 5.19 | 0.15 | 0.00 | 18.26 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.44 | 1.41 | 1.57 | 1.09 | 1.41 | 1.97 | 1.69 | 0.15 | 0.00 | 33.69 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.28 | 0.70 | 0.67 | 0.81 | 0.70 | 0.88 | 0.65 | 0.17 | 0.00 | 62.75 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.14 | 0.19 | 0.12 | 0.11 | 0.08 | 0.08 | 0.20 | 0.00 | 0.00 | 84.46 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 94.20 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.06 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.29 | 5.29 | 11.91 | 12.95 | 12.17 | 15.01 | 16.94 | 23.69 | 1.77 | 0.00 | 100.00 |
| TOTAL | 0.00 | 0.00 | 0.29 | 5.57 | 17.48 | 30.44 | 42.60 | 57.61 | 74.55 | 98.23 | 100.00 | | |
| NUMBER OF OBSERVATIONS = 10800 | | | | | | | | | | | | | |

Table 413. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury

| OCTOBER 1950-1964 | | | | | | | | | | | | | |
|-------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.00 | 0.05 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.25 | 0.00 | 0.26 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.09 | 0.20 | 0.00 | 0.00 | 0.31 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.08 | 0.26 | 0.00 | 0.39 | 1.28 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.08 | 0.40 | 0.13 | 0.39 | 0.97 | 0.00 | 2.07 | 3.35 |
| 28.90-28.99 | 0.00 | 0.00 | 0.04 | 0.16 | 0.25 | 0.47 | 0.76 | 0.68 | 0.79 | 1.58 | 0.00 | 4.73 | 8.08 |
| 29.00-29.09 | 0.00 | 0.00 | 0.21 | 0.70 | 0.99 | 1.31 | 1.16 | 1.26 | 1.69 | 3.32 | 0.00 | 10.65 | 18.73 |
| 29.10-29.19 | 0.00 | 0.04 | 0.28 | 0.95 | 1.59 | 2.11 | 2.19 | 1.99 | 2.36 | 4.40 | 0.03 | 15.92 | 34.65 |
| 29.20-29.29 | 0.00 | 0.00 | 0.39 | 1.42 | 2.65 | 2.60 | 2.85 | 2.49 | 2.56 | 4.74 | 0.04 | 19.74 | 54.39 |
| 29.30-29.39 | 0.00 | 0.02 | 0.47 | 1.72 | 3.14 | 3.29 | 3.02 | 2.92 | 3.13 | 4.45 | 0.04 | 22.20 | 76.59 |
| 29.40-29.49 | 0.00 | 0.00 | 0.15 | 1.13 | 1.87 | 2.07 | 2.09 | 2.20 | 2.49 | 2.57 | 0.05 | 14.63 | 91.22 |
| 29.50-29.59 | 0.00 | 0.00 | 0.12 | 0.56 | 1.14 | 0.94 | 0.88 | 0.73 | 1.01 | 1.15 | 0.20 | 6.73 | 97.95 |
| 29.60-29.69 | 0.00 | 0.00 | 0.08 | 0.13 | 0.24 | 0.26 | 0.15 | 0.13 | 0.22 | 0.20 | 0.00 | 1.42 | 99.36 |
| 29.70-29.79 | 0.00 | 0.00 | 0.03 | 0.03 | 0.09 | 0.06 | 0.04 | 0.11 | 0.02 | 0.12 | 0.00 | 0.49 | 99.86 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 99.95 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.95 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.95 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.95 |
| TOTAL CUMUL TOTAL | 0.00 | 0.05 | 1.77 | 6.82 | 12.10 | 13.24 | 13.60 | 12.73 | 14.94 | 24.40 | 0.35 | 100.00 | |
| TOTAL TOTAL | 0.00 | 0.05 | 1.82 | 8.64 | 20.73 | 33.98 | 47.58 | 60.31 | 75.25 | 99.65 | 100.00 | | |

NUMBER OF OBSERVATIONS = 11160

| NOVEMBER 1950-1964 | | | | | | | | | | | | | |
|--------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.15 | 0.14 | 0.37 | 0.26 | 0.91 | 0.00 | 1.87 | 2.61 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.18 | 0.33 | 0.56 | 0.55 | 1.34 | 0.00 | 3.09 | 5.70 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.07 | 0.15 | 0.32 | 0.35 | 0.89 | 0.79 | 1.08 | 0.00 | 3.66 | 9.36 |
| 28.90-28.99 | 0.00 | 0.00 | 0.03 | 0.17 | 0.36 | 0.57 | 1.15 | 1.19 | 1.13 | 1.83 | 0.00 | 6.44 | 15.80 |
| 29.00-29.09 | 0.00 | 0.00 | 0.02 | 0.08 | 0.44 | 0.81 | 1.87 | 2.02 | 1.65 | 3.52 | 0.00 | 10.42 | 26.21 |
| 29.10-29.19 | 0.00 | 0.00 | 0.06 | 0.47 | 1.18 | 1.75 | 2.40 | 2.81 | 2.96 | 4.28 | 0.00 | 15.91 | 42.12 |
| 29.20-29.29 | 0.00 | 0.00 | 0.04 | 0.30 | 1.53 | 2.76 | 2.56 | 3.57 | 2.94 | 3.68 | 0.02 | 17.10 | 59.22 |
| 29.30-29.39 | 0.00 | 0.01 | 0.09 | 0.29 | 1.30 | 2.19 | 2.56 | 3.08 | 2.70 | 3.69 | 0.03 | 15.94 | 75.16 |
| 29.40-29.49 | 0.00 | 0.00 | 0.09 | 0.27 | 0.89 | 1.87 | 2.54 | 2.38 | 2.23 | 2.38 | 0.00 | 12.65 | 87.81 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.17 | 0.71 | 1.03 | 1.28 | 1.41 | 1.07 | 0.85 | 0.00 | 6.52 | 94.32 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.30 | 0.36 | 0.69 | 1.03 | 0.83 | 0.43 | 0.52 | 0.00 | 4.15 | 98.47 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.06 | 0.08 | 0.34 | 0.24 | 0.23 | 0.25 | 0.18 | 0.00 | 1.39 | 99.86 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.01 | 0.32 | 2.24 | 7.12 | 12.43 | 16.61 | 19.49 | 17.15 | 24.58 | 0.05 | 100.00 | |
| TOTAL TOTAL | 0.00 | 0.01 | 0.33 | 2.57 | 9.69 | 22.12 | 38.73 | 58.22 | 75.37 | 99.95 | 100.00 | | |

NUMBER OF OBSERVATIONS = 10800

| DECEMBER 1950-1964 | | | | | | | | | | | | | |
|--------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.00 | 0.17 | 0.17 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.07 | 0.33 | 0.00 | 0.45 | 0.62 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.16 | 0.74 | 0.00 | 1.04 | 1.66 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.11 | 0.13 | 0.15 | 0.19 | 1.34 | 0.00 | 1.97 | 3.63 |
| 28.90-28.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.27 | 0.32 | 0.51 | 0.80 | 2.46 | 0.00 | 4.38 | 8.01 |
| 29.00-29.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.47 | 1.05 | 1.60 | 2.03 | 2.90 | 0.00 | 8.12 | 16.13 |
| 29.10-29.19 | 0.00 | 0.00 | 0.00 | 0.02 | 0.15 | 0.79 | 1.25 | 2.26 | 2.60 | 3.92 | 0.00 | 10.98 | 27.11 |
| 29.20-29.29 | 0.00 | 0.00 | 0.00 | 0.02 | 0.21 | 0.95 | 1.85 | 2.77 | 3.49 | 5.41 | 0.02 | 14.72 | 41.83 |
| 29.30-29.39 | 0.00 | 0.00 | 0.00 | 0.06 | 0.29 | 1.10 | 1.95 | 3.28 | 3.86 | 4.64 | 0.20 | 15.39 | 57.21 |
| 29.40-29.49 | 0.00 | 0.00 | 0.01 | 0.14 | 0.47 | 0.98 | 2.01 | 3.29 | 3.47 | 4.26 | 0.19 | 14.81 | 72.03 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.13 | 0.29 | 0.73 | 1.36 | 2.10 | 2.78 | 2.97 | 0.25 | 10.59 | 82.62 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.10 | 0.21 | 0.47 | 0.93 | 2.03 | 2.32 | 1.96 | 0.13 | 8.15 | 90.76 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.04 | 0.26 | 0.29 | 0.99 | 1.63 | 1.58 | 1.25 | 0.00 | 6.05 | 96.81 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.03 | 0.12 | 0.26 | 0.52 | 0.59 | 0.54 | 0.30 | 0.00 | 2.36 | 99.17 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.13 | 0.22 | 0.21 | 0.08 | 0.00 | 0.73 | 99.90 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.02 | 0.01 | 0.00 | 0.00 | 0.10 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.01 | 0.54 | 2.13 | 6.51 | 12.61 | 20.56 | 24.10 | 32.74 | 0.79 | 100.00 | |
| TOTAL TOTAL | 0.00 | 0.00 | 0.01 | 0.55 | 2.68 | 9.19 | 21.80 | 42.37 | 66.47 | 99.21 | 100.00 | | |

NUMBER OF OBSERVATIONS = 11160

Table 414. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Station Pressure in Inches of Mercury. January 1950-December 1964

| STATION PRESSURE | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
|------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|--------|-------------|--------|
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.03 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.05 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.07 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.22 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.05 | 0.10 | 0.14 | 0.06 | 0.23 | 0.00 | 0.59 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.08 | 0.14 | 0.22 | 0.26 | 0.07 | 0.00 | 0.75 | 1.35 |
| 28.80-28.89 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.21 | 0.32 | 0.45 | 0.61 | 1.37 | 0.02 | 1.50 | 2.85 |
| 28.90-28.99 | 0.00 | 0.00 | 0.02 | 0.15 | 0.34 | 0.52 | 0.89 | 0.96 | 1.30 | 2.30 | 0.04 | 3.11 | 5.95 |
| 29.00-29.09 | 0.00 | 0.00 | 0.05 | 0.35 | 0.79 | 1.20 | 1.64 | 1.90 | 2.22 | 3.99 | 0.08 | 6.52 | 12.47 |
| 29.10-29.19 | 0.00 | 0.00 | 0.11 | 0.68 | 1.58 | 2.26 | 2.75 | 3.10 | 3.45 | 5.35 | 0.18 | 12.23 | 24.70 |
| 29.20-29.29 | 0.00 | 0.01 | 0.18 | 0.92 | 2.17 | 2.80 | 3.27 | 3.51 | 3.78 | 5.19 | 0.17 | 19.45 | 44.15 |
| 29.30-29.39 | 0.00 | 0.01 | 0.14 | 0.82 | 1.90 | 2.24 | 2.51 | 2.82 | 2.75 | 3.52 | 0.12 | 21.99 | 66.14 |
| 29.40-29.49 | 0.00 | 0.00 | 0.06 | 0.42 | 0.92 | 1.23 | 1.45 | 1.54 | 1.61 | 1.65 | 0.13 | 16.84 | 82.98 |
| 29.50-29.59 | 0.00 | 0.00 | 0.03 | 0.19 | 0.40 | 0.59 | 0.76 | 0.92 | 0.81 | 0.72 | 0.11 | 9.00 | 91.98 |
| 29.60-29.69 | 0.00 | 0.00 | 0.01 | 0.08 | 0.16 | 0.27 | 0.43 | 0.48 | 0.38 | 0.31 | 0.01 | 4.52 | 96.50 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.11 | 0.16 | 0.16 | 0.14 | 0.09 | 0.00 | 2.11 | 98.61 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.07 | 0.05 | 0.02 | 0.00 | 0.72 | 99.33 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.26 | 99.58 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 99.64 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.08 | 0.07 | 0.05 | 0.05 | 0.02 | 0.01 | 99.65 |
| TOTAL | 0.00 | 0.02 | 0.60 | 3.66 | 8.52 | 11.66 | 14.55 | 16.36 | 17.63 | 26.11 | 0.89 | 100.00 | 100.00 |
| CUMUL TOTAL | 0.00 | 0.02 | 0.62 | 4.29 | 12.81 | 24.47 | 39.02 | 55.37 | 73.01 | 99.11 | 100.00 | | |

NUMBER OF OBSERVATIONS = 131496

Table 415. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury

| | | JANUARY 1950-1964 | | | | | | | | | | | |
|-------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤ 28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.08 | 1.13 | 0.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.23 | 0.60 | 0.15 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.36 | 1.36 |
| 28.60-28.69 | 0.98 | 2.56 | 0.15 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.05 | 2.41 |
| 28.70-28.79 | 1.81 | 2.96 | 0.45 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.42 | 11.60 |
| 28.80-28.89 | 4.22 | 3.01 | 0.68 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.43 | 20.03 |
| 28.90-28.99 | 4.82 | 6.33 | 1.36 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.70 | 33.73 |
| 29.00-29.09 | 9.49 | 7.53 | 0.98 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.52 | 52.26 |
| 29.10-29.19 | 8.66 | 5.57 | 0.83 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.81 | 68.07 |
| 29.20-29.29 | 8.58 | 4.29 | 0.38 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.33 | 81.40 |
| 29.30-29.39 | 5.35 | 3.31 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.73 | 90.14 |
| 29.40-29.49 | 2.33 | 2.18 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.59 | 94.73 |
| 29.50-29.59 | 1.51 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.73 | 96.46 |
| 29.60-29.69 | 3.39 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.46 | 99.92 |
| 29.70-29.79 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 100.00 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 51.51 | 39.76 | 5.20 | 3.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 51.51 | 91.27 | 96.46 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 1328

| | | FEBRUARY 1950-1964 | | | | | | | | | | | |
|-------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤ 28.29 | 0.27 | 0.27 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 0.80 |
| 28.30-28.39 | 0.27 | 0.36 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.80 | 1.61 |
| 28.40-28.49 | 0.36 | 1.43 | 0.27 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.14 | 3.75 |
| 28.50-28.59 | 0.63 | 1.07 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.79 | 5.54 |
| 28.60-28.69 | 1.34 | 0.71 | 0.27 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 8.04 |
| 28.70-28.79 | 2.68 | 3.48 | 0.45 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.05 | 15.09 |
| 28.80-28.89 | 3.75 | 5.54 | 1.34 | 0.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.43 | 26.52 |
| 28.90-28.99 | 6.52 | 5.98 | 0.71 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.48 | 40.00 |
| 29.00-29.09 | 9.64 | 9.20 | 1.25 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.71 | 60.71 |
| 29.10-29.19 | 5.80 | 7.23 | 1.16 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.82 | 75.54 |
| 29.20-29.29 | 5.18 | 6.25 | 0.63 | 0.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.59 | 88.13 |
| 29.30-29.39 | 2.05 | 3.30 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.45 | 93.57 |
| 29.40-29.49 | 1.52 | 1.52 | 0.27 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.39 | 96.96 |
| 29.50-29.59 | 0.54 | 0.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.98 | 97.95 |
| 29.60-29.69 | 0.54 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 98.57 |
| 29.70-29.79 | 0.45 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 99.29 |
| 29.80-29.89 | 0.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL TOTAL | 42.23 | 47.14 | 6.70 | 3.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 42.23 | 89.38 | 96.07 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 1120

| | | MARCH 1950-1964 | | | | | | | | | | | |
|-------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤ 28.29 | 0.20 | 0.34 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.68 | 0.68 |
| 28.30-28.39 | 0.27 | 0.41 | 0.20 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.95 | 1.62 |
| 28.40-28.49 | 0.14 | 0.34 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.61 | 2.23 |
| 28.50-28.59 | 1.96 | 2.16 | 0.68 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.07 | 7.30 |
| 28.60-28.69 | 1.69 | 3.65 | 0.88 | 0.74 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.03 | 14.32 |
| 28.70-28.79 | 3.51 | 3.58 | 0.74 | 0.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.58 | 22.91 |
| 28.80-28.89 | 4.66 | 5.34 | 0.95 | 0.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.62 | 34.53 |
| 28.90-28.99 | 5.95 | 5.14 | 1.42 | 0.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.45 | 47.97 |
| 29.00-29.09 | 7.36 | 6.82 | 1.87 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.16 | 65.14 |
| 29.10-29.19 | 8.24 | 4.53 | 1.08 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.46 | 79.59 |
| 29.20-29.29 | 6.96 | 3.65 | 0.41 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.42 | 91.01 |
| 29.30-29.39 | 2.70 | 1.55 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.46 | 95.47 |
| 29.40-29.49 | 1.08 | 0.61 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 | 97.23 |
| 29.50-29.59 | 1.08 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 98.58 |
| 29.60-29.69 | 0.27 | 0.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 99.73 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 |
| 29.80-29.89 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 99.86 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 |
| > 29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 |
| MISSING | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 100.00 |
| TOTAL CUMUL TOTAL | 46.22 | 39.39 | 8.51 | 5.81 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 46.22 | 85.61 | 94.12 | 99.93 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 1480

Table 416. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury

| APRIL | | 1950-1964 | | | | | | | | | | | |
|------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.28 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| 28.40-28.49 | 0.56 | 1.41 | 0.07 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 |
| 28.50-28.59 | 0.92 | 2.61 | 0.71 | 0.35 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.66 |
| 28.60-28.69 | 0.64 | 2.12 | 0.21 | 0.56 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 |
| 28.70-28.79 | 2.33 | 3.60 | 0.92 | 1.55 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.47 |
| 28.80-28.89 | 5.72 | 4.59 | 1.48 | 1.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.42 |
| 28.90-28.99 | 4.94 | 5.08 | 1.41 | 1.62 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.21 |
| 29.00-29.09 | 7.77 | 5.65 | 1.20 | 1.55 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.24 |
| 29.10-29.19 | 5.16 | 4.17 | 1.34 | 1.20 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.94 |
| 29.20-29.29 | 5.65 | 4.03 | 1.69 | 1.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.21 |
| 29.30-29.39 | 4.31 | 3.04 | 0.35 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.77 |
| 29.40-29.49 | 1.34 | 1.62 | 0.28 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.62 |
| 29.50-29.59 | 0.07 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 |
| 29.60-29.69 | 0.49 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL | 40.18 | 38.42 | 9.68 | 11.22 | 0.42 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| CUMUL TOTAL | 40.18 | 78.60 | 88.28 | 99.51 | 99.93 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 1416

| MAY | | 1950-1964 | | | | | | | | | | | |
|------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.21 | 0.10 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 1.64 | 0.10 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.41 |
| 28.70-28.79 | 0.41 | 1.13 | 0.31 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.05 |
| 28.80-28.89 | 2.16 | 3.70 | 0.82 | 0.92 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.62 |
| 28.90-28.99 | 5.75 | 6.26 | 1.75 | 3.70 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.70 |
| 29.00-29.09 | 6.26 | 8.21 | 2.87 | 4.00 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.66 |
| 29.10-29.19 | 10.06 | 8.83 | 2.87 | 2.57 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.56 |
| 29.20-29.29 | 6.67 | 6.98 | 2.67 | 1.95 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.33 |
| 29.30-29.39 | 2.46 | 1.44 | 0.31 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.38 |
| 29.40-29.49 | 0.82 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 94.25 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.72 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.97 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.03 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL | 34.80 | 38.50 | 11.70 | 14.37 | 0.51 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| CUMUL TOTAL | 34.80 | 73.31 | 85.01 | 99.38 | 99.90 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 974

| JUNE | | 1950-1964 | | | | | | | | | | | |
|------------------|-------|-------------------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.24 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.36 | 0.24 | 0.12 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 |
| 28.70-28.79 | 1.70 | 1.70 | 0.61 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 |
| 28.80-28.89 | 4.97 | 3.76 | 1.21 | 0.85 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.61 |
| 28.90-28.99 | 8.12 | 6.91 | 1.33 | 3.15 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.06 |
| 29.00-29.09 | 6.06 | 6.18 | 3.64 | 4.97 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.03 |
| 29.10-29.19 | 7.15 | 7.52 | 3.76 | 3.88 | 0.61 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.09 |
| 29.20-29.29 | 2.42 | 3.76 | 1.70 | 1.21 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.64 |
| 29.30-29.39 | 1.21 | 0.97 | 0.48 | 0.73 | 0.12 | 0.12 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.33 |
| 29.40-29.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 58.06 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.91 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 80.97 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.21 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 90.18 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 93.94 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 93.94 |
| MISSING | 0.85 | 3.64 | 0.36 | 1.09 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 93.94 |
| TOTAL | 33.09 | 34.79 | 13.21 | 16.85 | 1.82 | 0.12 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| CUMUL TOTAL | 33.09 | 67.88 | 81.09 | 97.94 | 99.76 | 99.88 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

NUMBER OF OBSERVATIONS = 825

Table 417. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury

JULY 1950-1964

| STATION PRESSURE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL | |
|------------------|-------------------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| | TRACE | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80-28.89 | 0.58 | 0.35 | 0.12 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.90-28.99 | 1.72 | 1.38 | 0.69 | 2.08 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.15 | 1.15 |
| 29.00-29.09 | 6.46 | 5.77 | 2.19 | 5.31 | 1.27 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.23 | 7.38 |
| 29.10-29.19 | 11.88 | 13.38 | 4.50 | 4.27 | 0.69 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.22 | 28.60 |
| 29.20-29.29 | 8.30 | 11.53 | 2.77 | 3.34 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 34.83 | 63.44 |
| 29.30-29.39 | 2.65 | 1.96 | 0.46 | 1.04 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.41 | 89.85 |
| 29.40-29.49 | 1.96 | 1.27 | 0.00 | 0.35 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.34 | 96.19 |
| 29.50-29.59 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.69 | 99.88 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 100.00 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL | 33.68 | 35.64 | 10.73 | 16.38 | 3.00 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 33.68 | 69.32 | 80.05 | 96.42 | 99.42 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 867

AUGUST 1950-1964

| STATION PRESSURE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL | |
|------------------|-------------------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| | TRACE | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.70-28.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80-28.89 | 0.18 | 0.90 | 0.36 | 1.45 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 |
| 28.90-28.99 | 0.54 | 1.27 | 3.45 | 1.27 | 0.36 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.89 | 2.89 |
| 29.00-29.09 | 3.62 | 7.59 | 1.45 | 5.66 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.06 | 7.96 |
| 29.10-29.19 | 12.48 | 14.47 | 3.25 | 5.79 | 1.45 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.90 | 25.86 |
| 29.20-29.29 | 8.68 | 7.05 | 2.35 | 4.88 | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.52 | 64.38 |
| 29.30-29.39 | 4.34 | 4.52 | 0.72 | 0.36 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.41 | 88.79 |
| 29.40-29.49 | 0.54 | 0.36 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.13 | 98.92 |
| 29.50-29.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.08 | 100.00 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL | 30.38 | 36.17 | 9.58 | 18.99 | 3.62 | 1.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 30.38 | 66.55 | 76.13 | 95.12 | 98.73 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 553

SEPTEMBER 1950-1964

| STATION PRESSURE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL | |
|------------------|-------------------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|--------|---------|--------|-------------|--------|
| | TRACE | .01 -.04 | .05 -.09 | .10 0.49 | .50 -.99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.40-28.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50-28.59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.60-28.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.70-28.79 | 0.17 | 0.34 | 0.17 | 1.01 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80-28.89 | 0.50 | 0.84 | 0.84 | 1.51 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.01 | 2.01 |
| 28.90-28.99 | 2.01 | 6.38 | 0.84 | 1.51 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.69 | 5.70 |
| 29.00-29.09 | 3.52 | 7.72 | 3.69 | 4.53 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.91 | 16.61 |
| 29.10-29.19 | 7.21 | 8.22 | 1.68 | 6.21 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.13 | 36.74 |
| 29.20-29.29 | 11.24 | 9.90 | 3.52 | 4.03 | 0.34 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.49 | 60.23 |
| 29.30-29.39 | 3.02 | 2.35 | 0.17 | 0.50 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.19 | 89.43 |
| 29.40-29.49 | 2.01 | 0.34 | 0.00 | 0.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.21 | 95.64 |
| 29.50-29.59 | 0.50 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 98.66 |
| 29.60-29.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.34 | 100.00 |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 |
| TOTAL CUMUL | 30.20 | 36.58 | 11.24 | 19.97 | 1.85 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 30.20 | 66.78 | 78.02 | 97.99 | 99.83 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 596

Table 418. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury

| OCTOBER 1950-1964 | | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
|-------------------|-------|-------------------------|-------|-------|-------|--------|--------|--------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | -.01 | -.05 | .10 | .50 | 1.00 | 2.00 | 3.00 | ≥4.00 | MISSING | | | |
| | | -.04 | -.09 | 0.49 | -.99 | -1.99 | -2.99 | -3.99 | | | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.30-28.39 | 0.24 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.40-28.49 | 0.24 | 1.93 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | |
| 28.50-28.59 | 0.12 | 1.21 | 0.35 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | |
| 28.60-28.69 | 0.48 | 0.73 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 | |
| 28.70-28.79 | 0.97 | 2.18 | 0.12 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.45 | |
| 28.80-28.89 | 1.57 | 2.30 | 0.60 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.63 | |
| 28.90-28.99 | 3.75 | 4.72 | 1.09 | 1.81 | 0.00 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.20 | |
| 29.00-29.09 | 5.93 | 8.22 | 2.18 | 2.42 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.61 | |
| 29.10-29.19 | 8.22 | 8.59 | 2.78 | 4.35 | 0.12 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.86 | |
| 29.20-29.29 | 5.08 | 4.35 | 1.57 | 1.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.30 | |
| 29.30-29.39 | 3.26 | 5.80 | 1.69 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.33 | |
| 29.40-29.49 | 1.33 | 0.97 | 0.48 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.61 | |
| 29.50-29.59 | 1.33 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.26 | |
| 29.60-29.69 | 0.36 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.81 | |
| 29.70-29.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL CUMUL | 32.89 | 42.08 | 11.61 | 12.70 | 0.12 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 32.89 | 74.97 | 86.58 | 99.27 | 99.40 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | |

NUMBER OF OBSERVATIONS = 827

| NOVEMBER 1950-1964 | | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
|--------------------|-------|-------------------------|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | -.01 | -.05 | .10 | .50 | 1.00 | 2.00 | 3.00 | ≥4.00 | MISSING | | | |
| | | -.04 | -.09 | 0.49 | -.99 | -1.99 | -2.99 | -3.99 | | | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.30-28.39 | 0.09 | 0.18 | 0.09 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.40-28.49 | 0.00 | 0.36 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | |
| 28.50-28.59 | 0.46 | 1.19 | 0.36 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | |
| 28.60-28.69 | 2.19 | 3.38 | 1.28 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.10 | |
| 28.70-28.79 | 4.11 | 3.83 | 2.37 | 1.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.30 | |
| 28.80-28.89 | 4.29 | 2.19 | 1.55 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.77 | |
| 28.90-28.99 | 6.20 | 4.11 | 1.55 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.03 | |
| 29.00-29.09 | 6.84 | 5.02 | 1.28 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 | |
| 29.10-29.19 | 6.39 | 6.66 | 1.00 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.14 | |
| 29.20-29.29 | 6.48 | 4.74 | 1.00 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.78 | |
| 29.30-29.39 | 6.66 | 3.47 | 0.55 | 0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.59 | |
| 29.40-29.49 | 1.19 | 0.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.04 | |
| 29.50-29.59 | 0.09 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | |
| 29.60-29.69 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.55 | |
| 29.70-29.79 | 0.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL CUMUL | 46.26 | 36.31 | 11.13 | 6.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 46.26 | 82.57 | 93.70 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | |

NUMBER OF OBSERVATIONS = 1096

| DECEMBER 1950-1964 | | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
|--------------------|-------|-------------------------|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-------------|
| STATION PRESSURE | TRACE | -.01 | -.05 | .10 | .50 | 1.00 | 2.00 | 3.00 | ≥4.00 | MISSING | | | |
| | | -.04 | -.09 | 0.49 | -.99 | -1.99 | -2.99 | -3.99 | | | | | |
| ≤28.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.30-28.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.40-28.49 | 0.49 | 0.28 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 28.50-28.59 | 0.04 | 1.12 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | |
| 28.60-28.69 | 2.17 | 1.89 | 0.21 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | |
| 28.70-28.79 | 3.42 | 1.68 | 0.63 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.40 | |
| 28.80-28.89 | 3.63 | 5.10 | 0.56 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.15 | |
| 28.90-28.99 | 4.61 | 5.73 | 0.63 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.50 | |
| 29.00-29.09 | 6.15 | 7.06 | 1.67 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.11 | |
| 29.10-29.19 | 9.92 | 4.75 | 0.91 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.81 | |
| 29.20-29.29 | 4.96 | 5.87 | 0.49 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.79 | |
| 29.30-29.39 | 4.40 | 6.01 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.74 | |
| 29.40-29.49 | 2.94 | 2.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.69 | |
| 29.50-29.59 | 3.07 | 2.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 87.07 | |
| 29.60-29.69 | 0.14 | 0.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.38 | |
| 29.70-29.79 | 0.35 | 0.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 92.45 | |
| 29.80-29.89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.46 | |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL CUMUL | 47.10 | 45.91 | 5.24 | 1.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL | 47.10 | 93.01 | 98.25 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | |

NUMBER OF OBSERVATIONS = 1431

Table 419. Joint Percentage Frequency Distribution of Hourly Amounts of Precipitation in Inches and Station Pressure in Inches of Mercury. January 1950-December 1964

| STATION PRESSURE | PRECIPITATION IN INCHES | | | | | | | | | | TOTAL | CUMUL TOTAL |
|------------------|-------------------------|------------|------------|-------------|------------|---------------|---------------|---------------|--------|---------|--------|-------------|
| | TR/A/E | -01 -04 | -05 -09 | .10 0.49 | .50 -99 | 1.00 -1.99 | 2.00 -2.99 | 3.00 -3.99 | ≥4.00 | MISSING | | |
| ≤28.29 | 0.05 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.15 |
| 28.30-28.39 | 0.11 | 0.15 | 0.03 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.49 |
| 28.40-28.49 | 0.19 | 0.64 | 0.10 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.99 | 1.48 |
| 28.50-28.59 | 0.59 | 1.04 | 0.25 | 0.10 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.99 | 3.47 |
| 28.60-28.69 | 0.99 | 1.71 | 0.32 | 0.30 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.34 | 6.81 |
| 28.70-28.79 | 2.08 | 2.34 | 0.64 | 0.63 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.71 | 12.52 |
| 28.80-28.89 | 3.44 | 3.53 | 0.92 | 0.82 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 8.74 | 21.27 |
| 28.90-28.99 | 4.90 | 5.11 | 1.19 | 1.41 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 12.72 | 33.99 |
| 29.00-29.09 | 6.98 | 7.01 | 1.85 | 2.13 | 0.18 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 18.17 | 52.16 |
| 29.10-29.19 | 8.21 | 7.08 | 1.85 | 2.02 | 0.18 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 19.41 | 71.57 |
| 29.20-29.29 | 6.48 | 5.65 | 1.37 | 1.35 | 0.13 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 14.98 | 86.56 |
| 29.30-29.39 | 3.65 | 3.17 | 0.39 | 0.34 | 0.04 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 7.61 | 94.17 |
| 29.40-29.49 | 1.51 | 1.17 | 0.10 | 0.14 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.93 | 97.10 |
| 29.50-29.59 | 0.82 | 0.54 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.38 | 98.48 |
| 29.60-29.69 | 0.59 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.82 | 99.30 |
| 29.70-29.79 | 0.14 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 99.50 |
| 29.80-29.89 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 99.58 |
| 29.90-29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.58 |
| >29.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.58 |
| MISSING | 0.06 | 0.26 | 0.02 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 100.00 |
| TOTAL | 40.88 | 39.76 | 9.08 | 9.43 | 0.68 | 0.17 | 0.01 | 0.00 | 0.00 | 0.00 | 100.00 | |
| CUMUL TOTAL | 40.88 | 80.64 | 89.71 | 99.14 | 99.82 | 99.99 | 100.00 | 100.00 | 100.00 | 100.00 | | |

NUMBER OF OBSERVATIONS = 12513

Table 420. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of Temperature (°F) and of Station Pressure in Inches of Mercury. January 1950-December 1964

2 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF TEMPERATURE (°F) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| | 0-2 | 3-5 | 6-8 | 9-11 | 12-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | ≥50 | | |
| .00 | 10.990 | 5.421 | 2.085 | 0.700 | 0.158 | 0.019 | 0.000 | 0.002 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.067 | 19.45 |
| .01 | 16.402 | 8.037 | 3.040 | 1.033 | 0.215 | 0.042 | 0.001 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.090 | 28.86 |
| .02 | 12.108 | 5.804 | 2.040 | 0.710 | 0.139 | 0.040 | 0.002 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.068 | 20.91 |
| .03 | 6.758 | 3.329 | 1.141 | 0.353 | 0.076 | 0.026 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.033 | 11.72 |
| .04 | 4.666 | 2.243 | 0.739 | 0.208 | 0.050 | 0.017 | 0.003 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.028 | 7.96 |
| .05 | 2.345 | 1.161 | 0.377 | 0.097 | 0.034 | 0.005 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 4.03 |
| .06-.07 | 2.401 | 1.294 | 0.396 | 0.102 | 0.035 | 0.017 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.018 | 4.27 |
| .08-.09 | 0.802 | 0.464 | 0.145 | 0.049 | 0.027 | 0.011 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 1.51 |
| .10-.14 | 0.439 | 0.261 | 0.084 | 0.039 | 0.017 | 0.015 | 0.002 | 0.001 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.003 | 0.86 |
| .15-.19 | 0.039 | 0.021 | 0.003 | 0.002 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.07 |
| .20-.24 | 0.003 | 0.002 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.01 |
| .25-.29 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| ≥.30 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| MISSING | 0.202 | 0.102 | 0.037 | 0.002 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.011 | 0.36 |
| TOTAL | 57.156 | 28.140 | 10.091 | 3.294 | 0.753 | 0.198 | 0.014 | 0.006 | 0.006 | 0.004 | 0.001 | 0.000 | 0.000 | 0.337 | 100.00 |

NUMBER OF OBSERVATIONS = 131494

11 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF TEMPERATURE (°F) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|---------|--------|
| | 0-2 | 3-5 | 6-8 | 9-11 | 12-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | ≥50 | | |
| .00 | 0.004 | 0.017 | 0.019 | 0.027 | 0.028 | 0.052 | 0.019 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.17 |
| .01 | 0.054 | 0.157 | 0.255 | 0.348 | 0.297 | 0.459 | 0.182 | 0.030 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 1.79 |
| .02 | 0.140 | 0.587 | 0.835 | 1.066 | 0.953 | 1.335 | 0.558 | 0.112 | 0.020 | 0.005 | 0.000 | 0.000 | 0.000 | 0.014 | 5.62 |
| .03 | 0.243 | 0.817 | 1.064 | 1.256 | 1.299 | 1.907 | 0.845 | 0.183 | 0.028 | 0.002 | 0.001 | 0.000 | 0.000 | 0.036 | 7.68 |
| .04 | 0.286 | 0.966 | 1.238 | 1.437 | 1.507 | 2.181 | 1.035 | 0.263 | 0.048 | 0.011 | 0.002 | 0.000 | 0.000 | 0.024 | 9.00 |
| .05 | 0.233 | 0.862 | 1.101 | 1.336 | 1.499 | 2.100 | 1.057 | 0.297 | 0.056 | 0.005 | 0.001 | 0.000 | 0.000 | 0.038 | 8.58 |
| .06-.07 | 0.484 | 1.644 | 2.093 | 2.576 | 2.568 | 3.513 | 1.914 | 0.665 | 0.146 | 0.020 | 0.001 | 0.001 | 0.000 | 0.064 | 15.69 |
| .08-.09 | 0.418 | 1.320 | 1.740 | 2.015 | 1.945 | 2.660 | 1.427 | 0.518 | 0.127 | 0.017 | 0.005 | 0.002 | 0.000 | 0.056 | 12.25 |
| .10-.14 | 0.762 | 2.351 | 2.881 | 3.321 | 2.933 | 3.664 | 1.803 | 0.740 | 0.196 | 0.036 | 0.002 | 0.000 | 0.000 | 0.070 | 18.76 |
| .15-.19 | 0.427 | 1.462 | 1.649 | 1.660 | 1.399 | 1.508 | 0.839 | 0.365 | 0.127 | 0.022 | 0.004 | 0.000 | 0.000 | 0.031 | 9.49 |
| .20-.24 | 0.240 | 0.831 | 0.924 | 0.866 | 0.663 | 0.719 | 0.403 | 0.157 | 0.071 | 0.015 | 0.002 | 0.000 | 0.000 | 0.024 | 4.95 |
| .25-.29 | 0.141 | 0.478 | 0.482 | 0.450 | 0.334 | 0.383 | 0.198 | 0.119 | 0.036 | 0.008 | 0.002 | 0.000 | 0.000 | 0.017 | 2.65 |
| ≥.30 | 0.115 | 0.505 | 0.577 | 0.486 | 0.348 | 0.468 | 0.235 | 0.149 | 0.049 | 0.016 | 0.003 | 0.005 | 0.000 | 0.019 | 2.97 |
| MISSING | 0.014 | 0.040 | 0.058 | 0.081 | 0.074 | 0.069 | 0.023 | 0.006 | 0.002 | 0.005 | 0.000 | 0.000 | 0.000 | 0.018 | 0.39 |
| TOTAL | 3.560 | 12.036 | 14.916 | 16.925 | 15.847 | 21.019 | 10.538 | 3.645 | 0.906 | 0.161 | 0.021 | 0.007 | 0.000 | 0.419 | 100.00 |

NUMBER OF OBSERVATIONS = 131485

23 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF TEMPERATURE (°F) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|---------|--------|
| | 0-2 | 3-5 | 6-8 | 9-11 | 12-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | ≥50 | | |
| .00 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| .01 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.01 |
| .02 | 0.000 | 0.008 | 0.009 | 0.015 | 0.029 | 0.053 | 0.059 | 0.019 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.20 |
| .03 | 0.000 | 0.010 | 0.026 | 0.068 | 0.106 | 0.269 | 0.221 | 0.049 | 0.011 | 0.001 | 0.000 | 0.000 | 0.000 | 0.013 | 0.78 |
| .04 | 0.009 | 0.043 | 0.074 | 0.126 | 0.224 | 0.602 | 0.640 | 0.179 | 0.054 | 0.008 | 0.000 | 0.000 | 0.000 | 0.006 | 1.96 |
| .05 | 0.007 | 0.074 | 0.158 | 0.219 | 0.319 | 1.031 | 1.168 | 0.334 | 0.071 | 0.002 | 0.000 | 0.000 | 0.000 | 0.004 | 3.39 |
| .06-.07 | 0.018 | 0.211 | 0.424 | 0.546 | 1.029 | 2.690 | 3.116 | 1.261 | 0.260 | 0.050 | 0.003 | 0.000 | 0.000 | 0.040 | 9.65 |
| .08-.09 | 0.023 | 0.246 | 0.481 | 0.760 | 1.130 | 3.004 | 3.306 | 1.580 | 0.437 | 0.050 | 0.007 | 0.000 | 0.000 | 0.046 | 11.07 |
| .10-.14 | 0.049 | 0.574 | 1.108 | 1.849 | 2.455 | 5.950 | 6.494 | 3.097 | 0.955 | 0.189 | 0.018 | 0.004 | 0.000 | 0.114 | 22.86 |
| .15-.19 | 0.043 | 0.427 | 0.877 | 1.591 | 1.847 | 4.037 | 3.650 | 1.987 | 0.685 | 0.124 | 0.025 | 0.005 | 0.000 | 0.066 | 15.36 |
| .20-.24 | 0.030 | 0.395 | 0.732 | 1.023 | 1.424 | 2.793 | 2.174 | 1.304 | 0.554 | 0.091 | 0.052 | 0.005 | 0.000 | 0.051 | 10.63 |
| .25-.29 | 0.041 | 0.348 | 0.563 | 0.763 | 1.037 | 1.857 | 1.453 | 0.809 | 0.376 | 0.123 | 0.040 | 0.005 | 0.000 | 0.037 | 7.45 |
| ≥.30 | 0.082 | 0.617 | 1.387 | 1.986 | 2.190 | 3.810 | 2.802 | 1.770 | 0.941 | 0.351 | 0.110 | 0.040 | 0.000 | 0.124 | 16.21 |
| MISSING | 0.003 | 0.021 | 0.022 | 0.027 | 0.069 | 0.135 | 0.084 | 0.027 | 0.006 | 0.014 | 0.000 | 0.000 | 0.000 | 0.027 | 0.44 |
| TOTAL | 0.304 | 2.976 | 5.863 | 8.974 | 11.859 | 26.241 | 25.167 | 12.416 | 4.351 | 1.008 | 0.255 | 0.059 | 0.000 | 0.529 | 100.00 |

NUMBER OF OBSERVATIONS = 131473

Table 421. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of Relative Humidity in Percent and of Station Pressure in Inches of Mercury. January 1950-December 1964

2 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-59 | 60-69 | 70-79 | ≥80 | | |
| .00 | 8.584 | 5.353 | 2.804 | 1.331 | 0.682 | 0.289 | 0.137 | 0.052 | 0.030 | 0.005 | 0.000 | 0.000 | 0.000 | 0.180 | 19.45 |
| .01 | 13.045 | 7.738 | 4.042 | 1.987 | 0.995 | 0.427 | 0.211 | 0.087 | 0.053 | 0.008 | 0.001 | 0.000 | 0.000 | 0.268 | 28.86 |
| .02 | 9.795 | 5.455 | 2.796 | 1.320 | 0.676 | 0.358 | 0.156 | 0.069 | 0.044 | 0.008 | 0.002 | 0.000 | 0.000 | 0.233 | 20.91 |
| .03 | 5.655 | 3.043 | 1.456 | 0.710 | 0.368 | 0.164 | 0.123 | 0.053 | 0.031 | 0.005 | 0.000 | 0.000 | 0.000 | 0.113 | 11.72 |
| .04 | 3.858 | 2.108 | 1.017 | 0.467 | 0.226 | 0.104 | 0.059 | 0.025 | 0.016 | 0.005 | 0.000 | 0.000 | 0.000 | 0.071 | 7.96 |
| .05 | 1.997 | 1.084 | 0.485 | 0.224 | 0.116 | 0.052 | 0.025 | 0.011 | 0.009 | 0.003 | 0.000 | 0.000 | 0.000 | 0.027 | 4.03 |
| .06-.07 | 2.169 | 1.110 | 0.525 | 0.234 | 0.098 | 0.046 | 0.028 | 0.013 | 0.010 | 0.005 | 0.000 | 0.000 | 0.000 | 0.027 | 4.27 |
| .08-.09 | 0.751 | 0.402 | 0.184 | 0.078 | 0.034 | 0.019 | 0.012 | 0.005 | 0.006 | 0.001 | 0.000 | 0.000 | 0.000 | 0.015 | 1.51 |
| .10-.14 | 0.447 | 0.195 | 0.106 | 0.052 | 0.030 | 0.014 | 0.004 | 0.005 | 0.003 | 0.002 | 0.000 | 0.000 | 0.000 | 0.005 | 0.86 |
| .15-.19 | 0.035 | 0.013 | 0.008 | 0.008 | 0.003 | 0.000 | 0.001 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.07 |
| .20-.24 | 0.002 | 0.002 | 0.002 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.01 |
| .25-.29 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| ≥.30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| MISSING | 0.205 | 0.085 | 0.033 | 0.009 | 0.003 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.00 |
| TOTAL | 46.543 | 26.588 | 13.458 | 6.421 | 3.231 | 1.474 | 0.757 | 0.319 | 0.204 | 0.041 | 0.002 | 0.000 | 0.002 | 0.959 | 100.00 |

NUMBER OF OBSERVATIONS = 131494

11 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------------------|-------|-------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|---------|--------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-59 | 60-69 | 70-79 | ≥80 | | |
| .00 | 0.005 | 0.006 | 0.013 | 0.005 | 0.015 | 0.020 | 0.023 | 0.022 | 0.043 | 0.011 | 0.003 | 0.000 | 0.000 | 0.000 | 0.17 |
| .01 | 0.049 | 0.096 | 0.127 | 0.154 | 0.205 | 0.241 | 0.222 | 0.183 | 0.357 | 0.116 | 0.030 | 0.000 | 0.000 | 0.009 | 1.79 |
| .02 | 0.177 | 0.253 | 0.433 | 0.592 | 0.652 | 0.732 | 0.675 | 0.659 | 0.954 | 0.391 | 0.055 | 0.005 | 0.000 | 0.048 | 5.62 |
| .03 | 0.238 | 0.347 | 0.627 | 0.760 | 0.904 | 0.958 | 0.939 | 0.873 | 1.272 | 0.585 | 0.097 | 0.007 | 0.000 | 0.075 | 7.68 |
| .04 | 0.306 | 0.367 | 0.684 | 0.899 | 1.008 | 1.079 | 1.107 | 0.982 | 1.578 | 0.723 | 0.128 | 0.013 | 0.000 | 0.125 | 9.00 |
| .05 | 0.281 | 0.372 | 0.678 | 0.749 | 0.973 | 1.017 | 1.082 | 0.940 | 1.468 | 0.726 | 0.166 | 0.008 | 0.000 | 0.123 | 8.58 |
| .06-.07 | 0.599 | 0.760 | 1.236 | 1.488 | 1.724 | 1.841 | 1.853 | 1.669 | 2.661 | 1.276 | 0.331 | 0.040 | 0.000 | 0.209 | 15.69 |
| .08-.09 | 0.500 | 0.627 | 1.019 | 1.174 | 1.453 | 1.408 | 1.476 | 1.313 | 1.841 | 0.944 | 0.262 | 0.027 | 0.000 | 0.205 | 12.25 |
| .10-.14 | 0.901 | 1.098 | 1.787 | 2.132 | 2.308 | 2.288 | 2.097 | 1.827 | 2.551 | 1.136 | 0.332 | 0.038 | 0.002 | 0.262 | 18.76 |
| .15-.19 | 0.474 | 0.730 | 1.022 | 1.240 | 1.333 | 1.210 | 0.957 | 0.780 | 1.097 | 0.459 | 0.105 | 0.015 | 0.000 | 0.070 | 9.49 |
| .20-.24 | 0.303 | 0.406 | 0.590 | 0.716 | 0.713 | 0.630 | 0.484 | 0.370 | 0.463 | 0.206 | 0.041 | 0.002 | 0.000 | 0.030 | 4.95 |
| .25-.29 | 0.177 | 0.224 | 0.345 | 0.421 | 0.368 | 0.329 | 0.253 | 0.174 | 0.218 | 0.089 | 0.019 | 0.002 | 0.000 | 0.029 | 2.65 |
| ≥.30 | 0.235 | 0.250 | 0.402 | 0.454 | 0.414 | 0.386 | 0.286 | 0.189 | 0.232 | 0.068 | 0.017 | 0.003 | 0.009 | 0.030 | 2.97 |
| MISSING | 0.028 | 0.014 | 0.052 | 0.095 | 0.068 | 0.054 | 0.027 | 0.008 | 0.008 | 0.005 | 0.000 | 0.000 | 0.000 | 0.033 | 0.39 |
| TOTAL | 4.276 | 5.550 | 9.014 | 10.878 | 12.138 | 12.191 | 11.481 | 9.988 | 14.744 | 6.735 | 1.586 | 0.160 | 0.011 | 1.247 | 100.00 |

NUMBER OF OBSERVATIONS = 131485

23 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|---------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|---------|--------|
| | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-59 | 60-69 | 70-79 | ≥80 | | |
| .00 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| .01 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.002 | 0.005 | 0.000 | 0.000 | 0.000 | 0.000 | 0.01 |
| .02 | 0.000 | 0.002 | 0.002 | 0.002 | 0.001 | 0.013 | 0.024 | 0.014 | 0.060 | 0.058 | 0.024 | 0.000 | 0.000 | 0.000 | 0.20 |
| .03 | 0.000 | 0.005 | 0.006 | 0.013 | 0.031 | 0.050 | 0.106 | 0.093 | 0.223 | 0.208 | 0.027 | 0.002 | 0.000 | 0.011 | 0.78 |
| .04 | 0.013 | 0.008 | 0.025 | 0.056 | 0.091 | 0.110 | 0.166 | 0.265 | 0.605 | 0.474 | 0.113 | 0.020 | 0.000 | 0.017 | 1.96 |
| .05 | 0.024 | 0.021 | 0.057 | 0.118 | 0.131 | 0.215 | 0.348 | 0.395 | 0.926 | 0.830 | 0.279 | 0.011 | 0.000 | 0.030 | 3.39 |
| .06-.07 | 0.042 | 0.046 | 0.167 | 0.276 | 0.380 | 0.650 | 0.962 | 1.180 | 2.895 | 2.240 | 0.635 | 0.060 | 0.000 | 0.118 | 9.65 |
| .08-.09 | 0.064 | 0.089 | 0.186 | 0.341 | 0.557 | 0.701 | 1.082 | 1.335 | 3.013 | 2.712 | 0.728 | 0.077 | 0.002 | 0.186 | 11.07 |
| .10-.14 | 0.219 | 0.215 | 0.576 | 0.796 | 1.228 | 1.615 | 2.184 | 2.674 | 6.384 | 4.654 | 1.628 | 0.191 | 0.002 | 0.492 | 22.86 |
| .15-.19 | 0.173 | 0.234 | 0.459 | 0.720 | 0.998 | 1.317 | 1.574 | 1.794 | 3.934 | 2.785 | 0.951 | 0.122 | 0.003 | 0.300 | 15.36 |
| .20-.24 | 0.151 | 0.148 | 0.292 | 0.515 | 0.790 | 1.139 | 1.201 | 1.412 | 2.491 | 1.710 | 0.581 | 0.056 | 0.005 | 0.138 | 10.63 |
| .25-.29 | 0.120 | 0.142 | 0.300 | 0.440 | 0.649 | 0.794 | 0.912 | 0.953 | 1.691 | 1.040 | 0.288 | 0.040 | 0.009 | 0.073 | 7.45 |
| ≥.30 | 0.309 | 0.305 | 0.759 | 1.206 | 1.664 | 2.137 | 2.154 | 1.924 | 3.073 | 1.850 | 0.542 | 0.072 | 0.021 | 0.193 | 16.21 |
| MISSING | 0.011 | 0.002 | 0.020 | 0.040 | 0.062 | 0.088 | 0.096 | 0.036 | 0.011 | 0.019 | 0.000 | 0.000 | 0.000 | 0.051 | 0.44 |
| TOTAL | 1.125 | 1.216 | 2.848 | 4.523 | 6.582 | 8.827 | 10.811 | 12.078 | 25.307 | 18.584 | 5.795 | 0.653 | 0.042 | 1.609 | 100.00 |

NUMBER OF OBSERVATIONS = 131473

Table 422. Joint Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of 19-foot Wind Speed (mph) and of Station Pressure in Inches of Mercury. January 1950-December 1964

2 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF 19-FOOT WIND SPEED (MPH) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------|---------|--------|
| | 0.0 -0.9 | 1.0 -1.9 | 2.0 -2.9 | 3.0 -3.9 | 4.0 -4.9 | 5.0 -5.9 | 6.0 -6.9 | 7.0 -7.9 | 8.0 -8.9 | 9.0 -9.9 | 10.0 -11.9 | 12.0 -14.9 | ≥15.0 | | |
| .00 | 2.110 | 5.237 | 5.261 | 3.092 | 1.891 | 0.912 | 0.478 | 0.195 | 0.098 | 0.047 | 0.043 | 0.010 | 0.002 | 0.071 | 19.45 |
| .01 | 2.732 | 7.245 | 7.738 | 4.895 | 3.089 | 1.410 | 0.859 | 0.356 | 0.211 | 0.096 | 0.074 | 0.027 | 0.005 | 0.125 | 28.86 |
| .02 | 1.876 | 5.032 | 5.555 | 3.586 | 2.304 | 1.129 | 0.628 | 0.326 | 0.166 | 0.090 | 0.073 | 0.033 | 0.014 | 0.100 | 20.91 |
| .03 | 0.930 | 2.723 | 3.081 | 2.021 | 1.345 | 0.681 | 0.398 | 0.210 | 0.124 | 0.056 | 0.056 | 0.029 | 0.010 | 0.058 | 11.72 |
| .04 | 0.640 | 1.796 | 1.994 | 1.373 | 0.903 | 0.498 | 0.324 | 0.146 | 0.103 | 0.051 | 0.061 | 0.030 | 0.009 | 0.026 | 7.96 |
| .05 | 0.246 | 0.792 | 1.055 | 0.709 | 0.513 | 0.298 | 0.173 | 0.090 | 0.052 | 0.028 | 0.033 | 0.021 | 0.009 | 0.014 | 4.03 |
| .06-.07 | 0.297 | 0.780 | 1.023 | 0.741 | 0.567 | 0.302 | 0.188 | 0.125 | 0.084 | 0.053 | 0.047 | 0.029 | 0.011 | 0.020 | 4.27 |
| .08-.09 | 0.069 | 0.260 | 0.339 | 0.276 | 0.213 | 0.103 | 0.094 | 0.053 | 0.030 | 0.017 | 0.025 | 0.012 | 0.005 | 0.008 | 1.51 |
| .10-.14 | 0.030 | 0.130 | 0.182 | 0.134 | 0.141 | 0.071 | 0.046 | 0.033 | 0.024 | 0.017 | 0.027 | 0.015 | 0.008 | 0.005 | 0.86 |
| .15-.19 | 0.003 | 0.004 | 0.015 | 0.006 | 0.011 | 0.008 | 0.004 | 0.005 | 0.001 | 0.002 | 0.005 | 0.003 | 0.002 | 0.000 | 0.07 |
| .20-.24 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.002 | 0.001 | 0.000 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 | 0.000 | 0.01 |
| .25-.29 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| ≥.30 | 0.001 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| MISSING | 0.023 | 0.070 | 0.100 | 0.063 | 0.037 | 0.027 | 0.015 | 0.008 | 0.005 | 0.005 | 0.002 | 0.000 | 0.000 | 0.000 | 0.00 |
| TOTAL | 8.956 | 24.070 | 26.345 | 16.897 | 11.016 | 5.441 | 3.207 | 1.548 | 0.898 | 0.464 | 0.448 | 0.208 | 0.075 | 0.427 | 100.00 |

NUMBER OF OBSERVATIONS = 131494

11 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF 19-FOOT WIND SPEED (MPH) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------|---------|--------|
| | 0.0 -0.9 | 1.0 -1.9 | 2.0 -2.9 | 3.0 -3.9 | 4.0 -4.9 | 5.0 -5.9 | 6.0 -6.9 | 7.0 -7.9 | 8.0 -8.9 | 9.0 -9.9 | 10.0 -11.9 | 12.0 -14.9 | ≥15.0 | | |
| .00 | 0.000 | 0.001 | 0.002 | 0.024 | 0.035 | 0.023 | 0.033 | 0.011 | 0.018 | 0.008 | 0.005 | 0.005 | 0.000 | 0.000 | 0.17 |
| .01 | 0.000 | 0.005 | 0.080 | 0.175 | 0.306 | 0.310 | 0.278 | 0.183 | 0.172 | 0.086 | 0.106 | 0.072 | 0.015 | 0.003 | 1.79 |
| .02 | 0.001 | 0.014 | 0.135 | 0.490 | 0.832 | 0.872 | 0.894 | 0.688 | 0.609 | 0.384 | 0.388 | 0.237 | 0.052 | 0.029 | 5.62 |
| .03 | 0.001 | 0.013 | 0.139 | 0.551 | 1.015 | 1.140 | 1.301 | 1.075 | 0.789 | 0.551 | 0.678 | 0.300 | 0.061 | 0.067 | 7.68 |
| .04 | 0.002 | 0.008 | 0.185 | 0.535 | 1.110 | 1.385 | 1.421 | 1.180 | 1.047 | 0.700 | 0.878 | 0.377 | 0.091 | 0.077 | 9.00 |
| .05 | 0.000 | 0.014 | 0.176 | 0.488 | 1.044 | 1.215 | 1.428 | 1.118 | 0.994 | 0.665 | 0.828 | 0.434 | 0.120 | 0.058 | 8.58 |
| .06-.07 | 0.000 | 0.020 | 0.275 | 0.837 | 1.755 | 2.057 | 2.365 | 2.012 | 1.923 | 1.344 | 1.787 | 0.888 | 0.297 | 0.129 | 15.69 |
| .08-.09 | 0.000 | 0.018 | 0.152 | 0.572 | 1.170 | 1.577 | 1.825 | 1.567 | 1.477 | 1.055 | 1.542 | 0.875 | 0.338 | 0.082 | 12.25 |
| .10-.14 | 0.000 | 0.026 | 0.221 | 0.802 | 1.636 | 2.174 | 2.533 | 2.367 | 2.192 | 1.634 | 2.587 | 1.720 | 0.718 | 0.149 | 18.76 |
| .15-.19 | 0.000 | 0.003 | 0.076 | 0.268 | 0.715 | 0.958 | 1.218 | 1.097 | 1.087 | 0.956 | 1.399 | 1.101 | 0.546 | 0.069 | 9.49 |
| .20-.24 | 0.000 | 0.000 | 0.019 | 0.112 | 0.275 | 0.437 | 0.636 | 0.539 | 0.551 | 0.487 | 0.822 | 0.671 | 0.368 | 0.038 | 4.95 |
| .25-.29 | 0.000 | 0.002 | 0.008 | 0.053 | 0.132 | 0.201 | 0.303 | 0.262 | 0.292 | 0.264 | 0.465 | 0.406 | 0.246 | 0.015 | 2.65 |
| ≥.30 | 0.000 | 0.000 | 0.006 | 0.039 | 0.150 | 0.198 | 0.271 | 0.312 | 0.304 | 0.231 | 0.480 | 0.528 | 0.438 | 0.018 | 2.97 |
| MISSING | 0.000 | 0.000 | 0.004 | 0.014 | 0.040 | 0.040 | 0.052 | 0.057 | 0.047 | 0.030 | 0.059 | 0.042 | 0.005 | 0.000 | 0.39 |
| TOTAL | 0.003 | 0.125 | 1.477 | 4.962 | 10.215 | 12.585 | 14.559 | 12.467 | 11.503 | 8.396 | 12.024 | 7.653 | 3.296 | 0.735 | 100.00 |

NUMBER OF OBSERVATIONS = 131485

23 HOUR TIME INTERVAL

| RANGE OF PRESSURE | RANGE OF 19-FOOT WIND SPEED (MPH) | | | | | | | | | | | | | MISSING | TOTAL |
|-------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|--------|---------|--------|
| | 0.0 -0.9 | 1.0 -1.9 | 2.0 -2.9 | 3.0 -3.9 | 4.0 -4.9 | 5.0 -5.9 | 6.0 -6.9 | 7.0 -7.9 | 8.0 -8.9 | 9.0 -9.9 | 10.0 -11.9 | 12.0 -14.9 | ≥15.0 | | |
| .00 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| .01 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.005 | 0.000 | 0.000 | 0.002 | 0.001 | 0.000 | 0.01 |
| .02 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.006 | 0.013 | 0.026 | 0.021 | 0.027 | 0.042 | 0.036 | 0.027 | 0.000 | 0.20 |
| .03 | 0.000 | 0.000 | 0.000 | 0.011 | 0.016 | 0.033 | 0.071 | 0.087 | 0.131 | 0.087 | 0.155 | 0.138 | 0.031 | 0.015 | 0.78 |
| .04 | 0.000 | 0.000 | 0.000 | 0.014 | 0.046 | 0.080 | 0.161 | 0.296 | 0.310 | 0.268 | 0.409 | 0.256 | 0.099 | 0.025 | 1.96 |
| .05 | 0.000 | 0.000 | 0.001 | 0.011 | 0.050 | 0.201 | 0.401 | 0.519 | 0.536 | 0.489 | 0.628 | 0.409 | 0.112 | 0.030 | 3.39 |
| .06-.07 | 0.000 | 0.000 | 0.006 | 0.036 | 0.156 | 0.610 | 0.902 | 1.253 | 1.504 | 1.387 | 2.033 | 1.282 | 0.374 | 0.106 | 9.65 |
| .08-.09 | 0.000 | 0.000 | 0.013 | 0.044 | 0.222 | 0.521 | 1.046 | 1.295 | 1.590 | 1.477 | 2.510 | 1.670 | 0.558 | 0.124 | 11.07 |
| .10-.14 | 0.000 | 0.000 | 0.009 | 0.062 | 0.324 | 0.824 | 1.815 | 2.285 | 2.984 | 2.693 | 5.349 | 4.351 | 1.856 | 0.306 | 22.86 |
| .15-.19 | 0.000 | 0.000 | 0.002 | 0.048 | 0.146 | 0.458 | 1.012 | 1.234 | 1.800 | 1.683 | 3.541 | 3.194 | 2.076 | 0.170 | 15.36 |
| .20-.24 | 0.000 | 0.000 | 0.001 | 0.010 | 0.073 | 0.257 | 0.537 | 0.761 | 1.023 | 1.024 | 2.413 | 2.622 | 1.812 | 0.096 | 10.63 |
| .25-.29 | 0.000 | 0.000 | 0.000 | 0.006 | 0.051 | 0.144 | 0.339 | 0.457 | 0.637 | 0.689 | 1.586 | 1.959 | 1.495 | 0.089 | 7.45 |
| ≥.30 | 0.000 | 0.000 | 0.001 | 0.014 | 0.061 | 0.172 | 0.420 | 0.654 | 1.046 | 1.253 | 2.890 | 4.331 | 5.204 | 0.164 | 16.21 |
| MISSING | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.015 | 0.031 | 0.048 | 0.049 | 0.032 | 0.110 | 0.111 | 0.039 | 0.000 | 0.44 |
| TOTAL | 0.000 | 0.000 | 0.032 | 0.255 | 1.148 | 3.322 | 6.750 | 8.914 | 11.635 | 11.109 | 21.665 | 20.361 | 13.685 | 1.124 | 100.00 |

NUMBER OF OBSERVATIONS = 131473

Section 2.8

Relationship between Relative Humidity and Solar Radiation

Tables 423 through 429. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST. Monthly and Total Period. September 1950-December 1964.

In general, these tables show a negative correlation between solar radiation and relative humidity; low relative humidity values are associated with large hourly amounts of solar radiation and high relative humidity values with small amounts of hourly solar radiation. Several factors enter into the explanation for this pattern: First, dry air masses are associated with clear skies and large amounts of solar radiation; second, relative humidity values are comparatively high at sunrise when the temperature is close to the minimum. As the day progresses, sunshine causes the air to become warm, thus lowering the relative humidity. The large frequency of high relative humidity values associated with low solar radiation is the result of cloudy and/or precipitation conditions and the normal diurnal cycle of relative humidity.

Table 423. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | JANUARY 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.12 | 0.81 | 3.78 | 8.28 | 11.33 | 16.02 | 0.05 | 40.42 | 40.42 |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.03 | 0.14 | 0.77 | 2.09 | 3.80 | 4.53 | 9.45 | 0.05 | 20.85 | 61.26 | 61.26 |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.01 | 0.09 | 0.38 | 1.18 | 1.63 | 1.90 | 2.14 | 0.00 | 7.33 | 68.60 | 68.60 |
| 11-15 | 0.00 | 0.00 | 0.01 | 0.03 | 0.19 | 0.45 | 1.36 | 1.67 | 1.34 | 1.18 | 0.00 | 6.22 | 74.82 | 74.82 |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.04 | 0.20 | 0.56 | 1.03 | 1.30 | 0.96 | 0.57 | 0.03 | 4.69 | 79.51 | 79.51 |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.03 | 0.12 | 0.64 | 1.19 | 1.12 | 0.72 | 0.27 | 0.00 | 4.09 | 83.60 | 83.60 |
| 26-30 | 0.00 | 0.00 | 0.01 | 0.03 | 0.37 | 0.79 | 1.38 | 0.96 | 0.41 | 0.27 | 0.00 | 4.22 | 87.82 | 87.82 |
| 31-35 | 0.00 | 0.00 | 0.00 | 0.05 | 0.16 | 0.85 | 1.00 | 0.79 | 0.28 | 0.16 | 0.00 | 3.31 | 91.12 | 91.12 |
| 36-40 | 0.00 | 0.00 | 0.01 | 0.03 | 0.30 | 0.81 | 1.08 | 0.61 | 0.15 | 0.14 | 0.00 | 3.13 | 94.25 | 94.25 |
| 41-45 | 0.00 | 0.00 | 0.00 | 0.09 | 0.15 | 0.88 | 1.34 | 0.56 | 0.18 | 0.04 | 0.00 | 3.24 | 97.49 | 97.49 |
| 46-50 | 0.00 | 0.00 | 0.00 | 0.03 | 0.24 | 0.54 | 0.61 | 0.18 | 0.05 | 0.00 | 0.00 | 1.65 | 99.15 | 99.15 |
| 51-55 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.26 | 0.26 | 0.04 | 0.00 | 0.00 | 0.00 | 0.61 | 99.76 | 99.76 |
| 56-60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 99.86 | 99.86 |
| 61-65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 | 99.86 |
| 66-70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.88 | 99.88 |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.88 | 99.88 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.04 | 0.00 | 0.00 | 0.12 | 100.00 | 100.00 |
| TOTAL | 0.00 | 0.00 | 0.04 | 0.41 | 2.11 | 7.83 | 16.39 | 20.95 | 21.89 | 30.24 | 0.14 | 100.00 | | |
| CUMUL TOTAL | 0.00 | 0.00 | 0.04 | 0.45 | 2.56 | 10.40 | 26.78 | 47.74 | 69.63 | 99.86 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7378

| | | FEBRUARY 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| 0 | 0.00 | 0.00 | 0.00 | 0.03 | 0.22 | 1.07 | 4.01 | 6.76 | 9.39 | 15.02 | 0.18 | 36.68 | 36.68 | |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.06 | 0.19 | 0.67 | 2.04 | 3.10 | 3.64 | 6.64 | 0.15 | 16.49 | 53.16 | 53.16 |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.04 | 0.13 | 0.62 | 1.31 | 1.80 | 2.02 | 2.36 | 0.03 | 8.32 | 61.48 | 61.48 |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.06 | 0.16 | 0.48 | 1.01 | 1.53 | 1.54 | 1.31 | 0.01 | 6.11 | 67.59 | 67.59 |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.03 | 0.25 | 0.59 | 1.07 | 1.52 | 1.20 | 0.49 | 0.06 | 5.21 | 72.80 | 72.80 |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.03 | 0.24 | 0.58 | 1.14 | 1.29 | 0.62 | 0.42 | 0.03 | 4.35 | 77.15 | 77.15 |
| 26-30 | 0.00 | 0.00 | 0.00 | 0.01 | 0.24 | 0.77 | 1.20 | 1.29 | 0.40 | 0.16 | 0.01 | 4.10 | 81.25 | 81.25 |
| 31-35 | 0.00 | 0.00 | 0.00 | 0.07 | 0.22 | 0.79 | 0.70 | 0.64 | 0.31 | 0.10 | 0.03 | 2.87 | 84.12 | 84.12 |
| 36-40 | 0.00 | 0.00 | 0.01 | 0.07 | 0.36 | 0.71 | 0.80 | 0.55 | 0.15 | 0.04 | 0.03 | 2.73 | 86.85 | 86.85 |
| 41-45 | 0.00 | 0.00 | 0.03 | 0.04 | 0.34 | 0.86 | 1.05 | 0.56 | 0.09 | 0.00 | 0.04 | 3.03 | 89.88 | 89.88 |
| 46-50 | 0.00 | 0.00 | 0.01 | 0.09 | 0.34 | 1.00 | 0.92 | 0.37 | 0.04 | 0.00 | 0.04 | 2.82 | 92.71 | 92.71 |
| 51-55 | 0.00 | 0.00 | 0.01 | 0.03 | 0.46 | 1.08 | 0.73 | 0.36 | 0.07 | 0.00 | 0.00 | 2.75 | 95.45 | 95.45 |
| 56-60 | 0.00 | 0.00 | 0.00 | 0.15 | 0.48 | 0.79 | 0.74 | 0.21 | 0.03 | 0.00 | 0.00 | 2.39 | 97.85 | 97.85 |
| 61-65 | 0.00 | 0.00 | 0.00 | 0.13 | 0.28 | 0.65 | 0.39 | 0.07 | 0.03 | 0.00 | 0.00 | 1.56 | 99.41 | 99.41 |
| 66-70 | 0.00 | 0.00 | 0.00 | 0.03 | 0.16 | 0.10 | 0.10 | 0.06 | 0.00 | 0.00 | 0.00 | 0.46 | 99.87 | 99.87 |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.87 | 99.87 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.04 | 0.00 | 0.00 | 0.13 | 100.00 | 100.00 |
| TOTAL | 0.00 | 0.00 | 0.07 | 0.89 | 4.08 | 10.77 | 17.25 | 20.17 | 19.59 | 26.54 | 0.62 | 100.00 | | |
| CUMUL TOTAL | 0.00 | 0.00 | 0.07 | 0.97 | 5.05 | 15.82 | 33.07 | 53.24 | 72.83 | 99.38 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 6732

Table 424. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | MARCH 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.61 | 1.53 | 3.80 | 5.77 | 5.56 | 12.27 | 0.00 | 29.70 | 29.70 |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.24 | 0.68 | 1.30 | 2.56 | 2.34 | 2.55 | 8.02 | 0.00 | 17.70 | 47.40 | |
| 6-10 | 0.00 | 0.01 | 0.03 | 0.09 | 0.38 | 0.58 | 1.15 | 1.04 | 1.48 | 2.78 | 0.00 | 7.55 | 54.95 | |
| 11-15 | 0.00 | 0.00 | 0.04 | 0.08 | 0.37 | 0.73 | 1.25 | 0.88 | 1.00 | 1.04 | 0.00 | 5.39 | 60.34 | |
| 16-20 | 0.00 | 0.00 | 0.05 | 0.22 | 0.56 | 0.73 | 1.10 | 0.88 | 1.10 | 0.81 | 0.00 | 5.45 | 65.79 | |
| 21-25 | 0.00 | 0.00 | 0.07 | 0.18 | 0.57 | 0.81 | 0.76 | 0.56 | 0.52 | 0.47 | 0.00 | 3.93 | 69.72 | |
| 26-30 | 0.00 | 0.00 | 0.03 | 0.14 | 0.39 | 0.81 | 0.87 | 0.60 | 0.41 | 0.19 | 0.00 | 3.43 | 73.15 | |
| 31-35 | 0.00 | 0.01 | 0.01 | 0.16 | 0.54 | 0.72 | 0.77 | 0.42 | 0.33 | 0.04 | 0.00 | 3.01 | 76.16 | |
| 36-40 | 0.00 | 0.01 | 0.07 | 0.35 | 0.65 | 0.85 | 0.80 | 0.56 | 0.23 | 0.09 | 0.00 | 3.62 | 79.78 | |
| 41-45 | 0.00 | 0.00 | 0.08 | 0.23 | 0.84 | 0.75 | 0.66 | 0.35 | 0.08 | 0.04 | 0.00 | 3.04 | 82.81 | |
| 46-50 | 0.00 | 0.00 | 0.04 | 0.30 | 0.66 | 0.89 | 0.43 | 0.22 | 0.08 | 0.01 | 0.00 | 2.64 | 85.46 | |
| 51-55 | 0.00 | 0.01 | 0.05 | 0.38 | 0.79 | 0.61 | 0.45 | 0.20 | 0.08 | 0.01 | 0.00 | 2.59 | 88.05 | |
| 56-60 | 0.00 | 0.00 | 0.05 | 0.45 | 1.03 | 0.79 | 0.62 | 0.20 | 0.08 | 0.01 | 0.00 | 3.24 | 91.28 | |
| 61-65 | 0.00 | 0.00 | 0.08 | 0.50 | 0.81 | 0.62 | 0.45 | 0.16 | 0.01 | 0.00 | 0.00 | 2.64 | 93.93 | |
| 66-70 | 0.00 | 0.00 | 0.08 | 0.49 | 0.89 | 0.83 | 0.23 | 0.14 | 0.01 | 0.00 | 0.00 | 2.67 | 96.60 | |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.38 | 0.94 | 0.39 | 0.22 | 0.07 | 0.00 | 0.00 | 0.00 | 1.99 | 98.59 | |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.16 | 0.39 | 0.37 | 0.08 | 0.04 | 0.00 | 0.00 | 0.00 | 1.04 | 99.63 | |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.03 | 0.09 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 99.86 | |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 99.91 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.91 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.91 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.91 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.91 | |
| TOTAL CUMUL | 0.00 | 0.05 | 0.69 | 4.54 | 11.20 | 13.45 | 16.24 | 14.48 | 13.51 | 25.85 | 0.00 | 100.00 | 100.00 | |
| TOTAL | 0.00 | 0.05 | 0.75 | 5.29 | 16.48 | 29.93 | 46.16 | 60.64 | 74.15 | 100.00 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7378

| | | APRIL 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.01 | 0.03 | 0.25 | 1.27 | 2.20 | 3.07 | 3.50 | 3.99 | 7.91 | 0.00 | 22.35 | 22.35 | |
| 1-5 | 0.00 | 0.01 | 0.04 | 0.67 | 1.34 | 1.71 | 2.13 | 2.54 | 2.63 | 5.62 | 0.00 | 16.69 | 39.05 | |
| 6-10 | 0.00 | 0.00 | 0.13 | 0.57 | 0.70 | 0.73 | 1.09 | 0.84 | 1.33 | 2.42 | 0.00 | 7.82 | 46.86 | |
| 11-15 | 0.00 | 0.01 | 0.10 | 0.45 | 0.77 | 0.78 | 0.97 | 1.08 | 1.11 | 1.05 | 0.00 | 6.32 | 53.18 | |
| 16-20 | 0.00 | 0.00 | 0.01 | 0.25 | 0.49 | 0.77 | 1.19 | 0.98 | 0.74 | 0.70 | 0.00 | 5.14 | 58.32 | |
| 21-25 | 0.00 | 0.00 | 0.07 | 0.53 | 0.70 | 0.90 | 0.90 | 0.64 | 0.35 | 0.29 | 0.00 | 4.38 | 62.70 | |
| 26-30 | 0.00 | 0.00 | 0.20 | 0.52 | 0.67 | 0.76 | 0.69 | 0.59 | 0.27 | 0.15 | 0.00 | 3.84 | 66.54 | |
| 31-35 | 0.00 | 0.01 | 0.25 | 0.38 | 0.78 | 0.99 | 0.70 | 0.35 | 0.24 | 0.10 | 0.00 | 3.81 | 70.35 | |
| 36-40 | 0.00 | 0.00 | 0.08 | 0.32 | 0.70 | 0.73 | 0.60 | 0.45 | 0.20 | 0.01 | 0.00 | 3.10 | 73.45 | |
| 41-45 | 0.00 | 0.00 | 0.15 | 0.46 | 0.59 | 0.78 | 0.66 | 0.21 | 0.13 | 0.01 | 0.00 | 3.00 | 76.44 | |
| 46-50 | 0.00 | 0.00 | 0.22 | 0.52 | 0.80 | 0.59 | 0.32 | 0.24 | 0.07 | 0.00 | 0.00 | 2.76 | 79.20 | |
| 51-55 | 0.00 | 0.01 | 0.13 | 0.71 | 0.71 | 0.83 | 0.39 | 0.06 | 0.03 | 0.00 | 0.00 | 2.87 | 82.07 | |
| 56-60 | 0.00 | 0.01 | 0.18 | 0.62 | 0.87 | 0.57 | 0.41 | 0.08 | 0.00 | 0.00 | 0.00 | 2.75 | 84.82 | |
| 61-65 | 0.00 | 0.01 | 0.35 | 0.64 | 0.66 | 0.56 | 0.29 | 0.11 | 0.00 | 0.00 | 0.01 | 2.65 | 87.46 | |
| 66-70 | 0.00 | 0.03 | 0.29 | 0.91 | 0.70 | 0.56 | 0.27 | 0.11 | 0.00 | 0.00 | 0.00 | 2.87 | 90.34 | |
| 71-75 | 0.00 | 0.03 | 0.34 | 1.13 | 0.85 | 0.35 | 0.28 | 0.03 | 0.00 | 0.00 | 0.03 | 3.04 | 93.38 | |
| 76-80 | 0.00 | 0.01 | 0.52 | 1.13 | 0.90 | 0.36 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 3.05 | 96.43 | |
| 81-85 | 0.00 | 0.03 | 0.27 | 0.85 | 0.63 | 0.10 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.93 | 98.36 | |
| 86-90 | 0.00 | 0.01 | 0.07 | 0.31 | 0.20 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.63 | 98.99 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.01 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.01 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.01 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.04 | 0.14 | 0.35 | 0.14 | 0.04 | 0.11 | 0.17 | 0.00 | 0.99 | 100.00 | |
| TOTAL CUMUL | 0.00 | 0.21 | 3.43 | 11.40 | 14.50 | 14.66 | 14.27 | 11.85 | 11.19 | 18.45 | 0.04 | 100.00 | 100.00 | |
| TOTAL | 0.00 | 0.21 | 3.64 | 15.04 | 29.54 | 44.20 | 58.47 | 70.32 | 81.51 | 99.96 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7140

Table 425. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | MAY 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.00 | 0.01 | 0.33 | 0.76 | 1.14 | 2.10 | 2.49 | 2.86 | 5.29 | 0.34 | 15.32 | 15.32 | |
| 1-5 | 0.00 | 0.00 | 0.07 | 0.49 | 1.12 | 1.31 | 1.71 | 1.91 | 2.02 | 4.83 | 0.16 | 13.62 | 28.94 | |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.09 | 0.45 | 0.84 | 1.02 | 1.29 | 1.53 | 2.36 | 0.08 | 7.66 | 36.60 | |
| 11-15 | 0.00 | 0.00 | 0.07 | 0.27 | 0.64 | 0.57 | 0.61 | 0.80 | 0.84 | 1.33 | 0.11 | 5.23 | 41.83 | |
| 16-20 | 0.00 | 0.00 | 0.09 | 0.43 | 0.58 | 0.76 | 0.91 | 0.84 | 0.80 | 0.76 | 0.11 | 5.29 | 47.11 | |
| 21-25 | 0.00 | 0.00 | 0.03 | 0.19 | 0.64 | 0.87 | 0.98 | 1.00 | 0.79 | 0.34 | 0.03 | 4.85 | 51.97 | |
| 26-30 | 0.00 | 0.00 | 0.04 | 0.30 | 0.60 | 0.73 | 0.83 | 0.77 | 0.41 | 0.19 | 0.01 | 3.88 | 55.84 | |
| 31-35 | 0.00 | 0.00 | 0.08 | 0.47 | 0.57 | 0.73 | 0.77 | 0.56 | 0.33 | 0.07 | 0.08 | 3.66 | 59.50 | |
| 36-40 | 0.00 | 0.00 | 0.09 | 0.39 | 0.57 | 0.66 | 0.89 | 0.64 | 0.20 | 0.07 | 0.03 | 3.55 | 63.05 | |
| 41-45 | 0.00 | 0.00 | 0.07 | 0.35 | 0.75 | 0.88 | 0.76 | 0.41 | 0.20 | 0.05 | 0.01 | 3.48 | 66.54 | |
| 46-50 | 0.00 | 0.00 | 0.04 | 0.34 | 0.62 | 0.89 | 0.46 | 0.31 | 0.18 | 0.01 | 0.03 | 2.89 | 69.42 | |
| 51-55 | 0.00 | 0.00 | 0.16 | 0.54 | 0.72 | 0.94 | 0.46 | 0.43 | 0.08 | 0.00 | 0.00 | 3.33 | 72.76 | |
| 56-60 | 0.00 | 0.00 | 0.15 | 0.61 | 0.91 | 0.70 | 0.45 | 0.14 | 0.07 | 0.00 | 0.04 | 3.06 | 75.82 | |
| 61-65 | 0.00 | 0.00 | 0.14 | 0.65 | 0.92 | 0.99 | 0.46 | 0.19 | 0.03 | 0.00 | 0.01 | 3.39 | 79.21 | |
| 66-70 | 0.00 | 0.00 | 0.15 | 0.70 | 1.06 | 0.84 | 0.56 | 0.20 | 0.00 | 0.00 | 0.00 | 3.51 | 82.72 | |
| 71-75 | 0.00 | 0.00 | 0.23 | 0.79 | 1.03 | 0.72 | 0.33 | 0.12 | 0.04 | 0.00 | 0.01 | 3.27 | 85.99 | |
| 76-80 | 0.00 | 0.00 | 0.27 | 1.10 | 0.96 | 0.69 | 0.41 | 0.04 | 0.04 | 0.00 | 0.04 | 3.55 | 89.54 | |
| 81-85 | 0.00 | 0.00 | 0.28 | 1.23 | 1.06 | 0.43 | 0.24 | 0.00 | 0.00 | 0.00 | 0.03 | 3.28 | 92.82 | |
| 86-90 | 0.00 | 0.00 | 0.08 | 0.72 | 0.52 | 0.20 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 94.46 | |
| 91-95 | 0.00 | 0.00 | 0.04 | 0.15 | 0.18 | 0.08 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.47 | 94.93 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 94.96 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 94.96 | |
| MISSING | 0.00 | 0.00 | 0.01 | 0.62 | 0.43 | 0.53 | 0.46 | 0.22 | 0.20 | 0.39 | 2.17 | 5.04 | 100.00 | |
| TOTAL CUMUL | 0.00 | 0.00 | 2.11 | 10.78 | 15.09 | 15.52 | 14.56 | 12.36 | 10.61 | 15.68 | 3.29 | 100.00 | | |
| TOTAL | 0.00 | 0.00 | 2.11 | 12.89 | 27.98 | 43.49 | 58.05 | 70.41 | 81.02 | 96.71 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7378

| | | JUNE 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.00 | 0.00 | 0.01 | 0.18 | 0.59 | 0.70 | 1.29 | 2.51 | 5.18 | 0.03 | 10.49 | 10.49 | |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.11 | 0.60 | 1.44 | 1.43 | 2.38 | 3.35 | 5.38 | 0.03 | 14.72 | 25.21 | |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.07 | 0.60 | 0.99 | 1.06 | 1.67 | 2.10 | 2.13 | 0.03 | 8.66 | 33.87 | |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.24 | 0.34 | 0.54 | 0.87 | 1.27 | 0.87 | 0.00 | 4.24 | 38.11 | |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.14 | 0.67 | 0.63 | 0.42 | 0.74 | 0.85 | 0.45 | 0.01 | 3.92 | 42.03 | |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.22 | 0.80 | 0.83 | 1.09 | 1.06 | 0.70 | 0.34 | 0.01 | 5.06 | 47.09 | |
| 26-30 | 0.00 | 0.00 | 0.01 | 0.15 | 0.62 | 0.81 | 1.06 | 1.22 | 0.74 | 0.13 | 0.00 | 4.75 | 51.83 | |
| 31-35 | 0.00 | 0.00 | 0.03 | 0.17 | 0.48 | 0.73 | 0.80 | 0.77 | 0.27 | 0.11 | 0.01 | 3.36 | 55.20 | |
| 36-40 | 0.00 | 0.00 | 0.01 | 0.32 | 0.69 | 0.62 | 0.84 | 0.80 | 0.22 | 0.11 | 0.01 | 3.63 | 58.82 | |
| 41-45 | 0.00 | 0.00 | 0.01 | 0.31 | 0.85 | 0.98 | 1.18 | 0.94 | 0.34 | 0.04 | 0.03 | 4.68 | 63.50 | |
| 46-50 | 0.00 | 0.00 | 0.04 | 0.20 | 0.83 | 1.05 | 0.91 | 0.53 | 0.15 | 0.01 | 0.01 | 3.74 | 67.24 | |
| 51-55 | 0.00 | 0.00 | 0.06 | 0.39 | 0.77 | 0.92 | 0.94 | 0.46 | 0.14 | 0.03 | 0.03 | 3.74 | 70.98 | |
| 56-60 | 0.00 | 0.00 | 0.03 | 0.48 | 1.18 | 1.02 | 1.29 | 0.49 | 0.07 | 0.03 | 0.03 | 4.61 | 75.59 | |
| 61-65 | 0.00 | 0.00 | 0.01 | 0.39 | 1.26 | 1.18 | 0.88 | 0.39 | 0.03 | 0.00 | 0.03 | 4.17 | 79.76 | |
| 66-70 | 0.00 | 0.00 | 0.06 | 0.71 | 1.11 | 1.11 | 0.97 | 0.21 | 0.06 | 0.00 | 0.04 | 4.26 | 84.02 | |
| 71-75 | 0.00 | 0.00 | 0.03 | 0.78 | 1.64 | 1.02 | 0.84 | 0.15 | 0.03 | 0.00 | 0.06 | 4.55 | 88.57 | |
| 76-80 | 0.00 | 0.00 | 0.07 | 0.80 | 2.00 | 1.30 | 0.49 | 0.13 | 0.03 | 0.00 | 0.04 | 4.86 | 93.43 | |
| 81-85 | 0.00 | 0.00 | 0.06 | 0.70 | 1.50 | 1.04 | 0.28 | 0.03 | 0.00 | 0.00 | 0.04 | 3.64 | 97.07 | |
| 86-90 | 0.00 | 0.00 | 0.06 | 0.46 | 0.81 | 0.39 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 1.83 | 98.91 | |
| 91-95 | 0.00 | 0.00 | 0.01 | 0.11 | 0.14 | 0.07 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.35 | 99.26 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 99.30 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.30 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.11 | 0.08 | 0.20 | 0.17 | 0.08 | 0.00 | 0.70 | 100.00 | |
| TOTAL CUMUL | 0.00 | 0.00 | 0.49 | 6.57 | 17.04 | 17.17 | 15.98 | 14.37 | 13.04 | 14.89 | 0.45 | 100.00 | | |
| TOTAL | 0.00 | 0.00 | 0.69 | 7.06 | 24.10 | 41.27 | 57.25 | 71.62 | 84.66 | 99.55 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7140

Table 426. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | JULY 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.41 | 0.92 | 1.50 | 3.05 | 7.10 | 0.15 | 13.19 | 13.19 |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.03 | 0.31 | 0.91 | 1.52 | 2.20 | 3.09 | 5.83 | 0.27 | 14.15 | 27.34 | |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.03 | 0.34 | 0.81 | 1.23 | 1.49 | 2.06 | 2.39 | 0.07 | 8.42 | 35.75 | |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.11 | 0.28 | 0.56 | 0.61 | 1.02 | 0.81 | 0.09 | 3.50 | 39.25 | |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.09 | 0.39 | 0.87 | 1.12 | 1.10 | 0.96 | 0.57 | 0.05 | 5.16 | 44.42 | |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.23 | 0.62 | 0.83 | 1.38 | 1.34 | 0.95 | 0.23 | 0.08 | 5.67 | 50.08 | |
| 26-30 | 0.00 | 0.00 | 0.01 | 0.08 | 0.37 | 0.61 | 0.94 | 0.92 | 0.43 | 0.18 | 0.09 | 3.63 | 53.71 | |
| 31-35 | 0.00 | 0.00 | 0.00 | 0.09 | 0.46 | 0.70 | 0.99 | 0.70 | 0.37 | 0.08 | 0.09 | 3.50 | 57.21 | |
| 36-40 | 0.00 | 0.00 | 0.01 | 0.20 | 0.79 | 1.17 | 0.99 | 0.89 | 0.27 | 0.05 | 0.03 | 4.40 | 61.62 | |
| 41-45 | 0.00 | 0.00 | 0.01 | 0.37 | 0.73 | 1.40 | 1.04 | 0.73 | 0.18 | 0.05 | 0.08 | 4.59 | 66.21 | |
| 46-50 | 0.00 | 0.00 | 0.00 | 0.16 | 0.53 | 0.99 | 0.98 | 0.46 | 0.11 | 0.00 | 0.03 | 3.25 | 69.46 | |
| 51-55 | 0.00 | 0.00 | 0.03 | 0.19 | 0.85 | 1.27 | 1.12 | 0.52 | 0.08 | 0.01 | 0.04 | 4.12 | 73.58 | |
| 56-60 | 0.00 | 0.00 | 0.03 | 0.39 | 1.23 | 1.56 | 1.12 | 0.34 | 0.07 | 0.01 | 0.00 | 4.76 | 78.34 | |
| 61-65 | 0.00 | 0.00 | 0.03 | 0.37 | 1.12 | 1.49 | 0.87 | 0.14 | 0.05 | 0.00 | 0.00 | 4.11 | 82.45 | |
| 66-70 | 0.00 | 0.00 | 0.08 | 0.34 | 1.26 | 1.42 | 0.64 | 0.20 | 0.00 | 0.00 | 0.00 | 3.94 | 86.39 | |
| 71-75 | 0.00 | 0.00 | 0.03 | 0.50 | 1.88 | 1.64 | 0.62 | 0.09 | 0.00 | 0.00 | 0.00 | 4.77 | 91.16 | |
| 76-80 | 0.00 | 0.00 | 0.07 | 0.65 | 1.46 | 1.37 | 0.38 | 0.08 | 0.00 | 0.00 | 0.00 | 4.01 | 95.17 | |
| 81-85 | 0.00 | 0.00 | 0.07 | 0.62 | 1.52 | 0.85 | 0.31 | 0.01 | 0.00 | 0.00 | 0.00 | 3.39 | 98.56 | |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.19 | 0.61 | 0.20 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | 99.62 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 99.70 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.70 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.70 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.05 | 0.08 | 0.03 | 0.07 | 0.00 | 0.30 | 100.00 | |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.37 | 4.57 | 14.69 | 18.88 | 16.85 | 13.42 | 12.71 | 17.39 | 1.12 | 100.00 | | |
| TOTAL TOTAL | 0.00 | 0.00 | 0.37 | 4.93 | 19.63 | 38.51 | 55.35 | 68.77 | 81.49 | 98.88 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7378

| | | AUGUST 1951-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------------|---------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | TOTAL | CUMUL TOTAL | |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | | | MISSING |
| 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 1.40 | 2.03 | 3.65 | 10.87 | 0.00 | 18.23 | 18.23 |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.65 | 1.69 | 2.37 | 3.23 | 6.53 | 0.00 | 14.54 | 32.77 | |
| 6-10 | 0.01 | 0.00 | 0.00 | 0.00 | 0.15 | 0.54 | 0.76 | 0.88 | 1.03 | 1.59 | 0.00 | 4.96 | 37.73 | |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.28 | 0.59 | 1.33 | 1.25 | 1.12 | 1.29 | 0.00 | 5.98 | 43.71 | |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.01 | 0.24 | 0.57 | 1.06 | 1.22 | 1.30 | 0.83 | 0.00 | 5.23 | 48.94 | |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.01 | 0.39 | 0.66 | 0.68 | 0.95 | 0.58 | 0.47 | 0.00 | 3.75 | 52.70 | |
| 26-30 | 0.00 | 0.00 | 0.00 | 0.09 | 0.47 | 0.80 | 1.08 | 0.69 | 0.69 | 0.23 | 0.00 | 4.07 | 56.76 | |
| 31-35 | 0.00 | 0.00 | 0.00 | 0.07 | 0.61 | 1.00 | 1.26 | 0.95 | 0.61 | 0.09 | 0.00 | 4.59 | 61.36 | |
| 36-40 | 0.00 | 0.00 | 0.00 | 0.08 | 0.62 | 0.99 | 1.44 | 0.85 | 0.34 | 0.11 | 0.00 | 4.43 | 65.79 | |
| 41-45 | 0.00 | 0.00 | 0.00 | 0.22 | 0.60 | 0.77 | 1.02 | 0.57 | 0.24 | 0.03 | 0.00 | 3.44 | 69.23 | |
| 46-50 | 0.00 | 0.00 | 0.00 | 0.11 | 0.80 | 1.18 | 1.25 | 0.84 | 0.11 | 0.00 | 0.00 | 4.28 | 73.52 | |
| 51-55 | 0.00 | 0.00 | 0.00 | 0.18 | 0.89 | 1.40 | 1.34 | 0.47 | 0.05 | 0.01 | 0.00 | 4.35 | 77.87 | |
| 56-60 | 0.00 | 0.00 | 0.00 | 0.20 | 1.03 | 1.64 | 1.11 | 0.35 | 0.01 | 0.01 | 0.00 | 4.36 | 82.23 | |
| 61-65 | 0.00 | 0.00 | 0.00 | 0.28 | 1.17 | 1.56 | 0.94 | 0.28 | 0.01 | 0.00 | 0.00 | 4.24 | 86.47 | |
| 66-70 | 0.00 | 0.00 | 0.00 | 0.41 | 1.79 | 1.45 | 0.91 | 0.14 | 0.00 | 0.03 | 0.00 | 4.72 | 91.19 | |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.45 | 1.63 | 1.34 | 0.66 | 0.11 | 0.00 | 0.00 | 0.01 | 4.20 | 95.39 | |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.30 | 1.25 | 0.99 | 0.37 | 0.03 | 0.00 | 0.00 | 0.03 | 2.95 | 98.35 | |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.16 | 0.68 | 0.42 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 1.30 | 99.65 | |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.03 | 0.09 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 99.84 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 99.86 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.86 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.00 | 0.01 | 0.08 | 0.14 | 100.00 | |
| TOTAL CUMUL TOTAL | 0.01 | 0.00 | 0.00 | 2.62 | 12.78 | 17.01 | 18.37 | 14.00 | 12.98 | 22.11 | 0.12 | 100.00 | | |
| TOTAL TOTAL | 0.01 | 0.01 | 0.01 | 2.63 | 15.41 | 32.42 | 50.79 | 64.79 | 77.77 | 99.88 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7378

Table 427. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | SEPTEMBER 1950-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | TOTAL | CUMUL TOTAL |
| 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.42 | 1.53 | 2.46 | 4.37 | 5.50 | 9.45 | 0.60 | 24.39 | 24.39 |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.12 | 0.80 | 1.22 | 1.75 | 2.12 | 2.98 | 5.11 | 0.44 | 0.44 | 14.54 | 38.93 |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.07 | 0.42 | 0.81 | 0.92 | 1.11 | 1.65 | 1.62 | 0.38 | 0.38 | 6.67 | 45.59 |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.18 | 0.52 | 0.80 | 0.90 | 1.14 | 1.25 | 0.77 | 0.07 | 0.07 | 5.63 | 51.23 |
| 16-20 | 0.00 | 0.00 | 0.03 | 0.21 | 0.73 | 0.72 | 0.61 | 0.76 | 0.52 | 0.34 | 0.08 | 0.08 | 4.00 | 55.23 |
| 21-25 | 0.00 | 0.00 | 0.01 | 0.16 | 0.63 | 0.94 | 0.94 | 0.90 | 0.46 | 0.16 | 0.09 | 0.09 | 4.29 | 59.52 |
| 26-30 | 0.00 | 0.00 | 0.01 | 0.26 | 0.73 | 0.80 | 1.16 | 0.99 | 0.31 | 0.09 | 0.01 | 0.01 | 4.38 | 63.90 |
| 31-35 | 0.00 | 0.00 | 0.01 | 0.38 | 0.65 | 0.94 | 0.84 | 0.60 | 0.14 | 0.03 | 0.03 | 0.03 | 3.62 | 67.52 |
| 36-40 | 0.00 | 0.00 | 0.04 | 0.54 | 0.88 | 0.94 | 0.63 | 0.43 | 0.14 | 0.04 | 0.04 | 0.04 | 3.67 | 71.19 |
| 41-45 | 0.00 | 0.00 | 0.01 | 0.39 | 0.93 | 1.19 | 0.90 | 0.43 | 0.07 | 0.00 | 0.07 | 0.07 | 3.99 | 75.18 |
| 46-50 | 0.00 | 0.00 | 0.04 | 0.58 | 0.90 | 1.33 | 0.84 | 0.20 | 0.04 | 0.00 | 0.05 | 0.05 | 3.97 | 79.15 |
| 51-55 | 0.00 | 0.00 | 0.03 | 0.50 | 1.35 | 1.10 | 0.60 | 0.09 | 0.01 | 0.00 | 0.07 | 0.07 | 3.74 | 82.89 |
| 56-60 | 0.00 | 0.00 | 0.04 | 0.77 | 1.36 | 1.19 | 0.58 | 0.13 | 0.00 | 0.00 | 0.04 | 0.04 | 4.10 | 86.99 |
| 61-65 | 0.00 | 0.00 | 0.04 | 0.98 | 1.91 | 1.19 | 0.34 | 0.03 | 0.00 | 0.00 | 0.05 | 0.05 | 4.54 | 91.53 |
| 66-70 | 0.00 | 0.00 | 0.04 | 1.03 | 2.03 | 0.82 | 0.12 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 4.08 | 95.61 |
| 71-75 | 0.00 | 0.00 | 0.10 | 0.77 | 1.58 | 0.50 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 3.02 | 98.63 |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.39 | 0.61 | 0.17 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.19 | 99.82 |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 99.95 |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.96 |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.96 |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.96 |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.96 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.04 | 100.00 |
| TOTAL | 0.00 | 0.00 | 0.41 | 7.44 | 16.48 | 16.22 | 13.66 | 13.32 | 13.10 | 17.65 | 1.73 | 100.00 | | |
| CUMUL TOTAL | 0.00 | 0.00 | 0.41 | 7.84 | 24.33 | 40.55 | 54.21 | 67.53 | 80.63 | 98.27 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7650

| | | OCTOBER 1950-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | TOTAL | CUMUL TOTAL |
| 0 | 0.00 | 0.00 | 0.11 | 0.68 | 1.78 | 2.99 | 3.95 | 4.71 | 6.63 | 11.93 | 0.11 | 0.11 | 32.89 | 32.89 |
| 1-5 | 0.00 | 0.00 | 0.14 | 0.71 | 1.43 | 1.88 | 1.99 | 2.09 | 2.62 | 5.50 | 0.06 | 0.06 | 16.42 | 49.31 |
| 6-10 | 0.00 | 0.00 | 0.11 | 0.32 | 0.80 | 0.99 | 1.05 | 0.91 | 0.89 | 1.39 | 0.03 | 0.03 | 6.48 | 55.79 |
| 11-15 | 0.00 | 0.00 | 0.04 | 0.35 | 0.57 | 0.63 | 0.78 | 0.82 | 0.86 | 0.65 | 0.00 | 0.00 | 4.71 | 60.49 |
| 16-20 | 0.00 | 0.00 | 0.09 | 0.44 | 0.85 | 0.89 | 1.01 | 1.02 | 0.56 | 0.35 | 0.03 | 0.03 | 5.24 | 65.73 |
| 21-25 | 0.00 | 0.00 | 0.14 | 0.37 | 0.67 | 0.67 | 0.81 | 0.52 | 0.30 | 0.19 | 0.03 | 0.03 | 3.69 | 69.42 |
| 26-30 | 0.00 | 0.01 | 0.14 | 0.48 | 0.75 | 0.97 | 0.71 | 0.48 | 0.14 | 0.09 | 0.01 | 0.01 | 3.78 | 73.21 |
| 31-35 | 0.00 | 0.01 | 0.20 | 0.48 | 0.90 | 0.89 | 0.80 | 0.39 | 0.09 | 0.04 | 0.01 | 0.01 | 3.81 | 77.01 |
| 36-40 | 0.00 | 0.01 | 0.18 | 0.61 | 0.95 | 0.92 | 0.56 | 0.19 | 0.09 | 0.01 | 0.00 | 0.00 | 3.52 | 80.53 |
| 41-45 | 0.00 | 0.00 | 0.15 | 0.73 | 1.14 | 1.02 | 0.56 | 0.18 | 0.01 | 0.03 | 0.06 | 0.06 | 3.88 | 84.41 |
| 46-50 | 0.00 | 0.00 | 0.22 | 0.91 | 1.30 | 1.11 | 0.44 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 4.15 | 88.56 |
| 51-55 | 0.00 | 0.01 | 0.25 | 1.05 | 1.72 | 1.08 | 0.44 | 0.00 | 0.01 | 0.04 | 0.01 | 0.01 | 4.62 | 93.18 |
| 56-60 | 0.00 | 0.00 | 0.33 | 0.85 | 1.33 | 0.52 | 0.16 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 3.24 | 96.42 |
| 61-65 | 0.00 | 0.03 | 0.18 | 0.53 | 0.67 | 0.29 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.76 | 98.18 |
| 66-70 | 0.00 | 0.00 | 0.06 | 0.27 | 0.32 | 0.08 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.75 | 98.92 |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 98.95 |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.95 |
| MISSING | 0.00 | 0.00 | 0.09 | 0.22 | 0.06 | 0.05 | 0.10 | 0.11 | 0.16 | 0.25 | 0.00 | 1.05 | 1.05 | 100.00 |
| TOTAL | 0.00 | 0.08 | 2.43 | 9.01 | 15.23 | 14.99 | 13.43 | 11.64 | 12.36 | 20.47 | 0.37 | 100.00 | | |
| CUMUL TOTAL | 0.00 | 0.08 | 2.50 | 11.51 | 26.74 | 41.73 | 55.17 | 66.81 | 79.17 | 99.63 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7905

Table 428. Joint Percentage Frequency Distribution of Relative Humidity in Percent and Hourly Amounts of Solar Radiation on a Horizontal Surface in Langleys during the Hours 0400-2000 CST

| | | NOVEMBER 1950-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| 0 | 0.00 | 0.00 | 0.03 | 0.17 | 0.94 | 2.80 | 6.60 | 7.90 | 8.26 | 12.85 | 0.00 | 39.54 | 39.54 | |
| 1-5 | 0.00 | 0.00 | 0.01 | 0.26 | 0.90 | 2.13 | 2.98 | 3.59 | 3.29 | 6.97 | 0.00 | 20.14 | 59.69 | |
| 6-10 | 0.00 | 0.00 | 0.01 | 0.20 | 0.77 | 1.18 | 1.49 | 1.70 | 1.65 | 1.52 | 0.00 | 8.51 | 68.20 | |
| 11-15 | 0.00 | 0.00 | 0.04 | 0.18 | 0.51 | 0.99 | 1.15 | 1.23 | 0.82 | 0.60 | 0.01 | 5.54 | 73.74 | |
| 16-20 | 0.00 | 0.00 | 0.03 | 0.17 | 0.58 | 1.19 | 0.99 | 0.86 | 0.44 | 0.20 | 0.03 | 4.48 | 78.22 | |
| 21-25 | 0.00 | 0.00 | 0.03 | 0.33 | 0.86 | 1.03 | 0.86 | 0.84 | 0.22 | 0.12 | 0.01 | 4.30 | 82.52 | |
| 26-30 | 0.00 | 0.00 | 0.08 | 0.26 | 0.72 | 0.93 | 0.85 | 0.42 | 0.16 | 0.03 | 0.01 | 3.45 | 85.97 | |
| 31-35 | 0.00 | 0.00 | 0.07 | 0.29 | 0.85 | 1.14 | 0.77 | 0.44 | 0.16 | 0.01 | 0.00 | 3.73 | 89.70 | |
| 36-40 | 0.00 | 0.00 | 0.01 | 0.43 | 1.20 | 1.12 | 0.78 | 0.29 | 0.01 | 0.00 | 0.00 | 3.86 | 93.56 | |
| 41-45 | 0.00 | 0.01 | 0.07 | 0.35 | 0.98 | 1.05 | 0.59 | 0.18 | 0.01 | 0.01 | 0.00 | 3.25 | 96.81 | |
| 46-50 | 0.00 | 0.00 | 0.05 | 0.24 | 0.75 | 0.72 | 0.42 | 0.07 | 0.00 | 0.00 | 0.00 | 2.24 | 99.05 | |
| 51-55 | 0.00 | 0.00 | 0.01 | 0.10 | 0.22 | 0.14 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 99.58 | |
| 56-60 | 0.00 | 0.00 | 0.00 | 0.05 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 99.71 | |
| 61-65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.73 | |
| 66-70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.73 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.04 | 0.03 | 0.12 | 0.00 | 0.27 | 100.00 | |
| TOTAL CUMUL TOTAL | 0.00 | 0.01 | 0.43 | 3.03 | 9.35 | 14.48 | 17.59 | 17.56 | 15.06 | 22.42 | 0.07 | 100.00 | | |
| TOTAL | 0.00 | 0.01 | 0.44 | 3.48 | 12.82 | 27.31 | 44.90 | 62.46 | 77.52 | 99.93 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7650

| | | DECEMBER 1950-1964 | | | | | | | | | | | | |
|----------------------------|------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|-------------|
| SOLAR RADIATION (LANGLEYS) | | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| 0 | 0.00 | 0.00 | 0.00 | 0.06 | 0.35 | 1.39 | 3.57 | 8.01 | 11.16 | 16.20 | 0.33 | 41.08 | 41.08 | |
| 1-5 | 0.00 | 0.00 | 0.00 | 0.03 | 0.29 | 0.80 | 2.24 | 4.45 | 5.86 | 9.40 | 0.11 | 23.18 | 64.25 | |
| 6-10 | 0.00 | 0.00 | 0.00 | 0.05 | 0.25 | 0.75 | 1.30 | 1.96 | 2.15 | 2.29 | 0.04 | 8.79 | 73.04 | |
| 11-15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.18 | 0.51 | 1.16 | 1.73 | 1.34 | 0.85 | 0.05 | 5.83 | 78.87 | |
| 16-20 | 0.00 | 0.00 | 0.00 | 0.11 | 0.28 | 0.78 | 0.80 | 1.18 | 1.14 | 0.39 | 0.01 | 4.69 | 83.57 | |
| 21-25 | 0.00 | 0.00 | 0.00 | 0.10 | 0.18 | 0.76 | 1.28 | 1.05 | 0.59 | 0.10 | 0.08 | 4.14 | 87.70 | |
| 26-30 | 0.00 | 0.00 | 0.00 | 0.09 | 0.27 | 0.71 | 1.18 | 0.86 | 0.28 | 0.06 | 0.01 | 3.45 | 91.16 | |
| 31-35 | 0.00 | 0.00 | 0.01 | 0.13 | 0.37 | 0.83 | 1.18 | 0.73 | 0.20 | 0.03 | 0.06 | 3.54 | 94.70 | |
| 36-40 | 0.00 | 0.00 | 0.00 | 0.11 | 0.39 | 0.87 | 0.87 | 0.72 | 0.11 | 0.01 | 0.06 | 3.16 | 97.86 | |
| 41-45 | 0.00 | 0.00 | 0.00 | 0.05 | 0.19 | 0.44 | 0.51 | 0.46 | 0.05 | 0.00 | 0.01 | 1.71 | 99.57 | |
| 46-50 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.08 | 0.13 | 0.13 | 0.01 | 0.00 | 0.04 | 0.40 | 99.97 | |
| 51-55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 100.00 | |
| 56-60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 61-65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 66-70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 71-75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 76-80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 81-85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 86-90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100.00 | |
| TOTAL CUMUL TOTAL | 0.00 | 0.00 | 0.01 | 0.76 | 2.76 | 7.92 | 14.22 | 21.29 | 22.90 | 29.34 | 0.81 | 100.00 | | |
| TOTAL | 0.00 | 0.00 | 0.01 | 0.77 | 3.53 | 11.45 | 25.67 | 46.96 | 69.85 | 99.19 | 100.00 | | | |

NUMBER OF OBSERVATIONS = 7905

Table 429. Joint Percentage Frequency Distribution of Relative Humidity
in Percent and Hourly Amounts of Solar Radiation on a Horizontal
Surface in Langleys during the Hours 0400-2000 CST.
September 1950-December 1964

| SOLAR RADIATION (LANGLEYS) | RELATIVE HUMIDITY IN PERCENT | | | | | | | | | | | TOTAL | CUMUL TOTAL |
|----------------------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|--------|----------------|
| | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | MISSING | | |
| 0 | 0.00 | 0.00 | 0.02 | 0.16 | 0.57 | 1.41 | 3.05 | 4.74 | 6.19 | 10.87 | 0.15 | 27.16 | 27.16 |
| 1-5 | 0.00 | 0.00 | 0.02 | 0.23 | 0.66 | 1.24 | 2.01 | 2.75 | 3.32 | 6.62 | 0.11 | 16.97 | 44.12 |
| 6-10 | 0.00 | 0.00 | 0.02 | 0.13 | 0.43 | 0.77 | 1.13 | 1.36 | 1.64 | 2.07 | 0.03 | 7.59 | 51.71 |
| 11-15 | 0.00 | 0.00 | 0.02 | 0.14 | 0.38 | 0.61 | 0.98 | 1.13 | 1.12 | 0.97 | 0.03 | 5.39 | 57.10 |
| 16-20 | 0.00 | 0.00 | 0.03 | 0.18 | 0.49 | 0.76 | 0.94 | 1.03 | 0.88 | 0.53 | 0.03 | 4.87 | 61.97 |
| 21-25 | 0.00 | 0.00 | 0.03 | 0.20 | 0.54 | 0.79 | 1.00 | 0.94 | 0.56 | 0.28 | 0.03 | 4.37 | 66.34 |
| 26-30 | 0.00 | 0.00 | 0.04 | 0.20 | 0.52 | 0.79 | 0.99 | 0.81 | 0.38 | 0.15 | 0.01 | 3.91 | 70.25 |
| 31-35 | 0.00 | 0.00 | 0.06 | 0.23 | 0.55 | 0.86 | 0.88 | 0.61 | 0.27 | 0.07 | 0.03 | 3.57 | 73.82 |
| 36-40 | 0.00 | 0.00 | 0.04 | 0.29 | 0.68 | 0.87 | 0.86 | 0.58 | 0.18 | 0.06 | 0.02 | 3.57 | 77.39 |
| 41-45 | 0.00 | 0.00 | 0.05 | 0.30 | 0.68 | 0.92 | 0.85 | 0.46 | 0.13 | 0.03 | 0.03 | 3.44 | 80.83 |
| 46-50 | 0.00 | 0.00 | 0.06 | 0.29 | 0.65 | 0.86 | 0.64 | 0.30 | 0.07 | 0.00 | 0.02 | 2.89 | 83.72 |
| 51-55 | 0.00 | 0.00 | 0.06 | 0.34 | 0.71 | 0.80 | 0.56 | 0.22 | 0.05 | 0.01 | 0.01 | 2.76 | 86.48 |
| 56-60 | 0.00 | 0.00 | 0.07 | 0.38 | 0.79 | 0.73 | 0.53 | 0.16 | 0.03 | 0.01 | 0.01 | 2.71 | 89.19 |
| 61-65 | 0.00 | 0.00 | 0.07 | 0.37 | 0.73 | 0.70 | 0.38 | 0.11 | 0.01 | 0.00 | 0.01 | 2.40 | 91.60 |
| 66-70 | 0.00 | 0.00 | 0.06 | 0.41 | 0.77 | 0.60 | 0.31 | 0.09 | 0.01 | 0.00 | 0.01 | 2.25 | 93.85 |
| 71-75 | 0.00 | 0.00 | 0.06 | 0.40 | 0.79 | 0.49 | 0.25 | 0.05 | 0.01 | 0.00 | 0.01 | 2.65 | 95.90 |
| 76-80 | 0.00 | 0.00 | 0.08 | 0.37 | 0.62 | 0.43 | 0.15 | 0.03 | 0.01 | 0.00 | 0.01 | 1.70 | 97.60 |
| 81-85 | 0.00 | 0.00 | 0.06 | 0.30 | 0.45 | 0.24 | 0.08 | 0.00 | 0.00 | 0.00 | 0.01 | 1.14 | 98.74 |
| 86-90 | 0.00 | 0.00 | 0.02 | 0.14 | 0.18 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 99.18 |
| 91-95 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 99.26 |
| 96-100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 99.26 |
| >100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 99.26 |
| MISSING | 0.00 | 0.00 | 0.01 | 0.07 | 0.06 | 0.10 | 0.08 | 0.07 | 0.07 | 0.10 | 0.19 | 0.74 | 100.00 |
| TOTAL CUMUL | 0.00 | 0.03 | 0.88 | 5.17 | 11.29 | 14.07 | 15.70 | 15.44 | 14.92 | 21.77 | 0.73 | 100.00 | |
| TOTAL | 0.00 | 0.03 | 0.91 | 6.08 | 17.37 | 31.43 | 47.14 | 62.58 | 77.50 | 99.27 | 100.00 | | |

NUMBER OF OBSERVATIONS = 89012

Part III

X
**COMPARISON OF METEOROLOGICAL PARAMETERS AT CHICAGO
 MIDWAY AIRPORT AND O'HARE INTERNATIONAL AIRPORT
 WITH THOSE AT ARGONNE METEOROLOGY SITE**

In this section, air temperature, relative humidity and dewpoint temperature, wind speed and direction, station pressure and precipitation amount measured at the Argonne Site are compared with corresponding measurements made at Chicago Midway Airport (the official Chicago station) and O'Hare International Airport for comparable observation times. Figure 56 presents an outline of the periods of record and elevation of instruments at each station.

Figure 56. Instrument Location and Period of Record for Argonne Meteorology Site, Chicago Midway Airport and O'Hare International Airport

| Station | Location | Period of Record | Latitude | Longitude | Ground | Barometer | Wind Instruments | Extreme Thermometers | Hygrothermometer | Temperature Thermocouple | Psychrometer | Remarks |
|------------------------------|---|---------------------|-----------|------------|--------|-----------|------------------|----------------------|------------------|--------------------------|--------------|---|
| Argonne National Laboratory | Argonne, Illinois | 7-1-49 to present | 41°42'3"N | 87°59'24"W | 743 | 746 | 19 | 5.5 | 5 | 5.5 | | Heights are for Argonne instruments measuring comparable data |
| Chicago Midway Airport | Municipal Bldg. 6200 S. Cicero Chicago, Illinois | 11-3-32 to present | 41°46.8'N | 87°44.6'W | 610 | 614 | 48 | 5 | | | 5 | Wind instruments 36 feet until 7-29-49, then 38 feet until 4-14-58 |
| O'Hare International Airport | Park Ridge, Illinois Air Force Base | 10-1-46 to 10-31-58 | 41°59'N | 87°54'W | 657 | 667 | 79 | | | | | Wind instruments 65 feet until 12-8-60; extreme thermometers 41 feet until 12-1-60; Hygrothermometer in operation 12-1-60 |
| | Penthouse International Terminal Bldg. O'Hare Airport Chicago, Illinois | 11-1-58 to present | 41°59'N | 87°54'W | 658 | 691 | 20 | 4 | 4 | | | |

The Chicago Midway Airport is located about nine miles from the shores of Lake Michigan in an urban area. O'Hare International Airport and the Argonne Site are both located in rural areas but O'Hare is 20 miles north of Argonne. Figure 1 of Appendix II shows the location of the Argonne Site with respect to Midway Airport, O'Hare Airport and Lake Michigan. The comparison data reflect differences caused by rural and urban features. Further information on the locations and collection of data at Midway and O'Hare Airports can be found in Climatic Guide for Chicago, Illinois Area.¹³ The techniques of measurement for the Argonne data are given in the appropriate sections of Part I; for the Chicago data see Circular N.¹⁷

When the term "the differences between the variables" is used, it refers to the value of the Chicago station variable minus the corresponding value of the Argonne variable.

Section 3.1

Air Temperature Comparisons

Tables 430 through 442. Joint Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at the Chicago stations and Argonne Meteorology Site and Temperature ($^{\circ}\text{F}$) at Argonne Meteorology Site. Monthly and Total Period. January 1950–December 1964.

The Argonne observations represent readings taken at 20 minutes past the hour until 0000 GMT, June 1, 1957. After this time the readings are taken at 10 minutes before the hour. Temperature differences arise because of the difference in observation time and for a variety of other reasons. Some of these are: transitional meteorological conditions such as frontal passages, lake breezes, precipitation at only one of the stations, thunderstorms and differences in instrument exposure.

A comparison between Midway and Argonne indicates that the temperature was equal to or higher at Midway 90 percent of the time. There are many reasons for this positive temperature difference. First, the nature of the terrain is different. Midway is surrounded by brick and concrete structures which become warmer on sunny days than the vegetative cover of the Argonne Site. Second, the pollution of the air around Midway is much greater. The pall around the urban area cuts down the amount of outgoing terrestrial radiation at night, thus keeping the city climate warmer than the surrounding areas. Third, there are innumerable heat sources within the city.

The comparison between the Argonne and O'Hare Sites indicates that the temperatures were equal or higher at O'Hare 68 percent of the time, compared to 90 percent for Midway. Fifteen percent of the readings at O'Hare and 43 percent of those at Midway exceed those at Argonne by more than 3°F .

Tables 443 through 455. Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. Monthly and Total Period. January 1950–December 1964.

These tables present the frequency of occurrence of air temperature differences for each hour of the day. The greatest temperature differences between Argonne and the Chicago stations usually occur in the afternoon and late evening, with the Chicago temperatures higher. Frontal passages or thunderstorms are sufficient to account for large differences. The cases with higher temperature readings at Argonne occurred most frequently in the early afternoon for the Midway comparison but in the very early morning for the O'Hare comparison.

Tables 456 and 457. Monthly Average Temperatures ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

The monthly average temperature was higher at Midway than at Argonne each month. Differences ranged from 1°F on three occasions to 6°F on two. The modal difference was 3°F with 78 cases and the mean was 3.3°F . Over 90% of the Argonne-Midway differences ranged from 2 to 4°F .

Means for O'Hare were closer to those of Argonne. During four months Argonne's mean monthly temperature was higher by 1°F , and during 17 months it was the same. The modal difference was 1°F , and the mean was 1.3°F , with the O'Hare temperatures the higher. About 85% of the Argonne-O'Hare differences ranged from 0 to 2°F .

Table 458. Percentage Frequency Distribution of the Difference in the Daily Maximum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

Table 459. Percentage Frequency Distribution of the Difference in the Daily Minimum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

These tables show that, usually, the maximum and minimum temperatures at Midway and O'Hare Airports are higher than at Argonne. The modal values of the Midway minus Argonne daily maximum and minimum temperature is $+3^{\circ}\text{F}$. The O'Hare minus Argonne daily maximum and minimum have modal values of 1 and 2°F respectively. The daily minimum temperature was lower at Argonne 98 percent of the days compared to Midway and 78 percent of the days compared to O'Hare.

Tables 460 and 461. Monthly Maximum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

Tables 462 and 463. Monthly Minimum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

These tables present the maximum and minimum temperatures observed at the three stations and the difference between these extremes at the two Chicago stations and the Argonne Site. These extremes need not have occurred on the same date. The highest temperatures observed in the 15-year period are 104°F at Midway, 102°F at O'Hare and 101°F at Argonne. Temperatures reached 100°F on seven days at Midway, three at O'Hare and only one at Argonne. The lowest temperatures are -15°F at Midway, -22°F at O'Hare and -20°F at Argonne.

Tables 464 and 465. Monthly Average of the Daily Maximum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

Tables 466 and 467. Monthly Average of the Daily Minimum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.

The greatest difference between the average daily maximum temperatures at Midway and Argonne is 6°F and occurred in October 1961. The greatest difference between the average daily minimum temperatures at Midway and Argonne is 7°F and occurred in six different months.

The difference in the monthly averages of both daily maxima and minima between O'Hare and Argonne are significantly smaller than those between Midway and Argonne.

Tables 468 through 471. Joint Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site and Argonne Wind Speed (mph) for Indicated Argonne Wind Direction. Total Period. January 1950-December 1964.

Tables 468 and 471 containing Midway and Argonne data, together consist of nine sections. In each of the first eight sections table entries are percentages based on the number of hourly observations with Argonne wind from the indicated directions. For example, in the second section of Table 459, 1.72 percent of the observations recorded with an Argonne wind direction from the northeast have a Midway minus Argonne air temperature difference of 4°F and an Argonne wind speed in the 0 to 3-mph category. The last section presents a distribution of the temperature differences which occur when the Argonne wind speed is in the interval 0 to 3 mph irrespective of wind direction.

Tables 470 and 471 present comparable data based on O'Hare minus Argonne temperature differences. The data indicate that for nearly all directions, the Midway-Argonne temperature difference is inversely related to wind speed. This effect is not as pronounced in the O'Hare data.

Table 430. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site.
January 1950-1964

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.04 | 0.04 | 0.03 | 0.02 | 0.03 | 0.03 | 0.00 | 0.28 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.12 | 0.15 | 0.14 | 0.11 | 0.10 | 0.05 | 0.09 | 0.12 | 0.00 | 0.92 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.13 | 0.15 | 0.10 | 0.20 | 0.30 | 0.21 | 0.16 | 0.15 | 0.24 | 0.00 | 1.72 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.09 | 0.12 | 0.14 | 0.26 | 0.39 | 0.54 | 0.47 | 0.40 | 0.41 | 0.26 | 0.50 | 0.00 | 3.64 |
| 0--4 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.04 | 0.09 | 0.24 | 0.46 | 0.66 | 0.82 | 0.89 | 0.96 | 0.86 | 0.66 | 0.65 | 0.00 | 6.35 |
| 5--9 | 0.00 | 0.00 | 0.02 | 0.00 | 0.04 | 0.04 | 0.16 | 0.39 | 0.56 | 0.77 | 0.90 | 1.09 | 0.94 | 0.83 | 0.61 | 0.58 | 0.00 | 6.93 |
| 10--14 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.12 | 0.25 | 0.36 | 0.73 | 0.91 | 1.19 | 1.33 | 1.25 | 0.98 | 0.61 | 0.46 | 0.00 | 8.21 |
| 15--19 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.13 | 0.25 | 0.49 | 0.70 | 1.37 | 2.09 | 1.63 | 1.59 | 1.10 | 0.74 | 0.71 | 0.00 | 10.87 |
| 20--24 | 0.00 | 0.01 | 0.03 | 0.02 | 0.08 | 0.05 | 0.35 | 0.56 | 1.30 | 1.89 | 3.07 | 2.25 | 1.75 | 0.96 | 0.56 | 0.69 | 0.00 | 13.57 |
| 25--29 | 0.01 | 0.02 | 0.02 | 0.04 | 0.06 | 0.17 | 0.38 | 0.79 | 1.62 | 2.93 | 4.34 | 3.44 | 2.22 | 1.01 | 0.31 | 0.31 | 0.00 | 17.68 |
| 30--34 | 0.01 | 0.01 | 0.03 | 0.04 | 0.12 | 0.22 | 0.30 | 0.67 | 1.94 | 3.75 | 5.09 | 2.98 | 1.46 | 0.47 | 0.14 | 0.16 | 0.00 | 17.41 |
| 35--39 | 0.01 | 0.00 | 0.00 | 0.06 | 0.13 | 0.23 | 0.29 | 0.66 | 1.18 | 1.57 | 1.46 | 0.78 | 0.43 | 0.15 | 0.06 | 0.16 | 0.00 | 7.18 |
| 40--44 | 0.02 | 0.00 | 0.00 | 0.07 | 0.08 | 0.11 | 0.24 | 0.54 | 0.42 | 0.45 | 0.44 | 0.22 | 0.10 | 0.08 | 0.02 | 0.05 | 0.00 | 2.84 |
| 45--49 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.10 | 0.23 | 0.27 | 0.15 | 0.08 | 0.10 | 0.04 | 0.03 | 0.02 | 0.01 | 0.00 | 1.13 |
| 50--54 | 0.00 | 0.01 | 0.00 | 0.01 | 0.02 | 0.04 | 0.04 | 0.16 | 0.15 | 0.13 | 0.13 | 0.04 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.75 |
| 55--59 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.04 | 0.02 | 0.06 | 0.08 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.24 |
| 60--64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| 65--69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 70--74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75--79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80--84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.05 | 0.04 | 0.10 | 0.31 | 0.71 | 1.33 | 2.63 | 5.44 | 9.93 | 15.39 | 20.62 | 15.69 | 11.51 | 7.12 | 4.27 | 4.69 | 0.18 | |

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.01 | 0.01 | 0.01 | 0.08 | 0.06 | 0.02 | 0.01 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.28 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.04 | 0.09 | 0.15 | 0.19 | 0.21 | 0.12 | 0.04 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.92 |
| -10--6 | 0.00 | 0.00 | 0.03 | 0.04 | 0.02 | 0.12 | 0.13 | 0.22 | 0.29 | 0.30 | 0.25 | 0.13 | 0.04 | 0.09 | 0.03 | 0.04 | 0.00 | 1.72 |
| -5--1 | 0.02 | 0.00 | 0.03 | 0.07 | 0.12 | 0.22 | 0.30 | 0.47 | 0.65 | 0.66 | 0.56 | 0.14 | 0.16 | 0.13 | 0.04 | 0.07 | 0.00 | 3.64 |
| 0--4 | 0.08 | 0.04 | 0.07 | 0.07 | 0.17 | 0.25 | 0.47 | 0.60 | 1.21 | 1.34 | 0.85 | 0.53 | 0.27 | 0.14 | 0.12 | 0.14 | 0.00 | 6.35 |
| 5--9 | 0.03 | 0.02 | 0.01 | 0.06 | 0.12 | 0.41 | 0.49 | 0.85 | 1.32 | 1.20 | 1.01 | 0.61 | 0.46 | 0.17 | 0.09 | 0.08 | 0.00 | 6.93 |
| 10--14 | 0.01 | 0.07 | 0.06 | 0.13 | 0.29 | 0.39 | 0.57 | 0.98 | 1.21 | 1.49 | 1.40 | 0.93 | 0.39 | 0.13 | 0.11 | 0.04 | 0.00 | 8.21 |
| 15--19 | 0.04 | 0.02 | 0.09 | 0.13 | 0.22 | 0.39 | 0.70 | 1.05 | 1.44 | 2.34 | 2.20 | 1.15 | 0.60 | 0.25 | 0.15 | 0.10 | 0.00 | 10.87 |
| 20--24 | 0.09 | 0.03 | 0.09 | 0.20 | 0.16 | 0.42 | 0.84 | 1.51 | 2.52 | 2.98 | 2.20 | 1.20 | 0.74 | 0.36 | 0.11 | 0.13 | 0.00 | 13.57 |
| 25--29 | 0.13 | 0.04 | 0.09 | 0.12 | 0.18 | 0.34 | 0.91 | 1.83 | 3.84 | 4.63 | 3.19 | 1.56 | 0.52 | 0.18 | 0.07 | 0.05 | 0.00 | 17.68 |
| 30--34 | 0.04 | 0.04 | 0.04 | 0.11 | 0.22 | 0.59 | 1.07 | 2.37 | 4.74 | 4.82 | 2.14 | 0.77 | 0.30 | 0.12 | 0.03 | 0.03 | 0.00 | 17.41 |
| 35--39 | 0.03 | 0.01 | 0.06 | 0.05 | 0.26 | 0.46 | 0.96 | 1.50 | 1.55 | 1.39 | 0.62 | 0.12 | 0.05 | 0.06 | 0.03 | 0.04 | 0.00 | 7.18 |
| 40--44 | 0.04 | 0.03 | 0.06 | 0.12 | 0.22 | 0.34 | 0.55 | 0.47 | 0.47 | 0.24 | 0.19 | 0.04 | 0.04 | 0.03 | 0.00 | 0.01 | 0.00 | 2.84 |
| 45--49 | 0.05 | 0.01 | 0.01 | 0.03 | 0.09 | 0.15 | 0.11 | 0.31 | 0.19 | 0.09 | 0.02 | 0.03 | 0.02 | 0.01 | 0.00 | 0.02 | 0.00 | 1.13 |
| 50--54 | 0.02 | 0.02 | 0.04 | 0.01 | 0.03 | 0.08 | 0.12 | 0.15 | 0.11 | 0.15 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.75 |
| 55--59 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.01 | 0.02 | 0.04 | 0.03 | 0.04 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 |
| 60--64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.04 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 |
| 65--69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 70--74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75--79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80--84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.57 | 0.32 | 0.68 | 1.19 | 2.17 | 4.25 | 7.34 | 12.55 | 19.85 | 21.96 | 14.80 | 7.28 | 3.64 | 1.69 | 0.77 | 0.74 | 0.18 | |

Table 431. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. February 1950-1964

NUMBER OF OBSERVATIONS 10176

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | MISSING | TOTAL | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|---------|-------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | ≥ 8 | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.03 | 0.02 | 0.05 | 0.06 | 0.00 | 0.00 | 0.03 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.01 | 0.04 | 0.15 | 0.03 | 0.10 | 0.04 | 0.10 | 0.15 | 0.35 | 0.00 | 0.00 | 1.00 |
| -5--1 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.02 | 0.06 | 0.08 | 0.14 | 0.19 | 0.33 | 0.23 | 0.32 | 0.27 | 0.22 | 0.32 | 0.00 | 0.00 | 2.22 |
| 0-4 | 0.06 | 0.01 | 0.01 | 0.04 | 0.02 | 0.06 | 0.16 | 0.18 | 0.16 | 0.18 | 0.30 | 0.29 | 0.37 | 0.26 | 0.42 | 0.56 | 0.00 | 0.00 | 3.08 |
| 5-9 | 0.06 | 0.01 | 0.02 | 0.07 | 0.06 | 0.11 | 0.21 | 0.20 | 0.18 | 0.20 | 0.34 | 0.23 | 0.55 | 0.46 | 0.43 | 0.57 | 0.00 | 0.00 | 3.69 |
| 10-14 | 0.02 | 0.01 | 0.05 | 0.06 | 0.05 | 0.09 | 0.17 | 0.30 | 0.35 | 0.57 | 0.62 | 0.79 | 0.76 | 0.81 | 0.52 | 0.64 | 0.00 | 0.00 | 5.80 |
| 15-19 | 0.02 | 0.00 | 0.04 | 0.06 | 0.09 | 0.14 | 0.25 | 0.31 | 0.51 | 0.88 | 1.12 | 1.20 | 1.65 | 1.15 | 0.61 | 0.56 | 0.00 | 0.00 | 8.59 |
| 20-24 | 0.04 | 0.03 | 0.07 | 0.04 | 0.08 | 0.15 | 0.35 | 0.52 | 1.15 | 2.18 | 3.01 | 2.52 | 2.32 | 1.33 | 0.74 | 0.45 | 0.00 | 0.00 | 14.97 |
| 25-29 | 0.00 | 0.01 | 0.02 | 0.04 | 0.07 | 0.38 | 0.68 | 1.00 | 1.86 | 3.66 | 4.49 | 2.81 | 1.72 | 1.04 | 0.43 | 0.40 | 0.01 | 0.00 | 18.62 |
| 30-34 | 0.00 | 0.00 | 0.02 | 0.06 | 0.11 | 0.22 | 0.58 | 1.55 | 2.95 | 5.52 | 6.01 | 3.63 | 1.65 | 0.82 | 0.32 | 0.34 | 0.01 | 0.00 | 23.79 |
| 35-39 | 0.01 | 0.01 | 0.03 | 0.04 | 0.13 | 0.20 | 0.34 | 0.92 | 1.30 | 1.81 | 2.06 | 1.25 | 1.65 | 0.82 | 0.32 | 0.34 | 0.01 | 0.00 | 23.79 |
| 40-44 | 0.00 | 0.02 | 0.02 | 0.05 | 0.13 | 0.19 | 0.23 | 0.45 | 0.54 | 0.91 | 0.80 | 0.48 | 0.38 | 0.18 | 0.17 | 0.11 | 0.00 | 0.00 | 9.57 |
| 45-49 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.11 | 0.15 | 0.18 | 0.38 | 0.47 | 0.25 | 0.14 | 0.10 | 0.05 | 0.03 | 0.00 | 0.00 | 4.65 |
| 50-54 | 0.01 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.05 | 0.09 | 0.07 | 0.18 | 0.17 | 0.08 | 0.06 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 1.93 |
| 55-59 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.07 | 0.15 | 0.10 | 0.04 | 0.03 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.44 |
| 60-64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.03 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.44 |
| 65-69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 |
| 70-74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| 75-79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80-84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.22 | 0.10 | 0.28 | 0.50 | 0.80 | 1.63 | 3.23 | 5.81 | 9.52 | 17.01 | 19.87 | 13.92 | 10.59 | 6.94 | 4.39 | 4.66 | 0.51 | 0.00 | 0.00 |

NUMBER OF OBSERVATIONS 10176

| ARGONNE TEMPERATURE (°F) | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | MISSING | TOTAL | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | ≥ 8 | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.02 | 0.02 | 0.04 | 0.05 | 0.01 | 0.06 | 0.09 | 0.07 | 0.15 | 0.25 | 0.08 | 0.13 | 0.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.22 |
| -5--1 | 0.01 | 0.03 | 0.02 | 0.04 | 0.09 | 0.07 | 0.22 | 0.30 | 0.31 | 0.37 | 0.35 | 0.22 | 0.06 | 0.06 | 0.02 | 0.05 | 0.00 | 0.00 | 1.00 |
| 0-4 | 0.08 | 0.05 | 0.02 | 0.04 | 0.09 | 0.20 | 0.24 | 0.39 | 0.50 | 0.41 | 0.54 | 0.31 | 0.06 | 0.07 | 0.03 | 0.01 | 0.00 | 0.00 | 2.22 |
| 5-9 | 0.06 | 0.05 | 0.03 | 0.11 | 0.14 | 0.19 | 0.23 | 0.41 | 0.55 | 0.69 | 0.50 | 0.37 | 0.19 | 0.05 | 0.01 | 0.12 | 0.00 | 0.00 | 3.08 |
| 10-14 | 0.05 | 0.07 | 0.05 | 0.04 | 0.13 | 0.22 | 0.18 | 0.64 | 0.79 | 0.95 | 1.04 | 0.85 | 0.33 | 0.16 | 0.12 | 0.18 | 0.00 | 0.00 | 3.69 |
| 15-19 | 0.14 | 0.07 | 0.16 | 0.16 | 0.19 | 0.26 | 0.51 | 0.86 | 1.24 | 1.99 | 1.45 | 0.79 | 0.47 | 0.17 | 0.10 | 0.05 | 0.00 | 0.00 | 5.80 |
| 20-24 | 0.15 | 0.10 | 0.17 | 0.12 | 0.15 | 0.31 | 0.63 | 1.55 | 3.10 | 3.74 | 2.48 | 1.38 | 0.67 | 0.27 | 0.09 | 0.08 | 0.00 | 0.00 | 8.59 |
| 25-29 | 0.05 | 0.06 | 0.04 | 0.13 | 0.30 | 0.37 | 1.01 | 2.28 | 4.60 | 5.30 | 2.89 | 1.08 | 0.27 | 0.06 | 0.07 | 0.10 | 0.02 | 0.00 | 14.97 |
| 30-34 | 0.03 | 0.00 | 0.05 | 0.18 | 0.28 | 0.60 | 1.30 | 3.53 | 6.81 | 6.89 | 2.81 | 0.97 | 0.28 | 0.05 | 0.02 | 0.00 | 0.01 | 0.00 | 18.62 |
| 35-39 | 0.00 | 0.00 | 0.04 | 0.09 | 0.30 | 0.53 | 1.08 | 1.77 | 2.56 | 1.86 | 0.86 | 0.28 | 0.11 | 0.04 | 0.04 | 0.01 | 0.00 | 0.00 | 23.79 |
| 40-44 | 0.02 | 0.02 | 0.06 | 0.07 | 0.27 | 0.27 | 0.69 | 0.80 | 0.96 | 0.73 | 0.43 | 0.19 | 0.12 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 9.57 |
| 45-49 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.13 | 0.25 | 0.38 | 0.38 | 0.40 | 0.19 | 0.04 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 4.65 |
| 50-54 | 0.02 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.14 | 0.19 | 0.20 | 0.10 | 0.04 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.00 | 1.93 |
| 55-59 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.08 | 0.11 | 0.13 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 |
| 60-64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 |
| 65-69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 |
| 70-74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| 75-79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80-84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.60 | 0.46 | 0.65 | 1.12 | 2.06 | 3.24 | 6.60 | 13.40 | 22.26 | 23.66 | 13.88 | 6.65 | 2.73 | 0.92 | 0.58 | 0.63 | 0.54 | 0.00 | 0.00 |

Table 432. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site.
March 1950-1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|
| | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.01 | 0.02 | 0.01 | 0.03 | 0.02 | 0.03 | 0.02 | 0.06 | 0.00 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.03 | 0.03 | 0.11 | 0.25 | 0.22 | 0.07 | 0.19 | 0.27 | 0.00 | 1.23 |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.14 | 0.17 | 0.34 | 0.30 | 0.37 | 0.34 | 0.28 | 0.39 | 0.00 | 2.40 |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.09 | 0.13 | 0.30 | 0.69 | 0.79 | 0.80 | 0.80 | 0.75 | 0.35 | 0.46 | 0.00 | 5.20 |
| 20- 24 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.10 | 0.18 | 0.32 | 0.67 | 1.37 | 1.63 | 1.47 | 1.27 | 1.21 | 0.79 | 0.50 | 0.00 | 9.56 |
| 25- 29 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.15 | 0.34 | 0.80 | 1.34 | 2.38 | 3.09 | 3.14 | 2.01 | 1.22 | 0.65 | 0.60 | 0.00 | 15.78 |
| 30- 34 | 0.00 | 0.00 | 0.00 | 0.05 | 0.15 | 0.38 | 0.59 | 1.47 | 3.07 | 4.99 | 5.60 | 4.29 | 2.53 | 1.23 | 0.80 | 0.68 | 0.00 | 25.83 |
| 35- 39 | 0.01 | 0.03 | 0.04 | 0.11 | 0.29 | 0.37 | 0.83 | 1.22 | 2.28 | 2.78 | 2.85 | 1.85 | 1.32 | 0.69 | 0.60 | 0.50 | 0.00 | 15.75 |
| 40- 44 | 0.01 | 0.00 | 0.09 | 0.21 | 0.25 | 0.61 | 0.73 | 0.72 | 1.01 | 1.55 | 1.23 | 0.79 | 0.71 | 0.39 | 0.21 | 0.42 | 0.00 | 8.92 |
| 45- 49 | 0.01 | 0.04 | 0.12 | 0.14 | 0.27 | 0.38 | 0.47 | 0.55 | 0.76 | 0.91 | 0.91 | 0.61 | 0.42 | 0.26 | 0.14 | 0.22 | 0.00 | 6.21 |
| 50- 54 | 0.04 | 0.03 | 0.03 | 0.11 | 0.12 | 0.22 | 0.25 | 0.30 | 0.47 | 0.65 | 0.67 | 0.44 | 0.30 | 0.18 | 0.13 | 0.16 | 0.00 | 4.12 |
| 55- 59 | 0.04 | 0.01 | 0.04 | 0.05 | 0.12 | 0.12 | 0.11 | 0.15 | 0.21 | 0.41 | 0.18 | 0.22 | 0.17 | 0.09 | 0.06 | 0.10 | 0.00 | 2.08 |
| 60- 64 | 0.03 | 0.01 | 0.01 | 0.04 | 0.05 | 0.07 | 0.06 | 0.13 | 0.05 | 0.08 | 0.08 | 0.07 | 0.10 | 0.08 | 0.06 | 0.04 | 0.00 | 0.92 |
| 65- 69 | 0.02 | 0.00 | 0.01 | 0.00 | 0.02 | 0.02 | 0.04 | 0.08 | 0.07 | 0.05 | 0.08 | 0.04 | 0.04 | 0.03 | 0.00 | 0.02 | 0.00 | 0.52 |
| 70- 74 | 0.02 | 0.01 | 0.03 | 0.00 | 0.02 | 0.02 | 0.01 | 0.06 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 |
| 75- 79 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 80- 84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85- 89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90- 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.18 | 0.12 | 0.36 | 0.73 | 1.40 | 2.46 | 3.78 | 6.03 | 10.45 | 16.15 | 17.65 | 14.35 | 10.35 | 6.59 | 4.29 | 4.53 | 0.59 | |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.04 | 0.03 | 0.02 | 0.00 | 0.04 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.06 | 0.08 | 0.13 | 0.00 | 0.03 | 0.02 | 0.01 | 0.00 | 0.01 | 0.39 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.13 | 0.26 | 0.26 | 0.22 | 0.13 | 0.05 | 0.01 | 0.03 | 0.00 | 1.23 |
| 10- 14 | 0.04 | 0.04 | 0.01 | 0.01 | 0.01 | 0.08 | 0.07 | 0.35 | 0.30 | 0.42 | 0.39 | 0.36 | 0.18 | 0.06 | 0.04 | 0.05 | 0.00 | 2.40 |
| 15- 19 | 0.00 | 0.01 | 0.00 | 0.03 | 0.04 | 0.09 | 0.27 | 0.56 | 0.92 | 0.87 | 0.99 | 0.75 | 0.29 | 0.14 | 0.17 | 0.07 | 0.00 | 5.20 |
| 20- 24 | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 | 0.25 | 0.66 | 1.14 | 1.87 | 2.18 | 1.55 | 1.01 | 0.39 | 0.23 | 0.11 | 0.03 | 0.00 | 9.56 |
| 25- 29 | 0.00 | 0.01 | 0.01 | 0.07 | 0.13 | 0.47 | 0.93 | 1.76 | 3.02 | 4.07 | 3.06 | 1.49 | 0.50 | 0.22 | 0.02 | 0.02 | 0.00 | 15.78 |
| 30- 34 | 0.00 | 0.01 | 0.03 | 0.07 | 0.19 | 0.57 | 1.08 | 3.50 | 6.97 | 7.20 | 3.88 | 1.52 | 0.56 | 0.14 | 0.04 | 0.07 | 0.00 | 25.83 |
| 35- 39 | 0.01 | 0.01 | 0.10 | 0.12 | 0.31 | 0.80 | 1.59 | 3.21 | 3.54 | 2.99 | 1.67 | 0.87 | 0.32 | 0.14 | 0.06 | 0.02 | 0.00 | 15.75 |
| 40- 44 | 0.03 | 0.07 | 0.15 | 0.22 | 0.55 | 0.82 | 1.23 | 1.57 | 1.64 | 1.22 | 0.76 | 0.42 | 0.12 | 0.04 | 0.05 | 0.02 | 0.00 | 8.92 |
| 45- 49 | 0.13 | 0.09 | 0.15 | 0.22 | 0.38 | 0.50 | 0.67 | 0.95 | 1.06 | 0.90 | 0.67 | 0.33 | 0.12 | 0.03 | 0.01 | 0.00 | 0.00 | 6.21 |
| 50- 54 | 0.11 | 0.03 | 0.08 | 0.11 | 0.17 | 0.27 | 0.35 | 0.63 | 0.85 | 0.65 | 0.46 | 0.25 | 0.09 | 0.04 | 0.02 | 0.01 | 0.01 | 4.12 |
| 55- 59 | 0.10 | 0.04 | 0.02 | 0.04 | 0.04 | 0.11 | 0.18 | 0.26 | 0.43 | 0.40 | 0.30 | 0.13 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 2.08 |
| 60- 64 | 0.06 | 0.01 | 0.00 | 0.00 | 0.04 | 0.06 | 0.07 | 0.10 | 0.22 | 0.16 | 0.07 | 0.09 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.92 |
| 65- 69 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.05 | 0.03 | 0.14 | 0.02 | 0.12 | 0.08 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 |
| 70- 74 | 0.04 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.04 | 0.04 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 |
| 75- 79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 80- 84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85- 89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90- 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.52 | 0.31 | 0.58 | 0.92 | 2.00 | 4.16 | 7.20 | 14.27 | 21.11 | 21.59 | 14.29 | 7.54 | 2.82 | 1.20 | 0.54 | 0.33 | 0.61 | |

Table 433. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site
April 1950-1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|------|
| | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0--4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5--9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10--14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15--19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.06 | 0.03 | 0.06 | 0.02 | 0.00 | 0.01 |
| 20--24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.06 | 0.16 | 0.18 | 0.12 | 0.11 | 0.21 | 0.00 | 0.19 | 0.00 |
| 25--29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.05 | 0.06 | 0.12 | 0.32 | 0.59 | 0.56 | 0.54 | 0.43 | 0.40 | 0.50 | 0.00 | 3.59 | 0.00 |
| 30--34 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.12 | 0.31 | 0.45 | 0.94 | 1.37 | 2.34 | 1.75 | 1.23 | 0.93 | 0.76 | 0.81 | 0.00 | 11.05 | 0.00 |
| 35--39 | 0.00 | 0.00 | 0.02 | 0.03 | 0.22 | 0.19 | 0.51 | 0.78 | 1.32 | 2.68 | 2.54 | 2.14 | 1.24 | 0.74 | 0.62 | 0.83 | 0.00 | 13.85 | 0.00 |
| 40--44 | 0.01 | 0.04 | 0.05 | 0.13 | 0.33 | 0.58 | 0.81 | 1.31 | 1.92 | 2.44 | 2.70 | 2.08 | 1.14 | 0.80 | 0.64 | 0.88 | 0.00 | 15.84 | 0.00 |
| 45--49 | 0.05 | 0.06 | 0.10 | 0.25 | 0.50 | 0.76 | 0.91 | 1.14 | 1.87 | 2.02 | 1.99 | 1.49 | 1.12 | 0.71 | 0.53 | 0.81 | 0.00 | 14.30 | 0.00 |
| 50--54 | 0.05 | 0.05 | 0.21 | 0.26 | 0.56 | 0.80 | 0.95 | 1.09 | 1.41 | 1.23 | 1.31 | 1.27 | 0.87 | 0.53 | 0.44 | 0.88 | 0.00 | 11.92 | 0.00 |
| 55--59 | 0.09 | 0.09 | 0.10 | 0.26 | 0.39 | 0.57 | 0.65 | 0.82 | 0.91 | 1.32 | 1.09 | 1.00 | 0.78 | 0.47 | 0.39 | 0.45 | 0.00 | 9.40 | 0.00 |
| 60--64 | 0.12 | 0.05 | 0.06 | 0.16 | 0.22 | 0.29 | 0.46 | 0.70 | 0.66 | 0.95 | 0.81 | 0.97 | 0.37 | 0.40 | 0.28 | 0.34 | 0.00 | 6.84 | 0.00 |
| 65--69 | 0.05 | 0.01 | 0.12 | 0.12 | 0.21 | 0.25 | 0.43 | 0.44 | 0.62 | 0.64 | 0.56 | 0.43 | 0.38 | 0.26 | 0.20 | 0.23 | 0.00 | 4.95 | 0.00 |
| 70--74 | 0.02 | 0.01 | 0.08 | 0.06 | 0.18 | 0.17 | 0.19 | 0.30 | 0.32 | 0.34 | 0.32 | 0.33 | 0.26 | 0.17 | 0.10 | 0.11 | 0.00 | 2.95 | 0.00 |
| 75--79 | 0.01 | 0.00 | 0.02 | 0.05 | 0.09 | 0.17 | 0.14 | 0.15 | 0.18 | 0.21 | 0.11 | 0.13 | 0.11 | 0.08 | 0.03 | 0.06 | 0.00 | 1.53 | 0.00 |
| 80--84 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.08 | 0.04 | 0.07 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 | 0.03 | 0.00 | 0.00 | 0.53 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.40 | 0.30 | 0.78 | 1.31 | 2.76 | 3.92 | 5.47 | 7.28 | 10.37 | 13.66 | 14.53 | 12.37 | 8.31 | 5.69 | 4.59 | 6.14 | 2.14 | | |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL | |
|--------------------------|--|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|------|
| | D' HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0--4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5--9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10--14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 15--19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.05 | 0.03 | 0.01 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 20--24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.01 | 0.04 | 0.18 | 0.14 | 0.19 | 0.13 | 0.09 | 0.08 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 |
| 25--29 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.09 | 0.20 | 0.35 | 0.50 | 0.67 | 0.79 | 0.57 | 0.31 | 0.03 | 0.04 | 0.02 | 0.00 | 3.59 | 0.00 |
| 30--34 | 0.00 | 0.02 | 0.04 | 0.06 | 0.13 | 0.35 | 0.64 | 1.31 | 2.14 | 2.46 | 2.01 | 0.98 | 0.49 | 0.33 | 0.07 | 0.01 | 0.00 | 11.05 | 0.00 |
| 35--39 | 0.01 | 0.02 | 0.01 | 0.05 | 0.13 | 0.44 | 0.78 | 1.60 | 3.19 | 3.01 | 2.46 | 1.13 | 0.63 | 0.22 | 0.13 | 0.04 | 0.00 | 13.85 | 0.00 |
| 40--44 | 0.02 | 0.04 | 0.06 | 0.12 | 0.47 | 0.96 | 1.74 | 2.52 | 3.25 | 2.94 | 1.73 | 1.06 | 0.52 | 0.27 | 0.10 | 0.03 | 0.00 | 15.84 | 0.00 |
| 45--49 | 0.07 | 0.04 | 0.16 | 0.35 | 0.66 | 1.14 | 1.95 | 2.19 | 2.35 | 2.30 | 1.50 | 0.76 | 0.47 | 0.19 | 0.09 | 0.06 | 0.00 | 14.30 | 0.00 |
| 50--54 | 0.14 | 0.23 | 0.24 | 0.44 | 0.85 | 0.97 | 1.39 | 1.78 | 1.63 | 1.45 | 1.24 | 0.82 | 0.47 | 0.14 | 0.08 | 0.03 | 0.00 | 11.92 | 0.00 |
| 55--59 | 0.36 | 0.18 | 0.26 | 0.29 | 0.46 | 0.61 | 0.91 | 1.13 | 1.44 | 1.33 | 1.18 | 0.65 | 0.42 | 0.14 | 0.02 | 0.03 | 0.00 | 9.40 | 0.00 |
| 60--64 | 0.31 | 0.06 | 0.15 | 0.19 | 0.24 | 0.30 | 0.52 | 0.93 | 1.22 | 1.24 | 0.82 | 0.37 | 0.32 | 0.15 | 0.03 | 0.00 | 0.00 | 6.84 | 0.00 |
| 65--69 | 0.08 | 0.00 | 0.12 | 0.10 | 0.10 | 0.23 | 0.45 | 0.70 | 0.94 | 0.81 | 0.69 | 0.34 | 0.22 | 0.08 | 0.04 | 0.03 | 0.00 | 4.95 | 0.00 |
| 70--74 | 0.11 | 0.02 | 0.05 | 0.09 | 0.06 | 0.13 | 0.34 | 0.56 | 0.56 | 0.38 | 0.33 | 0.18 | 0.09 | 0.02 | 0.00 | 0.03 | 0.00 | 2.95 | 0.00 |
| 75--79 | 0.03 | 0.03 | 0.05 | 0.04 | 0.07 | 0.14 | 0.20 | 0.25 | 0.19 | 0.23 | 0.12 | 0.09 | 0.06 | 0.03 | 0.00 | 0.00 | 0.00 | 1.53 | 0.00 |
| 80--84 | 0.00 | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.02 | 0.06 | 0.16 | 0.07 | 0.07 | 0.03 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.13 | 0.64 | 1.16 | 1.75 | 3.22 | 5.41 | 9.16 | 13.44 | 17.81 | 17.09 | 13.18 | 7.14 | 4.16 | 1.70 | 0.60 | 0.27 | 2.14 | | |

Table 434. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. May 1950-1964

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5-1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.10 | 0.13 | 0.13 | 0.22 | 0.13 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35-39 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.09 | 0.22 | 0.53 | 0.79 | 0.59 | 0.63 | 0.43 | 0.40 | 1.05 | 0.00 | 0.00 | 0.00 | 1.03 |
| 40-44 | 0.00 | 0.01 | 0.00 | 0.00 | 0.04 | 0.05 | 0.15 | 0.33 | 0.42 | 0.92 | 0.95 | 1.01 | 0.95 | 0.80 | 0.52 | 0.72 | 0.00 | 0.00 | 0.00 | 4.75 |
| 45-49 | 0.00 | 0.01 | 0.02 | 0.07 | 0.18 | 0.34 | 0.37 | 0.78 | 1.55 | 2.02 | 1.87 | 1.59 | 1.33 | 1.05 | 0.78 | 0.86 | 0.00 | 0.00 | 0.00 | 6.88 |
| 50-54 | 0.00 | 0.02 | 0.08 | 0.14 | 0.32 | 0.63 | 0.80 | 1.34 | 1.94 | 1.97 | 2.03 | 1.83 | 1.51 | 0.96 | 0.65 | 1.25 | 0.00 | 0.00 | 0.00 | 12.81 |
| 55-59 | 0.04 | 0.04 | 0.18 | 0.21 | 0.39 | 0.74 | 1.13 | 1.42 | 1.68 | 1.87 | 1.99 | 1.32 | 1.25 | 0.76 | 0.48 | 1.20 | 0.00 | 0.00 | 0.00 | 14.70 |
| 60-64 | 0.02 | 0.11 | 0.12 | 0.19 | 0.40 | 0.53 | 0.90 | 1.01 | 1.32 | 1.95 | 1.74 | 1.42 | 1.20 | 0.70 | 0.62 | 1.13 | 0.00 | 0.00 | 0.00 | 13.35 |
| 65-69 | 0.04 | 0.07 | 0.09 | 0.25 | 0.35 | 0.52 | 1.05 | 1.08 | 1.48 | 1.50 | 1.58 | 1.31 | 1.04 | 0.67 | 0.62 | 1.09 | 0.00 | 0.00 | 0.00 | 12.75 |
| 70-74 | 0.03 | 0.04 | 0.03 | 0.12 | 0.12 | 0.39 | 0.61 | 0.87 | 1.08 | 1.02 | 1.00 | 0.86 | 0.83 | 0.65 | 0.52 | 0.76 | 0.00 | 0.00 | 0.00 | 8.92 |
| 75-79 | 0.01 | 0.03 | 0.01 | 0.08 | 0.15 | 0.19 | 0.33 | 0.45 | 0.59 | 0.74 | 0.70 | 0.59 | 0.62 | 0.37 | 0.29 | 0.47 | 0.00 | 0.00 | 0.00 | 5.62 |
| 80-84 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.12 | 0.25 | 0.36 | 0.41 | 0.46 | 0.30 | 0.28 | 0.27 | 0.15 | 0.21 | 0.00 | 0.00 | 0.00 | 2.89 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.02 | 0.07 | 0.05 | 0.07 | 0.14 | 0.16 | 0.09 | 0.08 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.78 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.13 | 0.32 | 0.52 | 1.09 | 1.98 | 3.47 | 5.47 | 7.71 | 10.69 | 13.05 | 13.34 | 11.13 | 9.87 | 6.94 | 5.20 | 9.07 | 0.01 | | | |

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5-1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.07 | 0.10 | 0.19 | 0.20 | 0.15 | 0.13 | 0.11 | 0.02 | 0.03 | 0.00 | 0.00 | 0.00 | 1.03 |
| 35-39 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 0.24 | 0.52 | 0.93 | 1.07 | 1.07 | 0.86 | 0.50 | 0.26 | 0.13 | 0.05 | 0.02 | 0.00 | 0.00 | 4.75 |
| 40-44 | 0.00 | 0.00 | 0.00 | 0.05 | 0.14 | 0.26 | 0.47 | 1.09 | 1.47 | 1.21 | 0.93 | 0.73 | 0.34 | 0.12 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 6.88 |
| 45-49 | 0.02 | 0.05 | 0.08 | 0.29 | 0.42 | 0.76 | 1.54 | 1.86 | 2.28 | 2.18 | 1.66 | 0.87 | 0.39 | 0.26 | 0.09 | 0.06 | 0.00 | 0.00 | 0.00 | 12.81 |
| 50-54 | 0.08 | 0.12 | 0.41 | 0.55 | 0.80 | 1.10 | 1.54 | 2.42 | 2.45 | 2.28 | 1.59 | 1.04 | 0.55 | 0.31 | 0.12 | 0.11 | 0.01 | 0.00 | 0.00 | 15.47 |
| 55-59 | 0.29 | 0.24 | 0.31 | 0.49 | 0.80 | 1.05 | 1.37 | 2.20 | 2.53 | 2.23 | 1.41 | 0.85 | 0.57 | 0.17 | 0.10 | 0.06 | 0.02 | 0.00 | 0.00 | 14.70 |
| 60-64 | 0.39 | 0.16 | 0.32 | 0.34 | 0.53 | 0.73 | 1.14 | 1.66 | 2.24 | 2.30 | 1.72 | 0.83 | 0.43 | 0.30 | 0.13 | 0.13 | 0.00 | 0.00 | 0.00 | 13.35 |
| 65-69 | 0.56 | 0.13 | 0.06 | 0.22 | 0.38 | 0.56 | 1.24 | 1.77 | 2.16 | 1.96 | 1.47 | 0.95 | 0.71 | 0.24 | 0.19 | 0.16 | 0.00 | 0.00 | 0.00 | 12.75 |
| 70-74 | 0.22 | 0.09 | 0.12 | 0.13 | 0.17 | 0.30 | 0.65 | 1.16 | 1.48 | 1.63 | 1.23 | 0.88 | 0.51 | 0.21 | 0.08 | 0.06 | 0.00 | 0.00 | 0.00 | 8.92 |
| 75-79 | 0.13 | 0.02 | 0.05 | 0.04 | 0.12 | 0.21 | 0.34 | 0.70 | 1.10 | 1.14 | 0.76 | 0.54 | 0.26 | 0.11 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 5.62 |
| 80-84 | 0.06 | 0.01 | 0.03 | 0.03 | 0.04 | 0.09 | 0.18 | 0.49 | 0.58 | 0.43 | 0.39 | 0.26 | 0.13 | 0.10 | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 | 2.89 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.06 | 0.12 | 0.10 | 0.12 | 0.16 | 0.08 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.75 | 0.82 | 1.39 | 2.13 | 3.46 | 5.20 | 8.82 | 14.06 | 17.42 | 16.77 | 12.38 | 7.68 | 4.36 | 2.07 | 0.87 | 0.79 | 0.03 | | | |

Table 435. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site.
June 1950-1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|---------|-------|
| | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
| | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10-- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5-- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-- 4 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35-- 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40-- 44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45-- 49 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50-- 54 | 0.00 | 0.01 | 0.02 | 0.03 | 0.02 | 0.09 | 0.19 | 0.35 | 0.80 | 0.96 | 0.98 | 0.74 | 0.91 | 0.92 | 0.56 | 1.30 | 0.00 | 0.00 |
| 55-- 59 | 0.01 | 0.02 | 0.04 | 0.09 | 0.20 | 0.26 | 0.56 | 0.65 | 1.07 | 1.34 | 1.37 | 1.11 | 1.15 | 0.98 | 0.83 | 1.44 | 0.00 | 11.12 |
| 60-- 64 | 0.02 | 0.01 | 0.05 | 0.17 | 0.30 | 0.62 | 0.78 | 1.05 | 1.31 | 1.86 | 1.79 | 2.04 | 1.90 | 1.39 | 1.00 | 1.75 | 0.00 | 16.02 |
| 65-- 69 | 0.04 | 0.03 | 0.10 | 0.27 | 0.23 | 0.71 | 0.91 | 1.46 | 1.71 | 2.15 | 1.99 | 2.22 | 1.90 | 1.17 | 1.08 | 2.17 | 0.00 | 18.14 |
| 70-- 74 | 0.07 | 0.03 | 0.10 | 0.23 | 0.33 | 0.75 | 1.14 | 1.50 | 1.84 | 2.19 | 1.86 | 1.43 | 1.25 | 1.06 | 0.95 | 2.19 | 0.00 | 16.94 |
| 75-- 79 | 0.06 | 0.01 | 0.12 | 0.12 | 0.36 | 0.44 | 0.87 | 0.97 | 1.33 | 1.53 | 1.39 | 1.17 | 0.91 | 0.77 | 0.75 | 1.43 | 0.00 | 12.22 |
| 80-- 84 | 0.01 | 0.01 | 0.05 | 0.06 | 0.06 | 0.19 | 0.32 | 0.72 | 0.81 | 1.04 | 1.01 | 0.85 | 0.84 | 0.69 | 0.54 | 0.83 | 0.00 | 8.03 |
| 85-- 89 | 0.01 | 0.00 | 0.00 | 0.03 | 0.01 | 0.07 | 0.13 | 0.19 | 0.42 | 0.57 | 0.62 | 0.79 | 0.54 | 0.52 | 0.27 | 0.36 | 0.00 | 4.52 |
| 90-- 94 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.02 | 0.06 | 0.06 | 0.06 | 0.12 | 0.12 | 0.13 | 0.09 | 0.09 | 0.04 | 0.07 | 0.00 | 0.89 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.00 | 0.01 | 0.00 | 0.05 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | |
| TOTAL | 0.21 | 0.12 | 0.48 | 1.00 | 1.53 | 3.17 | 4.95 | 6.96 | 9.49 | 12.09 | 11.47 | 10.89 | 9.97 | 8.15 | 6.57 | 12.81 | 0.12 | |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
| | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10-- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5-- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35-- 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.03 | 0.00 | 0.00 | 0.01 | 0.00 | 0.12 |
| 40-- 44 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.03 | 0.06 | 0.12 | 0.13 | 0.19 | 0.11 | 0.04 | 0.04 | 0.01 | 0.00 | 0.00 | 0.77 |
| 45-- 49 | 0.01 | 0.02 | 0.02 | 0.02 | 0.08 | 0.08 | 0.18 | 0.41 | 0.64 | 0.66 | 0.44 | 0.27 | 0.20 | 0.12 | 0.03 | 0.04 | 0.00 | 3.21 |
| 50-- 54 | 0.03 | 0.05 | 0.05 | 0.14 | 0.23 | 0.53 | 0.98 | 1.00 | 1.60 | 1.29 | 0.82 | 0.47 | 0.32 | 0.19 | 0.11 | 0.06 | 0.00 | 7.86 |
| 55-- 59 | 0.02 | 0.06 | 0.16 | 0.25 | 0.40 | 0.69 | 1.25 | 1.58 | 1.98 | 1.76 | 1.29 | 0.77 | 0.49 | 0.23 | 0.13 | 0.06 | 0.00 | 11.12 |
| 60-- 64 | 0.10 | 0.06 | 0.20 | 0.35 | 0.59 | 1.05 | 1.53 | 2.56 | 2.95 | 2.29 | 1.98 | 1.21 | 0.59 | 0.30 | 0.15 | 0.10 | 0.01 | 16.02 |
| 65-- 69 | 0.12 | 0.12 | 0.22 | 0.29 | 0.66 | 1.08 | 1.75 | 2.47 | 2.85 | 2.99 | 2.48 | 1.55 | 0.78 | 0.46 | 0.19 | 0.12 | 0.00 | 18.14 |
| 70-- 74 | 0.17 | 0.16 | 0.17 | 0.40 | 0.67 | 1.02 | 1.48 | 2.07 | 2.71 | 2.74 | 2.26 | 1.48 | 0.83 | 0.47 | 0.11 | 0.19 | 0.00 | 16.94 |
| 75-- 79 | 0.25 | 0.14 | 0.12 | 0.27 | 0.35 | 0.44 | 0.95 | 1.23 | 2.07 | 2.32 | 1.87 | 1.08 | 0.61 | 0.32 | 0.11 | 0.06 | 0.00 | 12.22 |
| 80-- 84 | 0.14 | 0.03 | 0.06 | 0.06 | 0.17 | 0.25 | 0.59 | 1.05 | 1.38 | 1.52 | 1.34 | 0.92 | 0.37 | 0.09 | 0.06 | 0.02 | 0.00 | 8.03 |
| 85-- 89 | 0.06 | 0.06 | 0.02 | 0.04 | 0.06 | 0.14 | 0.21 | 0.56 | 0.88 | 1.06 | 0.84 | 0.41 | 0.10 | 0.06 | 0.02 | 0.00 | 0.00 | 4.52 |
| 90-- 94 | 0.03 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.08 | 0.19 | 0.18 | 0.15 | 0.12 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.89 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | |
| TOTAL | 0.92 | 0.69 | 1.01 | 1.81 | 3.23 | 5.33 | 9.04 | 13.19 | 17.39 | 16.93 | 13.68 | 8.41 | 4.39 | 2.29 | 0.92 | 0.67 | 0.13 | |

Table 436. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. July 1950-1964

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35-39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40-44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45-49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50-54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.12 | 0.09 | 0.10 | 0.09 | 0.21 | 0.22 | 0.76 | 0.00 | 1.64 |
| 55-59 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.13 | 0.21 | 0.40 | 0.37 | 0.81 | 0.78 | 0.92 | 0.96 | 1.67 | 0.00 | 6.34 |
| 60-64 | 0.00 | 0.00 | 0.02 | 0.05 | 0.11 | 0.13 | 0.27 | 0.46 | 0.88 | 1.44 | 1.59 | 1.74 | 1.85 | 1.77 | 1.57 | 2.51 | 0.00 | 14.37 |
| 65-69 | 0.01 | 0.02 | 0.07 | 0.13 | 0.25 | 0.44 | 0.78 | 1.21 | 1.81 | 2.69 | 3.30 | 2.53 | 2.34 | 2.24 | 1.56 | 3.06 | 0.02 | 22.45 |
| 70-74 | 0.02 | 0.05 | 0.11 | 0.26 | 0.48 | 0.71 | 1.26 | 1.74 | 2.16 | 2.60 | 2.53 | 2.13 | 1.92 | 1.35 | 1.22 | 2.54 | 0.00 | 21.08 |
| 75-79 | 0.02 | 0.03 | 0.07 | 0.20 | 0.40 | 0.61 | 1.26 | 1.37 | 1.84 | 2.05 | 1.91 | 1.64 | 1.56 | 1.25 | 0.88 | 1.50 | 0.00 | 16.58 |
| 80-84 | 0.04 | 0.01 | 0.04 | 0.15 | 0.23 | 0.47 | 0.68 | 0.98 | 1.17 | 1.38 | 1.59 | 1.33 | 1.06 | 0.92 | 0.56 | 0.66 | 0.00 | 11.27 |
| 85-89 | 0.03 | 0.03 | 0.06 | 0.06 | 0.13 | 0.20 | 0.21 | 0.41 | 0.51 | 0.71 | 0.83 | 0.56 | 0.45 | 0.51 | 0.22 | 0.22 | 0.00 | 5.13 |
| 90-94 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.08 | 0.07 | 0.11 | 0.13 | 0.16 | 0.09 | 0.09 | 0.04 | 0.05 | 0.01 | 0.00 | 0.85 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.04 | 0.04 | 0.03 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 0.13 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.12 | 0.13 | 0.38 | 0.87 | 1.65 | 2.58 | 4.58 | 6.41 | 8.71 | 11.55 | 12.40 | 10.95 | 10.14 | 9.23 | 7.26 | 13.02 | 0.03 | |

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5-9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30-34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35-39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40-44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45-49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50-54 | 0.01 | 0.01 | 0.04 | 0.03 | 0.13 | 0.07 | 0.19 | 0.22 | 0.20 | 0.22 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.02 | 0.00 | 0.14 |
| 55-59 | 0.04 | 0.01 | 0.05 | 0.14 | 0.15 | 0.37 | 0.42 | 0.85 | 0.99 | 1.02 | 0.81 | 0.59 | 0.48 | 0.27 | 0.19 | 0.15 | 0.00 | 1.64 |
| 60-64 | 0.01 | 0.05 | 0.14 | 0.14 | 0.31 | 0.67 | 1.24 | 1.34 | 2.63 | 2.54 | 1.76 | 1.18 | 0.86 | 0.48 | 0.26 | 0.24 | 0.00 | 6.34 |
| 65-69 | 0.00 | 0.02 | 0.09 | 0.18 | 0.44 | 0.97 | 1.91 | 3.15 | 4.13 | 4.14 | 2.84 | 2.16 | 1.17 | 0.65 | 0.33 | 0.26 | 0.00 | 14.37 |
| 70-74 | 0.03 | 0.08 | 0.13 | 0.23 | 0.56 | 1.14 | 1.61 | 3.32 | 3.77 | 4.00 | 2.85 | 1.70 | 0.76 | 0.43 | 0.19 | 0.28 | 0.00 | 21.08 |
| 75-79 | 0.09 | 0.07 | 0.13 | 0.24 | 0.38 | 0.68 | 1.14 | 2.20 | 3.04 | 3.15 | 2.60 | 1.47 | 0.78 | 0.34 | 0.16 | 0.11 | 0.01 | 16.58 |
| 80-84 | 0.22 | 0.09 | 0.14 | 0.17 | 0.27 | 0.42 | 0.73 | 1.27 | 1.81 | 2.34 | 1.86 | 1.03 | 0.51 | 0.22 | 0.10 | 0.08 | 0.00 | 11.27 |
| 85-89 | 0.10 | 0.05 | 0.04 | 0.13 | 0.19 | 0.25 | 0.37 | 0.69 | 0.84 | 1.02 | 0.89 | 0.33 | 0.17 | 0.03 | 0.03 | 0.00 | 0.00 | 5.13 |
| 90-94 | 0.05 | 0.00 | 0.00 | 0.00 | 0.05 | 0.09 | 0.15 | 0.10 | 0.14 | 0.12 | 0.10 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 |
| > 94 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.56 | 0.39 | 0.76 | 1.27 | 2.49 | 4.67 | 7.76 | 13.43 | 17.63 | 18.58 | 13.90 | 8.69 | 4.88 | 2.49 | 1.31 | 1.16 | 0.03 | |

Table 437. Joint Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site and Temperature ($^{\circ}\text{F}$) at the Argonne Meteorology Site. August 1950-1964

| ARGONNE TEMPERATURE --($^{\circ}\text{F}$)-- | NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | MISSING | TOTAL | | | | |
|--|------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|---------|-------|----------|------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35- 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40- 44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45- 49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.00 | 0.03 |
| 50- 54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.03 | 0.02 | 0.04 | 0.15 | 0.21 | 0.39 | 0.47 | 0.35 | 0.33 | 0.90 | | | | 0.00 | 0.46 |
| 55- 59 | 0.00 | 0.01 | 0.01 | 0.02 | 0.05 | 0.12 | 0.06 | 0.16 | 0.32 | 0.50 | 0.82 | 1.05 | 1.07 | 1.28 | 1.10 | 2.23 | | | | 0.00 | 2.91 |
| 60- 64 | 0.00 | 0.03 | 0.05 | 0.08 | 0.14 | 0.11 | 0.28 | 0.46 | 0.95 | 1.51 | 1.64 | 2.20 | 1.98 | 1.94 | 1.58 | 2.67 | | | | 0.00 | 8.80 |
| 65- 69 | 0.01 | 0.02 | 0.05 | 0.11 | 0.23 | 0.43 | 0.58 | 1.22 | 1.90 | 2.63 | 2.77 | 3.02 | 3.03 | 2.39 | 1.74 | 2.70 | | | | 0.00 | 15.62 |
| 70- 74 | 0.04 | 0.04 | 0.05 | 0.17 | 0.25 | 0.44 | 0.96 | 1.47 | 2.08 | 2.53 | 2.80 | 2.67 | 2.19 | 1.72 | 1.08 | 2.00 | | | | 0.00 | 22.83 |
| 75- 79 | 0.03 | 0.02 | 0.10 | 0.13 | 0.32 | 0.62 | 1.07 | 1.21 | 1.76 | 1.87 | 1.84 | 1.61 | 1.34 | 1.13 | 0.83 | 1.54 | | | | 0.00 | 20.48 |
| 80- 84 | 0.04 | 0.04 | 0.07 | 0.08 | 0.12 | 0.30 | 0.54 | 0.70 | 0.95 | 0.90 | 1.16 | 0.96 | 0.88 | 0.65 | 0.39 | 0.62 | | | | 0.00 | 15.40 |
| 85- 89 | 0.03 | 0.01 | 0.03 | 0.02 | 0.04 | 0.06 | 0.17 | 0.31 | 0.46 | 0.56 | 0.59 | 0.46 | 0.40 | 0.33 | 0.23 | 0.21 | | | | 0.00 | 8.40 |
| 90- 94 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.03 | 0.04 | 0.08 | 0.16 | 0.17 | 0.26 | 0.17 | 0.14 | 0.04 | 0.00 | | | | 0.00 | 3.92 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | | | | 0.00 | 1.13 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | 0.00 | 0.03 |
| TOTAL | 0.14 | 0.17 | 0.38 | 0.60 | 1.18 | 2.11 | 3.72 | 5.60 | 8.56 | 10.83 | 12.06 | 12.66 | 11.57 | 10.04 | 7.35 | 13.02 | | | | 0.00 | |

| ARGONNE TEMPERATURE --($^{\circ}\text{F}$)-- | NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | MISSING | TOTAL | | | | |
|--|------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|----------|------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35- 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40- 44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45- 49 | 0.00 | 0.02 | 0.02 | 0.04 | 0.05 | 0.07 | 0.06 | 0.05 | 0.05 | 0.04 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 50- 54 | 0.04 | 0.01 | 0.05 | 0.10 | 0.18 | 0.33 | 0.45 | 0.47 | 0.36 | 0.22 | 0.26 | 0.17 | 0.14 | 0.10 | 0.00 | 0.04 | | | | 0.00 | 0.46 |
| 55- 59 | 0.04 | 0.07 | 0.13 | 0.22 | 0.39 | 0.47 | 0.83 | 1.14 | 1.26 | 1.54 | 1.11 | 0.78 | 0.41 | 0.22 | 0.12 | 0.06 | | | | 0.00 | 2.91 |
| 60- 64 | 0.06 | 0.11 | 0.09 | 0.17 | 0.41 | 0.63 | 1.29 | 2.10 | 2.65 | 2.94 | 2.11 | 1.45 | 0.86 | 0.47 | 0.14 | 0.13 | | | | 0.00 | 8.80 |
| 65- 69 | 0.03 | 0.03 | 0.08 | 0.18 | 0.47 | 0.84 | 1.68 | 3.16 | 4.41 | 4.35 | 3.56 | 2.04 | 1.04 | 0.53 | 0.23 | 0.20 | | | | 0.00 | 15.62 |
| 70- 74 | 0.03 | 0.05 | 0.06 | 0.19 | 0.34 | 0.71 | 1.55 | 2.56 | 3.58 | 4.53 | 3.33 | 1.85 | 0.92 | 0.49 | 0.22 | 0.06 | | | | 0.00 | 22.83 |
| 75- 79 | 0.13 | 0.02 | 0.10 | 0.17 | 0.30 | 0.69 | 1.16 | 1.90 | 2.76 | 2.75 | 2.30 | 1.59 | 0.80 | 0.46 | 0.14 | 0.12 | | | | 0.00 | 20.48 |
| 80- 84 | 0.14 | 0.10 | 0.04 | 0.09 | 0.23 | 0.30 | 0.54 | 0.87 | 1.24 | 1.49 | 1.51 | 1.09 | 0.41 | 0.22 | 0.08 | 0.04 | | | | 0.00 | 15.40 |
| 85- 89 | 0.12 | 0.01 | 0.03 | 0.05 | 0.07 | 0.10 | 0.20 | 0.31 | 0.47 | 0.55 | 0.86 | 0.69 | 0.40 | 0.06 | 0.00 | 0.00 | | | | 0.00 | 8.40 |
| 90- 94 | 0.01 | 0.00 | 0.02 | 0.00 | 0.01 | 0.04 | 0.04 | 0.14 | 0.17 | 0.19 | 0.22 | 0.21 | 0.07 | 0.02 | 0.00 | 0.00 | | | | 0.00 | 3.92 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | 0.00 | 1.13 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | 0.00 | 0.03 |
| TOTAL | 0.60 | 0.41 | 0.63 | 1.21 | 2.46 | 4.18 | 7.81 | 12.72 | 16.96 | 18.59 | 15.30 | 9.88 | 5.06 | 2.58 | 0.94 | 0.65 | | | | 0.01 | |

Table 438. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. September 1950-1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|------------------------------|------|------|------|---------------------------------------|------|------|------|------|-------|-------|-------|-------|------|------|-------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | 7 | ≥ 8 | | | | |
| | | | | | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 20- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 25- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 30- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 35- 39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.01 | 0.01 | 0.00 | |
| 40- 44 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.05 | 0.06 | 0.14 | 0.22 | 0.38 | 0.43 | 0.50 | 0.31 | 0.95 | 0.00 | |
| 45- 49 | 0.00 | 0.00 | 0.02 | 0.02 | 0.06 | 0.07 | 0.06 | 0.20 | 0.23 | 0.27 | 0.63 | 0.80 | 0.88 | 0.83 | 0.79 | 1.73 | 0.01 | |
| 50- 54 | 0.02 | 0.04 | 0.04 | 0.06 | 0.08 | 0.16 | 0.32 | 0.43 | 0.65 | 0.81 | 1.27 | 1.61 | 1.69 | 1.57 | 1.28 | 2.42 | 0.01 | |
| 55- 59 | 0.02 | 0.06 | 0.09 | 0.16 | 0.29 | 0.36 | 0.54 | 0.71 | 1.18 | 1.45 | 1.85 | 1.74 | 1.82 | 1.73 | 1.35 | 1.97 | 0.00 | |
| 60- 64 | 0.04 | 0.05 | 0.11 | 0.20 | 0.27 | 0.47 | 0.92 | 1.26 | 1.97 | 2.49 | 2.66 | 2.51 | 2.22 | 1.43 | 0.99 | 1.76 | 0.00 | |
| 65- 69 | 0.00 | 0.05 | 0.10 | 0.27 | 0.40 | 0.56 | 0.81 | 1.19 | 1.82 | 2.12 | 2.39 | 1.69 | 1.57 | 1.24 | 0.84 | 1.30 | 0.00 | |
| 70- 74 | 0.02 | 0.01 | 0.06 | 0.19 | 0.23 | 0.46 | 0.82 | 1.19 | 1.33 | 1.59 | 1.46 | 1.57 | 1.29 | 1.03 | 0.64 | 0.81 | 0.00 | |
| 75- 79 | 0.01 | 0.02 | 0.05 | 0.10 | 0.25 | 0.41 | 0.43 | 0.65 | 0.59 | 0.83 | 0.77 | 0.69 | 0.53 | 0.40 | 0.25 | 0.80 | 0.00 | |
| 80- 84 | 0.02 | 0.02 | 0.02 | 0.04 | 0.14 | 0.19 | 0.22 | 0.25 | 0.27 | 0.33 | 0.41 | 0.33 | 0.31 | 0.28 | 0.19 | 0.37 | 0.00 | |
| 85- 89 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.12 | 0.09 | 0.20 | 0.19 | 0.25 | 0.32 | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.00 | |
| 90- 94 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.01 | 0.05 | 0.04 | 0.08 | 0.08 | 0.12 | 0.08 | 0.12 | 0.05 | 0.05 | 0.01 | 0.00 | |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| TOTAL | 0.12 | 0.25 | 0.50 | 1.04 | 1.76 | 2.86 | 4.33 | 6.19 | 8.44 | 10.42 | 12.16 | 11.78 | 11.22 | 9.43 | 6.94 | 12.55 | 0.03 | |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|------------------------------|------|------|------|---------------------------------------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | 7 | ≥ 8 | | | | |
| | | | | | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 20- 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 25- 29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 30- 34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 35- 39 | 0.01 | 0.01 | 0.02 | 0.04 | 0.06 | 0.06 | 0.16 | 0.15 | 0.19 | 0.12 | 0.08 | 0.03 | 0.03 | 0.00 | 0.02 | 0.00 | 0.01 | |
| 40- 44 | 0.05 | 0.01 | 0.08 | 0.13 | 0.14 | 0.32 | 0.31 | 0.54 | 0.36 | 0.37 | 0.31 | 0.20 | 0.12 | 0.12 | 0.06 | 0.03 | 0.00 | |
| 45- 49 | 0.11 | 0.04 | 0.06 | 0.22 | 0.31 | 0.51 | 0.82 | 0.79 | 0.87 | 0.99 | 0.75 | 0.44 | 0.32 | 0.18 | 0.11 | 0.08 | 0.00 | |
| 50- 54 | 0.03 | 0.14 | 0.13 | 0.31 | 0.53 | 0.75 | 1.13 | 1.64 | 1.94 | 1.69 | 1.32 | 1.36 | 0.76 | 0.39 | 0.20 | 0.13 | 0.00 | |
| 55- 59 | 0.03 | 0.05 | 0.18 | 0.27 | 0.59 | 0.92 | 1.25 | 1.94 | 2.96 | 2.71 | 1.81 | 1.28 | 0.76 | 0.32 | 0.11 | 0.16 | 0.00 | |
| 60- 64 | 0.03 | 0.02 | 0.06 | 0.21 | 0.42 | 0.74 | 1.61 | 2.99 | 4.07 | 4.06 | 2.59 | 1.39 | 0.74 | 0.23 | 0.10 | 0.06 | 0.00 | |
| 65- 69 | 0.04 | 0.05 | 0.06 | 0.13 | 0.48 | 0.91 | 1.70 | 2.37 | 3.35 | 2.93 | 2.17 | 1.31 | 0.50 | 0.21 | 0.09 | 0.08 | 0.00 | |
| 70- 74 | 0.06 | 0.06 | 0.10 | 0.17 | 0.39 | 0.65 | 1.21 | 1.77 | 2.06 | 2.32 | 1.78 | 1.03 | 0.66 | 0.22 | 0.16 | 0.08 | 0.00 | |
| 75- 79 | 0.09 | 0.04 | 0.06 | 0.18 | 0.22 | 0.35 | 0.44 | 0.83 | 1.11 | 1.14 | 0.89 | 0.69 | 0.42 | 0.19 | 0.05 | 0.06 | 0.00 | |
| 80- 84 | 0.07 | 0.03 | 0.05 | 0.06 | 0.10 | 0.14 | 0.28 | 0.40 | 0.42 | 0.56 | 0.53 | 0.37 | 0.28 | 0.08 | 0.02 | 0.01 | 0.00 | |
| 85- 89 | 0.00 | 0.01 | 0.01 | 0.06 | 0.04 | 0.10 | 0.16 | 0.25 | 0.33 | 0.43 | 0.30 | 0.21 | 0.09 | 0.06 | 0.01 | 0.01 | 0.00 | |
| 90- 94 | 0.03 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 | 0.02 | 0.07 | 0.12 | 0.19 | 0.13 | 0.04 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| TOTAL | 0.54 | 0.44 | 0.85 | 1.79 | 3.28 | 5.45 | 9.12 | 13.76 | 17.81 | 17.54 | 12.67 | 8.36 | 4.71 | 2.02 | 0.93 | 0.70 | 0.03 | |

Table 439. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. October 1950-1964

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | | | | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|------|------|------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -15--11 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25-29 | 0.00 | 0.00 | 0.50 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.03 | 0.04 | 0.15 | 0.23 | 0.23 | 0.30 | 0.14 | 0.27 | | | | | | 0.01 | 0.25 |
| 30-34 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.05 | 0.16 | 0.22 | 0.35 | 0.48 | 0.73 | 0.66 | 0.42 | 0.30 | 0.80 | | | | | | 0.01 | 4.26 |
| 35-39 | 0.01 | 0.00 | 0.02 | 0.03 | 0.08 | 0.09 | 0.22 | 0.22 | 0.52 | 0.77 | 1.03 | 1.13 | 1.11 | 0.87 | 0.63 | 1.05 | | | | | | 0.06 | 7.83 |
| 40-44 | 0.00 | 0.03 | 0.04 | 0.05 | 0.13 | 0.31 | 0.34 | 0.45 | 0.74 | 1.13 | 1.58 | 1.71 | 1.89 | 1.25 | 1.13 | 1.71 | | | | | | 0.08 | 12.59 |
| 45-49 | 0.03 | 0.03 | 0.04 | 0.19 | 0.22 | 0.37 | 0.39 | 0.72 | 1.12 | 2.11 | 2.57 | 2.26 | 1.68 | 1.16 | 1.06 | 1.68 | | | | | | 0.03 | 15.65 |
| 50-54 | 0.08 | 0.07 | 0.14 | 0.18 | 0.28 | 0.47 | 0.66 | 1.00 | 1.39 | 2.18 | 2.19 | 2.21 | 1.72 | 1.14 | 0.90 | 1.19 | | | | | | 0.03 | 15.83 |
| 55-59 | 0.10 | 0.05 | 0.09 | 0.25 | 0.22 | 0.53 | 0.71 | 1.10 | 1.33 | 1.95 | 2.03 | 1.89 | 1.10 | 1.10 | 0.64 | 0.78 | | | | | | 0.02 | 13.89 |
| 60-64 | 0.12 | 0.04 | 0.14 | 0.21 | 0.44 | 0.55 | 0.75 | 1.03 | 1.27 | 1.75 | 1.30 | 1.09 | 0.81 | 0.59 | 0.30 | 0.66 | | | | | | 0.01 | 11.07 |
| 65-69 | 0.10 | 0.08 | 0.13 | 0.27 | 0.30 | 0.54 | 0.75 | 0.93 | 1.17 | 1.11 | 0.82 | 0.75 | 0.63 | 0.42 | 0.27 | 0.40 | | | | | | 0.00 | 8.67 |
| 70-74 | 0.03 | 0.09 | 0.13 | 0.15 | 0.16 | 0.25 | 0.24 | 0.48 | 0.58 | 0.53 | 0.44 | 0.55 | 0.27 | 0.25 | 0.16 | 0.30 | | | | | | 0.00 | 4.61 |
| 75-79 | 0.01 | 0.02 | 0.03 | 0.08 | 0.13 | 0.19 | 0.18 | 0.22 | 0.22 | 0.29 | 0.39 | 0.28 | 0.22 | 0.11 | 0.11 | 0.06 | | | | | | 0.00 | 2.53 |
| 80-84 | 0.00 | 0.00 | 0.00 | 0.01 | 0.08 | 0.06 | 0.05 | 0.09 | 0.16 | 0.18 | 0.20 | 0.13 | 0.08 | 0.05 | 0.01 | 0.01 | | | | | | 0.00 | 1.11 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.01 | 0.00 | 0.01 | 0.00 | | | | | | 0.00 | 0.12 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| TOTAL | 0.47 | 0.41 | 0.76 | 1.43 | 2.05 | 3.41 | 4.36 | 6.42 | 8.77 | 12.39 | 13.22 | 13.00 | 10.45 | 7.76 | 5.73 | 9.02 | | | | | | 0.33 | |

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | | | | | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|--|--|--|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| 10-14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| 15-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.10 |
| 20-24 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.01 | 0.04 | 0.04 | 0.04 | 0.03 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | | | | | | 0.00 | 0.25 |
| 25-29 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.04 | 0.10 | 0.12 | 0.27 | 0.29 | 0.26 | 0.18 | 0.07 | 0.01 | 0.01 | 0.01 | | | | | | 0.00 | 1.43 |
| 30-34 | 0.09 | 0.05 | 0.04 | 0.08 | 0.17 | 0.17 | 0.34 | 0.58 | 0.66 | 0.79 | 0.58 | 0.28 | 0.19 | 0.14 | 0.05 | 0.03 | | | | | | 0.00 | 4.26 |
| 35-39 | 0.07 | 0.08 | 0.13 | 0.17 | 0.26 | 0.41 | 0.69 | 1.07 | 1.51 | 1.55 | 0.81 | 0.67 | 0.20 | 0.17 | 0.01 | 0.04 | | | | | | 0.00 | 7.83 |
| 40-44 | 0.22 | 0.17 | 0.13 | 0.19 | 0.24 | 0.47 | 0.81 | 1.56 | 2.06 | 2.46 | 2.03 | 1.10 | 0.61 | 0.31 | 0.11 | 0.11 | | | | | | 0.01 | 12.59 |
| 45-49 | 0.33 | 0.12 | 0.25 | 0.40 | 0.46 | 0.79 | 1.17 | 1.94 | 2.99 | 2.87 | 2.05 | 1.36 | 0.56 | 0.18 | 0.10 | 0.06 | | | | | | 0.00 | 15.65 |
| 50-54 | 0.28 | 0.13 | 0.19 | 0.38 | 0.56 | 0.76 | 1.52 | 2.28 | 2.80 | 2.73 | 2.04 | 1.16 | 0.56 | 0.23 | 0.12 | 0.09 | | | | | | 0.00 | 15.83 |
| 55-59 | 0.13 | 0.10 | 0.30 | 0.39 | 0.65 | 0.79 | 1.35 | 1.69 | 3.12 | 2.47 | 1.48 | 0.77 | 0.39 | 0.14 | 0.05 | 0.05 | | | | | | 0.00 | 13.89 |
| 60-64 | 0.13 | 0.15 | 0.17 | 0.31 | 0.39 | 0.72 | 1.10 | 1.93 | 2.45 | 1.95 | 0.75 | 0.56 | 0.22 | 0.13 | 0.04 | 0.06 | | | | | | 0.00 | 11.07 |
| 65-69 | 0.10 | 0.13 | 0.18 | 0.29 | 0.39 | 0.45 | 1.13 | 1.34 | 1.55 | 1.36 | 0.96 | 0.47 | 0.18 | 0.09 | 0.05 | 0.01 | | | | | | 0.00 | 8.67 |
| 70-74 | 0.10 | 0.02 | 0.06 | 0.09 | 0.13 | 0.21 | 0.61 | 0.71 | 0.78 | 0.78 | 0.67 | 0.30 | 0.09 | 0.05 | 0.01 | 0.00 | | | | | | 0.00 | 4.61 |
| 75-79 | 0.04 | 0.02 | 0.05 | 0.04 | 0.08 | 0.20 | 0.29 | 0.33 | 0.39 | 0.39 | 0.37 | 0.20 | 0.10 | 0.01 | 0.01 | 0.00 | | | | | | 0.00 | 2.53 |
| 80-84 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.10 | 0.17 | 0.30 | 0.25 | 0.13 | 0.08 | 0.00 | 0.01 | 0.00 | 0.00 | | | | | | 0.00 | 1.11 |
| 85-89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.12 |
| 90-94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 | 0.00 |
| TOTAL | 1.50 | 0.97 | 1.51 | 2.39 | 3.40 | 5.08 | 9.23 | 13.81 | 19.01 | 18.02 | 12.18 | 7.14 | 3.16 | 1.50 | 0.57 | 0.46 | | | | | | 0.08 | |

Table 440. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site.
November 1950-1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL | | | | |
|--------------------------|------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|------|------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.06 | 0.04 | 0.12 | 0.08 | 0.10 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.05 | 0.08 | 0.05 | 0.07 | 0.20 | 0.20 | 0.06 | 0.03 | | | | | | 0.56 |
| 10- 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.04 | 0.11 | 0.18 | 0.26 | 0.14 | 0.32 | 0.27 | 0.23 | 0.12 | | | | | 0.83 |
| 15- 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.06 | 0.17 | 0.27 | 0.47 | 0.71 | 0.66 | 0.57 | 0.45 | 0.31 | 0.29 | | | | | | 1.71 |
| 20- 24 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.19 | 0.22 | 0.43 | 0.94 | 1.43 | 1.24 | 0.97 | 0.77 | 0.34 | 0.42 | | | | | | 4.02 |
| 25- 29 | 0.00 | 0.00 | 0.02 | 0.03 | 0.03 | 0.12 | 0.24 | 0.59 | 1.24 | 1.98 | 2.54 | 2.10 | 1.44 | 0.92 | 0.69 | 0.71 | | | | | | 7.07 |
| 30- 34 | 0.00 | 0.01 | 0.03 | 0.07 | 0.10 | 0.26 | 0.41 | 0.60 | 1.35 | 2.35 | 3.02 | 2.80 | 1.75 | 1.44 | 0.81 | 1.24 | | | | | | 12.65 |
| 35- 39 | 0.05 | 0.01 | 0.06 | 0.14 | 0.14 | 0.32 | 0.46 | 0.73 | 1.37 | 1.95 | 2.66 | 2.41 | 1.54 | 1.23 | 0.86 | 1.20 | | | | | | 16.23 |
| 40- 44 | 0.10 | 0.03 | 0.03 | 0.14 | 0.31 | 0.37 | 0.62 | 0.76 | 1.27 | 2.01 | 2.42 | 2.00 | 1.35 | 0.97 | 0.60 | 0.56 | | | | | | 15.13 |
| 45- 49 | 0.05 | 0.01 | 0.07 | 0.17 | 0.18 | 0.32 | 0.62 | 0.94 | 1.50 | 2.00 | 1.73 | 1.08 | 0.95 | 0.56 | 0.27 | 0.53 | | | | | | 13.53 |
| 50- 54 | 0.06 | 0.03 | 0.08 | 0.05 | 0.19 | 0.32 | 0.35 | 0.74 | 0.91 | 1.35 | 1.12 | 0.86 | 0.64 | 0.31 | 0.21 | 0.27 | | | | | | 10.99 |
| 55- 59 | 0.03 | 0.01 | 0.04 | 0.10 | 0.17 | 0.16 | 0.30 | 0.47 | 0.83 | 1.18 | 0.68 | 0.51 | 0.35 | 0.13 | 0.12 | 0.13 | | | | | | 7.49 |
| 60- 64 | 0.00 | 0.02 | 0.03 | 0.06 | 0.07 | 0.12 | 0.27 | 0.38 | 0.57 | 0.42 | 0.31 | 0.19 | 0.19 | 0.05 | 0.02 | 0.05 | | | | | | 5.19 |
| 65- 69 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.07 | 0.07 | 0.09 | 0.14 | 0.22 | 0.20 | 0.14 | 0.16 | 0.14 | 0.04 | 0.02 | 0.02 | | | | | 2.73 |
| 70- 74 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.05 | 0.06 | 0.06 | 0.03 | 0.02 | 0.01 | 0.01 | 0.01 | | | | | 1.33 |
| 75- 79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.30 |
| 80- 84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.05 |
| 85- 89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.00 |
| 90- 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.00 |
| TOTAL | 0.28 | 0.11 | 0.37 | 0.82 | 1.30 | 2.23 | 3.69 | 5.94 | 10.23 | 15.34 | 17.24 | 14.43 | 10.52 | 7.38 | 4.56 | 5.56 | 0.00 | | | | | 0.00 |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL | | | | |
|--------------------------|------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|------|------|------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15-11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10- -6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5- -1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.04 | 0.03 | 0.02 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 |
| 0- 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.06 | 0.06 | 0.13 | 0.10 | 0.15 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 |
| 5- 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.11 | 0.20 | 0.21 | 0.11 | 0.11 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.83 |
| 10- 14 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.07 | 0.08 | 0.21 | 0.26 | 0.33 | 0.28 | 0.26 | 0.09 | 0.02 | 0.04 | 0.01 | | | | | | 1.71 |
| 15- 19 | 0.01 | 0.00 | 0.01 | 0.04 | 0.06 | 0.10 | 0.16 | 0.44 | 0.61 | 1.06 | 0.79 | 0.44 | 0.21 | 0.06 | 0.02 | 0.01 | | | | | | 4.02 |
| 20- 24 | 0.00 | 0.02 | 0.00 | 0.03 | 0.12 | 0.20 | 0.44 | 0.62 | 1.27 | 1.79 | 1.31 | 0.68 | 0.35 | 0.16 | 0.06 | 0.04 | | | | | | 7.07 |
| 25- 29 | 0.00 | 0.02 | 0.06 | 0.14 | 0.19 | 0.42 | 0.45 | 1.55 | 2.71 | 2.91 | 2.22 | 1.03 | 0.45 | 0.21 | 0.15 | 0.14 | | | | | | 12.65 |
| 30- 34 | 0.13 | 0.03 | 0.10 | 0.19 | 0.32 | 0.73 | 1.09 | 1.56 | 3.01 | 4.05 | 2.49 | 1.32 | 0.60 | 0.35 | 0.16 | 0.09 | | | | | | 16.23 |
| 35- 39 | 0.09 | 0.06 | 0.07 | 0.23 | 0.30 | 0.66 | 1.15 | 1.85 | 2.96 | 3.39 | 2.50 | 1.00 | 0.47 | 0.25 | 0.11 | 0.04 | | | | | | 15.13 |
| 40- 44 | 0.19 | 0.08 | 0.08 | 0.18 | 0.35 | 0.60 | 1.22 | 1.67 | 2.78 | 2.80 | 2.07 | 0.86 | 0.49 | 0.13 | 0.03 | 0.00 | | | | | | 13.53 |
| 45- 49 | 0.17 | 0.06 | 0.11 | 0.14 | 0.31 | 0.56 | 1.21 | 2.01 | 2.50 | 1.97 | 1.00 | 0.50 | 0.26 | 0.08 | 0.06 | 0.04 | | | | | | 10.99 |
| 50- 54 | 0.04 | 0.03 | 0.08 | 0.14 | 0.22 | 0.46 | 0.94 | 1.25 | 1.44 | 1.13 | 0.94 | 0.60 | 0.16 | 0.04 | 0.01 | 0.02 | | | | | | 7.49 |
| 55- 59 | 0.09 | 0.04 | 0.08 | 0.15 | 0.18 | 0.25 | 0.41 | 0.88 | 1.31 | 0.99 | 0.55 | 0.16 | 0.07 | 0.02 | 0.02 | 0.00 | | | | | | 5.19 |
| 60- 64 | 0.02 | 0.04 | 0.06 | 0.02 | 0.12 | 0.19 | 0.34 | 0.56 | 0.57 | 0.49 | 0.23 | 0.05 | 0.03 | 0.01 | 0.00 | 0.00 | | | | | | 2.73 |
| 65- 69 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.06 | 0.12 | 0.28 | 0.38 | 0.25 | 0.15 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | | | | | | 1.33 |
| 70- 74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.06 | 0.06 | 0.05 | 0.05 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.30 |
| 75- 79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.05 |
| 80- 84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 |
| 85- 89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 |
| 90- 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | 0.00 |
| TOTAL | 0.74 | 0.37 | 0.69 | 1.28 | 2.26 | 4.35 | 7.80 | 13.15 | 20.22 | 21.57 | 14.89 | 7.10 | 3.22 | 1.32 | 0.64 | 0.38 | 0.02 | | | | | 0.00 |

Table 441. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site. December 1950-1964

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.01 | 0.04 | 0.07 | 0.05 | 0.05 | 0.06 | 0.15 | 0.00 | 0.00 | 0.04 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.03 | 0.02 | 0.09 | 0.10 | 0.06 | 0.18 | 0.16 | 0.16 | 0.24 | 0.00 | 0.00 | 1.08 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.10 | 0.11 | 0.12 | 0.30 | 0.35 | 0.44 | 0.47 | 0.31 | 0.30 | 0.47 | 0.00 | 0.00 | 2.99 |
| 0--4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.08 | 0.20 | 0.27 | 0.37 | 0.35 | 0.46 | 0.52 | 0.61 | 0.33 | 0.65 | 0.00 | 0.00 | 3.88 |
| 5--9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.01 | 0.09 | 0.14 | 0.30 | 0.52 | 0.75 | 0.65 | 0.74 | 0.59 | 0.51 | 0.61 | 0.00 | 0.00 | 4.96 |
| 10--14 | 0.01 | 0.00 | 0.03 | 0.01 | 0.04 | 0.05 | 0.15 | 0.33 | 0.53 | 0.65 | 0.97 | 1.04 | 0.85 | 0.67 | 0.53 | 0.59 | 0.00 | 0.00 | 6.46 |
| 15--19 | 0.00 | 0.01 | 0.01 | 0.03 | 0.09 | 0.08 | 0.30 | 0.40 | 0.82 | 1.33 | 1.68 | 1.50 | 1.33 | 1.10 | 0.73 | 0.63 | 0.00 | 0.00 | 10.02 |
| 20--24 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 | 0.13 | 0.39 | 0.51 | 1.24 | 2.35 | 3.17 | 2.57 | 1.72 | 1.11 | 0.58 | 0.80 | 0.00 | 0.00 | 14.64 |
| 25--29 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.18 | 0.24 | 0.69 | 1.52 | 2.86 | 4.47 | 3.63 | 2.26 | 1.25 | 0.47 | 0.50 | 0.00 | 0.00 | 18.13 |
| 30--34 | 0.02 | 0.00 | 0.01 | 0.03 | 0.11 | 0.21 | 0.40 | 0.77 | 1.51 | 3.49 | 5.35 | 3.83 | 1.59 | 0.82 | 0.36 | 0.39 | 0.00 | 0.00 | 18.87 |
| 35--39 | 0.03 | 0.02 | 0.03 | 0.04 | 0.12 | 0.17 | 0.38 | 0.47 | 1.05 | 1.65 | 1.73 | 1.22 | 0.76 | 0.42 | 0.22 | 0.26 | 0.00 | 0.00 | 8.56 |
| 40--44 | 0.01 | 0.02 | 0.04 | 0.04 | 0.06 | 0.16 | 0.23 | 0.27 | 0.73 | 0.81 | 0.77 | 0.61 | 0.29 | 0.18 | 0.12 | 0.17 | 0.00 | 0.00 | 4.51 |
| 45--49 | 0.05 | 0.01 | 0.07 | 0.04 | 0.10 | 0.09 | 0.66 | 0.23 | 0.42 | 0.49 | 0.47 | 0.25 | 0.26 | 0.13 | 0.03 | 0.12 | 0.00 | 0.00 | 2.83 |
| 50--54 | 0.02 | 0.01 | 0.04 | 0.01 | 0.03 | 0.01 | 0.10 | 0.08 | 0.19 | 0.39 | 0.25 | 0.13 | 0.11 | 0.07 | 0.05 | 0.02 | 0.00 | 0.00 | 1.49 |
| 55--59 | 0.00 | 0.00 | 0.03 | 0.01 | 0.01 | 0.04 | 0.08 | 0.06 | 0.07 | 0.15 | 0.11 | 0.07 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 |
| 60--64 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.15 | 0.11 | 0.07 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 |
| 65--69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70--74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75--79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80--84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.14 | 0.06 | 0.25 | 0.25 | 0.74 | 1.18 | 2.61 | 4.34 | 8.81 | 15.47 | 20.56 | 16.52 | 11.20 | 7.53 | 4.47 | 5.60 | 0.26 | | |

NUMBER OF OBSERVATIONS 11160

| ARGONNE TEMPERATURE (°F) | D' HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | |
|--------------------------|--|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| -15--11 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.03 | 0.04 | 0.11 | 0.04 | 0.04 | 0.01 | 0.04 | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | 0.47 |
| -10--6 | 0.04 | 0.03 | 0.07 | 0.07 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.21 | 0.04 | 0.04 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.08 |
| -5--1 | 0.06 | 0.06 | 0.05 | 0.13 | 0.10 | 0.14 | 0.13 | 0.30 | 0.37 | 0.43 | 0.55 | 0.26 | 0.18 | 0.10 | 0.11 | 0.02 | 0.00 | 0.00 | 2.99 |
| 0--4 | 0.06 | 0.04 | 0.09 | 0.16 | 0.10 | 0.13 | 0.20 | 0.35 | 0.45 | 0.77 | 0.56 | 0.35 | 0.33 | 0.13 | 0.09 | 0.07 | 0.00 | 0.00 | 3.88 |
| 5--9 | 0.11 | 0.01 | 0.04 | 0.04 | 0.08 | 0.20 | 0.28 | 0.44 | 0.79 | 1.01 | 0.75 | 0.52 | 0.29 | 0.22 | 0.11 | 0.08 | 0.00 | 0.00 | 4.96 |
| 10--14 | 0.13 | 0.03 | 0.07 | 0.10 | 0.20 | 0.22 | 0.44 | 0.84 | 1.10 | 1.17 | 0.82 | 0.61 | 0.37 | 0.21 | 0.08 | 0.07 | 0.00 | 0.00 | 6.46 |
| 15--19 | 0.11 | 0.04 | 0.10 | 0.20 | 0.22 | 0.26 | 0.57 | 0.91 | 1.29 | 2.33 | 1.85 | 1.05 | 0.54 | 0.24 | 0.19 | 0.12 | 0.00 | 0.00 | 10.02 |
| 20--24 | 0.13 | 0.04 | 0.08 | 0.13 | 0.18 | 0.33 | 0.66 | 1.34 | 2.37 | 3.34 | 2.96 | 1.69 | 0.73 | 0.38 | 0.14 | 0.14 | 0.00 | 0.00 | 14.64 |
| 25--29 | 0.03 | 0.01 | 0.04 | 0.06 | 0.27 | 0.30 | 0.91 | 1.84 | 3.30 | 4.32 | 3.32 | 2.23 | 0.93 | 0.39 | 0.11 | 0.05 | 0.00 | 0.00 | 18.13 |
| 30--34 | 0.05 | 0.02 | 0.10 | 0.06 | 0.16 | 0.32 | 0.70 | 1.65 | 3.86 | 5.31 | 3.88 | 1.83 | 0.59 | 0.26 | 0.05 | 0.01 | 0.01 | 0.00 | 18.87 |
| 35--39 | 0.13 | 0.04 | 0.06 | 0.05 | 0.12 | 0.16 | 0.56 | 1.16 | 2.23 | 2.26 | 1.04 | 0.45 | 0.21 | 0.04 | 0.02 | 0.04 | 0.00 | 0.00 | 8.56 |
| 40--44 | 0.09 | 0.03 | 0.06 | 0.08 | 0.14 | 0.23 | 0.44 | 0.79 | 1.08 | 0.93 | 0.39 | 0.17 | 0.04 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 4.51 |
| 45--49 | 0.09 | 0.02 | 0.04 | 0.08 | 0.06 | 0.22 | 0.28 | 0.55 | 0.50 | 0.52 | 0.19 | 0.19 | 0.07 | 0.01 | 0.00 | 0.02 | 0.00 | 0.00 | 2.83 |
| 50--54 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.05 | 0.22 | 0.31 | 0.33 | 0.27 | 0.12 | 0.07 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 1.49 |
| 55--59 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.03 | 0.04 | 0.12 | 0.16 | 0.10 | 0.12 | 0.11 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 |
| 60--64 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 |
| 65--69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70--74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75--79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80--84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85--89 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | 1.06 | 0.35 | 0.86 | 1.21 | 1.74 | 2.73 | 5.58 | 10.78 | 18.09 | 23.04 | 16.63 | 9.59 | 4.42 | 2.04 | 0.93 | 0.66 | 0.29 | | |

Table 442. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site and Temperature (°F) at the Argonne Meteorology Site.
January 1950-December 1964

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 131496 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.03 | 0.00 | 0.14 |
| -10--6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.04 | 0.07 | 0.00 | 0.32 |
| -5--1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.08 | 0.10 | 0.10 | 0.10 | 0.08 | 0.07 | 0.11 | 0.00 | 0.77 |
| 0--4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.08 | 0.11 | 0.13 | 0.15 | 0.17 | 0.15 | 0.12 | 0.16 | 0.00 | 1.18 |
| 5--9 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.04 | 0.07 | 0.09 | 0.13 | 0.18 | 0.19 | 0.22 | 0.18 | 0.15 | 0.17 | 0.00 | 1.47 |
| 10--14 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.05 | 0.09 | 0.16 | 0.21 | 0.28 | 0.30 | 0.29 | 0.25 | 0.18 | 0.18 | 0.00 | 2.04 |
| 15--19 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.08 | 0.13 | 0.22 | 0.40 | 0.53 | 0.48 | 0.50 | 0.38 | 0.24 | 0.22 | 0.00 | 3.23 |
| 20--24 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.12 | 0.18 | 0.40 | 0.72 | 1.02 | 0.84 | 0.68 | 0.46 | 0.26 | 0.26 | 0.00 | 5.04 |
| 25--29 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.09 | 0.16 | 0.32 | 0.64 | 1.17 | 1.63 | 1.32 | 0.87 | 0.51 | 0.26 | 0.27 | 0.00 | 7.28 |
| 30--34 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.12 | 0.22 | 0.47 | 0.99 | 1.80 | 2.32 | 1.67 | 0.91 | 0.53 | 0.30 | 0.39 | 0.00 | 9.81 |
| 35--39 | 0.01 | 0.01 | 0.02 | 0.04 | 0.09 | 0.13 | 0.25 | 0.42 | 0.77 | 1.14 | 1.26 | 0.95 | 0.64 | 0.43 | 0.32 | 0.47 | 0.01 | 6.95 |
| 40--44 | 0.01 | 0.01 | 0.02 | 0.06 | 0.11 | 0.20 | 0.28 | 0.40 | 0.59 | 0.86 | 0.92 | 0.78 | 0.61 | 0.44 | 0.32 | 0.49 | 0.01 | 6.13 |
| 45--49 | 0.02 | 0.01 | 0.04 | 0.08 | 0.13 | 0.20 | 0.26 | 0.41 | 0.67 | 0.89 | 0.93 | 0.73 | 0.61 | 0.45 | 0.34 | 0.59 | 0.00 | 6.36 |
| 50--54 | 0.02 | 0.02 | 0.05 | 0.07 | 0.14 | 0.23 | 0.31 | 0.47 | 0.67 | 0.84 | 0.87 | 0.81 | 0.70 | 0.52 | 0.40 | 0.76 | 0.00 | 6.91 |
| 55--59 | 0.03 | 0.02 | 0.05 | 0.10 | 0.15 | 0.25 | 0.35 | 0.48 | 0.66 | 0.90 | 0.89 | 0.82 | 0.72 | 0.63 | 0.50 | 0.84 | 0.00 | 7.37 |
| 60--64 | 0.03 | 0.03 | 0.05 | 0.10 | 0.17 | 0.24 | 0.39 | 0.54 | 0.76 | 1.05 | 1.00 | 1.02 | 0.89 | 0.70 | 0.53 | 0.92 | 0.00 | 8.41 |
| 65--69 | 0.02 | 0.02 | 0.06 | 0.12 | 0.17 | 0.30 | 0.46 | 0.65 | 0.91 | 1.10 | 1.14 | 1.02 | 0.93 | 0.71 | 0.53 | 0.92 | 0.00 | 9.06 |
| 70--74 | 0.02 | 0.02 | 0.05 | 0.10 | 0.15 | 0.27 | 0.44 | 0.64 | 0.79 | 0.91 | 0.88 | 0.80 | 0.67 | 0.52 | 0.39 | 0.73 | 0.00 | 7.40 |
| 75--79 | 0.01 | 0.01 | 0.03 | 0.06 | 0.14 | 0.22 | 0.36 | 0.42 | 0.55 | 0.63 | 0.60 | 0.52 | 0.44 | 0.34 | 0.26 | 0.49 | 0.00 | 5.10 |
| 80--84 | 0.01 | 0.01 | 0.01 | 0.03 | 0.06 | 0.11 | 0.17 | 0.25 | 0.32 | 0.36 | 0.41 | 0.33 | 0.29 | 0.24 | 0.16 | 0.23 | 0.00 | 2.99 |
| 85--89 | 0.01 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.05 | 0.10 | 0.14 | 0.18 | 0.21 | 0.19 | 0.14 | 0.13 | 0.08 | 0.08 | 0.00 | 1.38 |
| 90--94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.04 | 0.03 | 0.01 | 0.01 | 0.00 | 0.30 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 |
| TOTAL | 0.20 | 0.18 | 0.43 | 0.83 | 1.49 | 2.53 | 4.07 | 6.17 | 9.50 | 13.59 | 15.41 | 13.14 | 10.48 | 7.74 | 5.48 | 8.41 | 0.35 | |

| ARGONNE TEMPERATURE (°F) | NUMBER OF OBSERVATIONS 131496 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| < -15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| -15--11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 |
| -10--6 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.04 | 0.02 | 0.02 | 0.01 | 0.00 | 0.01 | 0.00 | 0.32 |
| -5--1 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.12 | 0.13 | 0.13 | 0.05 | 0.04 | 0.03 | 0.01 | 0.01 | 0.00 | 0.77 |
| 0--4 | 0.02 | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.08 | 0.12 | 0.20 | 0.23 | 0.18 | 0.10 | 0.06 | 0.03 | 0.02 | 0.02 | 0.00 | 1.18 |
| 5--9 | 0.02 | 0.01 | 0.01 | 0.02 | 0.03 | 0.07 | 0.09 | 0.15 | 0.25 | 0.28 | 0.22 | 0.15 | 0.09 | 0.04 | 0.02 | 0.03 | 0.00 | 1.47 |
| 10--14 | 0.02 | 0.02 | 0.02 | 0.03 | 0.05 | 0.08 | 0.11 | 0.25 | 0.30 | 0.36 | 0.32 | 0.25 | 0.11 | 0.05 | 0.03 | 0.03 | 0.00 | 2.04 |
| 15--19 | 0.02 | 0.01 | 0.03 | 0.04 | 0.06 | 0.09 | 0.18 | 0.32 | 0.46 | 0.72 | 0.61 | 0.35 | 0.18 | 0.07 | 0.05 | 0.03 | 0.00 | 3.23 |
| 20--24 | 0.03 | 0.01 | 0.03 | 0.04 | 0.06 | 0.13 | 0.27 | 0.52 | 0.94 | 1.17 | 0.89 | 0.51 | 0.25 | 0.12 | 0.04 | 0.03 | 0.00 | 5.04 |
| 25--29 | 0.02 | 0.01 | 0.02 | 0.05 | 0.09 | 0.17 | 0.37 | 0.80 | 1.50 | 1.84 | 1.31 | 0.68 | 0.25 | 0.09 | 0.04 | 0.03 | 0.00 | 7.28 |
| 30--34 | 0.03 | 0.01 | 0.03 | 0.06 | 0.12 | 0.28 | 0.52 | 1.20 | 2.34 | 2.62 | 1.49 | 0.65 | 0.26 | 0.13 | 0.04 | 0.02 | 0.00 | 9.81 |
| 35--39 | 0.03 | 0.02 | 0.04 | 0.07 | 0.15 | 0.30 | 0.60 | 1.07 | 1.55 | 1.47 | 0.91 | 0.42 | 0.19 | 0.09 | 0.04 | 0.02 | 0.00 | 6.95 |
| 40--44 | 0.05 | 0.04 | 0.06 | 0.10 | 0.21 | 0.36 | 0.62 | 0.92 | 1.18 | 1.08 | 0.75 | 0.41 | 0.20 | 0.09 | 0.03 | 0.02 | 0.00 | 6.13 |
| 45--49 | 0.08 | 0.04 | 0.08 | 0.15 | 0.24 | 0.41 | 0.69 | 0.95 | 1.16 | 1.08 | 0.71 | 0.40 | 0.21 | 0.09 | 0.04 | 0.03 | 0.00 | 6.36 |
| 50--54 | 0.07 | 0.06 | 0.11 | 0.19 | 0.31 | 0.45 | 0.75 | 1.03 | 1.16 | 1.02 | 0.75 | 0.51 | 0.27 | 0.13 | 0.06 | 0.04 | 0.00 | 6.91 |
| 55--59 | 0.09 | 0.06 | 0.13 | 0.19 | 0.31 | 0.44 | 0.68 | 0.98 | 1.37 | 1.23 | 0.84 | 0.51 | 0.30 | 0.13 | 0.06 | 0.05 | 0.00 | 7.37 |
| 60--64 | 0.09 | 0.05 | 0.10 | 0.15 | 0.26 | 0.43 | 0.74 | 1.23 | 1.60 | 1.51 | 1.01 | 0.60 | 0.34 | 0.17 | 0.07 | 0.06 | 0.00 | 8.41 |
| 65--69 | 0.08 | 0.04 | 0.07 | 0.12 | 0.24 | 0.43 | 0.84 | 1.29 | 1.66 | 1.59 | 1.21 | 0.75 | 0.39 | 0.19 | 0.10 | 0.07 | 0.00 | 9.06 |
| 70--74 | 0.06 | 0.04 | 0.06 | 0.11 | 0.20 | 0.35 | 0.63 | 1.03 | 1.26 | 1.38 | 1.05 | 0.63 | 0.32 | 0.16 | 0.06 | 0.06 | 0.00 | 7.40 |
| 75--79 | 0.06 | 0.03 | 0.05 | 0.08 | 0.13 | 0.23 | 0.38 | 0.63 | 0.90 | 0.94 | 0.75 | 0.48 | 0.25 | 0.12 | 0.04 | 0.03 | 0.00 | 5.10 |
| 80--84 | 0.05 | 0.02 | 0.03 | 0.04 | 0.07 | 0.10 | 0.20 | 0.36 | 0.49 | 0.56 | 0.49 | 0.32 | 0.15 | 0.06 | 0.02 | 0.02 | 0.00 | 2.99 |
| 85--89 | 0.02 | 0.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.08 | 0.16 | 0.22 | 0.27 | 0.26 | 0.14 | 0.07 | 0.02 | 0.00 | 0.00 | 0.00 | 1.38 |
| 90--94 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 |
| > 94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| MISSING | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 |
| TOTAL | 0.88 | 0.51 | 0.90 | 1.51 | 2.65 | 4.51 | 7.96 | 13.21 | 18.78 | 19.60 | 13.99 | 7.97 | 3.97 | 1.83 | 0.80 | 0.62 | 0.34 | |

Table 443. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. January 1950-1964

NUMBER OF OBSERVATIONS 11160

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.04 | 0.16 | 0.28 | 0.50 | 0.88 | 0.65 | 0.64 | 0.41 | 0.25 | 0.30 | 0.01 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.18 | 0.34 | 0.62 | 0.75 | 0.71 | 0.57 | 0.35 | 0.27 | 0.30 | 0.01 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.15 | 0.29 | 0.63 | 0.83 | 0.76 | 0.52 | 0.40 | 0.19 | 0.31 | 0.01 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.15 | 0.36 | 0.57 | 0.77 | 0.85 | 0.48 | 0.42 | 0.26 | 0.20 | 0.01 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.04 | 0.19 | 0.41 | 0.48 | 0.98 | 0.74 | 0.53 | 0.30 | 0.23 | 0.22 | 0.01 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.10 | 0.43 | 0.60 | 0.90 | 0.75 | 0.49 | 0.34 | 0.22 | 0.24 | 0.01 | 4.17 |
| 7 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.13 | 0.39 | 0.70 | 0.81 | 0.74 | 0.55 | 0.34 | 0.19 | 0.23 | 0.01 | 4.17 |
| 8 | 0.01 | 0.00 | 0.00 | 0.00 | 0.04 | 0.02 | 0.10 | 0.22 | 0.51 | 0.82 | 1.07 | 0.58 | 0.42 | 0.21 | 0.07 | 0.10 | 0.01 | 4.17 |
| 9 | 0.01 | 0.00 | 0.01 | 0.02 | 0.10 | 0.11 | 0.25 | 0.48 | 0.69 | 0.91 | 0.87 | 0.35 | 0.21 | 0.12 | 0.04 | 0.00 | 0.01 | 4.17 |
| 10 | 0.00 | 0.01 | 0.03 | 0.05 | 0.11 | 0.28 | 0.36 | 0.60 | 0.68 | 0.73 | 0.73 | 0.39 | 0.11 | 0.08 | 0.01 | 0.02 | 0.00 | 4.17 |
| 11 | 0.01 | 0.03 | 0.03 | 0.07 | 0.13 | 0.26 | 0.38 | 0.56 | 0.82 | 0.75 | 0.63 | 0.23 | 0.16 | 0.05 | 0.03 | 0.03 | 0.00 | 4.17 |
| 12 | 0.00 | 0.00 | 0.03 | 0.08 | 0.08 | 0.21 | 0.34 | 0.51 | 0.76 | 0.91 | 0.65 | 0.26 | 0.22 | 0.08 | 0.02 | 0.03 | 0.00 | 4.17 |
| 13 | 0.00 | 0.01 | 0.00 | 0.04 | 0.10 | 0.17 | 0.37 | 0.47 | 0.74 | 0.92 | 0.63 | 0.38 | 0.20 | 0.09 | 0.04 | 0.02 | 0.00 | 4.17 |
| 14 | 0.01 | 0.00 | 0.01 | 0.00 | 0.05 | 0.04 | 0.21 | 0.39 | 0.62 | 0.95 | 0.94 | 0.51 | 0.27 | 0.09 | 0.05 | 0.02 | 0.01 | 4.17 |
| 15 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.07 | 0.31 | 0.56 | 0.74 | 1.06 | 0.80 | 0.30 | 0.11 | 0.06 | 0.10 | 0.01 | 4.17 |
| 16 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.04 | 0.08 | 0.24 | 0.48 | 0.99 | 0.99 | 0.68 | 0.37 | 0.10 | 0.18 | 0.01 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.14 | 0.42 | 0.73 | 0.83 | 0.79 | 0.43 | 0.35 | 0.38 | 0.01 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.22 | 0.40 | 0.90 | 0.72 | 0.71 | 0.43 | 0.28 | 0.42 | 0.01 | 4.17 |
| 19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.10 | 0.18 | 0.49 | 0.92 | 0.72 | 0.64 | 0.47 | 0.23 | 0.38 | 0.01 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.07 | 0.16 | 0.61 | 0.81 | 0.82 | 0.69 | 0.40 | 0.31 | 0.28 | 0.01 | 4.17 |
| 21 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.12 | 0.22 | 0.53 | 0.99 | 0.73 | 0.53 | 0.46 | 0.32 | 0.22 | 0.01 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.04 | 0.10 | 0.30 | 0.53 | 0.82 | 0.81 | 0.67 | 0.42 | 0.22 | 0.23 | 0.01 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.12 | 0.27 | 0.64 | 1.00 | 0.58 | 0.65 | 0.30 | 0.29 | 0.24 | 0.01 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.04 | 0.11 | 0.33 | 0.46 | 0.98 | 0.81 | 0.48 | 0.44 | 0.23 | 0.25 | 0.01 | 4.17 |
| TOTAL | 0.05 | 0.04 | 0.10 | 0.31 | 0.71 | 1.33 | 2.62 | 5.44 | 9.93 | 15.39 | 20.62 | 15.69 | 11.51 | 7.12 | 4.27 | 4.69 | 0.18 | |

NUMBER OF OBSERVATIONS 11160

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.04 | 0.04 | 0.05 | 0.02 | 0.09 | 0.26 | 0.30 | 0.35 | 0.71 | 1.02 | 0.61 | 0.32 | 0.16 | 0.11 | 0.04 | 0.04 | 0.01 | 4.17 |
| 2 | 0.03 | 0.04 | 0.01 | 0.04 | 0.12 | 0.14 | 0.37 | 0.51 | 0.73 | 0.83 | 0.72 | 0.30 | 0.21 | 0.04 | 0.05 | 0.03 | 0.01 | 4.17 |
| 3 | 0.04 | 0.02 | 0.02 | 0.07 | 0.08 | 0.19 | 0.41 | 0.42 | 0.72 | 0.86 | 0.61 | 0.35 | 0.21 | 0.06 | 0.05 | 0.04 | 0.01 | 4.17 |
| 4 | 0.04 | 0.02 | 0.03 | 0.04 | 0.07 | 0.26 | 0.34 | 0.50 | 0.65 | 0.87 | 0.63 | 0.34 | 0.20 | 0.08 | 0.05 | 0.04 | 0.01 | 4.17 |
| 5 | 0.04 | 0.01 | 0.09 | 0.04 | 0.15 | 0.13 | 0.30 | 0.50 | 0.78 | 0.87 | 0.65 | 0.29 | 0.14 | 0.11 | 0.05 | 0.01 | 0.01 | 4.17 |
| 6 | 0.03 | 0.02 | 0.04 | 0.07 | 0.11 | 0.20 | 0.28 | 0.56 | 0.75 | 0.88 | 0.62 | 0.29 | 0.15 | 0.08 | 0.04 | 0.04 | 0.01 | 4.17 |
| 7 | 0.06 | 0.02 | 0.03 | 0.06 | 0.10 | 0.23 | 0.30 | 0.43 | 0.73 | 0.72 | 0.65 | 0.33 | 0.15 | 0.09 | 0.01 | 0.04 | 0.01 | 4.17 |
| 8 | 0.04 | 0.01 | 0.03 | 0.06 | 0.11 | 0.19 | 0.30 | 0.52 | 0.85 | 0.91 | 0.61 | 0.30 | 0.13 | 0.08 | 0.01 | 0.02 | 0.01 | 4.17 |
| 9 | 0.04 | 0.02 | 0.03 | 0.04 | 0.08 | 0.18 | 0.30 | 0.62 | 0.82 | 0.99 | 0.55 | 0.27 | 0.11 | 0.04 | 0.04 | 0.04 | 0.01 | 4.17 |
| 10 | 0.03 | 0.00 | 0.03 | 0.04 | 0.10 | 0.22 | 0.32 | 0.62 | 0.98 | 0.76 | 0.53 | 0.27 | 0.16 | 0.03 | 0.04 | 0.04 | 0.00 | 4.17 |
| 11 | 0.03 | 0.01 | 0.04 | 0.07 | 0.07 | 0.20 | 0.39 | 0.57 | 1.02 | 0.85 | 0.44 | 0.16 | 0.14 | 0.07 | 0.06 | 0.04 | 0.00 | 4.17 |
| 12 | 0.01 | 0.02 | 0.02 | 0.08 | 0.13 | 0.20 | 0.32 | 0.70 | 0.96 | 0.84 | 0.39 | 0.22 | 0.15 | 0.07 | 0.02 | 0.04 | 0.00 | 4.17 |
| 13 | 0.01 | 0.01 | 0.04 | 0.03 | 0.10 | 0.18 | 0.39 | 0.68 | 0.78 | 0.99 | 0.46 | 0.33 | 0.07 | 0.06 | 0.02 | 0.03 | 0.00 | 4.17 |
| 14 | 0.00 | 0.00 | 0.01 | 0.02 | 0.10 | 0.16 | 0.36 | 0.58 | 0.96 | 0.96 | 0.54 | 0.29 | 0.09 | 0.05 | 0.04 | 0.00 | 0.01 | 4.17 |
| 15 | 0.00 | 0.01 | 0.03 | 0.03 | 0.03 | 0.15 | 0.34 | 0.57 | 1.02 | 0.88 | 0.72 | 0.17 | 0.11 | 0.06 | 0.01 | 0.04 | 0.01 | 4.17 |
| 16 | 0.01 | 0.00 | 0.01 | 0.01 | 0.06 | 0.09 | 0.26 | 0.59 | 0.91 | 1.15 | 0.60 | 0.23 | 0.13 | 0.06 | 0.02 | 0.04 | 0.01 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | 0.10 | 0.26 | 0.59 | 0.84 | 0.91 | 0.86 | 0.31 | 0.10 | 0.04 | 0.04 | 0.01 | 0.01 | 4.17 |
| 18 | 0.01 | 0.00 | 0.00 | 0.03 | 0.07 | 0.14 | 0.25 | 0.46 | 0.84 | 0.99 | 0.67 | 0.43 | 0.16 | 0.06 | 0.03 | 0.02 | 0.01 | 4.17 |
| 19 | 0.01 | 0.02 | 0.02 | 0.02 | 0.05 | 0.22 | 0.50 | 0.82 | 0.86 | 0.77 | 0.31 | 0.18 | 0.18 | 0.08 | 0.03 | 0.04 | 0.01 | 4.17 |
| 20 | 0.01 | 0.03 | 0.01 | 0.05 | 0.10 | 0.18 | 0.22 | 0.44 | 0.87 | 0.97 | 0.57 | 0.40 | 0.21 | 0.05 | 0.01 | 0.04 | 0.01 | 4.17 |
| 21 | 0.04 | 0.01 | 0.01 | 0.10 | 0.05 | 0.18 | 0.33 | 0.51 | 0.64 | 1.01 | 0.64 | 0.34 | 0.14 | 0.12 | 0.02 | 0.03 | 0.01 | 4.17 |
| 22 | 0.02 | 0.02 | 0.03 | 0.08 | 0.12 | 0.16 | 0.30 | 0.41 | 0.77 | 0.91 | 0.67 | 0.33 | 0.18 | 0.11 | 0.04 | 0.02 | 0.01 | 4.17 |
| 23 | 0.03 | 0.01 | 0.05 | 0.10 | 0.11 | 0.13 | 0.26 | 0.43 | 0.89 | 0.83 | 0.69 | 0.36 | 0.15 | 0.09 | 0.01 | 0.03 | 0.01 | 4.17 |
| 24 | 0.03 | 0.01 | 0.08 | 0.06 | 0.12 | 0.16 | 0.23 | 0.47 | 0.82 | 0.91 | 0.63 | 0.34 | 0.21 | 0.04 | 0.03 | 0.04 | 0.01 | 4.17 |
| TOTAL | 0.57 | 0.32 | 0.68 | 1.19 | 2.17 | 4.25 | 7.34 | 12.55 | 19.85 | 21.96 | 14.80 | 7.28 | 3.64 | 1.69 | 0.77 | 0.74 | 0.18 | |

Table 444. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. February 1950-1964

NUMBER OF OBSERVATIONS 10176

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.11 | 0.25 | 0.55 | 0.86 | 0.82 | 0.58 | 0.39 | 0.25 | 0.30 | 0.02 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.10 | 0.28 | 0.63 | 0.90 | 0.75 | 0.56 | 0.38 | 0.19 | 0.31 | 0.02 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.01 | 0.12 | 0.27 | 0.67 | 1.00 | 0.58 | 0.58 | 0.36 | 0.28 | 0.24 | 0.02 | 4.17 |
| 4 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.17 | 0.35 | 0.60 | 0.92 | 0.62 | 0.51 | 0.37 | 0.26 | 0.28 | 0.02 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.22 | 0.25 | 0.67 | 0.86 | 0.66 | 0.54 | 0.40 | 0.19 | 0.28 | 0.02 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.16 | 0.39 | 0.77 | 0.68 | 0.68 | 0.55 | 0.35 | 0.23 | 0.23 | 0.03 | 4.17 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.20 | 0.37 | 0.75 | 0.89 | 0.73 | 0.45 | 0.27 | 0.17 | 0.19 | 0.03 | 4.17 |
| 8 | 0.02 | 0.00 | 0.02 | 0.03 | 0.04 | 0.15 | 0.24 | 0.44 | 0.57 | 0.93 | 0.81 | 0.48 | 0.21 | 0.09 | 0.05 | 0.08 | 0.02 | 4.17 |
| 9 | 0.06 | 0.01 | 0.07 | 0.08 | 0.18 | 0.22 | 0.35 | 0.60 | 0.62 | 0.83 | 0.72 | 0.21 | 0.08 | 0.10 | 0.02 | 0.02 | 0.02 | 4.17 |
| 10 | 0.06 | 0.03 | 0.04 | 0.12 | 0.15 | 0.29 | 0.45 | 0.53 | 0.73 | 0.86 | 0.46 | 0.24 | 0.12 | 0.04 | 0.00 | 0.03 | 0.02 | 4.17 |
| 11 | 0.04 | 0.02 | 0.08 | 0.08 | 0.10 | 0.28 | 0.48 | 0.74 | 0.72 | 0.76 | 0.48 | 0.20 | 0.07 | 0.07 | 0.03 | 0.02 | 0.02 | 4.17 |
| 12 | 0.04 | 0.00 | 0.05 | 0.10 | 0.16 | 0.14 | 0.39 | 0.65 | 0.78 | 0.78 | 0.53 | 0.28 | 0.10 | 0.11 | 0.03 | 0.02 | 0.02 | 4.17 |
| 13 | 0.00 | 0.02 | 0.02 | 0.08 | 0.10 | 0.24 | 0.38 | 0.45 | 0.79 | 0.81 | 0.64 | 0.38 | 0.11 | 0.06 | 0.06 | 0.02 | 0.02 | 4.17 |
| 14 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.11 | 0.32 | 0.47 | 0.69 | 0.95 | 0.72 | 0.46 | 0.27 | 0.09 | 0.02 | 0.01 | 0.03 | 4.17 |
| 15 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.10 | 0.29 | 0.64 | 1.00 | 0.96 | 0.51 | 0.32 | 0.20 | 0.00 | 0.05 | 0.02 | 4.17 |
| 16 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.12 | 0.36 | 0.86 | 1.09 | 0.76 | 0.45 | 0.24 | 0.10 | 0.09 | 0.03 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.03 | 0.16 | 0.61 | 0.94 | 0.80 | 0.72 | 0.35 | 0.28 | 0.23 | 0.03 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.17 | 0.48 | 0.75 | 0.84 | 0.59 | 0.53 | 0.34 | 0.40 | 0.03 | 4.17 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.14 | 0.51 | 0.92 | 0.67 | 0.64 | 0.48 | 0.35 | 0.35 | 0.02 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.25 | 0.53 | 1.01 | 0.61 | 0.67 | 0.34 | 0.39 | 0.28 | 0.02 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.25 | 0.56 | 0.93 | 0.70 | 0.58 | 0.37 | 0.33 | 0.34 | 0.02 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.10 | 0.18 | 0.60 | 0.90 | 0.56 | 0.72 | 0.47 | 0.28 | 0.30 | 0.02 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.19 | 0.65 | 0.97 | 0.67 | 0.55 | 0.49 | 0.28 | 0.29 | 0.02 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.07 | 0.17 | 0.66 | 0.89 | 0.74 | 0.64 | 0.37 | 0.27 | 0.29 | 0.02 | 4.17 |
| TOTAL | 0.22 | 0.10 | 0.28 | 0.50 | 0.80 | 1.63 | 3.23 | 5.81 | 9.52 | 17.01 | 19.87 | 13.92 | 10.59 | 6.94 | 4.39 | 4.66 | 0.53 | |

NUMBER OF OBSERVATIONS 10176

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.01 | 0.02 | 0.03 | 0.06 | 0.07 | 0.13 | 0.26 | 0.55 | 0.87 | 0.94 | 0.66 | 0.32 | 0.13 | 0.03 | 0.03 | 0.04 | 0.02 | 4.17 |
| 2 | 0.03 | 0.00 | 0.06 | 0.01 | 0.11 | 0.13 | 0.24 | 0.57 | 0.93 | 1.01 | 0.51 | 0.32 | 0.15 | 0.02 | 0.01 | 0.05 | 0.02 | 4.17 |
| 3 | 0.03 | 0.03 | 0.01 | 0.04 | 0.08 | 0.13 | 0.25 | 0.52 | 1.03 | 0.88 | 0.56 | 0.34 | 0.11 | 0.06 | 0.02 | 0.06 | 0.02 | 4.17 |
| 4 | 0.03 | 0.03 | 0.02 | 0.03 | 0.09 | 0.18 | 0.26 | 0.49 | 0.93 | 1.00 | 0.64 | 0.20 | 0.14 | 0.03 | 0.03 | 0.06 | 0.02 | 4.17 |
| 5 | 0.03 | 0.02 | 0.05 | 0.01 | 0.10 | 0.17 | 0.25 | 0.51 | 0.74 | 1.16 | 0.63 | 0.23 | 0.17 | 0.06 | 0.01 | 0.03 | 0.02 | 4.17 |
| 6 | 0.04 | 0.01 | 0.03 | 0.08 | 0.10 | 0.09 | 0.22 | 0.63 | 0.86 | 1.03 | 0.57 | 0.27 | 0.14 | 0.04 | 0.03 | 0.02 | 0.02 | 4.17 |
| 7 | 0.06 | 0.04 | 0.04 | 0.04 | 0.09 | 0.09 | 0.30 | 0.55 | 0.96 | 0.89 | 0.57 | 0.28 | 0.10 | 0.10 | 0.02 | 0.02 | 0.02 | 4.17 |
| 8 | 0.05 | 0.06 | 0.04 | 0.05 | 0.04 | 0.19 | 0.28 | 0.63 | 0.89 | 1.01 | 0.55 | 0.23 | 0.08 | 0.03 | 0.02 | 0.01 | 0.02 | 4.17 |
| 9 | 0.09 | 0.01 | 0.04 | 0.04 | 0.11 | 0.11 | 0.42 | 0.59 | 0.97 | 1.07 | 0.40 | 0.15 | 0.08 | 0.03 | 0.02 | 0.01 | 0.03 | 4.17 |
| 10 | 0.04 | 0.04 | 0.04 | 0.08 | 0.10 | 0.18 | 0.38 | 0.63 | 1.00 | 0.97 | 0.36 | 0.21 | 0.08 | 0.01 | 0.02 | 0.01 | 0.02 | 4.17 |
| 11 | 0.02 | 0.06 | 0.06 | 0.08 | 0.16 | 0.22 | 0.38 | 0.66 | 0.94 | 0.72 | 0.52 | 0.17 | 0.10 | 0.03 | 0.02 | 0.02 | 0.02 | 4.17 |
| 12 | 0.02 | 0.04 | 0.05 | 0.08 | 0.12 | 0.26 | 0.37 | 0.67 | 0.88 | 0.88 | 0.42 | 0.24 | 0.05 | 0.04 | 0.01 | 0.02 | 0.02 | 4.17 |
| 13 | 0.01 | 0.02 | 0.02 | 0.09 | 0.18 | 0.19 | 0.39 | 0.72 | 0.89 | 0.89 | 0.46 | 0.15 | 0.10 | 0.01 | 0.01 | 0.02 | 0.02 | 4.17 |
| 14 | 0.00 | 0.01 | 0.02 | 0.02 | 0.12 | 0.19 | 0.37 | 0.65 | 1.01 | 0.95 | 0.46 | 0.23 | 0.06 | 0.00 | 0.04 | 0.01 | 0.03 | 4.17 |
| 15 | 0.01 | 0.00 | 0.00 | 0.02 | 0.09 | 0.14 | 0.32 | 0.67 | 0.95 | 0.89 | 0.62 | 0.28 | 0.08 | 0.02 | 0.02 | 0.03 | 0.02 | 4.17 |
| 16 | 0.01 | 0.00 | 0.01 | 0.04 | 0.07 | 0.09 | 0.20 | 0.78 | 1.06 | 0.96 | 0.46 | 0.26 | 0.12 | 0.04 | 0.03 | 0.02 | 0.03 | 4.17 |
| 17 | 0.00 | 0.01 | 0.00 | 0.03 | 0.04 | 0.14 | 0.23 | 0.51 | 0.98 | 1.04 | 0.72 | 0.32 | 0.09 | 0.01 | 0.00 | 0.02 | 0.03 | 4.17 |
| 18 | 0.01 | 0.01 | 0.00 | 0.00 | 0.04 | 0.07 | 0.20 | 0.35 | 1.04 | 1.07 | 0.85 | 0.31 | 0.08 | 0.04 | 0.03 | 0.04 | 0.03 | 4.17 |
| 19 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.11 | 0.19 | 0.39 | 0.97 | 1.06 | 0.78 | 0.30 | 0.14 | 0.05 | 0.03 | 0.03 | 0.04 | 4.17 |
| 20 | 0.00 | 0.01 | 0.02 | 0.06 | 0.06 | 0.07 | 0.21 | 0.45 | 0.88 | 1.16 | 0.69 | 0.30 | 0.13 | 0.05 | 0.04 | 0.02 | 0.02 | 4.17 |
| 21 | 0.01 | 0.02 | 0.02 | 0.05 | 0.08 | 0.08 | 0.24 | 0.52 | 0.73 | 1.11 | 0.74 | 0.29 | 0.14 | 0.07 | 0.04 | 0.02 | 0.02 | 4.17 |
| 22 | 0.02 | 0.02 | 0.02 | 0.06 | 0.07 | 0.11 | 0.24 | 0.50 | 0.79 | 0.93 | 0.73 | 0.44 | 0.12 | 0.08 | 0.02 | 0.01 | 0.02 | 4.17 |
| 23 | 0.06 | 0.00 | 0.04 | 0.07 | 0.06 | 0.12 | 0.22 | 0.43 | 0.85 | 1.07 | 0.45 | 0.50 | 0.16 | 0.06 | 0.04 | 0.03 | 0.02 | 4.17 |
| 24 | 0.03 | 0.01 | 0.03 | 0.06 | 0.09 | 0.11 | 0.22 | 0.43 | 1.06 | 0.92 | 0.53 | 0.31 | 0.23 | 0.03 | 0.05 | 0.04 | 0.02 | 4.17 |
| TOTAL | 0.60 | 0.46 | 0.65 | 1.12 | 2.06 | 3.24 | 6.60 | 13.40 | 22.26 | 23.66 | 13.88 | 6.65 | 2.73 | 0.92 | 0.58 | 0.63 | 0.54 | |

Table 445. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. March 1950-1964

NUMBER OF OBSERVATIONS 11160

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.07 | 0.17 | 0.59 | 0.83 | 0.71 | 0.67 | 0.43 | 0.29 | 0.34 | | |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.06 | 0.24 | 0.53 | 0.85 | 0.82 | 0.58 | 0.44 | 0.33 | 0.24 | 0.03 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.23 | 0.66 | 0.75 | 0.82 | 0.56 | 0.56 | 0.22 | 0.27 | 0.03 | 4.17 |
| 4 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.05 | 0.27 | 0.65 | 0.89 | 0.73 | 0.59 | 0.41 | 0.24 | 0.24 | 0.03 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 | 0.11 | 0.33 | 0.65 | 0.89 | 0.75 | 0.56 | 0.34 | 0.25 | 0.23 | 0.02 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.13 | 0.39 | 0.65 | 0.87 | 0.75 | 0.60 | 0.30 | 0.20 | 0.23 | 0.02 | 4.17 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.13 | 0.07 | 0.32 | 0.69 | 0.89 | 0.89 | 0.55 | 0.30 | 0.13 | 0.08 | 0.05 | 0.02 | 4.17 |
| 8 | 0.01 | 0.01 | 0.04 | 0.08 | 0.13 | 0.17 | 0.25 | 0.59 | 0.74 | 1.02 | 0.58 | 0.29 | 0.16 | 0.04 | 0.03 | 0.01 | 0.02 | 4.17 |
| 9 | 0.04 | 0.02 | 0.06 | 0.12 | 0.13 | 0.36 | 0.55 | 0.61 | 0.79 | 0.83 | 0.39 | 0.14 | 0.06 | 0.04 | 0.01 | 0.00 | 0.01 | 4.17 |
| 10 | 0.03 | 0.01 | 0.09 | 0.16 | 0.23 | 0.38 | 0.41 | 0.66 | 0.78 | 0.72 | 0.42 | 0.18 | 0.06 | 0.01 | 0.02 | 0.00 | 0.01 | 4.17 |
| 11 | 0.03 | 0.01 | 0.04 | 0.10 | 0.27 | 0.37 | 0.41 | 0.60 | 0.83 | 0.69 | 0.50 | 0.17 | 0.10 | 0.03 | 0.00 | 0.01 | 0.01 | 4.17 |
| 12 | 0.02 | 0.01 | 0.04 | 0.10 | 0.18 | 0.27 | 0.53 | 0.57 | 0.74 | 0.64 | 0.64 | 0.22 | 0.11 | 0.04 | 0.01 | 0.04 | 0.02 | 4.17 |
| 13 | 0.04 | 0.02 | 0.03 | 0.06 | 0.17 | 0.30 | 0.43 | 0.54 | 0.73 | 0.78 | 0.56 | 0.24 | 0.13 | 0.07 | 0.02 | 0.04 | 0.03 | 4.17 |
| 14 | 0.00 | 0.01 | 0.03 | 0.04 | 0.08 | 0.21 | 0.43 | 0.56 | 0.65 | 0.77 | 0.62 | 0.43 | 0.16 | 0.04 | 0.04 | 0.08 | 0.03 | 4.17 |
| 15 | 0.00 | 0.01 | 0.01 | 0.02 | 0.07 | 0.11 | 0.32 | 0.35 | 0.61 | 0.91 | 0.68 | 0.54 | 0.26 | 0.11 | 0.05 | 0.09 | 0.04 | 4.17 |
| 16 | 0.01 | 0.00 | 0.01 | 0.02 | 0.02 | 0.08 | 0.16 | 0.29 | 0.58 | 0.79 | 0.80 | 0.69 | 0.38 | 0.15 | 0.07 | 0.09 | 0.04 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.05 | 0.12 | 0.33 | 0.81 | 0.97 | 0.74 | 0.59 | 0.27 | 0.08 | 0.11 | 0.04 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.14 | 0.46 | 0.81 | 0.79 | 0.68 | 0.47 | 0.39 | 0.30 | 0.04 | 4.17 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.12 | 0.44 | 0.72 | 0.86 | 0.56 | 0.56 | 0.35 | 0.47 | 0.04 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.19 | 0.50 | 0.77 | 0.79 | 0.68 | 0.44 | 0.39 | 0.34 | 0.03 | 4.17 |
| 21 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.22 | 0.49 | 0.76 | 0.81 | 0.68 | 0.47 | 0.37 | 0.28 | 0.03 | 4.17 |
| 22 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.07 | 0.22 | 0.52 | 0.80 | 0.78 | 0.59 | 0.50 | 0.30 | 0.32 | 0.03 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.20 | 0.61 | 0.82 | 0.72 | 0.67 | 0.35 | 0.32 | 0.39 | 0.03 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.23 | 0.56 | 0.85 | 0.82 | 0.61 | 0.40 | 0.25 | 0.35 | 0.03 | 4.17 |
| TOTAL | 0.18 | 0.12 | 0.36 | 0.73 | 1.40 | 2.46 | 3.78 | 6.03 | 10.45 | 16.15 | 17.65 | 14.35 | 10.35 | 6.59 | 4.29 | 4.53 | 0.59 | |

NUMBER OF OBSERVATIONS 11160

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.02 | 0.00 | 0.04 | 0.03 | 0.05 | 0.15 | 0.28 | 0.53 | 0.73 | 0.98 | 0.70 | 0.35 | 0.13 | 0.12 | 0.04 | 0.01 | 0.04 | 4.17 |
| 2 | 0.01 | 0.00 | 0.02 | 0.05 | 0.05 | 0.13 | 0.20 | 0.51 | 0.81 | 1.11 | 0.68 | 0.37 | 0.12 | 0.05 | 0.01 | 0.03 | 0.03 | 4.17 |
| 3 | 0.01 | 0.03 | 0.01 | 0.03 | 0.09 | 0.09 | 0.18 | 0.54 | 0.79 | 1.08 | 0.63 | 0.35 | 0.20 | 0.09 | 0.01 | 0.04 | 0.03 | 4.17 |
| 4 | 0.02 | 0.02 | 0.03 | 0.02 | 0.09 | 0.11 | 0.22 | 0.42 | 0.85 | 1.15 | 0.56 | 0.39 | 0.13 | 0.09 | 0.04 | 0.02 | 0.03 | 4.17 |
| 5 | 0.01 | 0.04 | 0.04 | 0.02 | 0.03 | 0.14 | 0.27 | 0.48 | 0.85 | 0.84 | 0.78 | 0.39 | 0.14 | 0.04 | 0.04 | 0.04 | 0.02 | 4.17 |
| 6 | 0.02 | 0.03 | 0.02 | 0.03 | 0.02 | 0.14 | 0.27 | 0.47 | 0.96 | 0.91 | 0.71 | 0.30 | 0.11 | 0.07 | 0.04 | 0.05 | 0.02 | 4.17 |
| 7 | 0.01 | 0.00 | 0.02 | 0.03 | 0.06 | 0.13 | 0.30 | 0.52 | 0.98 | 1.10 | 0.59 | 0.21 | 0.13 | 0.06 | 0.01 | 0.02 | 0.02 | 4.17 |
| 8 | 0.01 | 0.01 | 0.02 | 0.01 | 0.06 | 0.22 | 0.27 | 0.51 | 1.03 | 0.91 | 0.58 | 0.34 | 0.08 | 0.08 | 0.01 | 0.01 | 0.02 | 4.17 |
| 9 | 0.02 | 0.01 | 0.02 | 0.04 | 0.01 | 0.20 | 0.39 | 0.87 | 1.04 | 0.81 | 0.47 | 0.17 | 0.11 | 0.01 | 0.01 | 0.00 | 0.01 | 4.17 |
| 10 | 0.01 | 0.02 | 0.00 | 0.05 | 0.12 | 0.26 | 0.47 | 0.78 | 0.96 | 0.76 | 0.39 | 0.22 | 0.07 | 0.02 | 0.03 | 0.00 | 0.01 | 4.17 |
| 11 | 0.04 | 0.02 | 0.02 | 0.06 | 0.14 | 0.32 | 0.44 | 0.68 | 0.87 | 0.85 | 0.39 | 0.21 | 0.06 | 0.03 | 0.02 | 0.01 | 0.01 | 4.17 |
| 12 | 0.02 | 0.03 | 0.06 | 0.05 | 0.24 | 0.25 | 0.40 | 0.79 | 0.88 | 0.67 | 0.37 | 0.20 | 0.11 | 0.06 | 0.02 | 0.00 | 0.02 | 4.17 |
| 13 | 0.04 | 0.01 | 0.11 | 0.08 | 0.13 | 0.30 | 0.36 | 0.73 | 0.95 | 0.73 | 0.36 | 0.23 | 0.08 | 0.02 | 0.01 | 0.01 | 0.03 | 4.17 |
| 14 | 0.05 | 0.01 | 0.06 | 0.09 | 0.15 | 0.33 | 0.40 | 0.71 | 0.75 | 0.84 | 0.42 | 0.19 | 0.10 | 0.02 | 0.01 | 0.00 | 0.03 | 4.17 |
| 15 | 0.04 | 0.01 | 0.04 | 0.11 | 0.21 | 0.28 | 0.36 | 0.71 | 0.84 | 0.71 | 0.43 | 0.31 | 0.05 | 0.02 | 0.02 | 0.00 | 0.04 | 4.17 |
| 16 | 0.04 | 0.04 | 0.02 | 0.05 | 0.10 | 0.17 | 0.47 | 0.74 | 0.88 | 0.89 | 0.44 | 0.20 | 0.05 | 0.02 | 0.02 | 0.01 | 0.04 | 4.17 |
| 17 | 0.04 | 0.00 | 0.02 | 0.02 | 0.06 | 0.17 | 0.36 | 0.81 | 1.02 | 0.82 | 0.46 | 0.26 | 0.07 | 0.03 | 0.01 | 0.00 | 0.04 | 4.17 |
| 18 | 0.02 | 0.01 | 0.01 | 0.02 | 0.06 | 0.14 | 0.24 | 0.64 | 0.90 | 0.85 | 0.75 | 0.31 | 0.11 | 0.03 | 0.04 | 0.00 | 0.04 | 4.17 |
| 19 | 0.03 | 0.01 | 0.01 | 0.01 | 0.03 | 0.05 | 0.23 | 0.54 | 0.78 | 0.99 | 0.76 | 0.47 | 0.12 | 0.05 | 0.04 | 0.02 | 0.04 | 4.17 |
| 20 | 0.02 | 0.02 | 0.00 | 0.02 | 0.04 | 0.09 | 0.20 | 0.44 | 0.80 | 0.99 | 0.75 | 0.50 | 0.16 | 0.06 | 0.03 | 0.03 | 0.03 | 4.17 |
| 21 | 0.03 | 0.00 | 0.01 | 0.03 | 0.05 | 0.11 | 0.13 | 0.48 | 0.88 | 0.86 | 0.91 | 0.39 | 0.19 | 0.05 | 0.01 | 0.02 | 0.03 | 4.17 |
| 22 | 0.02 | 0.00 | 0.01 | 0.01 | 0.07 | 0.12 | 0.18 | 0.50 | 0.87 | 1.01 | 0.68 | 0.41 | 0.17 | 0.03 | 0.05 | 0.01 | 0.03 | 4.17 |
| 23 | 0.01 | 0.01 | 0.01 | 0.05 | 0.04 | 0.14 | 0.27 | 0.45 | 0.81 | 0.85 | 0.77 | 0.45 | 0.18 | 0.06 | 0.02 | 0.02 | 0.03 | 4.17 |
| 24 | 0.01 | 0.01 | 0.02 | 0.02 | 0.08 | 0.13 | 0.33 | 0.42 | 0.91 | 0.89 | 0.73 | 0.33 | 0.16 | 0.09 | 0.01 | 0.01 | 0.04 | 4.17 |
| TOTAL | 0.52 | 0.31 | 0.58 | 0.92 | 2.00 | 4.16 | 7.20 | 14.27 | 21.11 | 21.59 | 14.29 | 7.54 | 2.82 | 1.20 | 0.54 | 0.33 | 0.61 | |

Table 446. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. April 1950-1964

NUMBER OF OBSERVATIONS 10800

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.09 | 0.19 | 0.55 | 0.73 | 0.76 | 0.60 | 0.31 | 0.32 | 0.48 | 0.09 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.07 | 0.30 | 0.57 | 0.77 | 0.63 | 0.56 | 0.32 | 0.37 | 0.44 | 0.09 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.12 | 0.35 | 0.49 | 0.80 | 0.76 | 0.42 | 0.38 | 0.37 | 0.31 | 0.09 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.11 | 0.26 | 0.68 | 0.81 | 0.67 | 0.42 | 0.40 | 0.36 | 0.30 | 0.09 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.05 | 0.11 | 0.28 | 0.74 | 0.81 | 0.73 | 0.46 | 0.36 | 0.23 | 0.29 | 0.09 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.08 | 0.09 | 0.25 | 0.57 | 0.76 | 0.96 | 0.66 | 0.43 | 0.17 | 0.06 | 0.04 | 0.09 | 4.17 |
| 7 | 0.02 | 0.03 | 0.02 | 0.10 | 0.20 | 0.31 | 0.38 | 0.59 | 0.75 | 0.72 | 0.56 | 0.24 | 0.06 | 0.06 | 0.02 | 0.03 | 0.08 | 4.17 |
| 8 | 0.05 | 0.06 | 0.14 | 0.23 | 0.31 | 0.33 | 0.48 | 0.48 | 0.65 | 0.65 | 0.47 | 0.14 | 0.02 | 0.05 | 0.02 | 0.00 | 0.08 | 4.17 |
| 9 | 0.06 | 0.02 | 0.12 | 0.13 | 0.42 | 0.51 | 0.54 | 0.62 | 0.56 | 0.55 | 0.36 | 0.10 | 0.06 | 0.01 | 0.02 | 0.01 | 0.08 | 4.17 |
| 10 | 0.06 | 0.02 | 0.07 | 0.17 | 0.33 | 0.49 | 0.56 | 0.72 | 0.55 | 0.60 | 0.23 | 0.17 | 0.03 | 0.06 | 0.00 | 0.02 | 0.08 | 4.17 |
| 11 | 0.04 | 0.04 | 0.08 | 0.16 | 0.29 | 0.55 | 0.54 | 0.58 | 0.71 | 0.54 | 0.25 | 0.16 | 0.08 | 0.05 | 0.01 | 0.02 | 0.08 | 4.17 |
| 12 | 0.06 | 0.02 | 0.08 | 0.13 | 0.29 | 0.36 | 0.60 | 0.58 | 0.62 | 0.64 | 0.37 | 0.17 | 0.08 | 0.04 | 0.02 | 0.03 | 0.08 | 4.17 |
| 13 | 0.05 | 0.06 | 0.06 | 0.15 | 0.29 | 0.34 | 0.60 | 0.54 | 0.69 | 0.52 | 0.31 | 0.23 | 0.12 | 0.06 | 0.02 | 0.05 | 0.08 | 4.17 |
| 14 | 0.02 | 0.03 | 0.07 | 0.09 | 0.21 | 0.31 | 0.44 | 0.53 | 0.58 | 0.59 | 0.53 | 0.28 | 0.19 | 0.07 | 0.07 | 0.07 | 0.08 | 4.17 |
| 15 | 0.01 | 0.02 | 0.08 | 0.05 | 0.16 | 0.23 | 0.38 | 0.51 | 0.61 | 0.59 | 0.60 | 0.36 | 0.22 | 0.08 | 0.06 | 0.10 | 0.09 | 4.17 |
| 16 | 0.01 | 0.00 | 0.01 | 0.04 | 0.09 | 0.23 | 0.25 | 0.40 | 0.63 | 0.65 | 0.64 | 0.53 | 0.24 | 0.14 | 0.10 | 0.12 | 0.09 | 4.17 |
| 17 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.06 | 0.15 | 0.35 | 0.50 | 0.72 | 0.67 | 0.69 | 0.43 | 0.19 | 0.11 | 0.11 | 0.09 | 4.17 |
| 18 | 0.01 | 0.00 | 0.00 | 0.01 | 0.03 | 0.02 | 0.05 | 0.13 | 0.27 | 0.48 | 0.76 | 0.84 | 0.55 | 0.34 | 0.31 | 0.28 | 0.09 | 4.17 |
| 19 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.01 | 0.03 | 0.07 | 0.20 | 0.34 | 0.57 | 0.64 | 0.53 | 0.40 | 0.42 | 0.82 | 0.09 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.09 | 0.22 | 0.43 | 0.63 | 0.70 | 0.48 | 0.49 | 0.36 | 0.61 | 0.09 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.07 | 0.21 | 0.43 | 0.69 | 0.70 | 0.52 | 0.56 | 0.36 | 0.47 | 0.09 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.06 | 0.22 | 0.47 | 0.67 | 0.69 | 0.65 | 0.36 | 0.35 | 0.56 | 0.09 | 4.17 |
| 23 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.10 | 0.17 | 0.52 | 0.63 | 0.78 | 0.60 | 0.43 | 0.28 | 0.52 | 0.08 | 4.17 |
| 24 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.07 | 0.29 | 0.44 | 0.70 | 0.74 | 0.58 | 0.37 | 0.34 | 0.46 | 0.09 | 4.17 |
| TOTAL | 0.40 | 0.30 | 0.78 | 1.31 | 2.76 | 3.92 | 5.47 | 7.28 | 10.37 | 13.66 | 14.53 | 12.37 | 8.31 | 5.69 | 4.59 | 6.14 | 2.14 | |

NUMBER OF OBSERVATIONS 10800

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.04 | 0.05 | 0.06 | 0.06 | 0.06 | 0.12 | 0.32 | 0.46 | 0.77 | 0.75 | 0.67 | 0.37 | 0.23 | 0.08 | 0.03 | 0.00 | 0.09 | 4.17 |
| 2 | 0.06 | 0.02 | 0.03 | 0.12 | 0.06 | 0.16 | 0.26 | 0.63 | 0.74 | 0.68 | 0.61 | 0.38 | 0.22 | 0.10 | 0.01 | 0.01 | 0.09 | 4.17 |
| 3 | 0.03 | 0.04 | 0.05 | 0.06 | 0.17 | 0.16 | 0.24 | 0.56 | 0.81 | 0.77 | 0.56 | 0.31 | 0.23 | 0.10 | 0.00 | 0.00 | 0.09 | 4.17 |
| 4 | 0.05 | 0.02 | 0.03 | 0.06 | 0.09 | 0.19 | 0.33 | 0.47 | 0.77 | 0.78 | 0.56 | 0.40 | 0.18 | 0.09 | 0.04 | 0.02 | 0.09 | 4.17 |
| 5 | 0.04 | 0.02 | 0.02 | 0.03 | 0.08 | 0.23 | 0.25 | 0.61 | 0.69 | 0.74 | 0.84 | 0.27 | 0.16 | 0.06 | 0.03 | 0.01 | 0.09 | 4.17 |
| 6 | 0.01 | 0.02 | 0.02 | 0.04 | 0.13 | 0.11 | 0.34 | 0.58 | 0.81 | 0.83 | 0.67 | 0.34 | 0.13 | 0.04 | 0.01 | 0.00 | 0.09 | 4.17 |
| 7 | 0.01 | 0.01 | 0.03 | 0.03 | 0.08 | 0.15 | 0.38 | 0.62 | 0.83 | 0.85 | 0.60 | 0.30 | 0.11 | 0.05 | 0.02 | 0.02 | 0.08 | 4.17 |
| 8 | 0.02 | 0.00 | 0.01 | 0.06 | 0.12 | 0.22 | 0.33 | 0.70 | 0.76 | 0.83 | 0.57 | 0.18 | 0.20 | 0.06 | 0.01 | 0.01 | 0.08 | 4.17 |
| 9 | 0.02 | 0.02 | 0.03 | 0.04 | 0.12 | 0.34 | 0.54 | 0.65 | 0.89 | 0.62 | 0.46 | 0.24 | 0.06 | 0.05 | 0.00 | 0.01 | 0.08 | 4.17 |
| 10 | 0.03 | 0.03 | 0.06 | 0.08 | 0.15 | 0.31 | 0.54 | 0.58 | 0.95 | 0.58 | 0.45 | 0.19 | 0.09 | 0.04 | 0.01 | 0.00 | 0.08 | 4.17 |
| 11 | 0.04 | 0.03 | 0.09 | 0.10 | 0.13 | 0.38 | 0.49 | 0.54 | 0.93 | 0.69 | 0.38 | 0.16 | 0.10 | 0.00 | 0.04 | 0.00 | 0.08 | 4.17 |
| 12 | 0.06 | 0.04 | 0.05 | 0.10 | 0.22 | 0.27 | 0.57 | 0.67 | 0.70 | 0.69 | 0.40 | 0.15 | 0.11 | 0.03 | 0.02 | 0.01 | 0.08 | 4.17 |
| 13 | 0.09 | 0.03 | 0.09 | 0.12 | 0.15 | 0.37 | 0.56 | 0.68 | 0.67 | 0.62 | 0.38 | 0.19 | 0.06 | 0.04 | 0.04 | 0.02 | 0.08 | 4.17 |
| 14 | 0.12 | 0.02 | 0.07 | 0.09 | 0.24 | 0.35 | 0.45 | 0.69 | 0.67 | 0.63 | 0.40 | 0.16 | 0.11 | 0.05 | 0.02 | 0.02 | 0.08 | 4.17 |
| 15 | 0.08 | 0.07 | 0.06 | 0.06 | 0.29 | 0.25 | 0.46 | 0.57 | 0.80 | 0.69 | 0.34 | 0.22 | 0.09 | 0.03 | 0.03 | 0.02 | 0.09 | 4.17 |
| 16 | 0.06 | 0.05 | 0.15 | 0.07 | 0.18 | 0.32 | 0.37 | 0.56 | 0.72 | 0.66 | 0.52 | 0.24 | 0.07 | 0.04 | 0.02 | 0.04 | 0.09 | 4.17 |
| 17 | 0.08 | 0.04 | 0.04 | 0.13 | 0.21 | 0.21 | 0.36 | 0.73 | 0.68 | 0.65 | 0.52 | 0.26 | 0.13 | 0.03 | 0.00 | 0.01 | 0.09 | 4.17 |
| 18 | 0.09 | 0.01 | 0.06 | 0.07 | 0.15 | 0.25 | 0.43 | 0.49 | 0.64 | 0.64 | 0.56 | 0.34 | 0.23 | 0.10 | 0.02 | 0.00 | 0.09 | 4.17 |
| 19 | 0.06 | 0.02 | 0.04 | 0.07 | 0.10 | 0.17 | 0.31 | 0.39 | 0.70 | 0.67 | 0.67 | 0.39 | 0.28 | 0.15 | 0.04 | 0.03 | 0.09 | 4.17 |
| 20 | 0.04 | 0.01 | 0.03 | 0.07 | 0.14 | 0.15 | 0.31 | 0.42 | 0.64 | 0.67 | 0.69 | 0.40 | 0.31 | 0.14 | 0.06 | 0.02 | 0.09 | 4.17 |
| 21 | 0.04 | 0.03 | 0.04 | 0.05 | 0.08 | 0.15 | 0.36 | 0.46 | 0.66 | 0.69 | 0.53 | 0.47 | 0.26 | 0.14 | 0.05 | 0.02 | 0.09 | 4.17 |
| 22 | 0.03 | 0.00 | 0.04 | 0.07 | 0.12 | 0.16 | 0.33 | 0.46 | 0.62 | 0.82 | 0.57 | 0.45 | 0.24 | 0.06 | 0.06 | 0.02 | 0.09 | 4.17 |
| 23 | 0.02 | 0.04 | 0.06 | 0.09 | 0.06 | 0.19 | 0.33 | 0.46 | 0.65 | 0.75 | 0.58 | 0.39 | 0.29 | 0.16 | 0.02 | 0.00 | 0.08 | 4.17 |
| 24 | 0.02 | 0.06 | 0.04 | 0.06 | 0.09 | 0.19 | 0.29 | 0.45 | 0.73 | 0.81 | 0.58 | 0.35 | 0.26 | 0.09 | 0.05 | 0.00 | 0.09 | 4.17 |
| TOTAL | 1.13 | 0.64 | 1.16 | 1.75 | 3.22 | 5.41 | 9.16 | 13.44 | 17.81 | 17.09 | 13.18 | 7.14 | 4.16 | 1.70 | 0.60 | 0.27 | 2.14 | |

Table 447. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. May 1950-1964

| NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|--|
| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | |
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.11 | 0.20 | 0.47 | 0.64 | 0.53 | 0.65 | 0.51 | 0.38 | 0.65 | 0.00 | 4.17 | |
| 2 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.11 | 0.21 | 0.56 | 0.62 | 0.63 | 0.69 | 0.39 | 0.34 | 0.53 | 0.00 | 4.17 | |
| 3 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.06 | 0.07 | 0.22 | 0.54 | 0.77 | 0.82 | 0.55 | 0.41 | 0.23 | 0.47 | 0.00 | 4.17 | |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.38 | 0.45 | 0.79 | 0.75 | 0.58 | 0.45 | 0.22 | 0.42 | 0.00 | 4.17 | |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.24 | 0.38 | 0.71 | 0.76 | 0.64 | 0.56 | 0.31 | 0.26 | 0.27 | 0.00 | 4.17 | |
| 6 | 0.00 | 0.01 | 0.01 | 0.02 | 0.08 | 0.20 | 0.41 | 0.53 | 0.70 | 0.88 | 0.63 | 0.48 | 0.15 | 0.02 | 0.02 | 0.04 | 0.00 | 4.17 | |
| 7 | 0.03 | 0.04 | 0.14 | 0.12 | 0.31 | 0.38 | 0.47 | 0.69 | 0.91 | 0.65 | 0.32 | 0.16 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 4.17 | |
| 8 | 0.01 | 0.07 | 0.13 | 0.21 | 0.38 | 0.38 | 0.64 | 0.62 | 0.75 | 0.49 | 0.32 | 0.09 | 0.03 | 0.04 | 0.01 | 0.01 | 0.00 | 4.17 | |
| 9 | 0.01 | 0.02 | 0.03 | 0.14 | 0.32 | 0.57 | 0.59 | 0.66 | 0.85 | 0.50 | 0.25 | 0.07 | 0.10 | 0.04 | 0.00 | 0.01 | 0.00 | 4.17 | |
| 10 | 0.00 | 0.03 | 0.02 | 0.16 | 0.26 | 0.37 | 0.49 | 0.77 | 0.81 | 0.64 | 0.31 | 0.13 | 0.13 | 0.04 | 0.00 | 0.02 | 0.00 | 4.17 | |
| 11 | 0.00 | 0.03 | 0.06 | 0.05 | 0.17 | 0.29 | 0.53 | 0.69 | 0.72 | 0.71 | 0.40 | 0.25 | 0.13 | 0.04 | 0.03 | 0.07 | 0.00 | 4.17 | |
| 12 | 0.02 | 0.03 | 0.04 | 0.09 | 0.09 | 0.24 | 0.52 | 0.65 | 0.67 | 0.62 | 0.58 | 0.31 | 0.13 | 0.09 | 0.02 | 0.05 | 0.00 | 4.17 | |
| 13 | 0.01 | 0.05 | 0.03 | 0.06 | 0.13 | 0.29 | 0.38 | 0.56 | 0.64 | 0.67 | 0.56 | 0.32 | 0.24 | 0.10 | 0.06 | 0.07 | 0.00 | 4.17 | |
| 14 | 0.03 | 0.01 | 0.03 | 0.09 | 0.10 | 0.22 | 0.29 | 0.45 | 0.62 | 0.60 | 0.68 | 0.42 | 0.30 | 0.19 | 0.06 | 0.08 | 0.00 | 4.17 | |
| 15 | 0.00 | 0.03 | 0.02 | 0.08 | 0.07 | 0.18 | 0.29 | 0.39 | 0.60 | 0.65 | 0.68 | 0.46 | 0.34 | 0.18 | 0.12 | 0.09 | 0.00 | 4.17 | |
| 16 | 0.01 | 0.01 | 0.01 | 0.04 | 0.03 | 0.16 | 0.27 | 0.32 | 0.44 | 0.73 | 0.57 | 0.60 | 0.51 | 0.20 | 0.13 | 0.14 | 0.00 | 4.17 | |
| 17 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.08 | 0.14 | 0.30 | 0.39 | 0.62 | 0.66 | 0.62 | 0.47 | 0.39 | 0.22 | 0.26 | 0.00 | 4.17 | |
| 18 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 | 0.02 | 0.08 | 0.11 | 0.30 | 0.46 | 0.57 | 0.61 | 0.55 | 0.45 | 0.42 | 0.56 | 0.00 | 4.17 | |
| 19 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.23 | 0.27 | 0.41 | 0.44 | 0.55 | 0.48 | 0.40 | 1.31 | 0.00 | 4.17 | |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.05 | 0.19 | 0.27 | 0.43 | 0.49 | 0.65 | 0.49 | 0.47 | 1.06 | 0.00 | 4.17 | |
| 21 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.05 | 0.04 | 0.13 | 0.33 | 0.51 | 0.60 | 0.58 | 0.53 | 0.49 | 0.87 | 0.00 | 4.17 | |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.05 | 0.13 | 0.33 | 0.71 | 0.60 | 0.64 | 0.55 | 0.44 | 0.79 | 0.00 | 4.17 | |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 | 0.14 | 0.47 | 0.52 | 0.62 | 0.68 | 0.54 | 0.44 | 0.66 | 0.00 | 4.17 | |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.19 | 0.46 | 0.64 | 0.62 | 0.60 | 0.52 | 0.41 | 0.65 | 0.01 | 4.17 | |
| TOTAL | 0.13 | 0.32 | 0.52 | 1.09 | 1.98 | 3.47 | 5.47 | 7.71 | 10.69 | 13.05 | 13.34 | 11.13 | 9.87 | 6.94 | 5.20 | 9.07 | 0.01 | 4.17 | |

| NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|--|
| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL | |
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | | |
| 1 | 0.05 | 0.03 | 0.04 | 0.08 | 0.12 | 0.15 | 0.39 | 0.56 | 0.65 | 0.73 | 0.69 | 0.35 | 0.13 | 0.13 | 0.05 | 0.02 | 0.00 | 4.17 | |
| 2 | 0.05 | 0.04 | 0.05 | 0.05 | 0.13 | 0.20 | 0.36 | 0.59 | 0.78 | 0.70 | 0.51 | 0.35 | 0.16 | 0.10 | 0.06 | 0.02 | 0.00 | 4.17 | |
| 3 | 0.04 | 0.03 | 0.05 | 0.07 | 0.16 | 0.20 | 0.33 | 0.70 | 0.63 | 0.82 | 0.47 | 0.33 | 0.20 | 0.09 | 0.04 | 0.02 | 0.00 | 4.17 | |
| 4 | 0.02 | 0.03 | 0.02 | 0.09 | 0.19 | 0.19 | 0.37 | 0.58 | 0.66 | 0.64 | 0.63 | 0.44 | 0.17 | 0.10 | 0.02 | 0.04 | 0.00 | 4.17 | |
| 5 | 0.01 | 0.01 | 0.05 | 0.08 | 0.07 | 0.18 | 0.39 | 0.48 | 0.70 | 0.87 | 0.66 | 0.36 | 0.18 | 0.06 | 0.01 | 0.04 | 0.00 | 4.17 | |
| 6 | 0.02 | 0.00 | 0.04 | 0.05 | 0.10 | 0.22 | 0.33 | 0.59 | 0.85 | 0.87 | 0.49 | 0.34 | 0.15 | 0.05 | 0.04 | 0.02 | 0.00 | 4.17 | |
| 7 | 0.02 | 0.01 | 0.04 | 0.03 | 0.08 | 0.19 | 0.31 | 0.65 | 0.74 | 0.86 | 0.59 | 0.39 | 0.16 | 0.03 | 0.05 | 0.02 | 0.00 | 4.17 | |
| 8 | 0.04 | 0.04 | 0.05 | 0.03 | 0.13 | 0.21 | 0.50 | 0.60 | 0.73 | 0.85 | 0.48 | 0.28 | 0.13 | 0.04 | 0.01 | 0.04 | 0.00 | 4.17 | |
| 9 | 0.07 | 0.04 | 0.04 | 0.06 | 0.13 | 0.15 | 0.48 | 0.72 | 1.01 | 0.58 | 0.47 | 0.25 | 0.09 | 0.03 | 0.00 | 0.04 | 0.00 | 4.17 | |
| 10 | 0.08 | 0.04 | 0.05 | 0.10 | 0.19 | 0.28 | 0.40 | 0.66 | 0.84 | 0.69 | 0.42 | 0.21 | 0.13 | 0.03 | 0.02 | 0.02 | 0.01 | 4.17 | |
| 11 | 0.10 | 0.06 | 0.10 | 0.13 | 0.17 | 0.19 | 0.35 | 0.60 | 0.91 | 0.70 | 0.33 | 0.32 | 0.14 | 0.04 | 0.01 | 0.01 | 0.00 | 4.17 | |
| 12 | 0.13 | 0.04 | 0.07 | 0.13 | 0.17 | 0.23 | 0.39 | 0.68 | 0.73 | 0.72 | 0.49 | 0.18 | 0.13 | 0.04 | 0.01 | 0.02 | 0.00 | 4.17 | |
| 13 | 0.13 | 0.05 | 0.09 | 0.13 | 0.15 | 0.27 | 0.32 | 0.54 | 0.78 | 0.79 | 0.44 | 0.27 | 0.13 | 0.03 | 0.01 | 0.04 | 0.00 | 4.17 | |
| 14 | 0.14 | 0.05 | 0.07 | 0.17 | 0.21 | 0.22 | 0.37 | 0.50 | 0.68 | 0.65 | 0.49 | 0.33 | 0.15 | 0.08 | 0.03 | 0.03 | 0.00 | 4.17 | |
| 15 | 0.16 | 0.07 | 0.13 | 0.10 | 0.18 | 0.25 | 0.35 | 0.56 | 0.73 | 0.67 | 0.47 | 0.21 | 0.20 | 0.05 | 0.02 | 0.03 | 0.00 | 4.17 | |
| 16 | 0.14 | 0.05 | 0.08 | 0.17 | 0.18 | 0.30 | 0.30 | 0.62 | 0.71 | 0.54 | 0.55 | 0.25 | 0.14 | 0.05 | 0.04 | 0.04 | 0.00 | 4.17 | |
| 17 | 0.12 | 0.07 | 0.05 | 0.13 | 0.19 | 0.28 | 0.39 | 0.60 | 0.60 | 0.69 | 0.42 | 0.33 | 0.13 | 0.12 | 0.03 | 0.02 | 0.00 | 4.17 | |
| 18 | 0.09 | 0.04 | 0.04 | 0.11 | 0.15 | 0.27 | 0.38 | 0.67 | 0.60 | 0.62 | 0.49 | 0.28 | 0.22 | 0.13 | 0.04 | 0.04 | 0.01 | 4.17 | |
| 19 | 0.10 | 0.03 | 0.08 | 0.06 | 0.12 | 0.26 | 0.43 | 0.51 | 0.59 | 0.56 | 0.40 | 0.37 | 0.28 | 0.18 | 0.12 | 0.08 | 0.00 | 4.17 | |
| 20 | 0.07 | 0.03 | 0.03 | 0.06 | 0.13 | 0.22 | 0.36 | 0.43 | 0.66 | 0.65 | 0.54 | 0.42 | 0.29 | 0.18 | 0.06 | 0.04 | 0.00 | 4.17 | |
| 21 | 0.04 | 0.02 | 0.07 | 0.11 | 0.10 | 0.22 | 0.30 | 0.60 | 0.51 | 0.60 | 0.61 | 0.47 | 0.25 | 0.14 | 0.07 | 0.07 | 0.00 | 4.17 | |
| 22 | 0.04 | 0.01 | 0.06 | 0.08 | 0.15 | 0.19 | 0.31 | 0.52 | 0.72 | 0.64 | 0.61 | 0.38 | 0.27 | 0.12 | 0.04 | 0.04 | 0.00 | 4.17 | |
| 23 | 0.04 | 0.03 | 0.03 | 0.06 | 0.13 | 0.19 | 0.30 | 0.56 | 0.81 | 0.69 | 0.56 | 0.28 | 0.25 | 0.14 | 0.07 | 0.04 | 0.00 | 4.17 | |
| 24 | 0.04 | 0.01 | 0.03 | 0.05 | 0.13 | 0.17 | 0.39 | 0.54 | 0.80 | 0.65 | 0.56 | 0.31 | 0.27 | 0.10 | 0.04 | 0.04 | 0.01 | 4.17 | |
| TOTAL | 1.75 | 0.82 | 1.39 | 2.13 | 3.46 | 5.20 | 8.82 | 14.06 | 17.42 | 16.77 | 12.38 | 7.68 | 4.36 | 2.07 | 0.87 | 0.79 | 0.03 | 4.17 | |

Table 448. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. June 1950-1964

| | | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|-------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|-------|---------|-------|
| | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| HOUR | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 1 | | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.03 | 0.09 | 0.19 | 0.38 | 0.37 | 0.60 | 0.61 | 0.51 | 0.44 | 0.90 | | |
| 2 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.10 | 0.25 | 0.37 | 0.54 | 0.66 | 0.60 | 0.49 | 0.43 | 0.69 | 0.01 | 4.17 |
| 3 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.12 | 0.28 | 0.48 | 0.49 | 0.57 | 0.69 | 0.58 | 0.33 | 0.57 | 0.01 | 4.17 |
| 4 | | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.03 | 0.06 | 0.10 | 0.25 | 0.41 | 0.52 | 0.64 | 0.74 | 0.52 | 0.37 | 0.51 | 0.01 | 4.17 |
| 5 | | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.06 | 0.08 | 0.19 | 0.35 | 0.53 | 0.81 | 0.65 | 0.68 | 0.32 | 0.26 | 0.20 | 0.01 | 4.17 |
| 6 | | 0.01 | 0.01 | 0.03 | 0.06 | 0.09 | 0.17 | 0.37 | 0.68 | 0.79 | 0.89 | 0.52 | 0.43 | 0.08 | 0.03 | 0.01 | 0.00 | 0.01 | 4.17 |
| 7 | | 0.06 | 0.03 | 0.11 | 0.23 | 0.21 | 0.48 | 0.51 | 0.56 | 0.72 | 0.61 | 0.29 | 0.18 | 0.10 | 0.04 | 0.03 | 0.00 | 0.01 | 4.17 |
| 8 | | 0.02 | 0.02 | 0.06 | 0.15 | 0.31 | 0.38 | 0.68 | 0.70 | 0.69 | 0.53 | 0.31 | 0.16 | 0.08 | 0.05 | 0.01 | 0.01 | 0.00 | 4.17 |
| 9 | | 0.01 | 0.01 | 0.04 | 0.16 | 0.12 | 0.43 | 0.61 | 0.76 | 0.66 | 0.67 | 0.40 | 0.13 | 0.06 | 0.08 | 0.03 | 0.02 | 0.00 | 4.17 |
| 10 | | 0.04 | 0.02 | 0.02 | 0.06 | 0.16 | 0.34 | 0.57 | 0.57 | 0.77 | 0.77 | 0.35 | 0.23 | 0.15 | 0.05 | 0.00 | 0.06 | 0.00 | 4.17 |
| 11 | | 0.02 | 0.00 | 0.06 | 0.06 | 0.12 | 0.35 | 0.38 | 0.53 | 0.67 | 0.81 | 0.53 | 0.31 | 0.16 | 0.10 | 0.02 | 0.05 | 0.00 | 4.17 |
| 12 | | 0.01 | 0.01 | 0.07 | 0.08 | 0.11 | 0.23 | 0.30 | 0.54 | 0.58 | 0.78 | 0.60 | 0.43 | 0.22 | 0.11 | 0.06 | 0.04 | 0.00 | 4.17 |
| 13 | | 0.02 | 0.01 | 0.01 | 0.05 | 0.12 | 0.22 | 0.42 | 0.41 | 0.56 | 0.61 | 0.64 | 0.57 | 0.23 | 0.14 | 0.06 | 0.10 | 0.00 | 4.17 |
| 14 | | 0.02 | 0.00 | 0.01 | 0.06 | 0.06 | 0.18 | 0.25 | 0.39 | 0.39 | 0.63 | 0.61 | 0.64 | 0.37 | 0.28 | 0.14 | 0.15 | 0.00 | 4.17 |
| 15 | | 0.00 | 0.00 | 0.03 | 0.03 | 0.12 | 0.12 | 0.29 | 0.33 | 0.44 | 0.53 | 0.52 | 0.48 | 0.46 | 0.41 | 0.20 | 0.21 | 0.00 | 4.17 |
| 16 | | 0.00 | 0.01 | 0.01 | 0.01 | 0.04 | 0.09 | 0.18 | 0.27 | 0.52 | 0.69 | 0.53 | 0.32 | 0.53 | 0.31 | 0.32 | 0.34 | 0.00 | 4.17 |
| 17 | | 0.00 | 0.00 | 0.00 | 0.03 | 0.01 | 0.02 | 0.08 | 0.25 | 0.34 | 0.56 | 0.69 | 0.44 | 0.44 | 0.53 | 0.29 | 0.49 | 0.00 | 4.17 |
| 18 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.14 | 0.23 | 0.40 | 0.53 | 0.73 | 0.43 | 0.44 | 0.40 | 0.82 | 0.00 | 4.17 |
| 19 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.05 | 0.06 | 0.18 | 0.38 | 0.33 | 0.49 | 0.60 | 0.61 | 1.44 | 0.01 | 4.17 |
| 20 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.09 | 0.24 | 0.30 | 0.38 | 0.51 | 0.41 | 0.53 | 1.68 | | 0.01 | 4.17 |
| 21 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.15 | 0.20 | 0.41 | 0.43 | 0.56 | 0.49 | 0.54 | 1.38 | 0.01 | 4.17 |
| 22 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.10 | 0.28 | 0.31 | 0.52 | 0.56 | 0.54 | 0.53 | 1.26 | 0.01 | 4.17 |
| 23 | | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.19 | 0.31 | 0.33 | 0.59 | 0.55 | 0.64 | 0.44 | 1.05 | 0.01 | 4.17 |
| 24 | | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 | 0.03 | 0.08 | 0.21 | 0.26 | 0.51 | 0.46 | 0.69 | 0.49 | 0.55 | 0.85 | 0.01 | 4.17 |
| TOTAL | | 0.21 | 0.12 | 0.48 | 1.00 | 1.53 | 3.17 | 4.95 | 6.96 | 9.49 | 12.09 | 11.47 | 10.89 | 9.97 | 8.15 | 6.57 | 12.81 | 0.12 | |

| | | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|-------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| HOUR | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 1 | | 0.04 | 0.03 | 0.04 | 0.07 | 0.12 | 0.26 | 0.38 | 0.65 | 0.67 | 0.79 | 0.47 | 0.22 | 0.25 | 0.10 | 0.06 | 0.02 | 0.01 | 4.17 |
| 2 | | 0.03 | 0.03 | 0.05 | 0.07 | 0.15 | 0.26 | 0.52 | 0.56 | 0.80 | 0.54 | 0.58 | 0.18 | 0.19 | 0.17 | 0.05 | 0.00 | 0.01 | 4.17 |
| 3 | | 0.03 | 0.03 | 0.04 | 0.06 | 0.23 | 0.23 | 0.46 | 0.64 | 0.74 | 0.57 | 0.50 | 0.35 | 0.13 | 0.12 | 0.01 | 0.01 | 0.01 | 4.17 |
| 4 | | 0.03 | 0.03 | 0.05 | 0.09 | 0.15 | 0.29 | 0.41 | 0.50 | 0.72 | 0.70 | 0.62 | 0.32 | 0.16 | 0.06 | 0.02 | 0.01 | 0.01 | 4.17 |
| 5 | | 0.04 | 0.04 | 0.05 | 0.06 | 0.11 | 0.21 | 0.32 | 0.73 | 0.78 | 0.76 | 0.52 | 0.33 | 0.13 | 0.06 | 0.01 | 0.00 | 0.01 | 4.17 |
| 6 | | 0.02 | 0.03 | 0.02 | 0.09 | 0.14 | 0.23 | 0.44 | 0.51 | 0.86 | 0.82 | 0.51 | 0.27 | 0.14 | 0.06 | 0.02 | 0.00 | 0.01 | 4.17 |
| 7 | | 0.00 | 0.01 | 0.05 | 0.06 | 0.11 | 0.14 | 0.40 | 0.60 | 0.79 | 0.77 | 0.60 | 0.34 | 0.14 | 0.10 | 0.03 | 0.03 | 0.01 | 4.17 |
| 8 | | 0.01 | 0.02 | 0.05 | 0.06 | 0.12 | 0.23 | 0.42 | 0.48 | 0.85 | 0.74 | 0.69 | 0.30 | 0.11 | 0.06 | 0.02 | 0.01 | 0.00 | 4.17 |
| 9 | | 0.03 | 0.00 | 0.05 | 0.04 | 0.11 | 0.30 | 0.39 | 0.67 | 0.77 | 0.78 | 0.50 | 0.38 | 0.09 | 0.03 | 0.04 | 0.01 | 0.00 | 4.17 |
| 10 | | 0.03 | 0.01 | 0.01 | 0.06 | 0.15 | 0.22 | 0.36 | 0.76 | 0.69 | 0.78 | 0.55 | 0.37 | 0.11 | 0.05 | 0.02 | 0.01 | 0.00 | 4.17 |
| 11 | | 0.04 | 0.05 | 0.05 | 0.08 | 0.11 | 0.24 | 0.45 | 0.55 | 0.77 | 0.77 | 0.51 | 0.40 | 0.08 | 0.03 | 0.01 | 0.04 | 0.00 | 4.17 |
| 12 | | 0.06 | 0.01 | 0.03 | 0.06 | 0.16 | 0.27 | 0.40 | 0.63 | 0.73 | 0.67 | 0.58 | 0.31 | 0.15 | 0.06 | 0.05 | 0.00 | 0.00 | 4.17 |
| 13 | | 0.05 | 0.06 | 0.06 | 0.06 | 0.14 | 0.21 | 0.46 | 0.45 | 0.78 | 0.69 | 0.61 | 0.35 | 0.11 | 0.08 | 0.02 | 0.03 | 0.00 | 4.17 |
| 14 | | 0.08 | 0.05 | 0.07 | 0.09 | 0.17 | 0.19 | 0.30 | 0.41 | 0.74 | 0.81 | 0.55 | 0.39 | 0.18 | 0.08 | 0.00 | 0.06 | 0.00 | 4.17 |
| 15 | | 0.10 | 0.10 | 0.06 | 0.09 | 0.11 | 0.19 | 0.44 | 0.53 | 0.71 | 0.62 | 0.53 | 0.35 | 0.18 | 0.08 | 0.04 | 0.03 | 0.00 | 4.17 |
| 16 | | 0.09 | 0.06 | 0.08 | 0.17 | 0.19 | 0.19 | 0.37 | 0.54 | 0.69 | 0.71 | 0.54 | 0.24 | 0.14 | 0.06 | 0.03 | 0.06 | 0.00 | 4.17 |
| 17 | | 0.08 | 0.03 | 0.03 | 0.13 | 0.15 | 0.21 | 0.31 | 0.53 | 0.71 | 0.67 | 0.63 | 0.37 | 0.16 | 0.09 | 0.04 | 0.03 | 0.00 | 4.17 |
| 18 | | 0.06 | 0.02 | 0.06 | 0.04 | 0.14 | 0.19 | 0.30 | 0.58 | 0.61 | 0.78 | 0.54 | 0.43 | 0.23 | 0.13 | 0.06 | 0.02 | 0.00 | 4.17 |
| 19 | | 0.02 | 0.01 | 0.07 | 0.08 | 0.07 | 0.19 | 0.22 | 0.43 | 0.61 | 0.66 | 0.57 | 0.56 | 0.37 | 0.15 | 0.06 | 0.08 | 0.01 | 4.17 |
| 20 | | 0.01 | 0.03 | 0.02 | 0.06 | 0.07 | 0.20 | 0.27 | 0.43 | 0.60 | 0.77 | 0.58 | 0.45 | 0.34 | 0.22 | 0.03 | 0.07 | 0.01 | 4.17 |
| 21 | | 0.02 | 0.02 | 0.04 | 0.03 | 0.16 | 0.18 | 0.37 | 0.38 | 0.68 | 0.61 | 0.64 | 0.43 | 0.30 | 0.12 | 0.17 | 0.04 | 0.01 | 4.17 |
| 22 | | 0.03 | 0.02 | 0.02 | 0.09 | 0.14 | 0.14 | 0.36 | 0.48 | 0.62 | 0.68 | 0.65 | 0.44 | 0.26 | 0.11 | 0.07 | 0.05 | 0.01 | 4.17 |
| 23 | | 0.01 | 0.02 | 0.01 | 0.07 | 0.13 | 0.24 | 0.34 | 0.57 | 0.73 | 0.65 | 0.53 | 0.35 | 0.22 | 0.15 | 0.07 | 0.05 | 0.02 | 4.17 |
| 24 | | 0.03 | 0.01 | 0.04 | 0.08 | 0.10 | 0.31 | 0.34 | 0.58 | 0.74 | 0.59 | 0.68 | 0.26 | 0.23 | 0.10 | 0.03 | 0.03 | 0.01 | 4.17 |
| TOTAL | | 0.92 | 0.69 | 1.01 | 1.81 | 3.23 | 5.33 | 9.04 | 13.19 | 17.39 | 16.93 | 13.68 | 8.41 | 4.39 | 2.29 | 0.92 | 0.67 | 0.13 | |

Table 449. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. July 1950-1964

NUMBER OF OBSERVATIONS 11160

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.15 | 0.29 | 0.48 | 0.55 | 0.56 | 0.61 | 0.51 | 0.99 | 0.00 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.17 | 0.29 | 0.56 | 0.58 | 0.67 | 0.62 | 0.48 | 0.71 | 0.00 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.20 | 0.47 | 0.61 | 0.64 | 0.68 | 0.60 | 0.33 | 0.58 | 0.00 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.27 | 0.48 | 0.60 | 0.66 | 0.56 | 0.65 | 0.41 | 1.43 | 0.00 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.18 | 0.24 | 0.56 | 0.79 | 0.80 | 0.64 | 0.35 | 0.30 | 0.27 | 0.00 | 4.17 |
| 6 | 0.01 | 0.00 | 0.01 | 0.03 | 0.08 | 0.13 | 0.36 | 0.56 | 0.57 | 1.07 | 0.73 | 0.33 | 0.20 | 0.05 | 0.03 | 0.02 | 0.00 | 4.17 |
| 7 | 0.02 | 0.04 | 0.11 | 0.21 | 0.32 | 0.41 | 0.50 | 0.56 | 0.64 | 0.51 | 0.47 | 0.20 | 0.10 | 0.03 | 0.02 | 0.04 | 0.00 | 4.17 |
| 8 | 0.02 | 0.05 | 0.09 | 0.21 | 0.30 | 0.39 | 0.64 | 0.73 | 0.66 | 0.48 | 0.31 | 0.15 | 0.04 | 0.04 | 0.04 | 0.02 | 0.00 | 4.17 |
| 9 | 0.01 | 0.00 | 0.02 | 0.08 | 0.21 | 0.45 | 0.56 | 0.62 | 0.86 | 0.62 | 0.34 | 0.21 | 0.06 | 0.08 | 0.04 | 0.02 | 0.00 | 4.17 |
| 10 | 0.01 | 0.00 | 0.02 | 0.08 | 0.20 | 0.24 | 0.58 | 0.63 | 0.81 | 0.72 | 0.44 | 0.23 | 0.11 | 0.06 | 0.01 | 0.04 | 0.00 | 4.17 |
| 11 | 0.01 | 0.00 | 0.00 | 0.06 | 0.13 | 0.15 | 0.43 | 0.53 | 0.77 | 0.67 | 0.69 | 0.32 | 0.20 | 0.10 | 0.04 | 0.06 | 0.00 | 4.17 |
| 12 | 0.01 | 0.00 | 0.04 | 0.04 | 0.14 | 0.18 | 0.29 | 0.42 | 0.65 | 0.89 | 0.63 | 0.36 | 0.23 | 0.17 | 0.05 | 0.08 | 0.00 | 4.17 |
| 13 | 0.01 | 0.02 | 0.02 | 0.04 | 0.08 | 0.22 | 0.25 | 0.47 | 0.62 | 0.69 | 0.73 | 0.41 | 0.28 | 0.16 | 0.08 | 0.09 | 0.00 | 4.17 |
| 14 | 0.00 | 0.00 | 0.02 | 0.02 | 0.09 | 0.14 | 0.32 | 0.38 | 0.50 | 0.61 | 0.68 | 0.48 | 0.44 | 0.24 | 0.09 | 0.15 | 0.00 | 4.17 |
| 15 | 0.00 | 0.00 | 0.03 | 0.05 | 0.05 | 0.15 | 0.17 | 0.41 | 0.33 | 0.67 | 0.67 | 0.56 | 0.36 | 0.39 | 0.16 | 0.16 | 0.00 | 4.17 |
| 16 | 0.01 | 0.03 | 0.02 | 0.04 | 0.02 | 0.07 | 0.20 | 0.31 | 0.30 | 0.54 | 0.62 | 0.57 | 0.55 | 0.44 | 0.17 | 0.28 | 0.01 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.04 | 0.13 | 0.17 | 0.39 | 0.43 | 0.68 | 0.56 | 0.55 | 0.50 | 0.31 | 0.37 | 0.00 | 4.17 |
| 18 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.17 | 0.39 | 0.53 | 0.58 | 0.69 | 0.49 | 0.52 | 0.68 | 0.00 | 4.17 |
| 19 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.15 | 0.21 | 0.29 | 0.50 | 0.57 | 0.65 | 1.72 | 0.00 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.16 | 0.17 | 0.31 | 0.48 | 0.59 | 0.57 | 1.81 | 0.01 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.19 | 0.23 | 0.51 | 0.54 | 0.65 | 0.69 | 1.29 | 0.00 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.23 | 0.25 | 0.52 | 0.57 | 0.65 | 0.53 | 1.28 | 0.00 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.08 | 0.23 | 0.45 | 0.56 | 0.59 | 0.58 | 0.57 | 1.04 | 0.00 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 0.21 | 0.53 | 0.57 | 0.55 | 0.58 | 0.65 | 0.91 | 0.01 | 4.17 |
| TOTAL | 0.12 | 0.13 | 0.38 | 0.87 | 1.65 | 2.58 | 4.58 | 6.41 | 8.71 | 11.55 | 12.40 | 10.95 | 10.14 | 9.23 | 7.26 | 13.02 | 0.03 | |

NUMBER OF OBSERVATIONS 11160

| HOUR | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.02 | 0.01 | 0.04 | 0.09 | 0.06 | 0.29 | 0.32 | 0.56 | 0.77 | 0.83 | 0.39 | 0.34 | 0.22 | 0.13 | 0.05 | 0.04 | 0.00 | 4.17 |
| 2 | 0.02 | 0.01 | 0.05 | 0.07 | 0.09 | 0.22 | 0.39 | 0.58 | 0.88 | 0.81 | 0.34 | 0.30 | 0.22 | 0.12 | 0.04 | 0.02 | 0.00 | 4.17 |
| 3 | 0.00 | 0.02 | 0.05 | 0.06 | 0.13 | 0.25 | 0.43 | 0.64 | 0.75 | 0.90 | 0.39 | 0.26 | 0.16 | 0.08 | 0.04 | 0.01 | 0.00 | 4.17 |
| 4 | 0.03 | 0.03 | 0.09 | 0.04 | 0.18 | 0.21 | 0.38 | 0.66 | 0.79 | 0.70 | 0.54 | 0.28 | 0.14 | 0.07 | 0.03 | 0.02 | 0.00 | 4.17 |
| 5 | 0.03 | 0.03 | 0.04 | 0.05 | 0.14 | 0.22 | 0.31 | 0.56 | 0.73 | 0.88 | 0.60 | 0.34 | 0.16 | 0.04 | 0.04 | 0.00 | 0.00 | 4.17 |
| 6 | 0.02 | 0.00 | 0.00 | 0.05 | 0.13 | 0.23 | 0.40 | 0.69 | 0.85 | 0.69 | 0.54 | 0.31 | 0.16 | 0.03 | 0.04 | 0.03 | 0.00 | 4.17 |
| 7 | 0.00 | 0.01 | 0.01 | 0.03 | 0.08 | 0.26 | 0.35 | 0.63 | 0.80 | 0.56 | 0.55 | 0.43 | 0.26 | 0.13 | 0.04 | 0.03 | 0.00 | 4.17 |
| 8 | 0.00 | 0.00 | 0.00 | 0.05 | 0.13 | 0.17 | 0.39 | 0.82 | 0.73 | 0.81 | 0.56 | 0.28 | 0.13 | 0.04 | 0.06 | 0.00 | 0.00 | 4.17 |
| 9 | 0.00 | 0.01 | 0.01 | 0.04 | 0.13 | 0.13 | 0.39 | 0.67 | 0.83 | 0.91 | 0.56 | 0.28 | 0.13 | 0.04 | 0.00 | 0.03 | 0.00 | 4.17 |
| 10 | 0.03 | 0.04 | 0.03 | 0.04 | 0.07 | 0.12 | 0.37 | 0.69 | 0.87 | 0.82 | 0.60 | 0.32 | 0.10 | 0.04 | 0.04 | 0.02 | 0.00 | 4.17 |
| 11 | 0.04 | 0.02 | 0.03 | 0.04 | 0.13 | 0.17 | 0.28 | 0.50 | 0.77 | 0.91 | 0.68 | 0.29 | 0.15 | 0.09 | 0.04 | 0.03 | 0.00 | 4.17 |
| 12 | 0.05 | 0.04 | 0.04 | 0.04 | 0.07 | 0.16 | 0.30 | 0.67 | 0.67 | 0.78 | 0.67 | 0.37 | 0.13 | 0.09 | 0.03 | 0.04 | 0.00 | 4.17 |
| 13 | 0.06 | 0.03 | 0.03 | 0.07 | 0.11 | 0.23 | 0.31 | 0.47 | 0.69 | 0.76 | 0.63 | 0.39 | 0.22 | 0.08 | 0.03 | 0.06 | 0.00 | 4.17 |
| 14 | 0.04 | 0.04 | 0.04 | 0.06 | 0.11 | 0.21 | 0.26 | 0.55 | 0.73 | 0.72 | 0.70 | 0.40 | 0.19 | 0.07 | 0.02 | 0.05 | 0.00 | 4.17 |
| 15 | 0.05 | 0.01 | 0.06 | 0.05 | 0.13 | 0.24 | 0.27 | 0.53 | 0.70 | 0.75 | 0.64 | 0.37 | 0.20 | 0.05 | 0.06 | 0.04 | 0.00 | 4.17 |
| 16 | 0.06 | 0.04 | 0.08 | 0.08 | 0.08 | 0.26 | 0.34 | 0.50 | 0.65 | 0.73 | 0.65 | 0.30 | 0.14 | 0.12 | 0.06 | 0.05 | 0.02 | 4.17 |
| 17 | 0.04 | 0.01 | 0.03 | 0.11 | 0.15 | 0.22 | 0.32 | 0.55 | 0.73 | 0.79 | 0.56 | 0.36 | 0.13 | 0.12 | 0.04 | 0.04 | 0.00 | 4.17 |
| 18 | 0.04 | 0.01 | 0.04 | 0.04 | 0.09 | 0.16 | 0.26 | 0.45 | 0.78 | 0.77 | 0.65 | 0.47 | 0.23 | 0.07 | 0.05 | 0.05 | 0.00 | 4.17 |
| 19 | 0.01 | 0.02 | 0.01 | 0.04 | 0.04 | 0.13 | 0.20 | 0.31 | 0.57 | 0.78 | 0.79 | 0.55 | 0.29 | 0.22 | 0.12 | 0.09 | 0.00 | 4.17 |
| 20 | 0.01 | 0.01 | 0.01 | 0.03 | 0.04 | 0.13 | 0.24 | 0.39 | 0.53 | 0.69 | 0.61 | 0.47 | 0.46 | 0.22 | 0.15 | 0.18 | 0.00 | 4.17 |
| 21 | 0.00 | 0.01 | 0.00 | 0.04 | 0.06 | 0.12 | 0.30 | 0.53 | 0.55 | 0.68 | 0.60 | 0.47 | 0.32 | 0.25 | 0.12 | 0.11 | 0.01 | 4.17 |
| 22 | 0.00 | 0.02 | 0.03 | 0.02 | 0.09 | 0.18 | 0.25 | 0.47 | 0.69 | 0.75 | 0.60 | 0.43 | 0.31 | 0.13 | 0.09 | 0.10 | 0.00 | 4.17 |
| 23 | 0.01 | 0.00 | 0.04 | 0.04 | 0.08 | 0.15 | 0.31 | 0.56 | 0.78 | 0.79 | 0.52 | 0.39 | 0.19 | 0.13 | 0.09 | 0.07 | 0.00 | 4.17 |
| 24 | 0.01 | 0.01 | 0.01 | 0.08 | 0.16 | 0.20 | 0.37 | 0.45 | 0.79 | 0.79 | 0.55 | 0.30 | 0.23 | 0.13 | 0.05 | 0.05 | 0.00 | 4.17 |
| TOTAL | 0.56 | 0.39 | 0.76 | 1.27 | 2.49 | 4.67 | 7.76 | 13.43 | 17.63 | 18.58 | 13.90 | 8.69 | 4.88 | 2.49 | 1.31 | 1.16 | 0.03 | |

Table 450. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. August 1950-1964

NUMBER OF OBSERVATIONS 11160

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.31 | 0.47 | 0.65 | 0.66 | 0.61 | 0.51 | 0.81 | 0.00 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.11 | 0.39 | 0.54 | 0.70 | 0.78 | 0.64 | 0.34 | 0.64 | 0.00 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.11 | 0.39 | 0.58 | 0.81 | 0.73 | 0.63 | 0.33 | 0.53 | 0.00 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.25 | 0.37 | 0.67 | 0.73 | 0.80 | 0.47 | 0.35 | 0.48 | 0.00 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.06 | 0.21 | 0.47 | 0.67 | 0.82 | 0.65 | 0.56 | 0.43 | 0.27 | 0.00 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.04 | 0.13 | 0.22 | 0.55 | 1.06 | 0.72 | 0.74 | 0.32 | 0.20 | 0.06 | 0.09 | 0.00 | 4.17 |
| 7 | 0.00 | 0.03 | 0.04 | 0.12 | 0.25 | 0.33 | 0.44 | 0.76 | 0.81 | 0.61 | 0.41 | 0.22 | 0.11 | 0.04 | 0.00 | 0.01 | 0.00 | 4.17 |
| 8 | 0.04 | 0.06 | 0.14 | 0.18 | 0.32 | 0.38 | 0.62 | 0.54 | 0.72 | 0.47 | 0.39 | 0.19 | 0.07 | 0.02 | 0.01 | 0.01 | 0.00 | 4.17 |
| 9 | 0.01 | 0.03 | 0.06 | 0.08 | 0.23 | 0.36 | 0.60 | 0.67 | 0.80 | 0.65 | 0.39 | 0.13 | 0.10 | 0.05 | 0.02 | 0.00 | 0.00 | 4.17 |
| 10 | 0.01 | 0.02 | 0.04 | 0.05 | 0.11 | 0.30 | 0.47 | 0.78 | 0.86 | 0.65 | 0.42 | 0.23 | 0.11 | 0.08 | 0.03 | 0.02 | 0.00 | 4.17 |
| 11 | 0.03 | 0.00 | 0.03 | 0.04 | 0.08 | 0.18 | 0.32 | 0.59 | 0.80 | 0.80 | 0.63 | 0.39 | 0.14 | 0.09 | 0.02 | 0.04 | 0.00 | 4.17 |
| 12 | 0.02 | 0.02 | 0.01 | 0.03 | 0.03 | 0.14 | 0.32 | 0.53 | 0.72 | 0.77 | 0.63 | 0.57 | 0.23 | 0.09 | 0.04 | 0.02 | 0.00 | 4.17 |
| 13 | 0.02 | 0.00 | 0.01 | 0.03 | 0.07 | 0.10 | 0.27 | 0.40 | 0.78 | 0.74 | 0.65 | 0.47 | 0.40 | 0.14 | 0.04 | 0.04 | 0.00 | 4.17 |
| 14 | 0.01 | 0.00 | 0.04 | 0.01 | 0.02 | 0.09 | 0.17 | 0.29 | 0.42 | 0.65 | 0.87 | 0.67 | 0.44 | 0.30 | 0.11 | 0.08 | 0.00 | 4.17 |
| 15 | 0.01 | 0.01 | 0.01 | 0.04 | 0.02 | 0.04 | 0.19 | 0.30 | 0.34 | 0.61 | 0.62 | 0.70 | 0.60 | 0.36 | 0.20 | 0.13 | 0.00 | 4.17 |
| 16 | 0.00 | 0.01 | 0.00 | 0.01 | 0.04 | 0.06 | 0.04 | 0.20 | 0.40 | 0.47 | 0.57 | 0.62 | 0.73 | 0.48 | 0.27 | 0.27 | 0.00 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.07 | 0.08 | 0.17 | 0.49 | 0.65 | 0.64 | 0.63 | 0.50 | 0.41 | 0.47 | 0.00 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.07 | 0.20 | 0.30 | 0.58 | 0.60 | 0.73 | 0.58 | 1.08 | 0.00 | 4.17 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.20 | 0.25 | 0.39 | 0.66 | 0.53 | 2.04 | 0.00 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.09 | 0.17 | 0.33 | 0.63 | 0.65 | 0.70 | 1.56 | 0.00 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.13 | 0.22 | 0.51 | 0.55 | 0.78 | 0.61 | 1.31 | 0.00 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.13 | 0.37 | 0.48 | 0.57 | 0.67 | 0.72 | 1.14 | 0.00 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.14 | 0.43 | 0.55 | 0.71 | 0.60 | 0.60 | 1.07 | 0.00 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.20 | 0.51 | 0.68 | 0.63 | 0.71 | 0.44 | 0.92 | 0.00 | 4.17 |
| TOTAL | 0.14 | 0.17 | 0.38 | 0.60 | 1.18 | 2.11 | 3.72 | 5.60 | 8.56 | 10.83 | 12.06 | 12.66 | 11.57 | 10.04 | 7.35 | 13.02 | 0.00 | |

NUMBER OF OBSERVATIONS 11160

| HOUR | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.01 | 0.04 | 0.04 | 0.11 | 0.13 | 0.30 | 0.42 | 0.61 | 0.69 | 0.65 | 0.50 | 0.28 | 0.25 | 0.07 | 0.03 | 0.03 | 0.01 | 4.17 |
| 2 | 0.04 | 0.03 | 0.04 | 0.05 | 0.18 | 0.18 | 0.44 | 0.65 | 0.84 | 0.74 | 0.37 | 0.27 | 0.18 | 0.10 | 0.04 | 0.02 | 0.00 | 4.17 |
| 3 | 0.04 | 0.02 | 0.04 | 0.13 | 0.13 | 0.22 | 0.43 | 0.69 | 0.82 | 0.65 | 0.47 | 0.26 | 0.19 | 0.07 | 0.01 | 0.01 | 0.00 | 4.17 |
| 4 | 0.04 | 0.03 | 0.05 | 0.09 | 0.23 | 0.22 | 0.39 | 0.57 | 0.82 | 0.74 | 0.49 | 0.27 | 0.16 | 0.04 | 0.01 | 0.00 | 0.00 | 4.17 |
| 5 | 0.02 | 0.04 | 0.05 | 0.09 | 0.15 | 0.29 | 0.36 | 0.64 | 0.85 | 0.73 | 0.52 | 0.23 | 0.15 | 0.04 | 0.01 | 0.00 | 0.00 | 4.17 |
| 6 | 0.03 | 0.02 | 0.04 | 0.04 | 0.14 | 0.27 | 0.33 | 0.72 | 0.67 | 0.90 | 0.61 | 0.25 | 0.05 | 0.07 | 0.01 | 0.01 | 0.00 | 4.17 |
| 7 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.14 | 0.29 | 0.61 | 0.69 | 0.93 | 0.56 | 0.45 | 0.20 | 0.14 | 0.03 | 0.02 | 0.00 | 4.17 |
| 8 | 0.01 | 0.01 | 0.00 | 0.04 | 0.06 | 0.15 | 0.32 | 0.56 | 0.78 | 0.68 | 0.76 | 0.41 | 0.19 | 0.11 | 0.04 | 0.04 | 0.00 | 4.17 |
| 9 | 0.01 | 0.00 | 0.03 | 0.02 | 0.07 | 0.14 | 0.32 | 0.50 | 0.75 | 0.91 | 0.65 | 0.47 | 0.13 | 0.11 | 0.03 | 0.03 | 0.00 | 4.17 |
| 10 | 0.04 | 0.00 | 0.03 | 0.06 | 0.06 | 0.13 | 0.25 | 0.55 | 0.93 | 0.80 | 0.63 | 0.40 | 0.18 | 0.07 | 0.02 | 0.01 | 0.00 | 4.17 |
| 11 | 0.02 | 0.01 | 0.02 | 0.02 | 0.06 | 0.14 | 0.35 | 0.50 | 0.73 | 0.74 | 0.91 | 0.38 | 0.21 | 0.06 | 0.02 | 0.00 | 0.00 | 4.17 |
| 12 | 0.01 | 0.02 | 0.03 | 0.03 | 0.11 | 0.16 | 0.38 | 0.43 | 0.53 | 0.87 | 0.86 | 0.47 | 0.17 | 0.09 | 0.03 | 0.00 | 0.00 | 4.17 |
| 13 | 0.03 | 0.02 | 0.01 | 0.01 | 0.14 | 0.23 | 0.30 | 0.45 | 0.65 | 0.64 | 0.66 | 0.59 | 0.26 | 0.13 | 0.04 | 0.01 | 0.00 | 4.17 |
| 14 | 0.05 | 0.00 | 0.04 | 0.07 | 0.04 | 0.13 | 0.28 | 0.52 | 0.66 | 0.74 | 0.65 | 0.51 | 0.28 | 0.09 | 0.05 | 0.03 | 0.00 | 4.17 |
| 15 | 0.06 | 0.04 | 0.02 | 0.05 | 0.12 | 0.21 | 0.33 | 0.48 | 0.63 | 0.75 | 0.65 | 0.53 | 0.19 | 0.08 | 0.01 | 0.02 | 0.00 | 4.17 |
| 16 | 0.07 | 0.04 | 0.03 | 0.04 | 0.13 | 0.30 | 0.54 | 0.59 | 0.86 | 0.68 | 0.42 | 0.19 | 0.07 | 0.04 | 0.03 | 0.00 | 0.00 | 4.17 |
| 17 | 0.07 | 0.01 | 0.04 | 0.06 | 0.05 | 0.12 | 0.27 | 0.56 | 0.91 | 0.71 | 0.56 | 0.45 | 0.25 | 0.06 | 0.02 | 0.04 | 0.00 | 4.17 |
| 18 | 0.04 | 0.00 | 0.01 | 0.03 | 0.03 | 0.13 | 0.13 | 0.39 | 0.81 | 0.88 | 0.73 | 0.45 | 0.23 | 0.18 | 0.08 | 0.04 | 0.00 | 4.17 |
| 19 | 0.01 | 0.01 | 0.00 | 0.03 | 0.04 | 0.05 | 0.21 | 0.34 | 0.54 | 0.79 | 0.75 | 0.60 | 0.38 | 0.20 | 0.15 | 0.08 | 0.00 | 4.17 |
| 20 | 0.00 | 0.01 | 0.00 | 0.01 | 0.04 | 0.12 | 0.30 | 0.34 | 0.47 | 0.78 | 0.81 | 0.50 | 0.39 | 0.26 | 0.07 | 0.08 | 0.00 | 4.17 |
| 21 | 0.00 | 0.01 | 0.00 | 0.06 | 0.08 | 0.15 | 0.28 | 0.42 | 0.65 | 0.80 | 0.64 | 0.46 | 0.30 | 0.15 | 0.11 | 0.06 | 0.00 | 4.17 |
| 22 | 0.00 | 0.01 | 0.04 | 0.03 | 0.13 | 0.16 | 0.32 | 0.41 | 0.69 | 0.82 | 0.58 | 0.51 | 0.21 | 0.20 | 0.03 | 0.04 | 0.00 | 4.17 |
| 23 | 0.00 | 0.04 | 0.04 | 0.04 | 0.13 | 0.13 | 0.38 | 0.65 | 0.63 | 0.77 | 0.65 | 0.33 | 0.21 | 0.10 | 0.04 | 0.04 | 0.00 | 4.17 |
| 24 | 0.00 | 0.04 | 0.04 | 0.07 | 0.12 | 0.24 | 0.55 | 0.59 | 0.64 | 0.71 | 0.60 | 0.40 | 0.13 | 0.07 | 0.03 | 0.04 | 0.00 | 4.17 |
| TOTAL | 0.60 | 0.41 | 0.63 | 1.21 | 2.46 | 4.18 | 7.81 | 12.72 | 16.96 | 18.59 | 15.30 | 9.88 | 5.06 | 2.58 | 0.94 | 0.65 | 0.01 | |

Table 451. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. September 1950-1964

| | | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|-------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|-------|---------|-------|
| | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| HOURL | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 1 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.16 | 0.42 | 0.46 | 0.71 | 0.64 | 0.57 | 0.37 | 0.75 | 0.00 | 4.17 |
| 2 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.23 | 0.45 | 0.57 | 0.62 | 0.62 | 0.58 | 0.35 | 0.65 | 0.00 | 4.17 |
| 3 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.13 | 0.31 | 0.31 | 0.54 | 0.77 | 0.74 | 0.55 | 0.34 | 0.44 | 0.00 | 4.17 |
| 4 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.05 | 0.12 | 0.22 | 0.43 | 0.63 | 0.69 | 0.60 | 0.60 | 0.44 | 0.34 | 0.01 | 4.17 |
| 5 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.06 | 0.06 | 0.32 | 0.44 | 0.61 | 0.62 | 0.84 | 0.54 | 0.32 | 0.33 | 0.00 | 4.17 |
| 6 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.21 | 0.37 | 0.52 | 0.79 | 0.75 | 0.60 | 0.45 | 0.26 | 0.18 | 0.00 | 4.17 |
| 7 | | 0.00 | 0.01 | 0.06 | 0.11 | 0.23 | 0.31 | 0.43 | 0.48 | 0.57 | 0.69 | 0.66 | 0.36 | 0.16 | 0.06 | 0.00 | 0.03 | 0.00 | 4.17 |
| 8 | | 0.06 | 0.13 | 0.16 | 0.30 | 0.23 | 0.41 | 0.52 | 0.61 | 0.53 | 0.53 | 0.34 | 0.22 | 0.06 | 0.05 | 0.01 | 0.01 | 0.00 | 4.17 |
| 9 | | 0.04 | 0.06 | 0.17 | 0.27 | 0.35 | 0.59 | 0.48 | 0.69 | 0.53 | 0.40 | 0.36 | 0.11 | 0.09 | 0.00 | 0.03 | 0.00 | 0.00 | 4.17 |
| 10 | | 0.01 | 0.03 | 0.07 | 0.17 | 0.23 | 0.44 | 0.66 | 0.73 | 0.74 | 0.38 | 0.44 | 0.15 | 0.09 | 0.00 | 0.00 | 0.02 | 0.00 | 4.17 |
| 11 | | 0.00 | 0.02 | 0.03 | 0.07 | 0.25 | 0.31 | 0.59 | 0.76 | 0.65 | 0.60 | 0.48 | 0.20 | 0.08 | 0.07 | 0.01 | 0.04 | 0.00 | 4.17 |
| 12 | | 0.01 | 0.00 | 0.00 | 0.04 | 0.18 | 0.24 | 0.55 | 0.65 | 0.76 | 0.68 | 0.48 | 0.32 | 0.18 | 0.06 | 0.01 | 0.03 | 0.00 | 4.17 |
| 13 | | 0.00 | 0.00 | 0.01 | 0.03 | 0.17 | 0.23 | 0.44 | 0.49 | 0.69 | 0.79 | 0.56 | 0.37 | 0.22 | 0.12 | 0.05 | 0.01 | 0.00 | 4.17 |
| 14 | | 0.00 | 0.00 | 0.01 | 0.04 | 0.08 | 0.18 | 0.19 | 0.39 | 0.62 | 0.74 | 0.80 | 0.55 | 0.29 | 0.14 | 0.08 | 0.07 | 0.00 | 4.17 |
| 15 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.14 | 0.31 | 0.45 | 0.77 | 0.78 | 0.70 | 0.44 | 0.25 | 0.09 | 0.14 | 0.00 | 4.17 |
| 16 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.22 | 0.41 | 0.60 | 0.69 | 0.68 | 0.61 | 0.39 | 0.27 | 0.20 | 0.00 | 4.17 |
| 17 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.13 | 0.38 | 0.56 | 0.63 | 0.77 | 0.71 | 0.35 | 0.56 | 0.00 | 4.17 |
| 18 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.06 | 0.23 | 0.33 | 0.45 | 0.78 | 0.71 | 1.54 | 0.00 | 4.17 |
| 19 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.19 | 0.38 | 0.51 | 0.67 | 0.54 | 1.78 | 0.00 | 4.17 |
| 20 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.15 | 0.38 | 0.35 | 0.66 | 0.58 | 0.57 | 1.40 | 0.00 | 4.17 |
| 21 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.12 | 0.20 | 0.31 | 0.52 | 0.57 | 0.54 | 0.55 | 1.32 | 0.00 | 4.17 |
| 22 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.13 | 0.21 | 0.39 | 0.50 | 0.70 | 0.67 | 0.53 | 1.01 | 0.00 | 4.17 |
| 23 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.05 | 0.15 | 0.26 | 0.44 | 0.62 | 0.65 | 0.53 | 0.55 | 0.91 | 0.00 | 4.17 |
| 24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.05 | 0.21 | 0.33 | 0.45 | 0.61 | 0.63 | 0.52 | 0.51 | 0.80 | 0.02 | 4.17 |
| TOTAL | | 0.12 | 0.25 | 0.50 | 1.04 | 1.76 | 2.86 | 4.33 | 6.19 | 8.44 | 10.42 | 12.16 | 11.78 | 11.22 | 9.43 | 6.94 | 12.55 | 0.03 | |

| | | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | | |
|-------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| HOURL | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 1 | | 0.03 | 0.01 | 0.10 | 0.13 | 0.17 | 0.30 | 0.54 | 0.73 | 0.61 | 0.64 | 0.40 | 0.20 | 0.19 | 0.07 | 0.01 | 0.04 | 0.00 | 4.17 |
| 2 | | 0.03 | 0.05 | 0.03 | 0.11 | 0.21 | 0.34 | 0.45 | 0.53 | 0.80 | 0.60 | 0.48 | 0.29 | 0.16 | 0.02 | 0.06 | 0.02 | 0.00 | 4.17 |
| 3 | | 0.02 | 0.04 | 0.04 | 0.17 | 0.21 | 0.25 | 0.50 | 0.61 | 0.69 | 0.71 | 0.48 | 0.22 | 0.14 | 0.04 | 0.03 | 0.02 | 0.00 | 4.17 |
| 4 | | 0.04 | 0.02 | 0.05 | 0.11 | 0.23 | 0.31 | 0.46 | 0.66 | 0.71 | 0.66 | 0.43 | 0.26 | 0.16 | 0.04 | 0.03 | 0.02 | 0.00 | 4.17 |
| 5 | | 0.04 | 0.03 | 0.06 | 0.06 | 0.18 | 0.31 | 0.43 | 0.69 | 0.73 | 0.67 | 0.48 | 0.29 | 0.10 | 0.06 | 0.03 | 0.02 | 0.00 | 4.17 |
| 6 | | 0.04 | 0.01 | 0.05 | 0.06 | 0.18 | 0.21 | 0.48 | 0.46 | 0.94 | 0.81 | 0.45 | 0.26 | 0.12 | 0.06 | 0.02 | 0.01 | 0.01 | 4.17 |
| 7 | | 0.02 | 0.05 | 0.02 | 0.07 | 0.10 | 0.17 | 0.36 | 0.54 | 0.87 | 0.76 | 0.51 | 0.41 | 0.19 | 0.08 | 0.02 | 0.01 | 0.00 | 4.17 |
| 8 | | 0.00 | 0.00 | 0.02 | 0.05 | 0.11 | 0.17 | 0.24 | 0.56 | 0.64 | 0.80 | 0.64 | 0.44 | 0.32 | 0.10 | 0.04 | 0.06 | 0.00 | 4.17 |
| 9 | | 0.03 | 0.01 | 0.00 | 0.04 | 0.07 | 0.22 | 0.42 | 0.68 | 0.75 | 0.66 | 0.64 | 0.40 | 0.19 | 0.05 | 0.01 | 0.01 | 0.00 | 4.17 |
| 10 | | 0.01 | 0.00 | 0.01 | 0.06 | 0.17 | 0.18 | 0.45 | 0.62 | 0.80 | 0.69 | 0.53 | 0.38 | 0.17 | 0.06 | 0.02 | 0.03 | 0.00 | 4.17 |
| 11 | | 0.02 | 0.01 | 0.02 | 0.06 | 0.10 | 0.19 | 0.44 | 0.69 | 0.78 | 0.79 | 0.48 | 0.33 | 0.16 | 0.06 | 0.02 | 0.03 | 0.00 | 4.17 |
| 12 | | 0.01 | 0.01 | 0.04 | 0.07 | 0.15 | 0.25 | 0.41 | 0.64 | 0.63 | 0.79 | 0.53 | 0.35 | 0.17 | 0.05 | 0.06 | 0.02 | 0.00 | 4.17 |
| 13 | | 0.04 | 0.04 | 0.05 | 0.02 | 0.13 | 0.30 | 0.32 | 0.50 | 0.85 | 0.76 | 0.44 | 0.43 | 0.19 | 0.07 | 0.03 | 0.02 | 0.00 | 4.17 |
| 14 | | 0.04 | 0.02 | 0.06 | 0.11 | 0.10 | 0.20 | 0.30 | 0.62 | 0.70 | 0.67 | 0.60 | 0.36 | 0.29 | 0.07 | 0.01 | 0.01 | 0.01 | 4.17 |
| 15 | | 0.02 | 0.01 | 0.02 | 0.05 | 0.11 | 0.17 | 0.31 | 0.55 | 0.83 | 0.96 | 0.51 | 0.38 | 0.14 | 0.10 | 0.01 | 0.00 | 0.00 | 4.17 |
| 16 | | 0.03 | 0.01 | 0.04 | 0.07 | 0.06 | 0.17 | 0.45 | 0.59 | 0.84 | 0.77 | 0.59 | 0.34 | 0.13 | 0.04 | 0.02 | 0.01 | 0.00 | 4.17 |
| 17 | | 0.01 | 0.01 | 0.05 | 0.04 | 0.04 | 0.17 | 0.33 | 0.57 | 1.04 | 0.62 | 0.66 | 0.40 | 0.15 | 0.06 | 0.01 | 0.02 | 0.00 | 4.17 |
| 18 | | 0.02 | 0.01 | 0.01 | 0.04 | 0.06 | 0.08 | 0.24 | 0.35 | 0.64 | 0.89 | 0.63 | 0.50 | 0.34 | 0.19 | 0.10 | 0.06 | 0.01 | 4.17 |
| 19 | | 0.02 | 0.01 | 0.02 | 0.05 | 0.09 | 0.10 | 0.20 | 0.37 | 0.65 | 0.71 | 0.69 | 0.49 | 0.33 | 0.29 | 0.10 | 0.05 | 0.00 | 4.17 |
| 20 | | 0.00 | 0.01 | 0.03 | 0.06 | 0.13 | 0.15 | 0.26 | 0.39 | 0.63 | 0.81 | 0.56 | 0.46 | 0.31 | 0.17 | 0.11 | 0.08 | 0.00 | 4.17 |
| 21 | | 0.01 | 0.00 | 0.02 | 0.12 | 0.09 | 0.26 | 0.42 | 0.57 | 0.57 | 0.69 | 0.55 | 0.36 | 0.20 | 0.14 | 0.06 | 0.09 | 0.00 | 4.17 |
| 22 | | 0.02 | 0.04 | 0.03 | 0.08 | 0.11 | 0.21 | 0.32 | 0.64 | 0.70 | 0.81 | 0.46 | 0.33 | 0.22 | 0.08 | 0.06 | 0.04 | 0.00 | 4.17 |
| 23 | | 0.05 | 0.05 | 0.04 | 0.07 | 0.21 | 0.30 | 0.39 | 0.69 | 0.66 | 0.68 | 0.52 | 0.20 | 0.20 | 0.05 | 0.05 | 0.03 | 0.00 | 4.17 |
| 24 | | 0.03 | 0.03 | 0.08 | 0.09 | 0.26 | 0.47 | 0.38 | 0.51 | 0.75 | 0.59 | 0.42 | 0.28 | 0.14 | 0.06 | 0.04 | 0.04 | 0.00 | 4.17 |
| TOTAL | | 0.54 | 0.44 | 0.85 | 1.79 | 3.28 | 5.45 | 9.12 | 13.76 | 17.81 | 17.54 | 12.67 | 8.36 | 4.71 | 2.02 | 0.93 | 0.70 | 0.03 | |

Table 452. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. October 1950-1964

NUMBER OF OBSERVATIONS 11160

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.13 | 0.25 | 0.59 | 0.56 | 0.62 | 0.66 | 0.48 | 0.25 | 0.55 | 0.00 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.21 | 0.28 | 0.47 | 0.59 | 0.78 | 0.63 | 0.39 | 0.35 | 0.39 | 0.00 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.10 | 0.11 | 0.37 | 0.55 | 0.71 | 0.64 | 0.60 | 0.47 | 0.33 | 0.30 | 0.00 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.19 | 0.33 | 0.62 | 0.65 | 0.68 | 0.60 | 0.41 | 0.28 | 0.32 | 0.00 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.09 | 0.18 | 0.32 | 0.62 | 0.69 | 0.67 | 0.46 | 0.48 | 0.31 | 0.28 | 0.00 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.13 | 0.23 | 0.27 | 0.56 | 0.71 | 0.74 | 0.54 | 0.39 | 0.25 | 0.30 | 0.00 | 4.17 |
| 7 | 0.00 | 0.01 | 0.01 | 0.03 | 0.09 | 0.12 | 0.29 | 0.43 | 0.56 | 0.82 | 0.78 | 0.50 | 0.24 | 0.10 | 0.10 | 0.04 | 0.05 | 4.17 |
| 8 | 0.13 | 0.06 | 0.16 | 0.21 | 0.27 | 0.52 | 0.46 | 0.70 | 0.47 | 0.47 | 0.37 | 0.16 | 0.07 | 0.04 | 0.01 | 0.02 | 0.05 | 4.17 |
| 9 | 0.20 | 0.13 | 0.18 | 0.38 | 0.38 | 0.57 | 0.54 | 0.55 | 0.40 | 0.38 | 0.25 | 0.13 | 0.04 | 0.02 | 0.00 | 0.01 | 0.01 | 4.17 |
| 10 | 0.08 | 0.09 | 0.21 | 0.24 | 0.47 | 0.46 | 0.56 | 0.69 | 0.54 | 0.41 | 0.22 | 0.08 | 0.06 | 0.03 | 0.02 | 0.01 | 0.01 | 4.17 |
| 11 | 0.03 | 0.05 | 0.12 | 0.22 | 0.34 | 0.47 | 0.52 | 0.59 | 0.69 | 0.52 | 0.32 | 0.15 | 0.05 | 0.06 | 0.01 | 0.02 | 0.01 | 4.17 |
| 12 | 0.02 | 0.02 | 0.05 | 0.13 | 0.23 | 0.43 | 0.55 | 0.59 | 0.73 | 0.57 | 0.38 | 0.29 | 0.11 | 0.04 | 0.01 | 0.02 | 0.01 | 4.17 |
| 13 | 0.01 | 0.04 | 0.02 | 0.14 | 0.14 | 0.35 | 0.39 | 0.62 | 0.73 | 0.62 | 0.55 | 0.28 | 0.18 | 0.04 | 0.04 | 0.03 | 0.01 | 4.17 |
| 14 | 0.00 | 0.00 | 0.01 | 0.08 | 0.05 | 0.23 | 0.32 | 0.47 | 0.74 | 0.80 | 0.66 | 0.35 | 0.22 | 0.11 | 0.03 | 0.08 | 0.01 | 4.17 |
| 15 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.03 | 0.12 | 0.25 | 0.68 | 0.89 | 0.80 | 0.68 | 0.35 | 0.21 | 0.07 | 0.05 | 0.01 | 4.17 |
| 16 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.04 | 0.12 | 0.27 | 0.69 | 0.89 | 0.83 | 0.64 | 0.31 | 0.19 | 0.16 | 0.01 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.25 | 0.39 | 0.72 | 0.63 | 0.59 | 0.58 | 0.93 | 0.00 | 4.17 |
| 18 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.18 | 0.36 | 0.57 | 0.61 | 0.61 | 0.43 | 1.23 | 0.08 | 4.17 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.10 | 0.23 | 0.43 | 0.65 | 0.72 | 0.50 | 0.54 | 0.92 | 0.07 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.10 | 0.27 | 0.57 | 0.72 | 0.65 | 0.65 | 0.37 | 0.79 | 0.00 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.17 | 0.34 | 0.55 | 0.67 | 0.69 | 0.47 | 0.45 | 0.73 | 0.00 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.04 | 0.19 | 0.44 | 0.65 | 0.65 | 0.62 | 0.44 | 0.40 | 0.68 | 0.00 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.06 | 0.20 | 0.55 | 0.55 | 0.78 | 0.58 | 0.40 | 0.36 | 0.64 | 0.00 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.03 | 0.12 | 0.24 | 0.57 | 0.60 | 0.65 | 0.49 | 0.52 | 0.37 | 0.54 | 0.00 | 4.17 |
| TOTAL | 0.47 | 0.41 | 0.76 | 1.43 | 2.05 | 3.41 | 4.36 | 6.42 | 8.77 | 12.39 | 13.22 | 13.00 | 10.45 | 7.76 | 5.73 | 9.02 | 0.33 | |

NUMBER OF OBSERVATIONS 11160

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.15 | 0.07 | 0.06 | 0.20 | 0.10 | 0.22 | 0.39 | 0.65 | 0.70 | 0.70 | 0.38 | 0.30 | 0.14 | 0.08 | 0.02 | 0.01 | 0.00 | 4.17 |
| 2 | 0.14 | 0.08 | 0.12 | 0.12 | 0.17 | 0.23 | 0.36 | 0.49 | 0.87 | 0.69 | 0.36 | 0.30 | 0.13 | 0.08 | 0.02 | 0.01 | 0.00 | 4.17 |
| 3 | 0.13 | 0.06 | 0.10 | 0.11 | 0.22 | 0.23 | 0.35 | 0.51 | 0.77 | 0.68 | 0.48 | 0.33 | 0.13 | 0.04 | 0.02 | 0.00 | 0.00 | 4.17 |
| 4 | 0.13 | 0.07 | 0.07 | 0.13 | 0.12 | 0.27 | 0.39 | 0.53 | 0.68 | 0.77 | 0.46 | 0.29 | 0.15 | 0.09 | 0.03 | 0.01 | 0.00 | 4.17 |
| 5 | 0.13 | 0.02 | 0.11 | 0.13 | 0.13 | 0.26 | 0.34 | 0.61 | 0.73 | 0.70 | 0.46 | 0.32 | 0.11 | 0.10 | 0.04 | 0.00 | 0.00 | 4.17 |
| 6 | 0.09 | 0.03 | 0.06 | 0.16 | 0.16 | 0.20 | 0.37 | 0.48 | 0.83 | 0.72 | 0.47 | 0.32 | 0.13 | 0.10 | 0.03 | 0.02 | 0.00 | 4.17 |
| 7 | 0.10 | 0.04 | 0.05 | 0.11 | 0.14 | 0.19 | 0.36 | 0.54 | 0.91 | 0.73 | 0.54 | 0.25 | 0.13 | 0.04 | 0.03 | 0.01 | 0.00 | 4.17 |
| 8 | 0.04 | 0.02 | 0.02 | 0.03 | 0.11 | 0.25 | 0.30 | 0.67 | 0.96 | 0.78 | 0.53 | 0.24 | 0.13 | 0.06 | 0.02 | 0.01 | 0.00 | 4.17 |
| 9 | 0.01 | 0.02 | 0.04 | 0.04 | 0.09 | 0.18 | 0.56 | 0.78 | 0.83 | 0.64 | 0.57 | 0.24 | 0.06 | 0.05 | 0.01 | 0.03 | 0.01 | 4.17 |
| 10 | 0.01 | 0.00 | 0.04 | 0.07 | 0.13 | 0.19 | 0.44 | 0.74 | 1.06 | 0.80 | 0.35 | 0.17 | 0.11 | 0.05 | 0.00 | 0.00 | 0.01 | 4.17 |
| 11 | 0.02 | 0.02 | 0.02 | 0.11 | 0.19 | 0.19 | 0.48 | 0.65 | 0.86 | 0.85 | 0.41 | 0.24 | 0.09 | 0.04 | 0.00 | 0.00 | 0.01 | 4.17 |
| 12 | 0.00 | 0.04 | 0.04 | 0.04 | 0.13 | 0.25 | 0.39 | 0.82 | 0.83 | 0.81 | 0.54 | 0.14 | 0.07 | 0.03 | 0.02 | 0.01 | 0.01 | 4.17 |
| 13 | 0.03 | 0.02 | 0.05 | 0.10 | 0.07 | 0.27 | 0.35 | 0.71 | 0.89 | 0.83 | 0.44 | 0.28 | 0.06 | 0.03 | 0.03 | 0.01 | 0.01 | 4.17 |
| 14 | 0.03 | 0.02 | 0.05 | 0.06 | 0.13 | 0.21 | 0.47 | 0.51 | 0.93 | 0.82 | 0.54 | 0.23 | 0.13 | 0.01 | 0.00 | 0.02 | 0.01 | 4.17 |
| 15 | 0.04 | 0.01 | 0.02 | 0.04 | 0.05 | 0.13 | 0.38 | 0.60 | 0.91 | 0.94 | 0.57 | 0.34 | 0.09 | 0.02 | 0.01 | 0.01 | 0.01 | 4.17 |
| 16 | 0.02 | 0.03 | 0.03 | 0.02 | 0.09 | 0.13 | 0.41 | 0.65 | 0.86 | 0.87 | 0.59 | 0.28 | 0.16 | 0.02 | 0.02 | 0.00 | 0.01 | 4.17 |
| 17 | 0.01 | 0.02 | 0.04 | 0.04 | 0.10 | 0.16 | 0.41 | 0.43 | 0.62 | 0.84 | 0.75 | 0.39 | 0.16 | 0.13 | 0.03 | 0.02 | 0.01 | 4.17 |
| 18 | 0.03 | 0.02 | 0.03 | 0.09 | 0.13 | 0.16 | 0.24 | 0.56 | 0.64 | 0.64 | 0.70 | 0.56 | 0.13 | 0.14 | 0.04 | 0.05 | 0.00 | 4.17 |
| 19 | 0.03 | 0.04 | 0.04 | 0.14 | 0.19 | 0.22 | 0.39 | 0.39 | 0.69 | 0.72 | 0.58 | 0.34 | 0.24 | 0.08 | 0.05 | 0.04 | 0.00 | 4.17 |
| 20 | 0.05 | 0.04 | 0.09 | 0.13 | 0.19 | 0.16 | 0.34 | 0.55 | 0.62 | 0.72 | 0.50 | 0.46 | 0.16 | 0.08 | 0.04 | 0.04 | 0.00 | 4.17 |
| 21 | 0.05 | 0.06 | 0.10 | 0.13 | 0.13 | 0.21 | 0.39 | 0.57 | 0.65 | 0.72 | 0.52 | 0.35 | 0.11 | 0.07 | 0.04 | 0.05 | 0.00 | 4.17 |
| 22 | 0.09 | 0.05 | 0.10 | 0.15 | 0.19 | 0.30 | 0.37 | 0.43 | 0.73 | 0.72 | 0.49 | 0.21 | 0.22 | 0.05 | 0.04 | 0.04 | 0.00 | 4.17 |
| 23 | 0.11 | 0.08 | 0.12 | 0.14 | 0.22 | 0.24 | 0.41 | 0.47 | 0.69 | 0.60 | 0.51 | 0.28 | 0.18 | 0.04 | 0.02 | 0.04 | 0.00 | 4.17 |
| 24 | 0.09 | 0.13 | 0.13 | 0.10 | 0.22 | 0.26 | 0.32 | 0.46 | 0.74 | 0.75 | 0.44 | 0.28 | 0.12 | 0.05 | 0.04 | 0.04 | 0.00 | 4.17 |
| TOTAL | 1.50 | 0.97 | 1.51 | 2.39 | 3.40 | 5.08 | 9.23 | 13.81 | 19.01 | 18.02 | 12.18 | 7.14 | 3.16 | 1.50 | 0.57 | 0.46 | 0.08 | |

Table 453. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. November 1950-1964

| HOUR | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|------------------------------|------|------|------|------|---------------------------------------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|
| | ≤-7 | -6 | -5 | -4 | -3 | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | 5 | 6 | 7 | ≥8 | | | |
| | | | | | | -2 | -1 | 0 | 1 | 2 | 3 | 4 | | | | | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.19 | 0.28 | 0.64 | 0.76 | 0.75 | 0.51 | 0.41 | 0.19 | 0.37 | 0.00 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.17 | 0.30 | 0.71 | 0.73 | 0.80 | 0.56 | 0.29 | 0.28 | 0.25 | 0.00 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.06 | 0.10 | 0.35 | 0.61 | 0.86 | 0.73 | 0.56 | 0.39 | 0.23 | 0.24 | 0.00 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.04 | 0.19 | 0.40 | 0.58 | 0.77 | 0.70 | 0.61 | 0.44 | 0.17 | 0.24 | 0.00 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.08 | 0.17 | 0.38 | 0.58 | 0.93 | 0.71 | 0.39 | 0.45 | 0.28 | 0.16 | 0.00 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.06 | 0.13 | 0.39 | 0.64 | 0.89 | 0.69 | 0.53 | 0.39 | 0.25 | 0.15 | 0.00 | 4.17 |
| 7 | 0.01 | 0.00 | 0.01 | 0.01 | 0.03 | 0.04 | 0.10 | 0.16 | 0.39 | 0.78 | 0.98 | 0.69 | 0.44 | 0.24 | 0.14 | 0.16 | 0.00 | 4.17 |
| 8 | 0.03 | 0.01 | 0.03 | 0.04 | 0.13 | 0.16 | 0.25 | 0.44 | 0.78 | 0.93 | 0.80 | 0.31 | 0.16 | 0.04 | 0.06 | 0.03 | 0.00 | 4.17 |
| 9 | 0.06 | 0.03 | 0.13 | 0.16 | 0.18 | 0.32 | 0.49 | 0.49 | 0.69 | 0.77 | 0.49 | 0.19 | 0.10 | 0.03 | 0.03 | 0.03 | 0.00 | 4.17 |
| 10 | 0.06 | 0.03 | 0.11 | 0.22 | 0.31 | 0.33 | 0.49 | 0.55 | 0.78 | 0.65 | 0.34 | 0.16 | 0.06 | 0.03 | 0.03 | 0.01 | 0.00 | 4.17 |
| 11 | 0.02 | 0.04 | 0.05 | 0.20 | 0.23 | 0.49 | 0.57 | 0.52 | 0.66 | 0.57 | 0.44 | 0.19 | 0.13 | 0.01 | 0.02 | 0.03 | 0.00 | 4.17 |
| 12 | 0.01 | 0.01 | 0.04 | 0.08 | 0.20 | 0.31 | 0.47 | 0.75 | 0.70 | 0.82 | 0.37 | 0.18 | 0.09 | 0.06 | 0.03 | 0.04 | 0.00 | 4.17 |
| 13 | 0.01 | 0.00 | 0.01 | 0.05 | 0.12 | 0.26 | 0.52 | 0.71 | 0.73 | 0.66 | 0.51 | 0.31 | 0.18 | 0.06 | 0.00 | 0.05 | 0.00 | 4.17 |
| 14 | 0.01 | 0.00 | 0.00 | 0.02 | 0.03 | 0.07 | 0.27 | 0.44 | 0.92 | 0.87 | 0.72 | 0.51 | 0.17 | 0.06 | 0.04 | 0.04 | 0.00 | 4.17 |
| 15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.22 | 0.40 | 1.00 | 1.10 | 0.81 | 0.31 | 0.17 | 0.02 | 0.07 | 0.00 | 4.17 |
| 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.19 | 0.45 | 0.71 | 0.92 | 0.98 | 0.51 | 0.15 | 0.22 | 0.00 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.03 | 0.10 | 0.32 | 0.53 | 0.83 | 0.67 | 0.53 | 0.45 | 0.67 | 0.00 | 4.17 |
| 18 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.12 | 0.44 | 0.75 | 0.65 | 0.78 | 0.45 | 0.38 | 0.52 | 0.00 | 4.17 |
| 19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.16 | 0.41 | 0.74 | 0.69 | 0.56 | 0.65 | 0.36 | 0.50 | 0.00 | 4.17 |
| 20 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.09 | 0.31 | 0.45 | 0.73 | 0.80 | 0.56 | 0.45 | 0.34 | 0.40 | 0.00 | 4.17 |
| 21 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.10 | 0.23 | 0.55 | 0.79 | 0.79 | 0.47 | 0.46 | 0.32 | 0.41 | 0.00 | 4.17 |
| 22 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.33 | 0.54 | 0.83 | 0.67 | 0.53 | 0.44 | 0.28 | 0.40 | 0.00 | 4.17 |
| 23 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.17 | 0.27 | 0.70 | 0.76 | 0.64 | 0.59 | 0.44 | 0.25 | 0.31 | 0.00 | 4.17 |
| 24 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.11 | 0.40 | 0.66 | 0.71 | 0.71 | 0.57 | 0.39 | 0.28 | 0.30 | 0.00 | 4.17 |
| TOTAL | 0.28 | 0.11 | 0.37 | 0.82 | 1.30 | 2.23 | 3.69 | 5.94 | 10.23 | 15.34 | 17.24 | 14.43 | 10.52 | 7.38 | 4.56 | 5.56 | 0.00 | |

| HOUR | NUMBER OF OBSERVATIONS 10800 | | | | | | | | | | | | | | | | MISSING | TOTAL | |
|-------|------------------------------|------|------|------|------|---------------------------------------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|------|
| | ≤-7 | -6 | -5 | -4 | -3 | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | 5 | 6 | 7 | ≥8 | | | | |
| | | | | | | -2 | -1 | 0 | 1 | 2 | 3 | 4 | | | | | | | |
| 1 | 0.04 | 0.03 | 0.06 | 0.03 | 0.12 | 0.16 | 0.30 | 0.52 | 0.87 | 0.84 | 0.63 | 0.33 | 0.17 | 0.06 | 0.01 | 0.01 | 0.01 | 0.01 | 4.17 |
| 2 | 0.06 | 0.00 | 0.03 | 0.11 | 0.11 | 0.19 | 0.35 | 0.50 | 0.77 | 0.92 | 0.70 | 0.23 | 0.12 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 4.17 |
| 3 | 0.03 | 0.02 | 0.04 | 0.06 | 0.12 | 0.21 | 0.36 | 0.51 | 0.70 | 0.99 | 0.59 | 0.29 | 0.14 | 0.04 | 0.06 | 0.01 | 0.00 | 0.00 | 4.17 |
| 4 | 0.04 | 0.01 | 0.06 | 0.06 | 0.07 | 0.21 | 0.33 | 0.48 | 0.85 | 0.89 | 0.71 | 0.27 | 0.06 | 0.08 | 0.01 | 0.03 | 0.00 | 0.00 | 4.17 |
| 5 | 0.04 | 0.02 | 0.02 | 0.07 | 0.14 | 0.18 | 0.35 | 0.53 | 0.77 | 0.92 | 0.66 | 0.28 | 0.12 | 0.03 | 0.03 | 0.03 | 0.00 | 0.00 | 4.17 |
| 6 | 0.03 | 0.01 | 0.03 | 0.05 | 0.14 | 0.23 | 0.28 | 0.51 | 0.77 | 0.90 | 0.63 | 0.36 | 0.13 | 0.05 | 0.05 | 0.02 | 0.00 | 0.00 | 4.17 |
| 7 | 0.04 | 0.00 | 0.06 | 0.06 | 0.07 | 0.20 | 0.30 | 0.35 | 0.88 | 0.85 | 0.71 | 0.38 | 0.13 | 0.07 | 0.05 | 0.01 | 0.00 | 0.00 | 4.17 |
| 8 | 0.04 | 0.04 | 0.02 | 0.03 | 0.06 | 0.18 | 0.28 | 0.49 | 0.94 | 0.85 | 0.70 | 0.36 | 0.13 | 0.01 | 0.04 | 0.02 | 0.00 | 0.00 | 4.17 |
| 9 | 0.01 | 0.03 | 0.00 | 0.02 | 0.08 | 0.17 | 0.38 | 0.58 | 1.02 | 0.84 | 0.56 | 0.26 | 0.12 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 4.17 |
| 10 | 0.01 | 0.02 | 0.01 | 0.02 | 0.14 | 0.16 | 0.39 | 0.66 | 0.93 | 0.85 | 0.65 | 0.20 | 0.06 | 0.04 | 0.03 | 0.01 | 0.00 | 0.00 | 4.17 |
| 11 | 0.03 | 0.01 | 0.04 | 0.03 | 0.08 | 0.20 | 0.47 | 0.61 | 0.96 | 0.94 | 0.51 | 0.18 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 4.17 |
| 12 | 0.04 | 0.01 | 0.04 | 0.04 | 0.07 | 0.18 | 0.38 | 0.80 | 0.96 | 0.95 | 0.49 | 0.12 | 0.05 | 0.03 | 0.00 | 0.02 | 0.00 | 0.00 | 4.17 |
| 13 | 0.05 | 0.01 | 0.02 | 0.02 | 0.05 | 0.23 | 0.35 | 0.81 | 1.03 | 0.86 | 0.38 | 0.24 | 0.09 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 4.17 |
| 14 | 0.03 | 0.01 | 0.00 | 0.02 | 0.05 | 0.15 | 0.36 | 0.75 | 0.97 | 0.98 | 0.49 | 0.20 | 0.08 | 0.05 | 0.02 | 0.01 | 0.00 | 0.00 | 4.17 |
| 15 | 0.01 | 0.00 | 0.00 | 0.03 | 0.06 | 0.06 | 0.31 | 0.63 | 1.05 | 1.07 | 0.59 | 0.21 | 0.08 | 0.03 | 0.02 | 0.01 | 0.00 | 0.00 | 4.17 |
| 16 | 0.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.11 | 0.32 | 0.61 | 0.81 | 1.01 | 0.63 | 0.34 | 0.11 | 0.08 | 0.02 | 0.02 | 0.00 | 0.00 | 4.17 |
| 17 | 0.01 | 0.00 | 0.00 | 0.04 | 0.08 | 0.20 | 0.35 | 0.51 | 0.81 | 0.83 | 0.68 | 0.28 | 0.21 | 0.12 | 0.04 | 0.01 | 0.00 | 0.00 | 4.17 |
| 18 | 0.02 | 0.04 | 0.03 | 0.09 | 0.11 | 0.19 | 0.28 | 0.47 | 0.65 | 0.75 | 0.82 | 0.38 | 0.20 | 0.08 | 0.04 | 0.02 | 0.00 | 0.00 | 4.17 |
| 19 | 0.02 | 0.02 | 0.04 | 0.05 | 0.12 | 0.19 | 0.39 | 0.35 | 0.65 | 0.91 | 0.57 | 0.45 | 0.26 | 0.08 | 0.05 | 0.02 | 0.00 | 0.00 | 4.17 |
| 20 | 0.03 | 0.04 | 0.05 | 0.06 | 0.11 | 0.22 | 0.24 | 0.44 | 0.79 | 0.90 | 0.65 | 0.38 | 0.17 | 0.06 | 0.02 | 0.03 | 0.00 | 0.00 | 4.17 |
| 21 | 0.05 | 0.02 | 0.03 | 0.09 | 0.09 | 0.20 | 0.19 | 0.53 | 0.75 | 0.85 | 0.75 | 0.31 | 0.17 | 0.06 | 0.04 | 0.04 | 0.00 | 0.00 | 4.17 |
| 22 | 0.04 | 0.03 | 0.06 | 0.10 | 0.07 | 0.22 | 0.29 | 0.53 | 0.64 | 0.93 | 0.60 | 0.36 | 0.19 | 0.08 | 0.03 | 0.01 | 0.00 | 0.00 | 4.17 |
| 23 | 0.06 | 0.01 | 0.05 | 0.09 | 0.10 | 0.15 | 0.30 | 0.55 | 0.76 | 0.92 | 0.60 | 0.31 | 0.16 | 0.06 | 0.05 | 0.02 | 0.00 | 0.00 | 4.17 |
| 24 | 0.06 | 0.02 | 0.04 | 0.08 | 0.16 | 0.16 | 0.24 | 0.44 | 0.91 | 0.82 | 0.56 | 0.38 | 0.19 | 0.05 | 0.03 | 0.02 | 0.01 | 0.00 | 4.17 |
| TOTAL | 0.74 | 0.37 | 0.69 | 1.28 | 2.26 | 4.35 | 7.80 | 13.15 | 20.22 | 21.57 | 14.89 | 7.10 | 3.22 | 1.32 | 0.64 | 0.38 | 0.02 | | |

Table 454. Percentage Frequency Distribution of the Difference in Temperature (°F) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. December 1950-1964

| NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.06 | 0.29 | 0.39 | 0.98 | 0.83 | 0.54 | 0.36 | 0.31 | 0.33 | 0.01 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.04 | 0.12 | 0.23 | 0.59 | 0.86 | 0.87 | 0.61 | 0.33 | 0.21 | 0.28 | 0.01 | 4.17 |
| 3 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.08 | 0.35 | 0.51 | 0.88 | 0.88 | 0.60 | 0.40 | 0.21 | 0.21 | 0.01 | 4.17 |
| 4 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.08 | 0.23 | 0.55 | 1.02 | 0.81 | 0.54 | 0.33 | 0.24 | 0.25 | 0.01 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.08 | 0.30 | 0.61 | 0.92 | 0.80 | 0.50 | 0.40 | 0.17 | 0.30 | 0.02 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.14 | 0.28 | 0.61 | 0.91 | 0.84 | 0.56 | 0.33 | 0.20 | 0.25 | 0.02 | 4.17 |
| 7 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.04 | 0.03 | 0.33 | 0.65 | 0.84 | 0.81 | 0.61 | 0.36 | 0.27 | 0.19 | 0.02 | 4.17 |
| 8 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.04 | 0.06 | 0.18 | 0.45 | 0.93 | 0.98 | 0.65 | 0.40 | 0.22 | 0.12 | 0.10 | 0.02 | 4.17 |
| 9 | 0.01 | 0.00 | 0.03 | 0.04 | 0.04 | 0.18 | 0.30 | 0.49 | 0.70 | 0.99 | 0.68 | 0.32 | 0.21 | 0.05 | 0.04 | 0.05 | 0.02 | 4.17 |
| 10 | 0.03 | 0.02 | 0.04 | 0.07 | 0.22 | 0.17 | 0.33 | 0.56 | 0.78 | 0.85 | 0.63 | 0.33 | 0.09 | 0.02 | 0.02 | 0.01 | 0.01 | 4.17 |
| 11 | 0.02 | 0.03 | 0.07 | 0.07 | 0.16 | 0.27 | 0.46 | 0.47 | 0.74 | 0.79 | 0.59 | 0.27 | 0.12 | 0.08 | 0.02 | 0.01 | 0.01 | 4.17 |
| 12 | 0.02 | 0.01 | 0.06 | 0.04 | 0.13 | 0.20 | 0.38 | 0.41 | 0.74 | 0.88 | 0.77 | 0.26 | 0.17 | 0.04 | 0.03 | 0.03 | 0.01 | 4.17 |
| 13 | 0.01 | 0.00 | 0.04 | 0.01 | 0.07 | 0.11 | 0.32 | 0.60 | 0.73 | 0.84 | 0.79 | 0.35 | 0.19 | 0.03 | 0.04 | 0.04 | 0.01 | 4.17 |
| 14 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.20 | 0.32 | 0.66 | 0.94 | 1.08 | 0.50 | 0.20 | 0.12 | 0.04 | 0.04 | 0.01 | 4.17 |
| 15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.15 | 0.40 | 0.91 | 1.06 | 0.77 | 0.43 | 0.21 | 0.06 | 0.11 | 0.01 | 4.17 |
| 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.05 | 0.13 | 0.50 | 0.82 | 0.90 | 0.75 | 0.48 | 0.23 | 0.27 | 0.01 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.14 | 0.45 | 0.88 | 0.58 | 0.65 | 0.53 | 0.37 | 0.54 | 0.01 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.10 | 0.15 | 0.47 | 0.73 | 0.91 | 0.54 | 0.48 | 0.30 | 0.44 | 0.01 | 4.17 |
| 19 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.15 | 0.59 | 0.90 | 0.73 | 0.47 | 0.55 | 0.25 | 0.42 | 0.01 | 4.17 |
| 20 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.06 | 0.22 | 0.50 | 0.82 | 0.82 | 0.57 | 0.47 | 0.28 | 0.33 | 0.01 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.09 | 0.19 | 0.46 | 0.82 | 0.84 | 0.54 | 0.48 | 0.27 | 0.40 | 0.01 | 4.17 |
| 22 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.05 | 0.27 | 0.37 | 0.79 | 0.88 | 0.63 | 0.47 | 0.20 | 0.45 | 0.01 | 4.17 |
| 23 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.06 | 0.15 | 0.61 | 0.90 | 0.77 | 0.63 | 0.43 | 0.23 | 0.32 | 0.01 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.04 | 0.08 | 0.18 | 0.48 | 0.91 | 0.81 | 0.67 | 0.35 | 0.37 | 0.24 | 0.01 | 4.17 |
| TOTAL | 0.14 | 0.06 | 0.25 | 0.25 | 0.74 | 1.18 | 2.61 | 4.34 | 8.81 | 15.47 | 20.56 | 16.52 | 11.20 | 7.53 | 4.47 | 5.60 | 0.26 | |

| NUMBER OF OBSERVATIONS 11160 | | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| HOUR | D'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | MISSING | TOTAL |
| | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 1 | 0.07 | 0.02 | 0.05 | 0.08 | 0.08 | 0.08 | 0.20 | 0.35 | 0.77 | 0.99 | 0.65 | 0.46 | 0.22 | 0.09 | 0.04 | 0.01 | 0.01 | 4.17 |
| 2 | 0.08 | 0.01 | 0.08 | 0.06 | 0.09 | 0.12 | 0.18 | 0.39 | 0.68 | 0.97 | 0.73 | 0.43 | 0.17 | 0.10 | 0.05 | 0.03 | 0.01 | 4.17 |
| 3 | 0.08 | 0.06 | 0.04 | 0.07 | 0.06 | 0.13 | 0.18 | 0.46 | 0.58 | 0.98 | 0.73 | 0.48 | 0.19 | 0.04 | 0.02 | 0.05 | 0.01 | 4.17 |
| 4 | 0.09 | 0.01 | 0.04 | 0.09 | 0.06 | 0.09 | 0.19 | 0.39 | 0.79 | 0.90 | 0.74 | 0.37 | 0.23 | 0.11 | 0.02 | 0.04 | 0.01 | 4.17 |
| 5 | 0.08 | 0.02 | 0.05 | 0.04 | 0.08 | 0.13 | 0.20 | 0.29 | 0.70 | 0.97 | 0.84 | 0.38 | 0.25 | 0.06 | 0.02 | 0.04 | 0.02 | 4.17 |
| 6 | 0.05 | 0.04 | 0.02 | 0.04 | 0.06 | 0.13 | 0.14 | 0.49 | 0.64 | 0.92 | 0.78 | 0.44 | 0.27 | 0.08 | 0.02 | 0.03 | 0.02 | 4.17 |
| 7 | 0.06 | 0.02 | 0.01 | 0.07 | 0.06 | 0.14 | 0.20 | 0.34 | 0.64 | 1.08 | 0.75 | 0.37 | 0.17 | 0.13 | 0.06 | 0.04 | 0.02 | 4.17 |
| 8 | 0.04 | 0.00 | 0.07 | 0.04 | 0.13 | 0.08 | 0.22 | 0.42 | 0.67 | 0.99 | 0.75 | 0.41 | 0.13 | 0.12 | 0.04 | 0.02 | 0.02 | 4.17 |
| 9 | 0.02 | 0.00 | 0.01 | 0.03 | 0.10 | 0.09 | 0.23 | 0.65 | 0.93 | 0.83 | 0.67 | 0.30 | 0.13 | 0.10 | 0.04 | 0.03 | 0.02 | 4.17 |
| 10 | 0.02 | 0.00 | 0.02 | 0.02 | 0.04 | 0.10 | 0.38 | 0.52 | 0.85 | 1.10 | 0.50 | 0.36 | 0.12 | 0.05 | 0.06 | 0.03 | 0.01 | 4.17 |
| 11 | 0.02 | 0.02 | 0.01 | 0.07 | 0.06 | 0.11 | 0.30 | 0.49 | 0.91 | 0.83 | 0.67 | 0.39 | 0.17 | 0.05 | 0.02 | 0.02 | 0.01 | 4.17 |
| 12 | 0.01 | 0.00 | 0.02 | 0.03 | 0.04 | 0.08 | 0.42 | 0.55 | 0.96 | 0.86 | 0.64 | 0.30 | 0.14 | 0.05 | 0.04 | 0.03 | 0.01 | 4.17 |
| 13 | 0.00 | 0.00 | 0.04 | 0.02 | 0.07 | 0.10 | 0.32 | 0.59 | 0.96 | 0.85 | 0.53 | 0.37 | 0.15 | 0.10 | 0.03 | 0.04 | 0.01 | 4.17 |
| 14 | 0.02 | 0.00 | 0.02 | 0.03 | 0.02 | 0.07 | 0.22 | 0.69 | 0.91 | 1.05 | 0.54 | 0.31 | 0.13 | 0.12 | 0.02 | 0.01 | 0.01 | 4.17 |
| 15 | 0.00 | 0.00 | 0.03 | 0.01 | 0.03 | 0.04 | 0.22 | 0.57 | 0.98 | 1.13 | 0.51 | 0.39 | 0.14 | 0.05 | 0.02 | 0.04 | 0.01 | 4.17 |
| 16 | 0.00 | 0.01 | 0.00 | 0.04 | 0.04 | 0.17 | 0.25 | 0.50 | 0.74 | 0.98 | 0.71 | 0.44 | 0.14 | 0.05 | 0.05 | 0.03 | 0.02 | 4.17 |
| 17 | 0.01 | 0.00 | 0.02 | 0.04 | 0.07 | 0.17 | 0.18 | 0.43 | 0.82 | 0.91 | 0.72 | 0.39 | 0.24 | 0.10 | 0.04 | 0.03 | 0.01 | 4.17 |
| 18 | 0.02 | 0.01 | 0.03 | 0.05 | 0.11 | 0.16 | 0.26 | 0.39 | 0.77 | 0.84 | 0.77 | 0.34 | 0.26 | 0.06 | 0.06 | 0.03 | 0.01 | 4.17 |
| 19 | 0.04 | 0.01 | 0.05 | 0.11 | 0.07 | 0.15 | 0.23 | 0.40 | 0.69 | 0.91 | 0.71 | 0.39 | 0.22 | 0.09 | 0.04 | 0.02 | 0.01 | 4.17 |
| 20 | 0.07 | 0.03 | 0.04 | 0.03 | 0.08 | 0.17 | 0.30 | 0.45 | 0.65 | 0.83 | 0.87 | 0.34 | 0.15 | 0.08 | 0.04 | 0.03 | 0.01 | 4.17 |
| 21 | 0.06 | 0.05 | 0.04 | 0.05 | 0.13 | 0.13 | 0.21 | 0.39 | 0.48 | 1.07 | 0.74 | 0.47 | 0.16 | 0.10 | 0.03 | 0.04 | 0.01 | 4.17 |
| 22 | 0.06 | 0.01 | 0.10 | 0.08 | 0.07 | 0.10 | 0.17 | 0.35 | 0.64 | 1.04 | 0.59 | 0.58 | 0.15 | 0.13 | 0.07 | 0.01 | 0.01 | 4.17 |
| 23 | 0.08 | 0.03 | 0.04 | 0.04 | 0.09 | 0.11 | 0.18 | 0.41 | 0.64 | 0.99 | 0.78 | 0.37 | 0.24 | 0.08 | 0.05 | 0.02 | 0.02 | 4.17 |
| 24 | 0.07 | 0.02 | 0.04 | 0.07 | 0.10 | 0.08 | 0.21 | 0.27 | 0.69 | 1.00 | 0.72 | 0.52 | 0.21 | 0.09 | 0.03 | 0.04 | 0.02 | 4.17 |
| TOTAL | 1.06 | 0.35 | 0.86 | 1.21 | 1.74 | 2.73 | 5.58 | 10.78 | 18.09 | 23.04 | 16.63 | 9.59 | 4.42 | 2.04 | 0.93 | 0.66 | 0.29 | |

Table 455. Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. January 1950–December 1964

NUMBER OF OBSERVATIONS 131496

| HOUR | MIDWAY MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|----------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.09 | 0.21 | 0.47 | 0.67 | 0.68 | 0.61 | 0.47 | 0.34 | 0.57 | 0.01 | 4.17 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.10 | 0.24 | 0.51 | 0.69 | 0.71 | 0.62 | 0.44 | 0.33 | 0.45 | 0.01 | 4.17 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.09 | 0.28 | 0.53 | 0.73 | 0.73 | 0.60 | 0.48 | 0.28 | 0.37 | 0.01 | 4.17 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.11 | 0.30 | 0.53 | 0.75 | 0.71 | 0.59 | 0.46 | 0.30 | 0.34 | 0.01 | 4.17 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.15 | 0.31 | 0.59 | 0.81 | 0.72 | 0.57 | 0.40 | 0.27 | 0.26 | 0.01 | 4.17 |
| 6 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.15 | 0.28 | 0.48 | 0.75 | 0.77 | 0.65 | 0.42 | 0.25 | 0.15 | 0.15 | 0.01 | 4.17 |
| 7 | 0.01 | 0.01 | 0.04 | 0.08 | 0.14 | 0.21 | 0.28 | 0.41 | 0.59 | 0.70 | 0.66 | 0.45 | 0.26 | 0.14 | 0.08 | 0.08 | 0.02 | 4.17 |
| 8 | 0.03 | 0.04 | 0.08 | 0.14 | 0.21 | 0.28 | 0.41 | 0.52 | 0.63 | 0.69 | 0.56 | 0.28 | 0.14 | 0.07 | 0.03 | 0.03 | 0.02 | 4.17 |
| 9 | 0.04 | 0.03 | 0.08 | 0.14 | 0.22 | 0.39 | 0.49 | 0.60 | 0.68 | 0.67 | 0.46 | 0.17 | 0.10 | 0.05 | 0.02 | 0.01 | 0.01 | 4.17 |
| 10 | 0.03 | 0.02 | 0.06 | 0.13 | 0.23 | 0.34 | 0.49 | 0.65 | 0.73 | 0.66 | 0.42 | 0.21 | 0.09 | 0.04 | 0.01 | 0.02 | 0.01 | 4.17 |
| 11 | 0.02 | 0.02 | 0.05 | 0.10 | 0.19 | 0.33 | 0.47 | 0.60 | 0.73 | 0.68 | 0.50 | 0.24 | 0.12 | 0.06 | 0.02 | 0.03 | 0.01 | 4.17 |
| 12 | 0.02 | 0.01 | 0.04 | 0.08 | 0.15 | 0.25 | 0.44 | 0.57 | 0.70 | 0.75 | 0.55 | 0.30 | 0.16 | 0.08 | 0.03 | 0.03 | 0.01 | 4.17 |
| 13 | 0.01 | 0.02 | 0.02 | 0.06 | 0.13 | 0.23 | 0.40 | 0.52 | 0.70 | 0.72 | 0.59 | 0.36 | 0.21 | 0.09 | 0.04 | 0.05 | 0.01 | 4.17 |
| 14 | 0.01 | 0.00 | 0.02 | 0.04 | 0.07 | 0.15 | 0.28 | 0.42 | 0.62 | 0.76 | 0.74 | 0.48 | 0.28 | 0.14 | 0.06 | 0.07 | 0.01 | 4.17 |
| 15 | 0.00 | 0.01 | 0.02 | 0.02 | 0.05 | 0.09 | 0.18 | 0.32 | 0.50 | 0.77 | 0.79 | 0.61 | 0.37 | 0.22 | 0.09 | 0.11 | 0.01 | 4.17 |
| 16 | 0.00 | 0.01 | 0.00 | 0.01 | 0.02 | 0.06 | 0.11 | 0.20 | 0.37 | 0.62 | 0.74 | 0.70 | 0.59 | 0.34 | 0.18 | 0.20 | 0.02 | 4.17 |
| 17 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.06 | 0.12 | 0.24 | 0.50 | 0.69 | 0.67 | 0.61 | 0.46 | 0.32 | 0.43 | 0.01 | 4.17 |
| 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.07 | 0.16 | 0.37 | 0.60 | 0.68 | 0.60 | 0.52 | 0.42 | 0.69 | 0.02 | 4.17 |
| 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.12 | 0.31 | 0.55 | 0.55 | 0.54 | 0.55 | 0.44 | 1.02 | 0.02 | 4.17 |
| 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.15 | 0.35 | 0.56 | 0.59 | 0.60 | 0.50 | 0.44 | 0.88 | 0.01 | 4.17 |
| 21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.16 | 0.37 | 0.60 | 0.65 | 0.57 | 0.52 | 0.44 | 0.75 | 0.01 | 4.17 |
| 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.05 | 0.19 | 0.39 | 0.62 | 0.63 | 0.62 | 0.52 | 0.40 | 0.70 | 0.01 | 4.17 |
| 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.17 | 0.47 | 0.65 | 0.66 | 0.62 | 0.48 | 0.38 | 0.62 | 0.01 | 4.17 |
| 24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.07 | 0.22 | 0.44 | 0.69 | 0.69 | 0.59 | 0.47 | 0.39 | 0.55 | 0.02 | 4.17 |
| TOTAL | 0.20 | 0.18 | 0.43 | 0.83 | 1.49 | 2.53 | 4.07 | 6.17 | 9.50 | 13.59 | 15.41 | 13.14 | 10.48 | 7.74 | 5.48 | 8.41 | 0.35 | |

NUMBER OF OBSERVATIONS 131496

| HOUR | O'HARE MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | MISSING | TOTAL |
|-------|---|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|----------|---------|-------|
| | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | | |
| 1 | 0.04 | 0.03 | 0.05 | 0.08 | 0.10 | 0.20 | 0.34 | 0.54 | 0.73 | 0.82 | 0.56 | 0.32 | 0.19 | 0.09 | 0.03 | 0.02 | 0.02 | 4.17 |
| 2 | 0.05 | 0.03 | 0.05 | 0.07 | 0.12 | 0.19 | 0.34 | 0.54 | 0.80 | 0.80 | 0.55 | 0.31 | 0.17 | 0.08 | 0.03 | 0.02 | 0.01 | 4.17 |
| 3 | 0.04 | 0.03 | 0.04 | 0.08 | 0.14 | 0.19 | 0.34 | 0.57 | 0.75 | 0.83 | 0.54 | 0.32 | 0.17 | 0.07 | 0.03 | 0.02 | 0.01 | 4.17 |
| 4 | 0.04 | 0.03 | 0.04 | 0.07 | 0.13 | 0.21 | 0.34 | 0.52 | 0.77 | 0.82 | 0.58 | 0.32 | 0.16 | 0.07 | 0.03 | 0.02 | 0.01 | 4.17 |
| 5 | 0.04 | 0.02 | 0.05 | 0.06 | 0.11 | 0.20 | 0.31 | 0.55 | 0.75 | 0.84 | 0.64 | 0.31 | 0.15 | 0.06 | 0.03 | 0.02 | 0.01 | 4.17 |
| 6 | 0.03 | 0.02 | 0.03 | 0.06 | 0.12 | 0.19 | 0.32 | 0.56 | 0.82 | 0.86 | 0.59 | 0.31 | 0.14 | 0.06 | 0.03 | 0.02 | 0.01 | 4.17 |
| 7 | 0.03 | 0.02 | 0.03 | 0.05 | 0.09 | 0.17 | 0.32 | 0.53 | 0.82 | 0.86 | 0.60 | 0.34 | 0.16 | 0.09 | 0.03 | 0.02 | 0.01 | 4.17 |
| 8 | 0.02 | 0.02 | 0.03 | 0.04 | 0.10 | 0.19 | 0.32 | 0.58 | 0.82 | 0.65 | 0.62 | 0.31 | 0.15 | 0.07 | 0.03 | 0.02 | 0.01 | 4.17 |
| 9 | 0.03 | 0.01 | 0.02 | 0.04 | 0.09 | 0.18 | 0.40 | 0.66 | 0.89 | 0.80 | 0.54 | 0.28 | 0.11 | 0.05 | 0.02 | 0.02 | 0.01 | 4.17 |
| 10 | 0.03 | 0.02 | 0.03 | 0.06 | 0.12 | 0.19 | 0.40 | 0.65 | 0.90 | 0.80 | 0.50 | 0.28 | 0.11 | 0.04 | 0.03 | 0.01 | 0.01 | 4.17 |
| 11 | 0.03 | 0.03 | 0.04 | 0.07 | 0.12 | 0.21 | 0.40 | 0.59 | 0.87 | 0.80 | 0.52 | 0.27 | 0.12 | 0.04 | 0.02 | 0.02 | 0.01 | 4.17 |
| 12 | 0.04 | 0.02 | 0.04 | 0.06 | 0.13 | 0.21 | 0.40 | 0.67 | 0.79 | 0.79 | 0.53 | 0.25 | 0.12 | 0.05 | 0.03 | 0.02 | 0.01 | 4.17 |
| 13 | 0.04 | 0.02 | 0.05 | 0.06 | 0.12 | 0.24 | 0.37 | 0.61 | 0.83 | 0.79 | 0.48 | 0.32 | 0.13 | 0.06 | 0.02 | 0.02 | 0.01 | 4.17 |
| 14 | 0.05 | 0.02 | 0.04 | 0.07 | 0.12 | 0.20 | 0.35 | 0.60 | 0.81 | 0.82 | 0.53 | 0.30 | 0.15 | 0.06 | 0.02 | 0.02 | 0.01 | 4.17 |
| 15 | 0.05 | 0.03 | 0.04 | 0.05 | 0.12 | 0.18 | 0.34 | 0.58 | 0.85 | 0.84 | 0.55 | 0.31 | 0.13 | 0.05 | 0.02 | 0.02 | 0.01 | 4.17 |
| 16 | 0.04 | 0.03 | 0.04 | 0.07 | 0.10 | 0.18 | 0.34 | 0.60 | 0.79 | 0.84 | 0.58 | 0.30 | 0.13 | 0.05 | 0.03 | 0.03 | 0.02 | 4.17 |
| 17 | 0.04 | 0.02 | 0.03 | 0.07 | 0.10 | 0.18 | 0.32 | 0.57 | 0.81 | 0.79 | 0.63 | 0.34 | 0.15 | 0.08 | 0.02 | 0.02 | 0.02 | 4.17 |
| 18 | 0.04 | 0.01 | 0.03 | 0.05 | 0.10 | 0.16 | 0.27 | 0.49 | 0.74 | 0.81 | 0.68 | 0.40 | 0.20 | 0.10 | 0.05 | 0.03 | 0.02 | 4.17 |
| 19 | 0.03 | 0.02 | 0.03 | 0.06 | 0.08 | 0.15 | 0.27 | 0.41 | 0.69 | 0.80 | 0.67 | 0.44 | 0.26 | 0.13 | 0.07 | 0.05 | 0.02 | 4.17 |
| 20 | 0.03 | 0.02 | 0.03 | 0.05 | 0.09 | 0.16 | 0.27 | 0.43 | 0.68 | 0.83 | 0.65 | 0.43 | 0.26 | 0.13 | 0.06 | 0.05 | 0.01 | 4.17 |
| 21 | 0.03 | 0.02 | 0.03 | 0.07 | 0.09 | 0.16 | 0.29 | 0.50 | 0.64 | 0.81 | 0.66 | 0.40 | 0.21 | 0.12 | 0.06 | 0.05 | 0.01 | 4.17 |
| 22 | 0.03 | 0.02 | 0.04 | 0.07 | 0.11 | 0.17 | 0.29 | 0.48 | 0.71 | 0.84 | 0.60 | 0.41 | 0.21 | 0.10 | 0.05 | 0.03 | 0.01 | 4.17 |
| 23 | 0.04 | 0.03 | 0.04 | 0.07 | 0.11 | 0.17 | 0.31 | 0.52 | 0.74 | 0.80 | 0.60 | 0.35 | 0.20 | 0.09 | 0.04 | 0.03 | 0.01 | 4.17 |
| 24 | 0.03 | 0.03 | 0.05 | 0.07 | 0.14 | 0.21 | 0.31 | 0.47 | 0.80 | 0.79 | 0.58 | 0.34 | 0.20 | 0.08 | 0.03 | 0.03 | 0.02 | 4.17 |
| TOTAL | 0.88 | 0.51 | 0.90 | 1.51 | 2.65 | 4.51 | 7.96 | 13.21 | 18.78 | 19.60 | 13.99 | 7.97 | 3.97 | 1.83 | 0.80 | 0.62 | 0.34 | |

Table 456. Monthly Average Temperature (°F) at Chicago Midway Airport and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | MIDWAY | 29 | 27 | 33 | 42 | 60 | 69 | 72 | 70 | 64 | 58 | 34 | 20 |
| | ARGONNE | 28 | 24 | 31 | 41 | 58 | 67 | 70 | 67 | 61 | 56 | 33 | 18 |
| | DIFFERENCE | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 2 |
| 1951 | MIDWAY | 24 | 27 | 35 | 46 | 62 | 67 | 73 | 70 | 62 | 55 | 33 | 27 |
| | ARGONNE | 22 | 25 | 33 | 44 | 59 | 64 | 69 | 67 | 59 | 52 | 30 | 24 |
| | DIFFERENCE | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| 1952 | MIDWAY | 27 | 32 | 35 | 51 | 58 | 74 | 77 | 72 | 65 | 49 | 43 | 33 |
| | ARGONNE | 24 | 30 | 32 | 49 | 56 | 70 | 73 | 69 | 62 | 45 | 39 | 29 |
| | DIFFERENCE | 3 | 2 | 3 | 2 | 2 | 4 | 4 | 3 | 3 | 4 | 4 | 4 |
| 1953 | MIDWAY | 30 | 32 | 39 | 46 | 61 | 74 | 76 | 76 | 67 | 59 | 44 | 32 |
| | ARGONNE | 26 | 28 | 36 | 44 | 59 | 70 | 72 | 71 | 63 | 55 | 41 | 28 |
| | DIFFERENCE | 4 | 4 | 3 | 2 | 2 | 4 | 4 | 5 | 4 | 4 | 3 | 4 |
| 1954 | MIDWAY | 28 | 38 | 35 | 53 | 57 | 75 | 76 | 73 | 69 | 55 | 42 | 32 |
| | ARGONNE | 24 | 34 | 31 | 50 | 54 | 71 | 72 | 69 | 65 | 52 | 39 | 28 |
| | DIFFERENCE | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 |
| 1955 | MIDWAY | 26 | 29 | 37 | 57 | 63 | 69 | 81 | 78 | 67 | 55 | 36 | 26 |
| | ARGONNE | 21 | 25 | 34 | 54 | 60 | 65 | 77 | 74 | 64 | 53 | 33 | 23 |
| | DIFFERENCE | 5 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 3 |
| 1956 | MIDWAY | 29 | 30 | 36 | 47 | 60 | 74 | 73 | 74 | 65 | 60 | 41 | 33 |
| | ARGONNE | 25 | 26 | 34 | 45 | 58 | 71 | 70 | 71 | 62 | 58 | 37 | 30 |
| | DIFFERENCE | 4 | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 |
| 1957 | MIDWAY | 19 | 33 | 38 | 49 | 59 | 71 | 76 | 73 | 64 | 52 | 40 | 35 |
| | ARGONNE | 16 | 30 | 35 | 47 | 57 | 68 | 73 | 70 | 61 | 49 | 37 | 32 |
| | DIFFERENCE | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1958 | MIDWAY | 26 | 20 | 36 | 51 | 62 | 65 | 73 | 74 | 66 | 57 | 43 | 22 |
| | ARGONNE | 23 | 17 | 33 | 49 | 59 | 62 | 69 | 70 | 63 | 54 | 40 | 18 |
| | DIFFERENCE | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 |
| 1959 | MIDWAY | 19 | 26 | 37 | 49 | 66 | 73 | 75 | 78 | 69 | 52 | 34 | 36 |
| | ARGONNE | 15 | 23 | 34 | 46 | 63 | 69 | 71 | 74 | 65 | 48 | 31 | 32 |
| | DIFFERENCE | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 |
| 1960 | MIDWAY | 28 | 26 | 27 | 53 | 58 | 68 | 74 | 75 | 70 | 55 | 43 | 26 |
| | ARGONNE | 24 | 22 | 22 | 50 | 55 | 64 | 69 | 70 | 66 | 51 | 40 | 22 |
| | DIFFERENCE | 4 | 4 | 5 | 3 | 3 | 4 | 5 | 5 | 4 | 4 | 3 | 4 |
| 1961 | MIDWAY | 23 | 34 | 40 | 44 | 57 | 70 | 74 | 74 | 69 | 56 | 41 | 26 |
| | ARGONNE | 19 | 30 | 37 | 41 | 53 | 65 | 69 | 68 | 63 | 51 | 36 | 22 |
| | DIFFERENCE | 4 | 4 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 5 | 5 | 4 |
| 1962 | MIDWAY | 18 | 26 | 35 | 50 | 67 | 71 | 72 | 74 | 64 | 57 | 42 | 25 |
| | ARGONNE | 14 | 23 | 32 | 47 | 63 | 67 | 68 | 70 | 61 | 54 | 39 | 22 |
| | DIFFERENCE | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| 1963 | MIDWAY | 14 | 20 | 41 | 52 | 59 | 73 | 75 | 72 | 67 | 63 | 45 | 18 |
| | ARGONNE | 11 | 17 | 38 | 49 | 55 | 69 | 72 | 67 | 62 | 61 | 43 | 14 |
| | DIFFERENCE | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 5 | 5 | 2 | 2 | 4 |
| 1964 | MIDWAY | 30 | 29 | 36 | 51 | 66 | 73 | 75 | 72 | 65 | 51 | 44 | 27 |
| | ARGONNE | 28 | 27 | 34 | 48 | 63 | 69 | 71 | 68 | 62 | 48 | 41 | 24 |
| | DIFFERENCE | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |

Table 457. Monthly Average Temperature (°F) at O'Hare International Airport and Argonne Meteorology Site. January 1950–December 1964
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | O'HARE | 28 | 25 | 31 | 40 | 58 | 68 | 71 | 68 | 62 | 56 | 33 | 17 |
| | ARGONNE | 28 | 24 | 31 | 41 | 58 | 67 | 70 | 67 | 61 | 56 | 33 | 18 |
| | DIFFERENCE | 0 | 1 | 0 | -1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | -1 |
| 1951 | O'HARE | 22 | 26 | 34 | 45 | 60 | 65 | 70 | 68 | 60 | 53 | 31 | 25 |
| | ARGONNE | 22 | 25 | 33 | 44 | 59 | 64 | 69 | 67 | 59 | 52 | 30 | 24 |
| | DIFFERENCE | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1952 | O'HARE | 25 | 31 | 33 | 50 | 57 | 72 | 75 | 70 | 63 | 46 | 40 | 31 |
| | ARGONNE | 24 | 30 | 32 | 49 | 56 | 70 | 73 | 69 | 62 | 45 | 39 | 29 |
| | DIFFERENCE | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 |
| 1953 | O'HARE | 28 | 30 | 37 | 45 | 59 | 71 | 74 | 72 | 64 | 56 | 42 | 30 |
| | ARGONNE | 27 | 28 | 36 | 44 | 59 | 70 | 72 | 71 | 63 | 55 | 41 | 28 |
| | DIFFERENCE | 1 | 2 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| 1954 | O'HARE | 25 | 35 | 32 | 51 | 55 | 72 | 73 | 70 | 66 | 52 | 40 | 30 |
| | ARGONNE | 24 | 34 | 31 | 50 | 54 | 71 | 72 | 69 | 65 | 52 | 39 | 28 |
| | DIFFERENCE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 |
| 1955 | O'HARE | 24 | 27 | 35 | 54 | 60 | 66 | 78 | 76 | 65 | 53 | 34 | 25 |
| | ARGONNE | 21 | 25 | 34 | 54 | 60 | 65 | 77 | 74 | 64 | 53 | 33 | 23 |
| | DIFFERENCE | 3 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 1 | 2 |
| 1956 | O'HARE | 27 | 28 | 35 | 46 | 58 | 72 | 71 | 72 | 63 | 58 | 40 | 33 |
| | ARGONNE | 25 | 26 | 34 | 45 | 58 | 71 | 70 | 71 | 62 | 58 | 37 | 30 |
| | DIFFERENCE | 2 | 2 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 3 | 3 |
| 1957 | O'HARE | 17 | 31 | 36 | 48 | 56 | 68 | 74 | 70 | 61 | 49 | 39 | 32 |
| | ARGONNE | 16 | 30 | 35 | 47 | 57 | 68 | 73 | 70 | 61 | 49 | 37 | 32 |
| | DIFFERENCE | 1 | 1 | 1 | 1 | -1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| 1958 | O'HARE | 23 | 18 | 34 | 49 | 59 | 63 | 71 | 72 | 64 | 55 | 41 | 21 |
| | ARGONNE | 23 | 17 | 33 | 49 | 59 | 62 | 69 | 70 | 63 | 54 | 40 | 18 |
| | DIFFERENCE | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 2 | 1 | 1 | 1 | 3 |
| 1959 | O'HARE | 17 | 24 | 35 | 47 | 65 | 72 | 73 | 77 | 67 | 50 | 32 | 34 |
| | ARGONNE | 15 | 23 | 34 | 46 | 63 | 69 | 71 | 74 | 65 | 48 | 31 | 32 |
| | DIFFERENCE | 2 | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 |
| 1960 | O'HARE | 27 | 25 | 25 | 52 | 57 | 67 | 72 | 74 | 68 | 54 | 42 | 24 |
| | ARGONNE | 24 | 22 | 23 | 50 | 55 | 64 | 69 | 70 | 66 | 51 | 40 | 22 |
| | DIFFERENCE | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 |
| 1961 | O'HARE | 21 | 32 | 38 | 43 | 56 | 68 | 71 | 71 | 65 | 53 | 40 | 26 |
| | ARGONNE | 19 | 30 | 37 | 41 | 53 | 65 | 69 | 68 | 63 | 51 | 36 | 22 |
| | DIFFERENCE | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 4 | 4 |
| 1962 | O'HARE | 17 | 25 | 33 | 49 | 65 | 68 | 69 | 72 | 62 | 56 | 40 | 23 |
| | ARGONNE | 14 | 23 | 32 | 47 | 63 | 67 | 68 | 70 | 61 | 54 | 39 | 22 |
| | DIFFERENCE | 3 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| 1963 | O'HARE | 12 | 18 | 40 | 52 | 57 | 70 | 73 | 69 | 65 | 60 | 42 | 13 |
| | ARGONNE | 11 | 17 | 38 | 49 | 55 | 69 | 72 | 67 | 62 | 61 | 43 | 14 |
| | DIFFERENCE | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 2 | 3 | -1 | -1 | -1 |
| 1964 | O'HARE | 29 | 28 | 35 | 49 | 64 | 69 | 73 | 69 | 63 | 49 | 41 | 26 |
| | ARGONNE | 28 | 27 | 34 | 48 | 63 | 69 | 71 | 68 | 62 | 48 | 41 | 24 |
| | DIFFERENCE | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 2 |

Table 458. Percentage Frequency Distribution of the Difference in the Daily Maximum Temperature (°F) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964

NUMBER OF OBSERVATIONS 5479

| MIDWAY MINUS ARGONNE | MONTH | | | | | | | | | | | | TOTAL | |
|----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| -10 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| -9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| -8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| -7 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| -6 | 0.02 | 0.00 | 0.04 | 0.05 | 0.02 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.20 |
| -5 | 0.00 | 0.02 | 0.02 | 0.11 | 0.00 | 0.05 | 0.02 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.31 |
| -4 | 0.00 | 0.05 | 0.07 | 0.11 | 0.04 | 0.02 | 0.09 | 0.04 | 0.02 | 0.11 | 0.00 | 0.00 | 0.00 | 0.55 |
| -3 | 0.05 | 0.04 | 0.24 | 0.29 | 0.13 | 0.04 | 0.05 | 0.04 | 0.04 | 0.24 | 0.04 | 0.04 | 0.04 | 1.22 |
| -2 | 0.13 | 0.26 | 0.31 | 0.42 | 0.27 | 0.11 | 0.09 | 0.13 | 0.16 | 0.13 | 0.11 | 0.05 | 0.05 | 2.17 |
| -1 | 0.13 | 0.16 | 0.49 | 0.60 | 0.37 | 0.44 | 0.42 | 0.24 | 0.33 | 0.51 | 0.26 | 0.13 | 0.13 | 4.07 |
| 0 | 0.42 | 0.40 | 0.75 | 0.86 | 0.99 | 0.51 | 0.44 | 0.38 | 0.66 | 0.64 | 0.68 | 0.47 | 0.47 | 7.19 |
| 1 | 1.17 | 1.00 | 1.06 | 1.28 | 0.95 | 0.93 | 0.97 | 0.80 | 0.95 | 1.22 | 1.42 | 1.10 | 1.10 | 12.85 |
| 2 | 2.17 | 1.77 | 2.01 | 1.51 | 1.48 | 1.08 | 1.10 | 1.15 | 1.31 | 1.48 | 2.39 | 1.86 | 1.86 | 19.31 |
| 3 | 1.92 | 2.01 | 1.66 | 1.55 | 1.41 | 1.20 | 1.59 | 1.59 | 1.64 | 1.77 | 1.70 | 2.21 | 2.21 | 20.24 |
| 4 | 1.41 | 1.10 | 0.82 | 0.62 | 1.50 | 1.35 | 1.50 | 1.73 | 1.37 | 1.26 | 0.89 | 1.46 | 1.46 | 15.00 |
| 5 | 0.53 | 0.58 | 0.49 | 0.42 | 0.75 | 1.17 | 1.15 | 1.42 | 1.02 | 0.57 | 0.47 | 0.62 | 0.62 | 9.20 |
| 6 | 0.27 | 0.16 | 0.22 | 0.04 | 0.33 | 0.80 | 0.64 | 1.42 | 1.02 | 0.57 | 0.47 | 0.62 | 0.62 | 9.20 |
| 7 | 0.09 | 0.05 | 0.13 | 0.05 | 0.11 | 0.33 | 0.29 | 0.29 | 0.11 | 0.09 | 0.07 | 0.24 | 0.24 | 3.94 |
| 8 | 0.07 | 0.04 | 0.04 | 0.00 | 0.11 | 0.13 | 0.04 | 0.29 | 0.11 | 0.09 | 0.07 | 0.11 | 0.11 | 1.73 |
| 9 | 0.02 | 0.00 | 0.02 | 0.04 | 0.00 | 0.00 | 0.02 | 0.05 | 0.04 | 0.05 | 0.02 | 0.05 | 0.05 | 0.64 |
| 10 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.04 | 0.02 | 0.00 | 0.00 | 0.22 |
| 11 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 0.07 |
| 12 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.04 | 0.04 | 0.13 |
| 13 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.09 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.02 | 0.07 |
| 15 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.04 | 0.00 | 0.00 | 0.16 |
| MISSING | 0.04 | 0.05 | 0.05 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.02 | 0.05 | 0.05 | 0.49 |
| TOTAL | 8.49 | 7.74 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 100.00 |

NUMBER OF OBSERVATIONS 5479

| O'HARE MINUS ARGONNE | MONTH | | | | | | | | | | | | TOTAL | |
|----------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| -10 | 0.00 | 0.02 | 0.02 | 0.07 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.16 |
| -9 | 0.02 | 0.00 | 0.02 | 0.02 | 0.02 | 0.04 | 0.02 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.16 |
| -8 | 0.02 | 0.00 | 0.00 | 0.05 | 0.05 | 0.02 | 0.02 | 0.02 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.20 |
| -7 | 0.00 | 0.02 | 0.02 | 0.05 | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.24 |
| -6 | 0.02 | 0.02 | 0.09 | 0.11 | 0.04 | 0.05 | 0.05 | 0.05 | 0.04 | 0.09 | 0.02 | 0.02 | 0.02 | 0.60 |
| -5 | 0.07 | 0.05 | 0.13 | 0.16 | 0.18 | 0.07 | 0.05 | 0.04 | 0.11 | 0.07 | 0.05 | 0.02 | 0.02 | 1.02 |
| -4 | 0.13 | 0.15 | 0.16 | 0.40 | 0.24 | 0.13 | 0.22 | 0.15 | 0.11 | 0.18 | 0.05 | 0.07 | 0.07 | 1.99 |
| -3 | 0.27 | 0.27 | 0.53 | 0.37 | 0.57 | 0.22 | 0.22 | 0.20 | 0.31 | 0.37 | 0.20 | 0.07 | 0.07 | 3.60 |
| -2 | 0.29 | 0.42 | 0.62 | 0.73 | 0.66 | 0.47 | 0.47 | 0.53 | 0.44 | 0.60 | 0.35 | 0.33 | 0.33 | 5.91 |
| -1 | 0.78 | 0.60 | 0.93 | 1.00 | 0.93 | 0.84 | 0.66 | 0.68 | 0.95 | 1.00 | 0.73 | 0.62 | 0.62 | 9.73 |
| 0 | 1.19 | 1.33 | 1.35 | 1.31 | 1.39 | 1.35 | 1.20 | 1.17 | 1.57 | 1.15 | 1.57 | 1.15 | 1.15 | 15.73 |
| 1 | 1.90 | 1.73 | 1.79 | 1.62 | 1.17 | 1.73 | 1.59 | 1.39 | 1.10 | 1.66 | 2.15 | 1.75 | 1.75 | 19.58 |
| 2 | 1.62 | 1.51 | 1.33 | 1.10 | 1.62 | 1.42 | 1.62 | 1.53 | 1.17 | 1.48 | 1.57 | 1.95 | 1.95 | 17.94 |
| 3 | 1.41 | 0.88 | 0.73 | 0.53 | 0.80 | 1.04 | 1.31 | 1.37 | 0.99 | 1.00 | 0.73 | 1.26 | 1.26 | 12.05 |
| 4 | 0.29 | 0.40 | 0.38 | 0.22 | 0.31 | 0.51 | 0.60 | 0.80 | 0.86 | 0.46 | 0.51 | 0.57 | 0.57 | 5.91 |
| 5 | 0.13 | 0.16 | 0.11 | 0.07 | 0.26 | 0.15 | 0.20 | 0.35 | 0.35 | 0.20 | 0.13 | 0.27 | 0.27 | 2.37 |
| 6 | 0.16 | 0.02 | 0.07 | 0.13 | 0.15 | 0.05 | 0.07 | 0.13 | 0.13 | 0.02 | 0.04 | 0.20 | 0.20 | 1.17 |
| 7 | 0.04 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 0.09 | 0.05 | 0.04 | 0.05 | 0.00 | 0.05 | 0.05 | 0.40 |
| 8 | 0.02 | 0.04 | 0.04 | 0.05 | 0.00 | 0.02 | 0.00 | 0.02 | 0.02 | 0.02 | 0.00 | 0.02 | 0.02 | 0.24 |
| 9 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.15 |
| 10 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.02 | 0.02 | 0.09 |
| 11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 12 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.04 |
| 13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 0.02 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.00 | 0.00 | 0.13 |
| MISSING | 0.07 | 0.05 | 0.07 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.05 | 0.05 | 0.51 |
| TOTAL | 8.49 | 7.74 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 100.00 |

Table 459. Percentage Frequency Distribution of the Difference in the Daily Minimum Temperature ($^{\circ}\text{F}$) at the Chicago Stations and Argonne Meteorology Site. January 1950–December 1964

| | | NUMBER OF OBSERVATIONS 5479 | | | | | | | | | | | | |
|----------------------------|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|--------|--|
| MIDWAY MINUS ARGONNE | MONTH | | | | | | | | | | | | TOTAL | |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| -10 | 0.00 | 0.02 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | |
| -9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | |
| -7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| -6 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | |
| -5 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | |
| -4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.02 | 0.05 | |
| -3 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | |
| -2 | 0.02 | 0.00 | 0.00 | 0.05 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.04 | 0.02 | 0.02 | 0.18 | |
| -1 | 0.07 | 0.05 | 0.02 | 0.09 | 0.04 | 0.09 | 0.05 | 0.02 | 0.02 | 0.13 | 0.09 | 0.05 | 0.73 | |
| 0 | 0.26 | 0.09 | 0.13 | 0.29 | 0.33 | 0.37 | 0.22 | 0.13 | 0.11 | 0.27 | 0.22 | 0.16 | 2.57 | |
| 1 | 0.57 | 0.51 | 0.58 | 0.53 | 0.51 | 0.37 | 0.27 | 0.22 | 0.35 | 0.53 | 0.55 | 0.40 | 5.38 | |
| 2 | 1.10 | 1.04 | 1.39 | 1.39 | 1.15 | 0.73 | 0.60 | 0.80 | 0.66 | 1.04 | 1.19 | 1.00 | 12.08 | |
| 3 | 1.62 | 1.55 | 1.57 | 1.53 | 1.70 | 1.28 | 1.31 | 1.10 | 1.17 | 1.44 | 1.73 | 1.79 | 17.80 | |
| 4 | 1.46 | 1.44 | 1.35 | 1.28 | 0.97 | 1.20 | 1.13 | 1.57 | 1.26 | 1.20 | 1.66 | 1.53 | 16.06 | |
| 5 | 1.17 | 1.08 | 1.24 | 1.04 | 1.53 | 1.39 | 1.20 | 1.28 | 1.57 | 1.26 | 1.08 | 1.26 | 15.09 | |
| 6 | 0.71 | 0.84 | 0.86 | 0.82 | 0.97 | 0.75 | 1.35 | 1.20 | 0.97 | 0.82 | 0.80 | 0.66 | 10.75 | |
| 7 | 0.60 | 0.35 | 0.60 | 0.53 | 0.37 | 0.82 | 0.82 | 0.93 | 1.02 | 0.71 | 0.46 | 0.88 | 8.09 | |
| 8 | 0.40 | 0.31 | 0.26 | 0.29 | 0.47 | 0.47 | 0.63 | 0.58 | 0.53 | 0.35 | 0.24 | 0.35 | 4.93 | |
| 9 | 0.20 | 0.18 | 0.13 | 0.05 | 0.22 | 0.42 | 0.40 | 0.35 | 0.27 | 0.33 | 0.04 | 0.15 | 2.74 | |
| 10 | 0.09 | 0.04 | 0.11 | 0.04 | 0.11 | 0.11 | 0.18 | 0.11 | 0.15 | 0.16 | 0.04 | 0.05 | 1.19 | |
| 11 | 0.07 | 0.09 | 0.04 | 0.02 | 0.09 | 0.07 | 0.16 | 0.04 | 0.07 | 0.04 | 0.09 | 0.07 | 0.86 | |
| 12 | 0.04 | 0.00 | 0.04 | 0.02 | 0.02 | 0.05 | 0.05 | 0.00 | 0.07 | 0.04 | 0.00 | 0.00 | 0.33 | |
| 13 | 0.04 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.02 | 0.00 | 0.13 | |
| 14 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | |
| 15 | 0.00 | 0.05 | 0.05 | 0.02 | 0.00 | 0.00 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | |
| MISSING | 0.04 | 0.05 | 0.05 | 0.20 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.07 | 0.00 | 0.05 | 0.51 | |
| TOTAL | 8.49 | 7.74 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 100.00 | |

| | | NUMBER OF OBSERVATIONS 5479 | | | | | | | | | | | | |
|-----------------------------|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|--------|--|
| O' HARE MINUS ARGONNE | MONTH | | | | | | | | | | | | TOTAL | |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| -10 | 0.04 | 0.04 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.00 | 0.07 | 0.00 | 0.13 | 0.38 | |
| -9 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.02 | 0.04 | 0.20 | |
| -8 | 0.04 | 0.00 | 0.05 | 0.02 | 0.04 | 0.00 | 0.00 | 0.04 | 0.00 | 0.07 | 0.02 | 0.04 | 0.31 | |
| -7 | 0.00 | 0.04 | 0.00 | 0.02 | 0.04 | 0.04 | 0.05 | 0.02 | 0.02 | 0.13 | 0.07 | 0.05 | 0.47 | |
| -6 | 0.05 | 0.05 | 0.00 | 0.05 | 0.04 | 0.00 | 0.04 | 0.02 | 0.02 | 0.13 | 0.04 | 0.13 | 0.57 | |
| -5 | 0.13 | 0.11 | 0.05 | 0.11 | 0.02 | 0.07 | 0.04 | 0.11 | 0.09 | 0.09 | 0.15 | 0.11 | 1.08 | |
| -4 | 0.13 | 0.07 | 0.04 | 0.11 | 0.15 | 0.15 | 0.07 | 0.16 | 0.15 | 0.26 | 0.22 | 0.13 | 1.62 | |
| -3 | 0.40 | 0.15 | 0.24 | 0.13 | 0.26 | 0.20 | 0.22 | 0.22 | 0.46 | 0.37 | 0.16 | 0.27 | 3.07 | |
| -2 | 0.47 | 0.33 | 0.29 | 0.37 | 0.49 | 0.57 | 0.38 | 0.38 | 0.60 | 0.55 | 0.26 | 0.42 | 5.11 | |
| -1 | 0.58 | 0.55 | 0.51 | 0.64 | 0.68 | 0.71 | 0.78 | 0.77 | 0.91 | 0.80 | 0.71 | 0.31 | 7.96 | |
| 0 | 0.89 | 0.84 | 0.77 | 1.06 | 1.04 | 1.10 | 1.00 | 1.22 | 1.10 | 1.28 | 0.93 | 0.62 | 11.85 | |
| 1 | 1.33 | 1.24 | 1.79 | 1.37 | 1.57 | 1.72 | 1.30 | 1.59 | 1.24 | 1.30 | 1.33 | 1.35 | 17.12 | |
| 2 | 1.53 | 1.61 | 1.73 | 1.51 | 1.61 | 1.41 | 1.72 | 1.20 | 1.28 | 1.19 | 1.70 | 1.55 | 18.03 | |
| 3 | 1.13 | 1.13 | 1.22 | 1.31 | 1.17 | 0.95 | 1.20 | 1.31 | 1.20 | 0.88 | 1.13 | 1.24 | 13.89 | |
| 4 | 0.75 | 0.75 | 0.89 | 0.66 | 0.66 | 0.58 | 0.71 | 0.64 | 0.58 | 0.60 | 0.78 | 0.93 | 8.54 | |
| 5 | 0.38 | 0.31 | 0.38 | 0.37 | 0.38 | 0.27 | 0.47 | 0.47 | 0.31 | 0.31 | 0.29 | 0.55 | 4.51 | |
| 6 | 0.22 | 0.16 | 0.22 | 0.18 | 0.15 | 0.27 | 0.22 | 0.16 | 0.09 | 0.18 | 0.26 | 0.35 | 2.46 | |
| 7 | 0.11 | 0.09 | 0.04 | 0.04 | 0.13 | 0.05 | 0.13 | 0.04 | 0.09 | 0.20 | 0.07 | 0.11 | 1.10 | |
| 8 | 0.07 | 0.05 | 0.09 | 0.02 | 0.02 | 0.09 | 0.04 | 0.02 | 0.04 | 0.02 | 0.02 | 0.07 | 0.55 | |
| 9 | 0.07 | 0.02 | 0.00 | 0.00 | 0.04 | 0.00 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.20 | |
| 10 | 0.00 | 0.05 | 0.00 | 0.02 | 0.02 | 0.00 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.16 | |
| 11 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.05 | |
| 12 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | |
| 13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | |
| 14 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | |
| 15 | 0.00 | 0.04 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | |
| MISSING | 0.07 | 0.05 | 0.07 | 0.20 | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.02 | 0.02 | 0.05 | 0.53 | |
| TOTAL | 8.49 | 7.74 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 8.49 | 8.21 | 8.49 | 8.21 | 8.49 | 100.00 | |

Table 460. Monthly Maximum Temperature (°F) at Midway Airport
and Argonne Meteorology Site. January 1950–December 1964
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | MIDWAY | 67 | 42 | 64 | 76 | 93 | 92 | 93 | 93 | 85 | 87 | 81 | 50 |
| | ARGONNE | 65 | 39 | 62 | 73 | 87 | 86 | 89 | 87 | 81 | 84 | 77 | 48 |
| | DIFFERENCE | 2 | 3 | 2 | 3 | 6 | 6 | 4 | 6 | 4 | 3 | 4 | 2 |
| 1951 | MIDWAY | 53 | 56 | 69 | 84 | 91 | 92 | 91 | 92 | 90 | 90 | 64 | 65 |
| | ARGONNE | 51 | 54 | 65 | 81 | 86 | 87 | 88 | 89 | 88 | 86 | 61 | 62 |
| | DIFFERENCE | 2 | 2 | 4 | 3 | 5 | 5 | 3 | 3 | 2 | 4 | 3 | 3 |
| 1952 | MIDWAY | 58 | 52 | 64 | 84 | 92 | 101 | 98 | 94 | 96 | 86 | 74 | 57 |
| | ARGONNE | 54 | 50 | 61 | 83 | 90 | 95 | 91 | 87 | 89 | 83 | 72 | 56 |
| | DIFFERENCE | 4 | 2 | 3 | 1 | 2 | 6 | 7 | 7 | 7 | 3 | 2 | 1 |
| 1953 | MIDWAY | 56 | 55 | 76 | 80 | 93 | 104 | 95 | 99 | 101 | 90 | 74 | 56 |
| | ARGONNE | 55 | 54 | 73 | 78 | 87 | 96 | 90 | 94 | 96 | 85 | 71 | 54 |
| | DIFFERENCE | 1 | 1 | 3 | 2 | 6 | 8 | 5 | 5 | 5 | 5 | 3 | 2 |
| 1954 | MIDWAY | 53 | 69 | 68 | 85 | 91 | 100 | 98 | 95 | 97 | 91 | 70 | 46 |
| | ARGONNE | 50 | 67 | 66 | 81 | 84 | 95 | 92 | 89 | 91 | 87 | 67 | 43 |
| | DIFFERENCE | 3 | 2 | 2 | 4 | 7 | 5 | 6 | 6 | 6 | 4 | 3 | 3 |
| 1955 | MIDWAY | 48 | 51 | 70 | 83 | 92 | 94 | 100 | 99 | 95 | 79 | 71 | 55 |
| | ARGONNE | 48 | 48 | 69 | 80 | 85 | 90 | 97 | 95 | 93 | 78 | 70 | 55 |
| | DIFFERENCE | 0 | 3 | 1 | 3 | 7 | 4 | 3 | 4 | 2 | 1 | 1 | 0 |
| 1956 | MIDWAY | 47 | 47 | 59 | 81 | 92 | 97 | 103 | 99 | 93 | 85 | 70 | 62 |
| | ARGONNE | 44 | 47 | 59 | 81 | 89 | 93 | 101 | 96 | 93 | 84 | 72 | 61 |
| | DIFFERENCE | 3 | 0 | 0 | 0 | 3 | 4 | 2 | 3 | 0 | 1 | -2 | 1 |
| 1957 | MIDWAY | 55 | 62 | 71 | 80 | 85 | 96 | 95 | 94 | 93 | 73 | 63 | 57 |
| | ARGONNE | 54 | 61 | 70 | 80 | 83 | 90 | 92 | 91 | 89 | 72 | 62 | 56 |
| | DIFFERENCE | 1 | 1 | 1 | 0 | 2 | 6 | 3 | 3 | 4 | 1 | 1 | 1 |
| 1958 | MIDWAY | 42 | 57 | 53 | 84 | 89 | 89 | 90 | 94 | 87 | 83 | 72 | 51 |
| | ARGONNE | 44 | 54 | 57 | 82 | 85 | 85 | 86 | 90 | 84 | 80 | 70 | 47 |
| | DIFFERENCE | -2 | 3 | -4 | 2 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 4 |
| 1959 | MIDWAY | 43 | 54 | 74 | 77 | 91 | 95 | 94 | 96 | 96 | 78 | 65 | 58 |
| | ARGONNE | 41 | 50 | 72 | 75 | 87 | 90 | 89 | 93 | 92 | 75 | 63 | 55 |
| | DIFFERENCE | 2 | 4 | 2 | 2 | 4 | 5 | 5 | 3 | 4 | 3 | 2 | 3 |
| 1960 | MIDWAY | 58 | 44 | 73 | 88 | 84 | 88 | 95 | 96 | 100 | 84 | 70 | 60 |
| | ARGONNE | 56 | 40 | 69 | 83 | 80 | 85 | 90 | 91 | 95 | 80 | 69 | 59 |
| | DIFFERENCE | 2 | 4 | 4 | 5 | 4 | 3 | 5 | 5 | 5 | 4 | 1 | 1 |
| 1961 | MIDWAY | 51 | 62 | 71 | 73 | 87 | 95 | 92 | 95 | 93 | 82 | 77 | 62 |
| | ARGONNE | 48 | 57 | 70 | 68 | 83 | 89 | 86 | 88 | 85 | 77 | 73 | 59 |
| | DIFFERENCE | 3 | 5 | 1 | 5 | 4 | 6 | 6 | 7 | 8 | 5 | 4 | 3 |
| 1962 | MIDWAY | 42 | 50 | 72 | 88 | 94 | 95 | 93 | 96 | 94 | 86 | 66 | 63 |
| | ARGONNE | 37 | 46 | 68 | 84 | 87 | 89 | 87 | 91 | 89 | 84 | 61 | 61 |
| | DIFFERENCE | 5 | 4 | 4 | 4 | 7 | 6 | 6 | 5 | 5 | 2 | 5 | 2 |
| 1963 | MIDWAY | 42 | 50 | 79 | 82 | 91 | 97 | 99 | 94 | 92 | 94 | 70 | 59 |
| | ARGONNE | 41 | 48 | 79 | 80 | 87 | 93 | 94 | 91 | 87 | 89 | 59 | 58 |
| | DIFFERENCE | 1 | 2 | 0 | 2 | 4 | 4 | 5 | 3 | 5 | 5 | 1 | 1 |
| 1964 | MIDWAY | 61 | 55 | 67 | 84 | 92 | 96 | 94 | 98 | 94 | 81 | 75 | 48 |
| | ARGONNE | 59 | 56 | 63 | 83 | 90 | 91 | 90 | 94 | 90 | 78 | 72 | 48 |
| | DIFFERENCE | 2 | -1 | 4 | 1 | 2 | 5 | 4 | 4 | 4 | 3 | 3 | 0 |

Table 461. Monthly Maximum Temperature (°F) at O'Hare Airport
and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | O' HARE | 65 | 40 | 62 | 74 | 92 | 89 | 91 | 92 | 84 | 84 | 78 | 49 |
| | ARGONNE | 65 | 39 | 62 | 73 | 87 | 86 | 89 | 87 | 81 | 84 | 77 | 48 |
| | DIFFERENCE | 0 | 1 | 0 | 1 | 5 | 3 | 2 | 5 | 3 | 0 | 1 | 1 |
| 1951 | O' HARE | 47 | 54 | 65 | 83 | 87 | 90 | 88 | 91 | 88 | 86 | 63 | 61 |
| | ARGONNE | 51 | 54 | 65 | 81 | 86 | 87 | 88 | 89 | 88 | 86 | 61 | 62 |
| | DIFFERENCE | -4 | 0 | 0 | 2 | 1 | 3 | 0 | 2 | 0 | 0 | 2 | -1 |
| 1952 | O' HARE | 55 | 51 | 64 | 81 | 90 | 96 | 95 | 92 | 93 | 85 | 72 | 56 |
| | ARGONNE | 54 | 50 | 61 | 83 | 90 | 95 | 91 | 87 | 89 | 83 | 72 | 56 |
| | DIFFERENCE | 1 | 1 | 3 | -2 | 0 | 1 | 4 | 5 | 4 | 2 | 0 | 0 |
| 1953 | O' HARE | 55 | 54 | 74 | 80 | 90 | 100 | 93 | 97 | 99 | 86 | 71 | 55 |
| | ARGONNE | 55 | 54 | 73 | 78 | 87 | 96 | 90 | 94 | 96 | 85 | 71 | 54 |
| | DIFFERENCE | 0 | 0 | 1 | 2 | 3 | 4 | 3 | 3 | 3 | 1 | 0 | 1 |
| 1954 | O' HARE | 48 | 66 | 65 | 82 | 86 | 95 | 93 | 92 | 94 | 88 | 67 | 44 |
| | ARGONNE | 50 | 67 | 66 | 81 | 84 | 95 | 92 | 89 | 91 | 87 | 67 | 43 |
| | DIFFERENCE | -2 | -1 | -1 | 1 | 2 | 0 | 1 | 3 | 3 | 1 | 0 | 1 |
| 1955 | O' HARE | 47 | 51 | 68 | 81 | 87 | 91 | 100 | 98 | 93 | 77 | 68 | 49 |
| | ARGONNE | 48 | 48 | 69 | 80 | 85 | 90 | 97 | 95 | 93 | 78 | 70 | 55 |
| | DIFFERENCE | -1 | 3 | -1 | 1 | 2 | 1 | 3 | 3 | 0 | -1 | -2 | -6 |
| 1956 | O' HARE | 45 | 45 | 58 | 81 | 91 | 94 | 102 | 96 | 87 | 85 | 71 | 61 |
| | ARGONNE | 44 | 47 | 59 | 81 | 89 | 93 | 101 | 96 | 93 | 84 | 72 | 61 |
| | DIFFERENCE | 1 | -2 | -1 | 0 | 2 | 1 | 1 | 0 | -6 | 1 | -1 | 0 |
| 1957 | O' HARE | 56 | 62 | 69 | 79 | 82 | 90 | 92 | 90 | 91 | 72 | 62 | 57 |
| | ARGONNE | 54 | 61 | 70 | 80 | 83 | 90 | 92 | 91 | 89 | 72 | 62 | 56 |
| | DIFFERENCE | 2 | 1 | -1 | -1 | -1 | 0 | 0 | -1 | 2 | 0 | 0 | 1 |
| 1958 | O' HARE | 39 | 56 | 54 | 82 | 85 | 87 | 89 | 93 | 86 | 81 | 71 | 49 |
| | ARGONNE | 44 | 54 | 57 | 82 | 85 | 85 | 86 | 90 | 84 | 80 | 70 | 47 |
| | DIFFERENCE | -5 | 2 | -3 | 0 | 0 | 2 | 3 | 3 | 2 | 1 | 1 | 2 |
| 1959 | O' HARE | 41 | 50 | 74 | 75 | 92 | 92 | 94 | 94 | 97 | 76 | 63 | 57 |
| | ARGONNE | 41 | 50 | 72 | 75 | 87 | 90 | 89 | 93 | 92 | 75 | 63 | 55 |
| | DIFFERENCE | 0 | 0 | 2 | 0 | 5 | 2 | 5 | 1 | 5 | 1 | 0 | 2 |
| 1960 | O' HARE | 58 | 42 | 71 | 86 | 82 | 86 | 92 | 93 | 99 | 82 | 69 | 61 |
| | ARGONNE | 56 | 40 | 69 | 83 | 80 | 85 | 90 | 91 | 95 | 80 | 69 | 59 |
| | DIFFERENCE | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 4 | 2 | 0 | 2 |
| 1961 | O' HARE | 52 | 60 | 72 | 76 | 86 | 92 | 91 | 93 | 89 | 80 | 77 | 62 |
| | ARGONNE | 48 | 57 | 70 | 68 | 83 | 89 | 86 | 88 | 85 | 77 | 73 | 59 |
| | DIFFERENCE | 4 | 3 | 2 | 8 | 3 | 3 | 5 | 5 | 4 | 3 | 4 | 3 |
| 1962 | O' HARE | 42 | 50 | 69 | 85 | 92 | 91 | 90 | 94 | 91 | 88 | 64 | 64 |
| | ARGONNE | 37 | 46 | 68 | 84 | 87 | 89 | 87 | 91 | 89 | 84 | 61 | 61 |
| | DIFFERENCE | 5 | 4 | 1 | 1 | 5 | 2 | 3 | 3 | 2 | 4 | 3 | 3 |
| 1963 | O' HARE | 43 | 48 | 80 | 82 | 90 | 92 | 95 | 91 | 90 | 91 | 69 | 56 |
| | ARGONNE | 41 | 48 | 79 | 80 | 87 | 93 | 94 | 91 | 87 | 89 | 69 | 58 |
| | DIFFERENCE | 2 | 0 | 1 | 2 | 3 | -1 | 1 | 0 | 3 | 2 | 0 | -2 |
| 1964 | O' HARE | 60 | 55 | 66 | 84 | 89 | 92 | 93 | 96 | 94 | 80 | 74 | 48 |
| | ARGONNE | 59 | 56 | 63 | 83 | 90 | 91 | 90 | 94 | 90 | 78 | 72 | 48 |
| | DIFFERENCE | 1 | -1 | 3 | 1 | -1 | 1 | 3 | 2 | 4 | 2 | 2 | 0 |

Table 462. Monthly Minimum Temperatures (°F) at Midway Airport
and Argonne Meteorology Site. January 1950-December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | MIDWAY | 1 | -2 | 0 | 21 | 37 | 46 | 51 | 46 | 40 | 33 | -2 | -10 |
| | ARGONNE | 0 | -8 | -2 | 28 | 36 | 46 | 50 | 45 | 38 | 33 | -2 | -15 |
| | DIFFERENCE | 1 | 6 | 2 | -7 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 5 |
| 1951 | MIDWAY | -15 | -15 | 12 | 29 | 40 | 43 | 53 | 52 | 37 | 31 | 11 | -12 |
| | ARGONNE | -19 | -16 | 10 | 28 | 37 | 39 | 47 | 47 | 35 | 30 | 9 | -16 |
| | DIFFERENCE | 4 | 1 | 2 | 1 | 3 | 4 | 6 | 5 | 2 | 1 | 2 | 4 |
| 1952 | MIDWAY | -3 | 17 | 8 | 26 | 38 | 47 | 55 | 53 | 42 | 25 | 13 | 16 |
| | ARGONNE | -4 | 13 | 6 | 25 | 35 | 45 | 50 | 47 | 39 | 16 | 8 | 11 |
| | DIFFERENCE | 1 | 4 | 2 | 1 | 3 | 2 | 5 | 6 | 3 | 9 | 5 | 5 |
| 1953 | MIDWAY | 3 | 0 | 16 | 29 | 38 | 49 | 55 | 55 | 40 | 36 | 18 | 0 |
| | ARGONNE | -5 | -7 | 11 | 23 | 34 | 44 | 50 | 51 | 35 | 30 | 14 | -4 |
| | DIFFERENCE | 8 | 7 | 5 | 6 | 4 | 5 | 5 | 4 | 5 | 6 | 4 | 4 |
| 1954 | MIDWAY | -7 | 9 | 7 | 19 | 32 | 49 | 55 | 55 | 46 | 29 | 22 | 18 |
| | ARGONNE | -11 | 3 | 1 | 16 | 28 | 46 | 51 | 50 | 41 | 27 | 17 | 11 |
| | DIFFERENCE | 4 | 6 | 6 | 3 | 4 | 3 | 4 | 5 | 5 | 2 | 5 | 7 |
| 1955 | MIDWAY | -10 | -8 | 5 | 34 | 40 | 50 | 61 | 55 | 44 | 32 | 3 | 2 |
| | ARGONNE | -14 | -11 | 1 | 30 | 35 | 45 | 55 | 50 | 37 | 28 | 0 | -2 |
| | DIFFERENCE | 4 | 3 | 4 | 4 | 5 | 5 | 6 | 5 | 7 | 4 | 3 | 4 |
| 1956 | MIDWAY | 2 | 10 | 18 | 29 | 39 | 44 | 54 | 53 | 38 | 38 | 15 | 13 |
| | ARGONNE | -3 | 1 | 14 | 20 | 30 | 36 | 50 | 47 | 32 | 30 | 10 | 6 |
| | DIFFERENCE | 5 | 9 | 4 | 9 | 9 | 8 | 4 | 6 | 6 | 8 | 5 | 7 |
| 1957 | MIDWAY | -7 | 11 | 13 | 21 | 39 | 47 | 61 | 54 | 41 | 31 | 12 | 2 |
| | ARGONNE | -13 | 6 | 9 | 14 | 32 | 39 | 52 | 49 | 33 | 27 | 9 | -3 |
| | DIFFERENCE | 6 | 5 | 4 | 7 | 7 | 8 | 9 | 5 | 8 | 4 | 3 | 5 |
| 1958 | MIDWAY | 1 | -8 | 25 | 31 | 37 | 48 | 59 | 51 | 41 | 36 | 2 | -8 |
| | ARGONNE | -12 | -12 | 20 | 28 | 32 | 40 | 53 | 45 | 34 | 27 | -2 | -18 |
| | DIFFERENCE | 13 | 4 | 5 | 3 | 5 | 8 | 6 | 6 | 7 | 9 | 4 | 10 |
| 1959 | MIDWAY | -10 | -2 | 16 | 27 | 40 | 50 | 53 | 61 | 43 | 29 | 3 | 21 |
| | ARGONNE | -18 | -13 | 11 | 23 | 36 | 40 | 50 | 53 | 36 | 23 | 0 | 13 |
| | DIFFERENCE | 8 | 11 | 5 | 4 | 4 | 10 | 3 | 8 | 7 | 6 | 3 | 8 |
| 1960 | MIDWAY | 6 | 7 | 2 | 26 | 35 | 51 | 56 | 58 | 48 | 30 | 20 | -14 |
| | ARGONNE | 0 | -2 | -9 | 19 | 32 | 44 | 47 | 52 | 37 | 21 | 15 | -18 |
| | DIFFERENCE | 6 | 9 | 11 | 7 | 3 | 7 | 9 | 6 | 11 | 9 | 5 | 4 |
| 1961 | MIDWAY | -2 | 10 | 24 | 22 | 35 | 48 | 55 | 54 | 40 | 32 | 24 | -3 |
| | ARGONNE | -6 | 7 | 17 | 16 | 29 | 40 | 46 | 49 | 33 | 27 | 17 | -4 |
| | DIFFERENCE | 4 | 3 | 7 | 6 | 6 | 8 | 9 | 5 | 7 | 5 | 7 | 1 |
| 1962 | MIDWAY | -12 | -4 | -5 | 25 | 39 | 51 | 53 | 53 | 42 | 23 | 27 | -7 |
| | ARGONNE | -15 | -5 | -7 | 23 | 36 | 43 | 48 | 48 | 36 | 16 | 19 | -12 |
| | DIFFERENCE | 3 | 1 | 2 | 3 | 3 | 8 | 5 | 5 | 6 | 7 | 8 | 5 |
| 1963 | MIDWAY | -18 | -7 | 16 | 30 | 32 | 46 | 55 | 49 | 45 | 36 | 23 | -9 |
| | ARGONNE | -20 | -13 | -4 | 23 | 27 | 34 | 45 | 41 | 37 | 34 | 17 | -14 |
| | DIFFERENCE | 2 | 6 | 20 | 7 | 5 | 12 | 10 | 8 | 8 | 2 | 6 | 5 |
| 1964 | MIDWAY | 3 | 9 | 12 | 26 | 39 | 47 | 54 | 48 | 40 | 27 | 7 | 2 |
| | ARGONNE | -4 | -1 | 8 | 22 | 34 | 40 | 48 | 44 | 34 | 23 | 4 | -2 |
| | DIFFERENCE | 7 | 10 | 4 | 4 | 5 | 7 | 6 | 4 | 6 | 4 | 3 | 4 |

Table 463. Monthly Minimum Temperature (°F) at O'Hare Airport
and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | O' HARE | -3 | -7 | 0 | 21 | 33 | 42 | 47 | 43 | 35 | 31 | 3 | -19 |
| | ARGONNE | 0 | -8 | -2 | 28 | 36 | 46 | 50 | 45 | 38 | 33 | -2 | -15 |
| | DIFFERENCE | -3 | 1 | 2 | -7 | -3 | -4 | -3 | -2 | -3 | -2 | 5 | -4 |
| 1951 | O' HARE | -22 | -17 | 11 | 28 | 35 | 40 | 48 | 46 | 34 | 29 | 5 | -15 |
| | ARGONNE | -19 | -16 | 10 | 28 | 37 | 39 | 47 | 47 | 35 | 30 | 9 | -16 |
| | DIFFERENCE | -3 | -1 | 1 | 0 | -2 | 1 | 1 | -1 | -1 | -1 | -4 | 1 |
| 1952 | O' HARE | -5 | 13 | 3 | 26 | 36 | 44 | 54 | 49 | 39 | 19 | 11 | 13 |
| | ARGONNE | -4 | 13 | 6 | 25 | 35 | 45 | 50 | 47 | 39 | 16 | 8 | 11 |
| | DIFFERENCE | -1 | 0 | -3 | 1 | 1 | -1 | 4 | 2 | 0 | 3 | 3 | 2 |
| 1953 | O' HARE | -6 | 0 | 10 | 27 | 36 | 44 | 51 | 50 | 37 | 31 | 13 | -2 |
| | ARGONNE | -5 | -7 | 11 | 23 | 34 | 44 | 50 | 51 | 35 | 30 | 14 | -4 |
| | DIFFERENCE | -1 | 7 | -1 | 4 | 2 | 0 | 1 | -1 | 2 | 1 | -1 | 2 |
| 1954 | O' HARE | -10 | 5 | 3 | 17 | 30 | 48 | 52 | 52 | 43 | 27 | 18 | 17 |
| | ARGONNE | -11 | 3 | 1 | 16 | 28 | 46 | 51 | 50 | 41 | 27 | 17 | 11 |
| | DIFFERENCE | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 0 | 1 | 6 |
| 1955 | O' HARE | -14 | -10 | 12 | 29 | 34 | 46 | 55 | 50 | 40 | 28 | 2 | 0 |
| | ARGONNE | -14 | -11 | 1 | 30 | 35 | 45 | 55 | 50 | 37 | 28 | 0 | -2 |
| | DIFFERENCE | 0 | 1 | 11 | -1 | -1 | 1 | 0 | 0 | 3 | 0 | 2 | 2 |
| 1956 | O' HARE | -1 | 4 | 17 | 25 | 34 | 41 | 50 | 48 | 32 | 31 | 12 | 7 |
| | ARGONNE | -3 | 1 | 14 | 20 | 30 | 36 | 50 | 47 | 32 | 30 | 10 | 6 |
| | DIFFERENCE | 2 | 3 | 3 | 5 | 4 | 5 | 0 | 1 | 0 | 1 | 2 | 1 |
| 1957 | O' HARE | -16 | 8 | 10 | 18 | 33 | 42 | 54 | 52 | 36 | 29 | 11 | 0 |
| | ARGONNE | -13 | 6 | 9 | 14 | 32 | 39 | 52 | 49 | 33 | 27 | 9 | -3 |
| | DIFFERENCE | -3 | 2 | 1 | 4 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |
| 1958 | O' HARE | -9 | -11 | 22 | 27 | 33 | 40 | 53 | 45 | 36 | 30 | 1 | -14 |
| | ARGONNE | -12 | -12 | 20 | 28 | 32 | 40 | 53 | 45 | 34 | 27 | -2 | -18 |
| | DIFFERENCE | 3 | 1 | 2 | -1 | 1 | 0 | 0 | 0 | 2 | 3 | 3 | 4 |
| 1959 | O' HARE | -13 | -9 | 15 | 26 | 39 | 48 | 52 | 57 | 40 | 25 | 2 | 15 |
| | ARGONNE | -18 | -13 | 11 | 23 | 36 | 40 | 50 | 53 | 36 | 23 | 0 | 13 |
| | DIFFERENCE | 5 | 4 | 4 | 3 | 3 | 8 | 2 | 4 | 4 | 2 | 2 | 2 |
| 1960 | O' HARE | 5 | 4 | -1 | 24 | 34 | 48 | 55 | 55 | 45 | 27 | 19 | -17 |
| | ARGONNE | 0 | -2 | -9 | 19 | 32 | 44 | 47 | 52 | 37 | 21 | 15 | -18 |
| | DIFFERENCE | 5 | 6 | 8 | 5 | 2 | 4 | 8 | 3 | 8 | 6 | 4 | 1 |
| 1961 | O' HARE | -8 | 6 | 15 | 20 | 31 | 41 | 48 | 48 | 32 | 25 | 23 | -4 |
| | ARGONNE | -6 | 7 | 17 | 16 | 29 | 40 | 46 | 49 | 33 | 27 | 17 | -4 |
| | DIFFERENCE | -2 | -1 | -2 | 4 | 2 | 1 | 2 | -1 | -1 | -2 | 6 | 0 |
| 1962 | O' HARE | -15 | -5 | -8 | 24 | 39 | 44 | 48 | 48 | 33 | 19 | 21 | -13 |
| | ARGONNE | -15 | -5 | -7 | 23 | 36 | 43 | 48 | 48 | 36 | 16 | 19 | -12 |
| | DIFFERENCE | 0 | 0 | -1 | 1 | 3 | 1 | 1 | 0 | -3 | 3 | 2 | -1 |
| 1963 | O' HARE | -19 | -9 | 3 | 26 | 29 | 36 | 45 | 42 | 38 | 27 | 18 | -16 |
| | ARGONNE | -20 | -13 | -4 | 23 | 27 | 34 | 45 | 41 | 37 | 34 | 17 | -14 |
| | DIFFERENCE | 1 | 4 | 7 | 3 | 2 | 2 | 0 | 1 | 1 | -7 | 1 | -2 |
| 1964 | O' HARE | -13 | 2 | 2 | 19 | 34 | 39 | 46 | 41 | 32 | 20 | 5 | -3 |
| | ARGONNE | -4 | -1 | 8 | 22 | 34 | 40 | 48 | 44 | 34 | 23 | 4 | -2 |
| | DIFFERENCE | -9 | 3 | -6 | -3 | 0 | -1 | -2 | -3 | -2 | -3 | 1 | -1 |

Table 464. Monthly Average of the Daily Maximum Temperature (°F) at Midway Airport and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | MIDWAY | 39 | 33 | 40 | 49 | 72 | 80 | 83 | 80 | 73 | 69 | 42 | 28 |
| | ARGONNE | 37 | 31 | 38 | 48 | 69 | 76 | 80 | 76 | 70 | 67 | 41 | 26 |
| | DIFFERENCE | 2 | 2 | 2 | 1 | 3 | 4 | 3 | 4 | 3 | 2 | 1 | 2 |
| 1951 | MIDWAY | 31 | 35 | 43 | 56 | 73 | 77 | 83 | 79 | 73 | 65 | 40 | 35 |
| | ARGONNE | 28 | 32 | 41 | 54 | 71 | 74 | 80 | 77 | 70 | 63 | 37 | 32 |
| | DIFFERENCE | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 |
| 1952 | MIDWAY | 35 | 39 | 42 | 61 | 68 | 85 | 88 | 83 | 78 | 60 | 52 | 37 |
| | ARGONNE | 32 | 37 | 40 | 61 | 67 | 82 | 83 | 79 | 74 | 57 | 49 | 35 |
| | DIFFERENCE | 3 | 2 | 2 | 0 | 1 | 3 | 5 | 4 | 4 | 3 | 3 | 2 |
| 1953 | MIDWAY | 35 | 40 | 47 | 55 | 72 | 85 | 86 | 87 | 80 | 71 | 53 | 39 |
| | ARGONNE | 32 | 37 | 44 | 54 | 69 | 81 | 82 | 82 | 76 | 68 | 50 | 35 |
| | DIFFERENCE | 3 | 3 | 3 | 1 | 3 | 4 | 4 | 5 | 4 | 3 | 3 | 4 |
| 1954 | MIDWAY | 35 | 45 | 43 | 64 | 67 | 86 | 86 | 82 | 80 | 63 | 50 | 37 |
| | ARGONNE | 32 | 42 | 40 | 61 | 64 | 82 | 82 | 78 | 76 | 60 | 47 | 33 |
| | DIFFERENCE | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 |
| 1955 | MIDWAY | 31 | 36 | 47 | 68 | 75 | 79 | 91 | 89 | 78 | 65 | 45 | 33 |
| | ARGONNE | 28 | 33 | 44 | 66 | 72 | 75 | 89 | 86 | 76 | 64 | 43 | 32 |
| | DIFFERENCE | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 2 | 1 | 2 | 1 |
| 1956 | MIDWAY | 35 | 36 | 44 | 56 | 71 | 84 | 82 | 83 | 76 | 71 | 49 | 39 |
| | ARGONNE | 34 | 34 | 44 | 57 | 69 | 83 | 82 | 82 | 76 | 71 | 47 | 36 |
| | DIFFERENCE | 1 | 2 | 0 | -1 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 3 |
| 1957 | MIDWAY | 27 | 39 | 45 | 58 | 68 | 80 | 85 | 82 | 73 | 60 | 47 | 42 |
| | ARGONNE | 24 | 38 | 45 | 57 | 67 | 78 | 84 | 81 | 72 | 60 | 46 | 40 |
| | DIFFERENCE | 3 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 2 |
| 1958 | MIDWAY | 32 | 27 | 41 | 60 | 73 | 74 | 81 | 83 | 76 | 67 | 51 | 30 |
| | ARGONNE | 30 | 26 | 41 | 60 | 72 | 72 | 79 | 81 | 73 | 65 | 49 | 27 |
| | DIFFERENCE | 2 | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| 1959 | MIDWAY | 27 | 33 | 45 | 58 | 76 | 83 | 84 | 87 | 78 | 59 | 41 | 41 |
| | ARGONNE | 24 | 31 | 44 | 57 | 73 | 80 | 82 | 85 | 77 | 57 | 39 | 39 |
| | DIFFERENCE | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 |
| 1960 | MIDWAY | 34 | 31 | 33 | 63 | 68 | 77 | 83 | 85 | 79 | 65 | 51 | 33 |
| | ARGONNE | 30 | 27 | 30 | 61 | 65 | 75 | 80 | 81 | 76 | 63 | 47 | 30 |
| | DIFFERENCE | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 4 | 3 | 2 | 4 | 3 |
| 1961 | MIDWAY | 27 | 41 | 48 | 52 | 67 | 81 | 82 | 83 | 79 | 65 | 48 | 33 |
| | ARGONNE | 27 | 38 | 45 | 51 | 64 | 77 | 79 | 78 | 73 | 61 | 45 | 29 |
| | DIFFERENCE | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 5 | 6 | 4 | 3 | 4 |
| 1962 | MIDWAY | 25 | 32 | 41 | 60 | 77 | 81 | 80 | 84 | 74 | 66 | 50 | 32 |
| | ARGONNE | 21 | 29 | 38 | 58 | 73 | 78 | 77 | 81 | 71 | 64 | 48 | 30 |
| | DIFFERENCE | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 1963 | MIDWAY | 21 | 28 | 50 | 63 | 69 | 84 | 84 | 82 | 78 | 76 | 54 | 26 |
| | ARGONNE | 17 | 25 | 44 | 63 | 67 | 81 | 81 | 78 | 73 | 73 | 52 | 22 |
| | DIFFERENCE | 4 | 3 | 6 | 0 | 2 | 3 | 3 | 4 | 5 | 3 | 2 | 4 |
| 1964 | MIDWAY | 38 | 37 | 44 | 60 | 77 | 84 | 85 | 92 | 76 | 63 | 53 | 34 |
| | ARGONNE | 36 | 35 | 42 | 58 | 75 | 81 | 81 | 78 | 73 | 60 | 50 | 31 |
| | DIFFERENCE | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 3 |

Table 465. Monthly Average of the Daily Maximum Temperature (°F) at O'Hare Airport and Argonne Meteorology Site. January 1950-December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | O' HARE | 37 | 32 | 38 | 48 | 69 | 78 | 81 | 79 | 71 | 67 | 42 | 27 |
| | ARGONNE | 37 | 31 | 38 | 48 | 69 | 76 | 80 | 76 | 70 | 67 | 41 | 26 |
| | DIFFERENCE | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 1 | 1 |
| 1951 | O' HARE | 28 | 33 | 42 | 54 | 71 | 74 | 80 | 77 | 71 | 62 | 38 | 33 |
| | ARGONNE | 28 | 32 | 41 | 54 | 71 | 74 | 80 | 77 | 70 | 63 | 37 | 32 |
| | DIFFERENCE | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | -1 | 1 | 1 |
| 1952 | O' HARE | 33 | 37 | 40 | 60 | 66 | 82 | 85 | 80 | 75 | 58 | 50 | 36 |
| | ARGONNE | 32 | 37 | 40 | 61 | 67 | 82 | 83 | 79 | 74 | 57 | 49 | 35 |
| | DIFFERENCE | 1 | 0 | 0 | -1 | -1 | 0 | 2 | 1 | 1 | 1 | 1 | 1 |
| 1953 | O' HARE | 33 | 38 | 44 | 53 | 69 | 82 | 84 | 84 | 77 | 69 | 50 | 37 |
| | ARGONNE | 32 | 37 | 44 | 54 | 69 | 81 | 82 | 82 | 76 | 68 | 50 | 35 |
| | DIFFERENCE | 1 | 1 | 0 | -1 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 2 |
| 1954 | O' HARE | 33 | 43 | 41 | 61 | 65 | 83 | 83 | 79 | 76 | 61 | 48 | 35 |
| | ARGONNE | 32 | 42 | 40 | 61 | 64 | 82 | 82 | 78 | 76 | 60 | 47 | 33 |
| | DIFFERENCE | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 |
| 1955 | O' HARE | 30 | 34 | 46 | 66 | 72 | 76 | 88 | 87 | 76 | 63 | 43 | 31 |
| | ARGONNE | 28 | 33 | 44 | 66 | 72 | 75 | 89 | 86 | 76 | 64 | 43 | 32 |
| | DIFFERENCE | 2 | 1 | 2 | 0 | 0 | 1 | -1 | 1 | 0 | -1 | 0 | -1 |
| 1956 | O' HARE | 34 | 34 | 42 | 55 | 69 | 83 | 81 | 81 | 75 | 70 | 48 | 39 |
| | ARGONNE | 34 | 34 | 44 | 57 | 69 | 83 | 82 | 82 | 76 | 71 | 47 | 36 |
| | DIFFERENCE | 0 | 0 | -2 | -2 | 0 | 0 | -1 | -1 | -1 | -1 | 1 | 3 |
| 1957 | O' HARE | 26 | 37 | 44 | 56 | 65 | 78 | 83 | 80 | 72 | 59 | 46 | 40 |
| | ARGONNE | 24 | 38 | 45 | 57 | 67 | 78 | 84 | 81 | 72 | 60 | 46 | 40 |
| | DIFFERENCE | 2 | -1 | -1 | -1 | -2 | 0 | -1 | -1 | 0 | -1 | 0 | 0 |
| 1958 | O' HARE | 30 | 25 | 41 | 59 | 72 | 72 | 81 | 82 | 74 | 66 | 50 | 28 |
| | ARGONNE | 30 | 26 | 41 | 60 | 72 | 72 | 79 | 81 | 73 | 65 | 49 | 27 |
| | DIFFERENCE | 0 | -1 | 0 | -1 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 1 |
| 1959 | O' HARE | 25 | 32 | 44 | 57 | 75 | 81 | 83 | 86 | 77 | 57 | 40 | 40 |
| | ARGONNE | 24 | 31 | 44 | 57 | 73 | 80 | 82 | 85 | 77 | 57 | 39 | 39 |
| | DIFFERENCE | 1 | 1 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 1960 | O' HARE | 33 | 30 | 32 | 62 | 66 | 76 | 82 | 83 | 77 | 64 | 50 | 32 |
| | ARGONNE | 30 | 27 | 30 | 61 | 65 | 75 | 80 | 81 | 76 | 63 | 47 | 30 |
| | DIFFERENCE | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 2 |
| 1961 | O' HARE | 29 | 40 | 46 | 53 | 67 | 80 | 81 | 82 | 77 | 64 | 48 | 33 |
| | ARGONNE | 27 | 38 | 45 | 51 | 64 | 77 | 79 | 78 | 73 | 61 | 45 | 29 |
| | DIFFERENCE | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 4 |
| 1962 | O' HARE | 24 | 31 | 40 | 59 | 75 | 80 | 79 | 84 | 74 | 67 | 50 | 32 |
| | ARGONNE | 21 | 29 | 38 | 58 | 73 | 78 | 77 | 81 | 71 | 64 | 48 | 30 |
| | DIFFERENCE | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 |
| 1963 | O' HARE | 19 | 27 | 49 | 62 | 68 | 82 | 83 | 80 | 77 | 75 | 52 | 23 |
| | ARGONNE | 17 | 25 | 44 | 63 | 67 | 81 | 81 | 78 | 73 | 73 | 52 | 22 |
| | DIFFERENCE | 2 | 2 | 5 | -1 | 1 | 1 | 2 | 2 | 4 | 2 | 0 | 1 |
| 1964 | O' HARE | 37 | 36 | 43 | 58 | 75 | 82 | 83 | 81 | 75 | 62 | 52 | 33 |
| | ARGONNE | 36 | 35 | 42 | 58 | 75 | 81 | 81 | 78 | 73 | 60 | 50 | 31 |
| | DIFFERENCE | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 3 | 2 | 2 | 2 | 2 |

Table 466. Monthly Average of the Daily Minimum Temperature (°F) at Midway Airport and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | MIDWAY | 20 | 19 | 26 | 34 | 49 | 58 | 61 | 60 | 57 | 49 | 26 | 11 |
| | ARGONNE | 19 | 17 | 24 | 35 | 48 | 57 | 60 | 58 | 54 | 47 | 25 | 9 |
| | DIFFERENCE | 1 | 2 | 2 | -1 | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 2 |
| 1951 | MIDWAY | 16 | 20 | 27 | 38 | 51 | 57 | 62 | 61 | 53 | 45 | 26 | 18 |
| | ARGONNE | 14 | 17 | 25 | 36 | 49 | 53 | 59 | 58 | 50 | 43 | 23 | 15 |
| | DIFFERENCE | 2 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 3 | 3 |
| 1952 | MIDWAY | 19 | 26 | 29 | 41 | 49 | 64 | 67 | 63 | 53 | 38 | 34 | 27 |
| | ARGONNE | 17 | 23 | 26 | 39 | 46 | 61 | 62 | 59 | 50 | 32 | 29 | 23 |
| | DIFFERENCE | 2 | 3 | 3 | 2 | 3 | 3 | 5 | 4 | 3 | 6 | 5 | 4 |
| 1953 | MIDWAY | 23 | 23 | 32 | 39 | 51 | 63 | 66 | 65 | 55 | 48 | 36 | 24 |
| | ARGONNE | 18 | 19 | 28 | 35 | 46 | 59 | 62 | 60 | 51 | 44 | 32 | 21 |
| | DIFFERENCE | 5 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 3 |
| 1954 | MIDWAY | 20 | 30 | 27 | 43 | 47 | 65 | 66 | 65 | 59 | 47 | 35 | 27 |
| | ARGONNE | 16 | 25 | 23 | 39 | 41 | 61 | 61 | 60 | 54 | 43 | 30 | 22 |
| | DIFFERENCE | 4 | 5 | 4 | 4 | 6 | 4 | 5 | 5 | 5 | 4 | 5 | 5 |
| 1955 | MIDWAY | 18 | 21 | 28 | 46 | 52 | 60 | 71 | 69 | 58 | 46 | 27 | 19 |
| | ARGONNE | 13 | 16 | 23 | 42 | 48 | 55 | 71 | 64 | 52 | 42 | 23 | 14 |
| | DIFFERENCE | 5 | 5 | 5 | 4 | 4 | 5 | 5 | 5 | 6 | 4 | 4 | 5 |
| 1956 | MIDWAY | 22 | 23 | 29 | 38 | 50 | 64 | 64 | 65 | 54 | 51 | 33 | 27 |
| | ARGONNE | 17 | 18 | 24 | 33 | 46 | 58 | 59 | 60 | 49 | 45 | 28 | 22 |
| | DIFFERENCE | 5 | 5 | 5 | 5 | 4 | 6 | 5 | 5 | 5 | 6 | 5 | 5 |
| 1957 | MIDWAY | 11 | 27 | 30 | 41 | 50 | 62 | 67 | 65 | 55 | 44 | 33 | 27 |
| | ARGONNE | 6 | 24 | 26 | 38 | 46 | 57 | 62 | 60 | 49 | 38 | 28 | 22 |
| | DIFFERENCE | 5 | 3 | 4 | 3 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 5 |
| 1958 | MIDWAY | 21 | 13 | 31 | 42 | 50 | 55 | 65 | 64 | 57 | 47 | 35 | 15 |
| | ARGONNE | 15 | 8 | 26 | 38 | 45 | 50 | 60 | 59 | 52 | 43 | 30 | 10 |
| | DIFFERENCE | 6 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 |
| 1959 | MIDWAY | 10 | 19 | 29 | 40 | 56 | 63 | 65 | 70 | 60 | 44 | 26 | 30 |
| | ARGONNE | 5 | 14 | 25 | 36 | 52 | 56 | 59 | 65 | 55 | 40 | 22 | 26 |
| | DIFFERENCE | 5 | 5 | 4 | 4 | 4 | 7 | 6 | 5 | 5 | 4 | 4 | 4 |
| 1960 | MIDWAY | 22 | 21 | 19 | 43 | 50 | 59 | 64 | 66 | 62 | 46 | 35 | 18 |
| | ARGONNE | 18 | 16 | 12 | 39 | 45 | 54 | 58 | 61 | 56 | 40 | 31 | 12 |
| | DIFFERENCE | 4 | 5 | 7 | 4 | 5 | 5 | 6 | 5 | 6 | 6 | 4 | 6 |
| 1961 | MIDWAY | 17 | 27 | 34 | 36 | 47 | 58 | 66 | 66 | 60 | 47 | 34 | 19 |
| | ARGONNE | 11 | 22 | 28 | 31 | 41 | 52 | 59 | 59 | 54 | 42 | 29 | 14 |
| | DIFFERENCE | 6 | 5 | 6 | 5 | 6 | 6 | 7 | 7 | 6 | 5 | 5 | 5 |
| 1962 | MIDWAY | 11 | 19 | 28 | 40 | 57 | 61 | 64 | 65 | 55 | 49 | 35 | 17 |
| | ARGONNE | 5 | 15 | 24 | 36 | 53 | 56 | 59 | 59 | 48 | 44 | 31 | 13 |
| | DIFFERENCE | 6 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 7 | 5 | 4 | 4 |
| 1963 | MIDWAY | 6 | 10 | 33 | 42 | 48 | 62 | 66 | 63 | 57 | 53 | 37 | 10 |
| | ARGONNE | 2 | 5 | 26 | 38 | 44 | 56 | 60 | 56 | 51 | 49 | 33 | 7 |
| | DIFFERENCE | 4 | 5 | 7 | 4 | 4 | 6 | 6 | 7 | 6 | 4 | 4 | 3 |
| 1964 | MIDWAY | 21 | 21 | 28 | 43 | 54 | 62 | 67 | 61 | 56 | 39 | 34 | 21 |
| | ARGONNE | 19 | 18 | 24 | 39 | 50 | 57 | 60 | 57 | 52 | 37 | 32 | 17 |
| | DIFFERENCE | 2 | 3 | 4 | 4 | 4 | 5 | 7 | 4 | 4 | 2 | 2 | 4 |

Table 467. Monthly Average of the Daily Minimum Temperature (°F) at O'Hare Airport and Argonne Meteorology Site. January 1950–December 1964.
Number of Observations, 5479

| YEAR | | MONTH | | | | | | | | | | | |
|------|------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| 1950 | O' HARE | 18 | 17 | 24 | 32 | 47 | 56 | 58 | 57 | 53 | 45 | 25 | 7 |
| | ARGONNE | 19 | 17 | 24 | 35 | 48 | 57 | 60 | 58 | 54 | 47 | 25 | 9 |
| | DIFFERENCE | -1 | 0 | 0 | -3 | -1 | -1 | -2 | -1 | -1 | -2 | 0 | -2 |
| 1951 | O' HARE | 13 | 18 | 26 | 36 | 48 | 54 | 60 | 59 | 51 | 43 | 23 | 15 |
| | ARGONNE | 14 | 17 | 25 | 36 | 49 | 53 | 59 | 58 | 50 | 43 | 23 | 15 |
| | DIFFERENCE | -1 | 1 | 1 | 0 | -1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 1952 | O' HARE | 16 | 23 | 26 | 39 | 47 | 62 | 65 | 61 | 50 | 34 | 31 | 25 |
| | ARGONNE | 17 | 23 | 26 | 39 | 46 | 61 | 62 | 59 | 50 | 32 | 29 | 23 |
| | DIFFERENCE | -1 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 0 | 2 | 2 | 2 |
| 1953 | O' HARE | 20 | 22 | 29 | 37 | 48 | 60 | 64 | 60 | 51 | 44 | 34 | 22 |
| | ARGONNE | 18 | 19 | 28 | 35 | 46 | 59 | 62 | 60 | 51 | 44 | 32 | 21 |
| | DIFFERENCE | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 2 | 1 |
| 1954 | O' HARE | 18 | 27 | 24 | 40 | 43 | 62 | 63 | 62 | 55 | 44 | 32 | 25 |
| | ARGONNE | 16 | 25 | 23 | 39 | 41 | 61 | 61 | 60 | 54 | 43 | 30 | 22 |
| | DIFFERENCE | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 3 |
| 1955 | O' HARE | 16 | 19 | 26 | 42 | 48 | 55 | 67 | 65 | 54 | 42 | 25 | 17 |
| | ARGONNE | 13 | 16 | 23 | 42 | 48 | 55 | 66 | 64 | 52 | 42 | 23 | 14 |
| | DIFFERENCE | 3 | 3 | 3 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 2 | 3 |
| 1956 | O' HARE | 21 | 21 | 28 | 36 | 48 | 62 | 61 | 62 | 50 | 48 | 30 | 26 |
| | ARGONNE | 17 | 18 | 24 | 33 | 46 | 58 | 59 | 60 | 49 | 45 | 28 | 22 |
| | DIFFERENCE | 4 | 3 | 4 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 2 | 4 |
| 1957 | O' HARE | 8 | 24 | 27 | 38 | 47 | 58 | 64 | 61 | 51 | 39 | 31 | 24 |
| | ARGONNE | 6 | 24 | 26 | 38 | 46 | 57 | 62 | 60 | 49 | 38 | 28 | 22 |
| | DIFFERENCE | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 2 |
| 1958 | O' HARE | 16 | 10 | 28 | 39 | 45 | 52 | 62 | 61 | 52 | 44 | 33 | 13 |
| | ARGONNE | 15 | 8 | 26 | 38 | 45 | 50 | 60 | 59 | 52 | 43 | 30 | 10 |
| | DIFFERENCE | 1 | 2 | 2 | 1 | 0 | 2 | 2 | 2 | 0 | 1 | 3 | 3 |
| 1959 | O' HARE | 7 | 17 | 28 | 38 | 54 | 61 | 63 | 68 | 57 | 43 | 24 | 29 |
| | ARGONNE | 5 | 14 | 25 | 36 | 52 | 56 | 59 | 65 | 55 | 40 | 22 | 26 |
| | DIFFERENCE | 2 | 3 | 3 | 2 | 2 | 5 | 4 | 3 | 2 | 3 | 2 | 3 |
| 1960 | O' HARE | 21 | 19 | 17 | 43 | 49 | 57 | 62 | 64 | 60 | 44 | 34 | 15 |
| | ARGONNE | 18 | 16 | 12 | 39 | 45 | 54 | 58 | 61 | 56 | 40 | 31 | 12 |
| | DIFFERENCE | 3 | 3 | 5 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 3 |
| 1961 | O' HARE | 11 | 23 | 29 | 34 | 43 | 55 | 61 | 60 | 55 | 43 | 32 | 18 |
| | ARGONNE | 11 | 22 | 28 | 31 | 41 | 52 | 59 | 59 | 54 | 42 | 29 | 14 |
| | DIFFERENCE | 0 | 1 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 4 |
| 1962 | O' HARE | 9 | 18 | 27 | 39 | 55 | 56 | 59 | 60 | 47 | 45 | 30 | 14 |
| | ARGONNE | 5 | 15 | 24 | 36 | 53 | 56 | 59 | 59 | 48 | 44 | 31 | 13 |
| | DIFFERENCE | 4 | 3 | 3 | 3 | 2 | 0 | 0 | 1 | -1 | 1 | -1 | 1 |
| 1963 | O' HARE | 4 | 6 | 30 | 39 | 45 | 56 | 61 | 57 | 52 | 46 | 32 | 3 |
| | ARGONNE | 2 | 5 | 26 | 38 | 44 | 56 | 60 | 56 | 51 | 49 | 33 | 7 |
| | DIFFERENCE | 2 | 1 | 4 | 1 | 1 | 0 | 1 | 1 | 1 | -3 | -1 | -4 |
| 1964 | O' HARE | 19 | 17 | 25 | 40 | 50 | 56 | 61 | 54 | 51 | 34 | 31 | 17 |
| | ARGONNE | 19 | 18 | 24 | 39 | 50 | 57 | 60 | 57 | 52 | 37 | 32 | 17 |
| | DIFFERENCE | 0 | -1 | 1 | 1 | 0 | -1 | 1 | -3 | -1 | -3 | -1 | 0 |

Table 468. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at Midway Airport and Argonne Meteorology Site and Argonne Wind Speed (mph) for Indicated Argonne Wind Direction. January 1950-December 1964

541

| WIND DIRECTION NORTH | | NUMBER OF OBSERVATIONS 14598 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| ARGONNE WIND SPEED (MPH) | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.07 | 0.13 | 0.23 | 0.57 | 1.07 | 1.47 | 1.75 | 1.57 | 1.36 | 1.23 | 1.81 | 0.11 | 11.42 |
| 4-7 | | 0.07 | 0.01 | 0.02 | 0.10 | 0.14 | 0.37 | 0.66 | 1.17 | 2.36 | 3.88 | 5.62 | 6.04 | 5.20 | 4.21 | 3.23 | 5.10 | 0.14 | 38.31 |
| 8-12 | | 0.04 | 0.04 | 0.11 | 0.12 | 0.20 | 0.55 | 1.04 | 1.93 | 2.82 | 5.53 | 7.22 | 5.83 | 4.31 | 1.97 | 0.92 | 0.82 | 0.09 | 33.54 |
| 13-18 | | 0.03 | 0.03 | 0.03 | 0.12 | 0.27 | 0.26 | 0.38 | 0.93 | 1.77 | 2.97 | 3.47 | 2.56 | 1.03 | 0.39 | 0.21 | 0.10 | 0.12 | 14.66 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.08 | 0.11 | 0.21 | 0.52 | 0.51 | 0.18 | 0.10 | 0.05 | 0.02 | 0.02 | 0.00 | 1.85 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.07 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.15 | 0.09 | 0.16 | 0.35 | 0.64 | 1.29 | 2.31 | 4.38 | 7.80 | 14.05 | 18.32 | 16.36 | 12.20 | 7.99 | 5.61 | 7.85 | 0.46 | |

| WIND DIRECTION NORTHEAST | | NUMBER OF OBSERVATIONS 14120 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|---------|-------|
| ARGONNE WIND SPEED (MPH) | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.07 | 0.15 | 0.23 | 0.46 | 1.04 | 1.82 | 1.72 | 1.51 | 1.15 | 0.91 | 1.37 | 0.06 | 10.54 |
| 4-7 | | 0.03 | 0.01 | 0.06 | 0.06 | 0.23 | 0.34 | 0.79 | 1.52 | 3.02 | 5.17 | 6.29 | 5.85 | 4.77 | 3.36 | 2.13 | 2.12 | 0.10 | 35.85 |
| 8-12 | | 0.09 | 0.05 | 0.16 | 0.30 | 0.65 | 1.28 | 2.37 | 3.79 | 6.12 | 7.80 | 6.75 | 3.78 | 1.87 | 0.83 | 0.49 | 0.29 | 0.03 | 36.65 |
| 13-18 | | 0.05 | 0.01 | 0.06 | 0.17 | 0.37 | 0.59 | 1.01 | 1.40 | 2.86 | 4.21 | 2.77 | 0.68 | 0.23 | 0.04 | 0.01 | 0.01 | 0.01 | 14.48 |
| 19-24 | | 0.01 | 0.00 | 0.01 | 0.00 | 0.06 | 0.07 | 0.08 | 0.34 | 0.54 | 0.81 | 0.25 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 2.26 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.06 | 0.00 | 0.00 |
| TOTAL | | 0.18 | 0.07 | 0.30 | 0.53 | 1.33 | 2.37 | 4.39 | 7.30 | 13.03 | 19.07 | 17.91 | 12.12 | 8.40 | 5.40 | 3.56 | 3.85 | 0.21 | |

| WIND DIRECTION EAST | | NUMBER OF OBSERVATIONS 11926 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|
| ARGONNE WIND SPEED (MPH) | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.00 | 0.00 | 0.02 | 0.01 | 0.05 | 0.09 | 0.19 | 0.32 | 0.75 | 1.86 | 3.32 | 3.60 | 3.30 | 2.71 | 1.60 | 1.50 | 0.01 | 19.32 |
| 4-7 | | 0.00 | 0.02 | 0.07 | 0.16 | 0.29 | 0.55 | 1.01 | 2.11 | 4.08 | 7.52 | 9.16 | 8.39 | 5.89 | 3.82 | 1.81 | 0.72 | 0.09 | 45.70 |
| 8-12 | | 0.11 | 0.08 | 0.10 | 0.23 | 0.51 | 0.96 | 1.64 | 2.54 | 4.22 | 5.96 | 5.55 | 2.95 | 1.19 | 0.49 | 0.07 | 0.06 | 0.01 | 26.66 |
| 13-18 | | 0.03 | 0.00 | 0.01 | 0.04 | 0.06 | 0.22 | 0.34 | 0.79 | 1.80 | 2.30 | 1.56 | 0.30 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 7.53 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.05 | 0.08 | 0.32 | 0.14 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.01 | 0.02 | 0.02 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.13 | 0.09 | 0.19 | 0.44 | 0.92 | 1.82 | 3.20 | 5.82 | 10.96 | 17.99 | 19.76 | 15.29 | 10.46 | 7.04 | 3.49 | 2.28 | 0.11 | |

| WIND DIRECTION SOUTHEAST | | NUMBER OF OBSERVATIONS 9555 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| ARGONNE WIND SPEED (MPH) | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.00 | 0.00 | 0.02 | 0.09 | 0.12 | 0.23 | 0.64 | 1.35 | 2.70 | 4.37 | 5.27 | 4.45 | 3.28 | 1.95 | 1.98 | 0.02 | 26.48 |
| 4-7 | | 0.05 | 0.04 | 0.05 | 0.07 | 0.21 | 0.31 | 0.54 | 1.39 | 2.91 | 5.81 | 9.65 | 9.03 | 6.91 | 4.20 | 1.95 | 0.96 | 0.05 | 44.14 |
| 8-12 | | 0.03 | 0.00 | 0.01 | 0.12 | 0.08 | 0.19 | 0.33 | 0.88 | 2.03 | 4.65 | 6.08 | 4.72 | 2.66 | 1.35 | 0.54 | 0.31 | 0.01 | 24.01 |
| 13-18 | | 0.01 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.12 | 0.25 | 0.53 | 1.27 | 1.47 | 0.68 | 0.32 | 0.13 | 0.08 | 0.00 | 0.00 | 4.90 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.06 | 0.06 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.02 | 0.05 | 0.01 | 0.02 | 0.06 | 0.03 | 0.00 | 0.03 | 0.00 | 0.00 |
| TOTAL | | 0.10 | 0.04 | 0.06 | 0.21 | 0.42 | 0.64 | 1.23 | 3.19 | 6.87 | 14.54 | 21.65 | 19.75 | 14.41 | 8.99 | 4.52 | 3.29 | 0.08 | |

Table 469. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at Midway Airport and Argonne Meteorology Site and Argonne Wind Speed (mph) for Indicated Argonne Wind Direction. January 1950-December 1964

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 18144 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|---------|-------|
| SOUTH | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.00 | 0.01 | 0.02 | 0.04 | 0.04 | 0.15 | 0.29 | 0.68 | 1.30 | 1.78 | 2.00 | 1.76 | 1.14 | 0.73 | 0.68 | 0.01 | 10.64 |
| 4-7 | | 0.02 | 0.01 | 0.01 | 0.01 | 0.08 | 0.18 | 0.46 | 1.22 | 3.05 | 5.67 | 7.53 | 6.73 | 4.19 | 2.48 | 1.12 | 0.64 | 0.10 | 33.50 |
| 8-12 | | 0.02 | 0.02 | 0.01 | 0.02 | 0.04 | 0.14 | 0.57 | 1.69 | 4.52 | 8.53 | 8.77 | 6.55 | 3.67 | 1.79 | 0.83 | 0.37 | 0.17 | 37.69 |
| 13-18 | | 0.01 | 0.01 | 0.01 | 0.00 | 0.03 | 0.09 | 0.35 | 0.86 | 2.63 | 3.98 | 3.62 | 2.30 | 1.19 | 0.44 | 0.17 | 0.17 | 0.05 | 15.91 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.14 | 0.31 | 0.59 | 0.44 | 0.26 | 0.11 | 0.04 | 0.02 | 0.01 | 0.04 | 1.99 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.02 | 0.07 | 0.02 | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.20 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| TOTAL | | 0.06 | 0.03 | 0.04 | 0.05 | 0.19 | 0.46 | 1.55 | 4.24 | 11.23 | 20.16 | 22.16 | 17.87 | 10.95 | 5.91 | 2.88 | 1.86 | 0.36 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 22304 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| SOUTHWEST | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.16 | 0.22 | 0.59 | 1.24 | 1.76 | 1.86 | 1.62 | 1.12 | 0.79 | 0.78 | 0.02 | 10.24 |
| 4-7 | | 0.02 | 0.01 | 0.01 | 0.00 | 0.05 | 0.22 | 0.54 | 1.24 | 2.82 | 5.43 | 6.98 | 6.60 | 4.92 | 3.06 | 1.61 | 1.20 | 0.06 | 34.77 |
| 8-12 | | 0.03 | 0.01 | 0.02 | 0.02 | 0.07 | 0.15 | 0.52 | 1.53 | 3.55 | 7.16 | 8.81 | 6.47 | 3.64 | 2.27 | 0.74 | 0.44 | 0.07 | 35.28 |
| 13-18 | | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.11 | 0.28 | 0.94 | 2.19 | 3.92 | 4.52 | 2.77 | 1.20 | 0.51 | 0.16 | 0.21 | 0.04 | 16.94 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.13 | 0.29 | 0.59 | 0.54 | 0.33 | 0.15 | 0.04 | 0.04 | 0.04 | 0.01 | 2.25 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.12 | 0.13 | 0.04 | 0.02 | 0.02 | 0.00 | 0.01 | 0.00 | 0.42 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.07 | 0.03 | 0.04 | 0.05 | 0.17 | 0.56 | 1.58 | 4.08 | 9.48 | 18.49 | 22.77 | 18.06 | 11.56 | 6.83 | 3.35 | 2.68 | 0.21 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 21657 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| WEST | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.12 | 0.19 | 0.31 | 0.78 | 1.27 | 1.55 | 1.20 | 1.02 | 0.69 | 1.03 | 0.06 | 8.31 |
| 4-7 | | 0.01 | 0.01 | 0.03 | 0.04 | 0.07 | 0.12 | 0.35 | 0.72 | 1.86 | 3.93 | 6.16 | 6.70 | 5.97 | 4.88 | 3.28 | 2.98 | 0.25 | 37.38 |
| 8-12 | | 0.03 | 0.00 | 0.02 | 0.03 | 0.06 | 0.11 | 0.34 | 0.97 | 2.45 | 5.74 | 8.51 | 6.55 | 3.39 | 1.83 | 0.88 | 0.54 | 0.12 | 31.58 |
| 13-18 | | 0.01 | 0.00 | 0.01 | 0.02 | 0.04 | 0.12 | 0.30 | 0.81 | 1.99 | 3.85 | 5.29 | 3.05 | 1.21 | 0.41 | 0.13 | 0.11 | 0.09 | 17.44 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.20 | 0.52 | 1.33 | 1.46 | 0.51 | 0.17 | 0.06 | 0.03 | 0.03 | 0.03 | 4.42 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.09 | 0.22 | 0.24 | 0.06 | 0.05 | 0.01 | 0.00 | 0.00 | 0.05 | 0.78 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.06 | 0.03 | 0.06 | 0.09 | 0.19 | 0.43 | 1.16 | 2.95 | 7.21 | 15.38 | 22.96 | 18.43 | 12.01 | 8.21 | 5.01 | 4.70 | 0.60 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 14778 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|---------|-------|
| NORTHWEST | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.01 | 0.01 | 0.00 | 0.00 | 0.03 | 0.03 | 0.11 | 0.27 | 0.42 | 0.94 | 1.36 | 1.69 | 1.53 | 1.01 | 0.81 | 1.40 | 0.09 | 9.70 |
| 4-7 | | 0.05 | 0.02 | 0.03 | 0.06 | 0.18 | 0.22 | 0.49 | 1.37 | 2.37 | 5.01 | 6.75 | 6.72 | 5.37 | 3.47 | 1.63 | 1.32 | 0.16 | 35.23 |
| 8-12 | | 0.09 | 0.05 | 0.08 | 0.12 | 0.15 | 0.40 | 0.60 | 1.63 | 3.84 | 7.71 | 9.03 | 6.23 | 3.04 | 1.56 | 0.46 | 0.24 | 0.13 | 35.40 |
| 13-18 | | 0.07 | 0.04 | 0.03 | 0.05 | 0.12 | 0.16 | 0.41 | 1.07 | 2.55 | 3.99 | 4.13 | 2.65 | 0.89 | 0.33 | 0.10 | 0.09 | 0.08 | 16.77 |
| 19-24 | | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.18 | 0.49 | 0.72 | 0.66 | 0.24 | 0.09 | 0.01 | 0.01 | 0.02 | 0.05 | 2.61 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.08 | 0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.23 | 0.12 | 0.15 | 0.23 | 0.47 | 0.83 | 1.69 | 4.59 | 9.70 | 18.49 | 22.05 | 17.53 | 10.92 | 6.35 | 3.01 | 3.07 | 0.52 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 20482 | | | | | | | | | | | | | | | | MISSING | TOTAL |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|---------|--------|
| CALM | | MIDWAY MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | | |
| 0-3 | | 0.07 | 0.04 | 0.03 | 0.09 | 0.22 | 0.48 | 1.20 | 2.34 | 5.11 | 10.47 | 16.13 | 18.29 | 15.71 | 11.74 | 7.92 | 9.77 | 0.37 | 100.00 |

Table 470. Joint Percentage Frequency Distribution of the Difference in Temperature ($^{\circ}\text{F}$) at O'Hare Airport and Argonne Meteorology Site and Argonne Wind Speed (mph) for Indicated Argonne Wind Direction. January 1950-December 1964

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 14598 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|----------|---------|-------|
| NORTH | | O'HARE MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | MISSING | TOTAL |
| 0-3 | | 0.12 | 0.10 | 0.14 | 0.29 | 0.58 | 0.58 | 0.99 | 1.24 | 1.64 | 1.89 | 1.43 | 0.90 | 0.61 | 0.42 | 0.18 | 0.21 | 0.10 | 11.42 |
| 4-7 | | 0.32 | 0.18 | 0.36 | 0.63 | 1.06 | 1.81 | 3.32 | 5.16 | 7.13 | 7.14 | 5.08 | 3.07 | 1.54 | 0.71 | 0.37 | 0.31 | 0.14 | 38.31 |
| 8-12 | | 0.27 | 0.12 | 0.31 | 0.34 | 0.89 | 1.55 | 2.94 | 5.26 | 7.71 | 7.73 | 3.69 | 1.62 | 0.64 | 0.25 | 0.08 | 0.06 | 0.08 | 33.54 |
| 13-18 | | 0.13 | 0.10 | 0.14 | 0.16 | 0.27 | 0.55 | 1.29 | 2.20 | 3.80 | 3.42 | 1.64 | 0.60 | 0.20 | 0.03 | 0.01 | 0.00 | 0.12 | 14.66 |
| 19-24 | | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.08 | 0.10 | 0.27 | 0.62 | 0.34 | 0.25 | 0.12 | 0.03 | 0.00 | 0.00 | 0.01 | 0.00 | 1.85 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.09 | 0.02 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.85 | 0.50 | 0.95 | 1.45 | 2.81 | 4.56 | 8.64 | 14.16 | 20.99 | 20.54 | 12.12 | 6.32 | 3.04 | 1.40 | 0.64 | 0.58 | 0.45 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 14120 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|----------|---------|-------|
| NORTHEAST | | O'HARE MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | MISSING | TOTAL |
| 0-3 | | 0.08 | 0.12 | 0.18 | 0.27 | 0.49 | 0.62 | 0.92 | 1.06 | 1.64 | 1.68 | 1.25 | 0.77 | 0.59 | 0.30 | 0.21 | 0.30 | 0.06 | 10.54 |
| 4-7 | | 0.35 | 0.24 | 0.45 | 0.67 | 1.23 | 1.88 | 3.19 | 4.89 | 6.56 | 6.06 | 4.66 | 2.70 | 1.68 | 0.70 | 0.27 | 0.23 | 0.08 | 35.85 |
| 8-12 | | 0.46 | 0.38 | 0.69 | 1.11 | 1.88 | 3.00 | 4.69 | 6.71 | 7.20 | 5.46 | 3.24 | 1.18 | 0.38 | 0.19 | 0.04 | 0.03 | 0.01 | 36.65 |
| 13-18 | | 0.21 | 0.14 | 0.27 | 0.41 | 0.61 | 0.93 | 1.59 | 2.86 | 3.10 | 2.83 | 1.14 | 0.25 | 0.11 | 0.01 | 0.01 | 0.00 | 0.01 | 14.48 |
| 19-24 | | 0.02 | 0.01 | 0.01 | 0.02 | 0.08 | 0.15 | 0.20 | 0.52 | 0.58 | 0.52 | 0.11 | 0.05 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 2.26 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.06 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 |
| TOTAL | | 1.13 | 0.89 | 1.59 | 2.49 | 4.28 | 6.58 | 10.59 | 16.08 | 19.12 | 16.57 | 10.42 | 4.96 | 2.78 | 1.23 | 0.55 | 0.57 | 0.17 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 11926 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|----------|---------|-------|
| EAST | | O'HARE MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | MISSING | TOTAL |
| 0-3 | | 0.48 | 0.29 | 0.34 | 0.65 | 0.72 | 1.07 | 1.38 | 1.90 | 2.27 | 2.79 | 2.69 | 2.10 | 1.30 | 0.70 | 0.37 | 0.26 | 0.01 | 19.32 |
| 4-7 | | 0.53 | 0.30 | 0.54 | 0.80 | 1.09 | 1.81 | 3.27 | 5.05 | 6.99 | 8.15 | 6.83 | 5.48 | 2.75 | 1.27 | 0.53 | 0.19 | 0.10 | 45.70 |
| 8-12 | | 0.32 | 0.18 | 0.34 | 0.55 | 1.17 | 1.66 | 2.73 | 3.61 | 4.64 | 4.78 | 3.55 | 1.99 | 0.70 | 0.34 | 0.04 | 0.06 | 0.01 | 26.66 |
| 13-18 | | 0.05 | 0.07 | 0.10 | 0.13 | 0.34 | 0.43 | 0.58 | 1.23 | 1.66 | 1.58 | 0.93 | 0.30 | 0.08 | 0.05 | 0.01 | 0.00 | 0.00 | 7.53 |
| 19-24 | | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.03 | 0.04 | 0.13 | 0.18 | 0.17 | 0.06 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.65 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.01 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| TOTAL | | 1.38 | 0.83 | 1.32 | 2.15 | 3.32 | 5.01 | 8.01 | 11.95 | 15.76 | 17.50 | 14.08 | 9.89 | 4.85 | 2.37 | 0.95 | 0.52 | 0.12 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 9555 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|----------|---------|-------|
| SOUTHEAST | | O'HARE MINUS ARGONNE TEMPERATURE ($^{\circ}\text{F}$) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤ -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 8 | MISSING | TOTAL |
| 0-3 | | 0.70 | 0.25 | 0.55 | 0.63 | 0.94 | 1.29 | 2.11 | 2.65 | 3.63 | 4.14 | 3.91 | 2.51 | 1.41 | 0.91 | 0.47 | 0.35 | 0.01 | 26.48 |
| 4-7 | | 0.41 | 0.16 | 0.31 | 0.62 | 1.06 | 1.70 | 2.67 | 4.69 | 7.15 | 7.80 | 7.15 | 5.12 | 3.09 | 1.38 | 0.51 | 0.29 | 0.05 | 44.14 |
| 8-12 | | 0.10 | 0.12 | 0.13 | 0.24 | 0.44 | 0.95 | 1.47 | 2.77 | 4.59 | 5.01 | 3.85 | 2.29 | 1.29 | 0.45 | 0.12 | 0.17 | 0.02 | 24.01 |
| 13-18 | | 0.12 | 0.01 | 0.02 | 0.10 | 0.18 | 0.22 | 0.25 | 0.75 | 0.97 | 1.17 | 0.63 | 0.32 | 0.09 | 0.01 | 0.03 | 0.01 | 0.00 | 4.90 |
| 19-24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.05 | 0.04 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.02 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 | 0.07 | 0.01 | 0.00 | 0.04 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 |
| TOTAL | | 1.33 | 0.53 | 1.04 | 1.60 | 2.62 | 4.15 | 6.52 | 10.92 | 16.47 | 18.19 | 15.59 | 10.30 | 5.90 | 2.77 | 1.15 | 0.83 | 0.08 | |

Table 471. Joint Percentage Frequency Distribution of the Difference in Temperature (°F) at O'Hare Airport and Argonne Meteorology Site and Argonne Wind Speed (mph) for Indicated Argonne Wind Direction. January 1950-December 1964

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 18144 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| SOUTH | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 0-3 | | 0.29 | 0.12 | 0.25 | 0.30 | 0.46 | 0.60 | 0.93 | 1.21 | 1.81 | 1.62 | 1.33 | 0.79 | 0.47 | 0.25 | 0.10 | 0.09 | 0.01 | 10.64 |
| 4-7 | | 0.22 | 0.15 | 0.26 | 0.55 | 0.94 | 1.48 | 2.65 | 4.29 | 6.05 | 6.13 | 5.26 | 2.88 | 1.37 | 0.72 | 0.28 | 0.17 | 0.08 | 33.50 |
| 8-12 | | 0.16 | 0.08 | 0.17 | 0.24 | 0.58 | 1.12 | 2.76 | 4.92 | 7.83 | 8.10 | 6.06 | 3.20 | 1.55 | 0.44 | 0.20 | 0.12 | 0.16 | 37.69 |
| 13-18 | | 0.08 | 0.02 | 0.05 | 0.08 | 0.26 | 0.50 | 1.11 | 2.45 | 3.53 | 3.68 | 2.23 | 1.17 | 0.42 | 0.14 | 0.07 | 0.06 | 0.07 | 15.91 |
| 19-24 | | 0.01 | 0.01 | 0.01 | 0.00 | 0.02 | 0.07 | 0.10 | 0.26 | 0.49 | 0.53 | 0.29 | 0.12 | 0.03 | 0.01 | 0.01 | 0.01 | 0.04 | 1.99 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.01 | 0.05 | 0.04 | 0.03 | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.20 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| TOTAL | | 0.75 | 0.39 | 0.73 | 1.16 | 2.28 | 3.78 | 7.57 | 13.16 | 19.76 | 20.11 | 15.20 | 8.21 | 3.86 | 1.58 | 0.66 | 0.46 | 0.35 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 22304 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| SOUTHWEST | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 0-3 | | 0.20 | 0.08 | 0.13 | 0.24 | 0.30 | 0.56 | 0.95 | 1.39 | 1.75 | 1.64 | 1.13 | 0.84 | 0.46 | 0.29 | 0.16 | 0.12 | 0.02 | 10.24 |
| 4-7 | | 0.26 | 0.18 | 0.32 | 0.53 | 0.93 | 1.74 | 2.72 | 4.31 | 5.60 | 6.01 | 4.87 | 3.21 | 2.21 | 1.10 | 0.45 | 0.26 | 0.06 | 34.77 |
| 8-12 | | 0.25 | 0.10 | 0.15 | 0.29 | 0.64 | 1.01 | 2.22 | 4.63 | 6.97 | 8.11 | 5.48 | 3.03 | 1.43 | 0.56 | 0.18 | 0.16 | 0.07 | 35.28 |
| 13-18 | | 0.07 | 0.02 | 0.04 | 0.14 | 0.24 | 0.57 | 1.25 | 2.67 | 4.07 | 3.72 | 2.32 | 1.13 | 0.38 | 0.11 | 0.07 | 0.10 | 0.04 | 16.94 |
| 19-24 | | 0.00 | 0.00 | 0.02 | 0.01 | 0.04 | 0.10 | 0.11 | 0.39 | 0.43 | 0.57 | 0.30 | 0.17 | 0.05 | 0.01 | 0.01 | 0.01 | 0.01 | 2.25 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.06 | 0.12 | 0.08 | 0.06 | 0.03 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.78 | 0.39 | 0.65 | 1.22 | 2.16 | 4.00 | 7.28 | 13.47 | 18.97 | 20.13 | 14.17 | 8.41 | 4.55 | 2.08 | 0.88 | 0.65 | 0.20 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 21657 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| WEST | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 0-3 | | 0.13 | 0.06 | 0.06 | 0.19 | 0.29 | 0.42 | 0.63 | 1.08 | 1.33 | 1.45 | 1.12 | 0.74 | 0.37 | 0.15 | 0.13 | 0.10 | 0.05 | 8.31 |
| 4-7 | | 0.19 | 0.12 | 0.21 | 0.42 | 0.75 | 1.60 | 2.84 | 4.42 | 6.04 | 6.86 | 5.81 | 3.92 | 2.12 | 1.01 | 0.49 | 0.36 | 0.24 | 37.38 |
| 8-12 | | 0.12 | 0.06 | 0.08 | 0.16 | 0.33 | 0.81 | 1.69 | 3.46 | 5.85 | 7.50 | 5.83 | 3.02 | 1.41 | 0.66 | 0.25 | 0.24 | 0.11 | 31.58 |
| 13-18 | | 0.04 | 0.00 | 0.03 | 0.11 | 0.20 | 0.42 | 1.11 | 2.38 | 3.67 | 4.46 | 2.84 | 1.28 | 0.50 | 0.17 | 0.07 | 0.06 | 0.09 | 17.44 |
| 19-24 | | 0.01 | 0.00 | 0.00 | 0.01 | 0.02 | 0.10 | 0.35 | 0.62 | 1.13 | 1.03 | 0.68 | 0.25 | 0.07 | 0.06 | 0.04 | 0.02 | 0.03 | 4.42 |
| 25-31 | | 0.01 | 0.00 | 0.01 | 0.00 | 0.02 | 0.04 | 0.08 | 0.09 | 0.13 | 0.17 | 0.12 | 0.06 | 0.01 | 0.00 | 0.00 | 0.00 | 0.05 | 0.78 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.04 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.50 | 0.23 | 0.41 | 0.90 | 1.61 | 3.39 | 6.71 | 12.05 | 18.15 | 21.47 | 16.42 | 9.29 | 4.50 | 2.05 | 0.98 | 0.78 | 0.56 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 14778 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|-------|
| NORTHWEST | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 0-3 | | 0.09 | 0.09 | 0.11 | 0.26 | 0.45 | 0.58 | 0.84 | 1.35 | 1.41 | 1.67 | 1.27 | 0.79 | 0.28 | 0.20 | 0.14 | 0.09 | 0.08 | 9.70 |
| 4-7 | | 0.30 | 0.28 | 0.58 | 0.87 | 1.44 | 2.54 | 3.11 | 4.32 | 6.18 | 6.48 | 4.81 | 2.35 | 0.99 | 0.53 | 0.18 | 0.14 | 0.15 | 35.23 |
| 8-12 | | 0.19 | 0.20 | 0.26 | 0.48 | 0.74 | 1.45 | 2.88 | 4.85 | 7.73 | 8.18 | 4.93 | 2.19 | 0.83 | 0.18 | 0.12 | 0.09 | 0.13 | 35.40 |
| 13-18 | | 0.17 | 0.06 | 0.10 | 0.12 | 0.28 | 0.66 | 1.48 | 2.50 | 3.83 | 3.70 | 2.22 | 1.01 | 0.33 | 0.14 | 0.05 | 0.04 | 0.08 | 16.77 |
| 19-24 | | 0.02 | 0.00 | 0.00 | 0.01 | 0.03 | 0.08 | 0.27 | 0.35 | 0.72 | 0.59 | 0.27 | 0.17 | 0.03 | 0.01 | 0.01 | 0.01 | 0.05 | 2.61 |
| 25-31 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 |
| 32-38 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39-46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| >46 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MISSING | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.07 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | 0.77 | 0.62 | 1.04 | 1.73 | 2.93 | 5.31 | 8.60 | 13.39 | 19.94 | 20.68 | 13.59 | 6.52 | 2.47 | 1.06 | 0.49 | 0.37 | 0.49 | |

| WIND DIRECTION | | NUMBER OF OBSERVATIONS 20482 | | | | | | | | | | | | | | | | | |
|--------------------------|--|---------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|---------|--------|
| CALM | | O'HARE MINUS ARGONNE TEMPERATURE (°F) | | | | | | | | | | | | | | | | | |
| ARGONNE WIND SPEED (MPH) | | ≤-7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥8 | MISSING | TOTAL |
| 0-3 | | 1.63 | 0.91 | 1.47 | 2.43 | 3.66 | 5.19 | 8.30 | 11.50 | 14.93 | 16.39 | 13.14 | 9.15 | 5.11 | 2.97 | 1.61 | 1.28 | 0.34 | 100.00 |

Section 3.2

Wind Speed and Direction Comparisons

The Argonne wind speed and direction observations made at the 19-foot level were compared to those at the Midway Airport and O'Hare International Airport made at the levels above ground as shown in Figure 56. No correction for height was made; this must be considered before any interpretation of these wind speed data are made. Wind speeds, recorded in knots at the Weather Bureau station since January 1, 1955, were converted to miles per hour for comparison. Wind direction at Midway was recorded to 16 points of the compass until January 1, 1964, after which it was recorded to 36 points. For this report, the 36-point Midway data were converted to 16 points according to the scheme in Figure 2. Wind direction at O'Hare was recorded to 16 points of the compass during the entire 15-year period.

Tables 472 through 484. Joint Percentage Frequency Distribution of Wind Direction at the Chicago Stations and Wind Direction at Argonne Meteorology Site. Monthly and Total Period. January 1950-December 1964.

The maximum along the matrix diagonal indicates that the wind directions at these locations are correlated highly.

Tables 485 through 497. Percentage Frequency Distribution of the Differences in Wind Speed (mph) at the Chicago Stations and Argonne Meteorology Site for Each Hour of the Day. Monthly and Total Period. January 1950-December 1964.

These tables present the distribution of the wind speed differences for each hour of the day. The differences in the height of measurement above ground and in the exact observation times within the hour account for some, but not all, of the differences.

The modal difference between Argonne and both Midway and O'Hare is 3 mph. However, an examination of the data indicates a relatively large number of cases in the early morning, i.e., 0100-0500, when the Argonne readings are higher. The 100-foot higher elevation of the Argonne Site and the greater degree of rurality of the location may account for this, but a more detailed investigation involving stability and wind direction is needed before a better understanding is reached. Careful case studies would be helpful. Similarly, further investigation regarding the high frequency of wind speeds at O'Hare and Midway exceeding those at Argonne by over 7 mph is suggested. Such information is important from an air pollution standpoint because it has a bearing on the relative ventilation rates over the three regions.

Tables 498 and 499. Monthly Average Wind Speed (mph) at the Chicago Stations and Argonne Meteorology Site. January 1950-December 1964.