

Design conditions for JACKSONVILLE, FL, USA

Station Information

| Station name | WMO# | Lat | Long | Elev | StdP | Hours +/- UTC | Time zone code | Period |
|--------------|--------|--------|--------|------|--------|---------------|----------------|--------|
| 1a | 1b | 1c | 1d | 1e | 1f | 1g | 1h | 1i |
| JACKSONVILLE | 722060 | 30.50N | 81.68W | 30 | 14.680 | -5.00 | NAE | 7201 |

Annual Heating and Humidification Design Conditions

| Coldest month | Heating DB | | Humidification DP/MCDB and HR | | | | | | Coldest month WS/MCDB | | | | MCWS/PCWD to 99.6% DB | |
|---------------|------------|------|-------------------------------|------|------|------|------|------|-----------------------|------|------|------|-----------------------|------|
| | 99.6% | | 99.6% | | | 99% | | | 0.4% | | 1% | | MCWS | PCWD |
| | 99.6% | 99% | DP | HR | MCDB | DP | HR | MCDB | WS | MCDB | WS | MCDB | | |
| 2 | 3a | 3b | 4a | 4b | 4c | 4d | 4e | 4f | 5a | 5b | 5c | 5d | 6a | 6b |
| 1 | 28.6 | 31.8 | 15.0 | 11.8 | 38.0 | 19.3 | 14.6 | 39.6 | 24.3 | 52.4 | 20.9 | 55.9 | 5.1 | 320 |

Annual Cooling, Dehumidification, and Enthalpy Design Conditions

| Hottest month | Hottest month DB range | Cooling DB/MCWB | | | | | | Evaporation WB/MCDB | | | | | | MCWS/PCWD to 0.4% DB | |
|---------------|------------------------|-----------------|------|------|------|------|------|---------------------|------|------|------|------|------|----------------------|------|
| | | 0.4% | | 1% | | 2% | | 0.4% | | 1% | | 2% | | MCWS | PCWD |
| | | DB | MCWB | DB | MCWB | DB | MCWB | WB | MCDB | WB | MCDB | WB | MCDB | | |
| 7 | 8 | 9a | 9b | 9c | 9d | 9e | 9f | 10a | 10b | 10c | 10d | 10e | 10f | 11a | 11b |
| 7 | 18.3 | 94.6 | 77.7 | 92.8 | 77.3 | 90.9 | 77.0 | 80.3 | 90.0 | 79.4 | 88.8 | 78.5 | 87.4 | 8.2 | 260 |

| Dehumidification DP/MCDB and HR | | | | | | | | | Enthalpy/MCDB | | | | | |
|---------------------------------|-------|------|------|-------|------|------|-------|------|---------------|------|------|------|------|------|
| 0.4% | | | 1% | | | 2% | | | 0.4% | | 1% | | 2% | |
| DP | HR | MCDB | DP | HR | MCDB | DP | HR | MCDB | Enth | MCDB | Enth | MCDB | Enth | MCDB |
| 12a | 12b | 12c | 12d | 12e | 12f | 12g | 12h | 12i | 13a | 13b | 13c | 13d | 13e | 13f |
| 77.7 | 144.0 | 84.5 | 76.9 | 140.1 | 83.7 | 76.1 | 136.6 | 83.0 | 43.6 | 89.8 | 42.7 | 88.8 | 42.0 | 88.0 |

Extreme Annual Design Conditions

| Extreme Annual WS | | | Extreme Max WB | Extreme Annual DB | | | | n-Year Return Period Values of Extreme DB | | | | | | | | | | | |
|-------------------|------|------|----------------|-------------------|------|--------------------|-----|---|------|-------|------------|-------|------|------------|-----|-----|------------|-----|-----|
| 1% | 2.5% | 5% | | Mean | | Standard deviation | | n=5 years | | | n=10 years | | | n=20 years | | | n=50 years | | |
| 14a | 14b | 14c | | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| 15 | 16a | 16b | 16c | 16d | 17a | 17b | 17c | 17d | 17e | 17f | 17g | 17h | | | | | | | |
| 20.0 | 18.0 | 16.4 | 86.5 | 97.9 | 22.3 | 2.5 | 5.0 | 99.7 | 18.7 | 101.2 | 15.8 | 102.6 | 13.0 | 104.4 | 9.3 | | | | |

Monthly Design Dry Bulb and Mean Coincident Wet Bulb Temperatures

| % | Jan | | Feb | | Mar | | Apr | | May | | Jun | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB |
| | 18a | 18b | 18c | 18d | 18e | 18f | 18g | 18h | 18i | 18j | 18k | 18l |
| 0.4% | 80.1 | 68.5 | 81.9 | 67.9 | 85.5 | 68.7 | 89.5 | 69.8 | 93.0 | 73.3 | 97.3 | 77.9 |
| 1% | 78.3 | 67.9 | 80.3 | 67.0 | 83.9 | 68.5 | 87.9 | 69.9 | 91.4 | 72.9 | 95.7 | 77.3 |
| 2% | 76.5 | 66.9 | 78.6 | 66.1 | 82.1 | 67.9 | 86.2 | 69.0 | 89.9 | 72.5 | 94.1 | 76.9 |

| % | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB | DB | MCWB |
| | 18m | 18n | 18o | 18p | 18q | 18r | 18s | 18t | 18u | 18v | 18w | 18x |
| 0.4% | 97.8 | 78.8 | 95.5 | 78.5 | 92.9 | 77.0 | 88.6 | 74.6 | 82.9 | 71.9 | 80.4 | 69.7 |
| 1% | 96.2 | 78.4 | 94.2 | 78.4 | 91.6 | 76.9 | 86.9 | 73.8 | 81.6 | 71.2 | 78.8 | 68.7 |
| 2% | 94.9 | 78.2 | 93.1 | 78.3 | 90.5 | 76.9 | 85.3 | 73.4 | 80.3 | 70.3 | 77.2 | 67.8 |

Monthly Design Wet Bulb and Mean Coincident Dry Bulb Temperatures

| % | Jan | | Feb | | Mar | | Apr | | May | | Jun | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB |
| | 19a | 19b | 19c | 19d | 19e | 19f | 19g | 19h | 19i | 19j | 19k | 19l |
| 0.4% | 70.4 | 76.2 | 70.3 | 76.9 | 72.4 | 80.7 | 74.7 | 82.9 | 77.8 | 86.7 | 80.4 | 91.8 |
| 1% | 69.4 | 74.7 | 69.3 | 75.9 | 71.3 | 79.4 | 73.3 | 81.6 | 76.9 | 85.8 | 79.7 | 90.7 |
| 2% | 68.4 | 73.9 | 68.4 | 74.9 | 70.4 | 78.1 | 72.4 | 80.5 | 76.1 | 84.8 | 79.0 | 89.5 |

| % | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB | WB | MCDB |
| | 19m | 19n | 19o | 19p | 19q | 19r | 19s | 19t | 19u | 19v | 19w | 19x |
| 0.4% | 82.0 | 92.6 | 81.4 | 91.4 | 80.3 | 87.3 | 77.5 | 83.3 | 74.3 | 79.3 | 72.1 | 77.2 |
| 1% | 81.0 | 91.3 | 80.5 | 90.1 | 79.5 | 87.1 | 76.9 | 82.5 | 73.4 | 78.3 | 71.0 | 75.9 |
| 2% | 80.3 | 90.4 | 80.1 | 89.7 | 78.9 | 86.4 | 76.2 | 81.7 | 72.7 | 77.5 | 69.8 | 74.4 |

Monthly Mean Daily Temperature Range

| Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 20a | 20b | 20c | 20d | 20e | 20f | 20g | 20h | 20i | 20j | 20k | 20l |
| 21.8 | 22.0 | 22.4 | 23.1 | 21.2 | 18.7 | 18.3 | 17.2 | 16.4 | 19.2 | 21.0 | 21.2 |

WMO# World Meteorological Organization number Lat Latitude, ° Long Longitude, °
 Elev Elevation, ft StdP Standard pressure at station elevation, psi
 DB Dry bulb temperature, °F DP Dew point temperature, °F WB Wet bulb temperature, °F
 WS Wind speed, mph Enth Enthalpy, Btu/lb HR Humidity ratio, grains of moisture per lb of dry air
 MCDB Mean coincident dry bulb temperature, °F MCWB Mean coincident wet bulb temperature, °F MCWS Mean coincident wind speed, mph
 PCWD Prevailing coincident wind direction, °, 0 = North, 90 = East