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| ASHRAE Technical FAQ |
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| ID  | 41 |
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| Question  | Where can I get design weather data for my area? |
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| Answer  | Design weather data refers generally to specific percentiles of occurrence (mostly joint) of temperature and humidity or wind speed as provided in [2021 ASHRAE Handbook - Fundamentals](https://www.techstreet.com/ashrae/standards/2021-ashrae-handbook-fundamentals-i-p?product_id=2224991), Chapter [F14](https://www.techstreet.com/ashrae/standards/f14-climatic-design-information-i-p?product_id=2232334). Values for locations listed are based on long term hourly official meteorological observations. In the U.S. most available official meteorological data was used in compiling the information in Chapter [F14](https://www.techstreet.com/ashrae/standards/f14-climatic-design-information-i-p?product_id=2232334). Other data may be available from local ASHRAE chapters or universities. In other countries, National Meteorological Services generally will have observational data for more locations than listed in Chapter [F14](https://www.techstreet.com/ashrae/standards/f14-climatic-design-information-i-p?product_id=2232334). The National Centers for Environmental Information, ([NCEI](https://www.ncei.noaa.gov/)) in Asheville NC makes available a web site providing links to sites providing weather information of potential interest to ASHRAE members (www.ncdc.noaa.gov/oa/ashrae/gwds-title.html) The following are relevant available products:[2021 ASHRAE Handbook - Fundamentals](https://www.techstreet.com/ashrae/standards/2021-ashrae-handbook-fundamentals-i-p?product_id=2224991), Chapter [F14](https://www.techstreet.com/ashrae/standards/f14-climatic-design-information-i-p?product_id=2232334)1993 ASHRAE Fundamentals Handbook, Chapter F24 (contains more U.S. locations since some were estimated; percentiles are seasonal rather than annual such as in the 2005 Handbook)1981 ASHRAE Fundamentals Handbook, Chapter F24 (average monthly and yearly degree-days for U.S. & Canadian cities)[ASHRAE Weather Data Viewer](https://www.techstreet.com/ashrae/standards/weather-data-viewer-2021-basic-subscription?product_id=2248129) (WDViewer6.0) DVD (same locations as 2017 Handbook with complete joint frequency information, i.e. all percentiles, not just the design percentiles: 0.4%, 1%, 2%, 99% and 99.6% annual percentiles of occurrence)Engineering Weather Data CD (available from [NCEI](https://www.ncei.noaa.gov/) provides climatic design summaries for hundreds of locations in the U.S. and internationally).The handbooks and the other publications may be purchased and/or individual chapters of the handbook may be purchased and downloaded on-line at our website, [www.ashrae.org](http://www.ashrae.org) or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide.The Air Conditioning Contractors of America ([ACCA](http://www.acca.org)), Manual J also contains design temperature and humidity data for US and Canadian cities. ([www.acca.org](http://www.acca.org)) |
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| ASHRAE Pubs  | [2021 ASHRAE Handbook - Fundamentals](https://www.techstreet.com/ashrae/standards/2021-ashrae-handbook-fundamentals-i-p?product_id=2224991), Chapter [F14](https://www.techstreet.com/ashrae/standards/f14-climatic-design-information-i-p?product_id=2232334); 1981 ASHRAE Fundamentals Handbook, Chapter F24 (Average monthly and yearly degree-days for U.S. & Canada cities); ASHRAE WYEC2 Data and Toolkit CD-ROM; ASHRAE Climatic Data for Region X Arizona, California, Hawaii, Nevada, Fifth Ed., 1982.; [ASHRAE Weather Data Viewer](https://www.techstreet.com/ashrae/standards/weather-data-viewer-2021-basic-subscription?product_id=2248129) (WDViewer6.0) DVD. |
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| Topic References  | weather data |
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|  | Cognizant ASHRAE Committees | Refer to Organization |
| 1 | [TC 4.2](http://tc0402.ashraetcs.org/) | [NCEI](https://www.ncei.noaa.gov/) |
| 2 |  | [ACCA](http://www.acca.org)  |
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