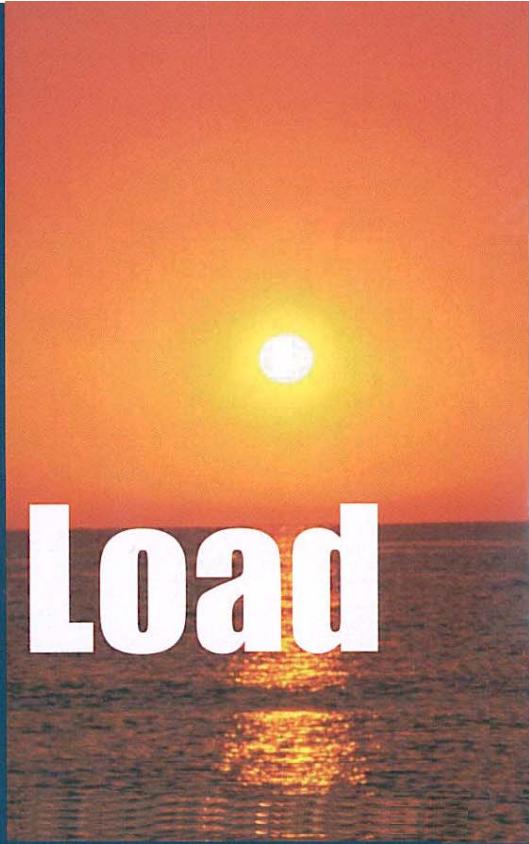


MANUAL

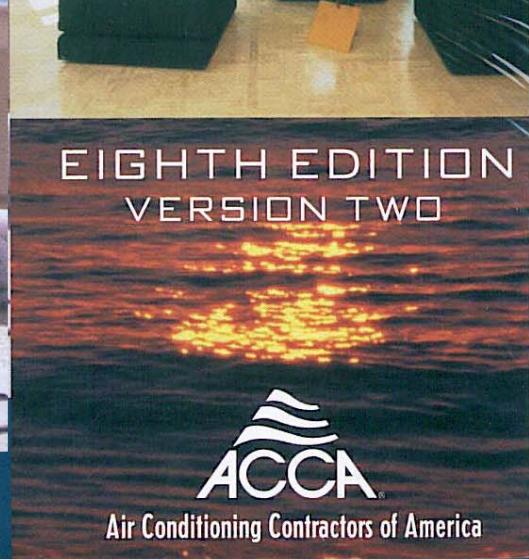
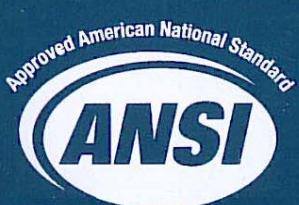
J

# Residential Load Calculation

## Outdoor Design Conditions



EIGHTH EDITION  
VERSION TWO



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## INTRODUCTION

When designing an HVACR system, it is of paramount importance to use the correct outdoor climate data (outdoor design conditions) for the locality in which the building receiving the new system is located. This data is used when calculating the building component heating load and component cooling load, which in turn are used to determine the required cubic feet per minute (CFM) for each room, design the appropriate duct work, and select the optimal equipment for the application. As is evident, not using the relevant outdoor design conditions can cause errors that will propagate throughout the system design process. The results are an uncomfortable indoor environment, energy inefficiency, and avoidable expenses.

This guide is a stand-alone version of the Outdoor Design Conditions tables that originally appear in the *ACCA Manual J Residential Load Calculation 8th Edition v.2.0*. It also contains the relevant references and notes that can be found throughout the Manual J. It is ACCA's intention that the Outdoor Design Conditions Guide will aide Raters and Code Officials around the country in performing system design evaluations. For ease of use, the table of contents lists the page on which you can find a specific state.

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## 1.0 REFERENCES

The following is a list of references to the Outdoor Design Conditions tables found throughout the *ACCA Manual J 8<sup>th</sup> Edition v.2.0* that Raters and Code Officials may find helpful:

- Ref 1. Abridged Edition Check List (precedes p. 1)  
The indoor design condition shall be: Heating 70°F; Cooling 75 db °F and 45%, 50% or 55% RH; unless superseded by code. The outdoor design conditions shall be equal to the values in Table 1A (exactly), unless superseded by code.
- Ref 2. Section 1-2: Design Loads and Other Load Conditions (p. 1)  
Dwellings are subject to design load conditions, part-load conditions and extreme load conditions. Design conditions (based on Manual J defaults for indoor temperature and humidity and Table 1A weather data) are used for equipment sizing calculations. These conditions translate to equipment sizes that efficiently deliver adequate comfort (indoor temperature and humidity excursions conform to industry standard – see ACCA Manual RS) for any load condition.
- Ref 3. Section 2-3: Protocols for Estimating Heating and Cooling Loads (p. 7, 8)  
Manual J Do's (Mandatory Requirements):
  - Use the outdoor design conditions recommended by Table 1A of Manual J (unless superseded by code).Manual J Don'ts (Mandatory Requirements):
  - Do not add a 'safety factor' to the Table 1A design conditions.
- Ref 4. Figure 3-1: Adjustable Defaults for Heating and Cooling Load Estimates (p. 13)  
Issue: Outdoor Design Conditions; Default: Use Table 1 values (exactly as published)
- Ref 5. Section 6-3: Worksheet A (Design Conditions) (p. 42)  
Worksheet A provides a record of the indoor and outdoor design conditions used for the job. The following information shall be transcribed from Table 1A
  - Location and add job name
  - Indoor design temperature for heating and cooling
  - Indoor humidity (RH) for heating and cooling
  - Elevation and latitude
  - Outdoor design temperature for heating (99% value)
  - Outdoor design temperature for cooling (1% value)
  - Grains difference value for cooling (for specified indoor RH value)
  - Daily range classification
- Ref 6. The entirety of Section 18: Design Conditions (p. 143 – 148)

## 2.0 NOTES

1. Note the following acronyms and their meaning:
  - AAF = Army Air Field
  - AFB = Air Force Base
  - AFS = Air Force Station
  - AP = Air Port
  - ANGB = Air National Guard Base
  - CLG = College
  - CO = City Office
  - CSL = Castle
  - FS = Fire Station
  - HQ = Head Quarters
  - IAP = International Air Port
  - MCAS = Marine Corps Air Station
  - MCB = Marine Corps Base
  - MNT = Mountain
  - NAS = Naval Air Station
  - ND = Navy Depot
  - NM = National Monument
  - OBSY = Observatory
  - PH = Power House
  - PK = Park
  - RCH = Ranch
  - RES = Reservoir
  - RS = Ranger Station
  - STN = Station
  - TP = Trading Post
  - UNV = University
  - WSO = Weather Station Office
  - 15 W = 15 miles Wes
2. Design Grains columns refer to the Grains of moisture difference between the outdoor air and the indoor air. Negative values occur when the outdoor air is drier than the indoor air.
  - Design Grains 55% RH = Indoor Air at 75°F drybulb and 55% Relative humidity
  - Design Grains 50% RH = Indoor Air at 75°F drybulb and 50% Relative humidity
  - Design Grains 45% RH = Indoor Air at 75°F drybulb and 45% Relative humidity
3. Average daily temperature swing for L, M and H daily range categories:
  - Low = swing less than 16°F
  - Medium = swing ranges from 16°F to 25°F
  - High = swing more than 25°F
4. The 1997 ASHRAE 1% and 99% temperature data is used when provided for a particular location. The older 2 ½% and 97 ½% temperature data is used for locations that were not listed in the ASHRAE weather data.
5. The 99% and 1% temperatures are annual percentile values and are essentially equivalent to the 97 ½% and 2 ½% seasonal values that were used in the previous editions of Manual J.
6. Refer to Table 1B for micro-climate data for Arizona, California, Hawaii, and Nevada. (Table 1B supersedes Table 1A).

## 3.0 OUTDOOR DESIGN TABLES

The following are *Table 1A: Outdoor Design Conditions* and *Table 1B: Micro Climate Data for Arizona, California, Hawaii and Nevada*, which can also be found in *ACCA Manual J 8<sup>th</sup> Edition v.2.0*

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH
<b>Alabama</b>									
Alexander City	686	33	22	93	76	39	46	52	M
Anniston AP	612	33	24	93	76	39	46	52	M
Auburn	776	32	22	93	76	39	46	52	M
Birmingham AP	644	33	23	92	75	34	41	47	M
Decatur	592	34	16	93	74	27	34	40	M
Dorthan AP	401	31	32	93	76	39	46	52	M
Florence AP	581	34	21	94	75	31	38	44	M
Gadsden	569	34	20	94	75	31	38	44	M
Huntsville AP	629	34	20	92	747	28	35	41	M
Mobile AP	218	30	30	92	76	41	48	54	M
Mobile CO	26	30	29	93	77	46	53	59	M
Montgomery AP	221	32	27	93	76	39	46	52	M
Ozark, Fort Rucker	356	31	31	94	77	44	51	57	M
Selma-Craig AFB	166	32	26	95	77	42	49	55	M
Talladega	528	33	22	94	76	37	44	50	M
Tuscaloosa AP	170	33	24	94	77	44	51	57	M
<b>Alaska</b>									
Adak, NAS	19	52	23	57	53	-18	-11	-5	L
Anchorage IAP	144	61	-9	68	57	-20	-13	-7	L
Anchorage, Elmendorf AFB	212	61	-8	69	57	-21	-14	-8	L
Anchorage, Fort Richardson	342	61	-13	71	58	-20	-13	-7	M
Annette	110	55	17	70	59	-14	-7	-1	L
Barrow	44	71	36	52	49	-25	-18	-12	L
Bethel	123	61	-24	68	57	-20	-13	-7	M
Bettles	643	67	-44	75	59	-22	-15	-9	M
Big Delta, Ft. Greely	1277	64	-39	75	58	-27	-20	-14	M
Cold Bay	98	55	10	57	53	-18	-11	-5	L
Cordova	42	60	1	67	57	-18	-11	-5	M
Deadhorse	61	70	-34	61	54	-21	-14	-8	M
Dillingham	86	59	-13	66	56	-21	-14	-8	M
Fairbanks IAP	434	64	-41	77	59	-26	-19	-13	M
Fairbanks, Eielson AFB	545	64	-31	78	60	-23	-16	-10	M
Galena	152	64	-31	74	59	-21	-14	-8	M
Gulkana	1579	62	-39	73	56	-32	-25	-19	M
Homer	78	59	4	62	55	-18	-11	-5	L
Juneau IAP	19	58	7	69	58	-17	-10	-4	L
Kenai	92	60	-14	65	55	-23	-16	-10	M
Ketchikan IAP	88	55	20	68	59	-11	-4	2	L
King Salmon	57	58	-19	67	56	-22	-15	-9	M
Kodiak	73	57	12	65	56	-19	-12	-6	L
Kotzebue	11	66	-31	64	58	-9	-2	4	L
McGrath	337	62	-42	73	58	-23	-16	-10	M
Middleton Island	87	59	21	60	51	-31	-24	-18	L
Nenana	362	64	-44	76	59	-24	-17	-11	M
Nome AP	37	64	-26	65	55	-23	-16	-10	L
Northway	1716	62	-32	74	57	-29	-22	-16	M
Port Heiden	105	56	-2	61	52	-29	-22	-16	L
Saint Paul Island	63	57	3	52	50	-22	-15	-9	L
Sitka	21	57	21	64	58	-9	-2	4	L
Talkeetna	358	62	-21	73	58	-23	-16	-10	M
Valdez	120	61	7	66	55	-25	-18	-12	L
Yakutat	33	59	2	63	55	-20	-13	-7	L

Location	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
<b>Arizona</b>										
Douglas AP	4173	31	31	95	63	-34	-27	-21	H	
Flagstaff AP	7011	35	8	83	55	-54	-47	-41	H	
Fort Huachuca AP	4716	31	28	92	62	-34	-27	-21	H	
Kingman AP	3446	35	27	97	63	-38	-31	-25	H	
Nogalas	3932	31	32	96	64	-32	-25	-19	H	
Page	4310	36	24	97	62	-43	-36	-30	H	
Phoenix AP	1133	33	37	108	70	-21	-14	-8	H	
Phoenix, Luke AFB	1101	33	38	107	71	-14	-7	-1	H	
Prescott AP	5042	34	20	91	60	-42	-35	-29	H	
Safford, Agri Center	3176	32	26	99	66	-25	-18	-12	H	
Tuscon AP	2641	32	24	102	65	-39	-30	-24	H	
Winslow AP	4938	35	14	93	60	-46	-39	-33	H	
Yuma AP	213	32	44	109	72	-15	-8	-2	H	
<b>Arkansas</b>										
Blytheville AFB	264	36	18	95	77	42	49	55	M	
Camden	130	33	23	96	76	34	41	47	M	
El Dorado AP	277	33	23	96	76	34	41	47	M	
Fayetteville AP	1251	36	13	93	75	33	40	46	M	
Fort Smith AP	469	35	19	96	76	34	41	47	M	
Hot Springs	540	34	23	97	77	39	46	52	M	
Jonesboro	262	35	15	94	77	44	51	57	M	
Little Rock AP	260	34	21	95	77	42	49	55	M	
Pine Bluff AP	206	34	22	97	77	39	46	52	M	
Texarkana AP	389	33	25	95	77	42	49	55	M	
<b>California</b>										
Alameda, NAS	15	37	42	79	64	-6	1	7	M	
Bakersfield AP	507	35	35	101	69	-15	-8	-2	H	
Barstow	1927	34	32	105	67	-32	-25	-19	H	
Blue Canyon	5280	39	24	81	57	-41	-34	-28	M	
Blythe AP	397	33	33	110	71	-18	-11	-5	H	
Burbank AP	775	34	41	95	69	-6	1	7	M	
Chico	238	39	30	101	68	-22	-15	-9	H	
Concord	23	38	27	97	68	-14	-7	-1	H	
Covina	575	34	35	95	68	-11	-5	2	H	
Crescent City AP	57	41	33	65	59	-6	1	7	M	
Downey	110	34	40	89	70	9	15	22	M	
El Cajon	387	32	44	80	69	19	26	32	H	
El Centro AP	-30	32	38	110	74	-3	4	10	H	
Escondido	660	33	41	85	68	5	12	18	H	
Eureka/Arcata AP	217	41	32	67	59	-10	-3	3	L	
Fairfield-Travis AFB	62	38	34	94	67	-15	-8	-2	H	
Fresno AP	328	36	32	101	70	-10	-3	3	H	
Hamilton AFB	3	38	32	84	66	-4	3	9	H	
Laguna Beach	35	33	43	80	68	0	3	6	M	
Lemoore, Reeves NAS	237	36	32	101	71	-4	3	9	H	
Livermore	500	37	27	97	68	-14	-7	-1	M	
Lompoc, Vandenburg AFB	87	34	38	70	61	-5	2	8	M	
Long Beach AP	30	33	43	88	67	-5	2	8	M	
Los Angeles AP	97	34	45	81	64	-9	-2	8	L	
Los Angeles CO	270	34	40	89	70	10	17	23	M	
Marysville, Beale AFB	119	39	34	98	69	-10	-3	3	H	

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH
Merced-Castle AFB	188	37	32	97	69	-9	-2	4	H
Modesto	97	37	30	98	68	-16	-9	-3	H
Monterey	162	36	38	71	61	-7	0	6	M
Mount Shasta	3543	41	21	88	61	-33	-26	-20	H
Mountain View, Moffet NAS	34	37	39	84	65	-9	-2	4	M
Napa	33	38	32	96	68	-12	-5	1	H
Needles AP	983	34	33	110	71	-18	-11	-5	H
Oakland AP	6	37	36	80	63	-12	-5	1	M
Oceanside	28	33	43	80	68	13	20	26	L
Ontario IAP	952	34	38	98	70	-5	2	8	H
Oxnard	7	34	41	79	68	-6	1	7	M
Palmdale AP	2542	34	24	98	67	-31	-24	-18	H
Palm Springs	462	33	35	110	66	-24	-17	-11	H
Pasadena	864	34	35	95	69	-11	-4	2	H
Paso Robles	837	35	29	98	69	-21	-14	-8	H
Petaluma	87	38	29	90	67	-13	-6	0	H
Pomona CO	934	34	30	99	69	-12	-5	1	H
Red Bluff	342	40	32	102	69	-17	-10	-4	H
Redding AP	502	40	31	102	67	-27	-20	-14	H
Redlands	1571	34	33	99	69	-12	-5	1	H
Richmond	55	38	36	80	63	-12	-6	1	M
Riverside-March AFB	1533	33	36	98	68	-16	-9	-3	H
Sacramento AP	95	38	32	97	68	-14	-7	-1	H
Sacramento, McClellan AFB	75	33	34	98	67	-21	-14	-8	H
Sacramento, Metro	23	38	33	97	69	-9	-2	4	H
Salinas AP	85	36	35	78	62	-14	-7	-1	M
San Bernardino, Norton AFB	1156	34	36	101	70	-10	-3	3	H
San Diego AP	13	32	46	81	67	6	13	19	L
San Diego, Miramar NAS	477	32	42	88	67	-5	2	8	M
San Fernando	977	34	39	91	68	-4	2	9	H
San Francisco AP	8	37	39	78	62	-14	-7	-1	M
San Francisco CO	20	37	40	71	62	-2	5	11	L
San Jose AP	56	37	38	89	66	-12	-5	1	H
San Luis Obispo	250	35	35	88	70	11	18	24	H
Santa Ana AP	54	33	39	85	68	5	12	18	H
Santa Barbara AP	10	34	37	80	64	-8	1	5	M
Santa Cruz	125	37	38	71	61	-7	2	6	H
Santa Maria AP	240	34	35	82	62	-20	-13	-7	M
Santa Monica CO	236	34	43	80	68	13	20	26	M
Santa Paula	245	34	35	86	67	-2	5	11	H
Santa Rosa	125	38	29	95	67	-16	-9	-3	H
Stockton AP	22	37	32	97	68	-14	-7	-1	H
Ukiah	614	39	29	95	68	-11	-4	2	H
Victorville, George AFB	2875	34	30	98	65	-31	-24	-18	H
Visalia	292	36	30	100	69	-14	-7	-1	H
Yreka	2625	41	17	92	64	-25	-18	-11	H
Yuba City	58	39	31	101	67	-26	-19	-13	H
<b>Colorado</b>									
Alamosa AP	7543	37	-11	82	55	-53	-46	-40	H
Boulder	5358	40	0	91	59	-47	-40	-34	H
Colorado Springs AP	6171	38	4	87	58	-46	-39	-33	H
Craig	6283	40	-12	85	56	-52	-45	-39	H
Denver AP	5283	39	-3	90	59	-46	-39	-33	H

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
				Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Durango	6684	37	-1	87	59	-41	-34	-28	H
Eagle	6539	39	-7	86	57	-49	-42	-36	H
Fort Collins	4935	40	1	91	59	-48	-41	-35	H
Grand Junction AP	4843	39	7	94	60	-47	-40	-34	H
Greeley	4820	40	4	94	60	-47	-40	-34	H
LaJunta AP	4238	38	3	98	68	-11	-4	2	H
Leadville	9927	39	-14	81	51	-71	-64	-58	H
Limon	5364	39	1	88	60	-37	-30	-24	H
Pueblo AP	4684	38	5	94	62	37	-30	-24	H
Sterling	4038	40	-2	93	62	-36	-29	-23	H
Trinidad AP	5761	37	6	90	60	-40	-33	-27	H
<b>Connecticut</b>									
Bridgeport AP	10	41	12	84	72	29	36	42	M
Hartford, Brainard Field	19	41	6	88	72	23	30	36	M
New Haven AP	14	41	7	84	73	35	42	48	M
New London	10	41	9	85	72	26	32	39	M
Norwalk	397	41	9	84	71	22	29	36	M
Norwich	197	41	7	86	73	30	37	44	M
Waterbury	850	41	2	85	71	22	29	35	M
Windsor Locks, Bradley Field	197	42	8	88	71	16	22	29	M
<b>Delaware</b>									
Dover AFB	28	39	18	89	75	39	46	52	M
Wilmington AP	78	39	14	89	74	33	40	46	M
<b>District of Columbia</b>									
Andrews AFB	283	38	18	91	74	30	37	43	M
Washington National AP	313	38	17	91	74	30	37	43	M
<b>Florida</b>									
Apalachicola	20	29	35	90	78	57	64	70	M
Belle Glade	17	26	44	91	76	42	49	55	M
Cape Kennedy AP	10	28	42	90	78	57	64	70	L
Daytona Beach AP	31	29	37	90	77	51	58	64	L
Fort Lauderdale	10	26	50	90	78	57	64	70	L
Fort Meyers AP	15	26	47	93	77	46	53	59	M
Fort Pierce	25	27	42	90	78	57	64	70	M
Gainesvilles AP	152	29	33	92	77	47	54	60	M
Homestead AFB	7	25	52	90	78	57	64	70	L
Jacksonville AP	26	30	32	93	77	46	53	59	M
Jacksonville/Cecil Field NAS	80	30	34	95	76	36	43	49	M
Jacksonville, Mayport Naval	16	30	39	92	78	54	61	67	M
Key West AP	4	24	58	89	79	66	73	79	L
Lakeland CO	214	28	41	91	76	42	49	55	M
Melbourne	15	28	43	91	79	62	69	75	M
Miami AP	11	25	50	90	77	51	58	64	L
Miami Beach CO	8	25	48	89	77	52	59	65	L
Miami, New Tamiami AP	10	25	49	91	78	56	59	65	L
Milton, Whiting Field NAS	200	30	31	93	77	46	53	59	M
Ocala	90	29	34	93	77	46	53	59	M
Orlando AP	100	28	42	93	76	39	46	52	M
Panama City, Tyndall AFB	18	30	37	89	79	66	73	79	L
Pensacola CO	30	30	32	92	78	54	61	67	L

<b>Location</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
				<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>
St. Augustine	10	29	35	89	78	59	66	72	M
St. Petersburg	11	28	47	93	79	59	66	72	M
Sanford	55	28	38	93	76	39	46	52	M
Sarasota/Bradenton	30	27	43	92	79	61	68	74	M
Tallahassee AP	55	30	28	93	76	39	46	52	M
Tampa AP	19	28	40	91	77	49	56	62	M
Valparaiso, Eglin AFB	85	30	33	90	78	57	64	70	M
Vero Beach	13	27	43	90	78	57	64	70	M
West Palm Beach AP	15	26	47	90	78	57	64	70	M
<b>Georgia</b>									
Albany, Turner AFB	223	31	30	95	76	49	56	62	M
Americus	466	32	25	94	76	37	44	50	M
Athens	802	34	25	92	75	34	41	47	M
Atlanta AP	1010	33	23	91	74	30	37	43	M
Augusta AP	148	33	25	94	76	37	44	50	M
Brunswick	20	31	34	91	79	62	69	75	M
Columbus, Fort Benning	232	32	27	94	76	37	44	50	M
Columbus, Lawson AFB	971	32	24	93	76	39	46	53	M
Columbus, Metro AP	397	32	27	93	75	33	40	46	M
Dalton	710	34	22	93	76	39	46	52	M
Dublin	310	32	25	93	76	39	46	52	M
Gainesville	1275	34	21	91	74	30	37	43	M
Griffin	980	33	22	90	75	38	45	51	M
La Grange	693	33	23	91	75	36	43	49	M
Macon AP	354	32	27	94	75	31	38	44	M
Marietta, Dobbins AFB	1068	34	26	91	74	30	37	43	M
Moultrie	292	31	30	95	77	42	49	55	M
Rome AP	637	34	21	94	74	25	32	38	M
Savannah, Travis AP	49	32	29	93	76	39	46	52	M
Valdosta, Moody AFB	233	31	34	94	77	44	51	57	M
Valdosta, Regional AP	203	30	31	94	76	37	44	50	M
Waycross	151	31	32	94	76	37	44	50	M
<b>Hawaii</b>									
Ewa, Barbers Point NAS	34	21	61	90	72	19	26	32	M
Hilo AP	36	19	63	84	74	41	48	54	L
Honolulu AP	16	21	63	88	73	29	36	42	L
Kahului	56	20	61	88	74	35	42	48	M
Kaneohe Bay MCAS	18	21	68	85	74	40	47	53	L
Lihue	148	21	62	85	74	40	47	53	L
Molokai	449	21	61	87	73	30	37	43	M
Wahaiwa	900	21	59	85	72	28	35	41	L
<b>Idaho</b>									
Boise AP	2838	43	9	94	63	-34	-27	-21	H
Burley	4150	42	2	90	62	-22	-15	-9	H
Coeur D'Alene AP	3002	47	-1	86	61	-30	-23	-17	H
Idaho Falls AP	4741	43	-6	89	60	-39	-32	-26	H
Kamiah	1196	46	15	93	64	-28	-21	-14	H
Lewiston AP	1413	46	15	93	64	-28	-21	-15	H
Moscow	2583	46	0	87	62	-27	-20	-13	H
Mountain Home AFB	2996	43	5	96	62	-42	-35	-29	H
Mullan	3317	47	7	84	61	-27	-20	-14	H

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
				Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Pocatello AP	4454	43	0	90	60	-41	-34	-28	H
Twin Falls AP	4150	42	2	95	61	-44	-37	-31	H
<b>Illinois</b>									
Aurora	706	41	-1	91	76	42	49	55	M
Belleville, Scott AFB	453	38	10	93	77	46	53	59	M
Bloomington	875	40	-2	90	74	31	38	44	M
Carbondale	411	37	7	93	77	46	53	59	M
Champaign/Urbana	754	40	2	92	74	28	35	41	M
Chicago, Meigs Field	593	41	3	89	73	27	34	40	M
Chicago, Midway AP	620	41	0	91	73	24	31	37	M
Chicago, O'Hare AP	668	42	-1	88	73	29	36	42	M
Chicago CO	647	41	2	91	74	30	37	43	L
Danville	696	40	1	90	74	31	38	44	M
Decatur	682	39	3	91	75	36	43	49	M
Dixon	785	41	-2	90	74	31	38	43	M
Elgin		42	-2	88	74	35	42	48	M
Freeport	856	42	-4	89	73	27	34	40	M
Galesburg	764	41	-2	91	75	36	43	49	M
Glenview, NAS	653	42	4	89	73	27	34	40	M
Greenville	541	39	4	92	75	34	41	47	M
Joliet	581	41	0	90	74	31	38	43	M
Kankakee	629	41	1	90	74	31	38	43	M
LaSalle/Peru	654	41	-2	91	75	36	43	49	M
Macomb	705	40	0	92	76	41	48	54	M
Marseilles	738	41	1	89	73	27	34	40	M
Moline, Davenport AP	590	41	-3	90	74	31	38	43	M
Mt. Vernon	480	38	5	92	75	34	41	47	M
Preoria AP	663	40	-1	89	74	33	40	46	M
Quincy AP	768	40	2	91	75	36	43	49	M
Rantoul, Chanute AFB	737	40	1	91	74	30	37	42	M
Rockford	741	42	-4	88	73	29	36	41	M
Springfield AP	641	39	2	91	75	36	43	49	M
Waukegan	727	42	-3	89	74	33	40	46	M
West Chicago	758	41	0	88	74	35	42	48	M
<b>Indiana</b>									
Anderson	919	40	6	92	75	34	41	47	M
Bedford	728	38	5	92	75	34	41	47	M
Bloomington	846	39	5	92	75	34	41	47	M
Columbus, Bakalar AFB	656	39	7	92	75	34	41	47	M
Crawfordsville	799	40	3	91	74	30	37	43	M
Evansville AP	387	38	9	92	76	41	48	54	M
Fort Wayne AP	815	41	2	88	73	29	36	42	M
Goshen AP	827	41	1	89	73	27	34	40	M
Hobart	644	41	2	88	73	29	36	42	M
Huntington	806	40	1	89	72	21	28	34	M
Indianapolis AP (S)	807	39	3	88	74	35	42	48	M
Jeffersonville	474	38	10	93	74	27	34	40	M
Kokoma	830	40	0	90	73	25	32	38	M
Lafayette	607	40	3	90	75	38	45	51	M
LaPort	812	41	3	90	74	31	38	44	M
Marion	859	40	0	90	73	31	38	44	M
Muncie	937	40	2	90	73	25	32	38	M

<b>Location</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
				<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>
Peru, Bunker Hill AFB	737	40	-1	88	73	29	36	42	M
Peru, Grissom AFB	810	40	4	89	75	39	46	52	M
Richmond AP	1140	39	2	90	74	31	48	44	M
Shelbyville	804	39	3	91	74	30	37	43	M
South Bend AP	774	41	3	87	72	24	31	32	M
Terre Haute AP	585	39	5	90	76	44	51	57	M
Valparaiso	771	41	3	90	74	31	38	44	M
Vincennes	414	38	6	92	74	28	30	41	M
<b>Iowa</b>									
Ames	955	42	-6	90	74	31	38	44	M
Burlington AP	692	40	1	91	76	42	49	55	M
Cedar Rapids AP	863	41	-5	89	74	33	40	46	M
Clinton	708	41	-3	90	75	38	45	51	M
Council Bluffs	1253	41	-3	91	75	36	43	49	M
Des Moines AP	938	41	-4	90	74	31	38	44	M
Debuque	1056	42	-7	88	73	29	36	42	M
Fort Dodge	1162	42	-7	88	73	29	36	42	M
Iowa City	661	41	-6	89	76	46	53	59	M
Keokuk	671	40	0	92	75	34	41	47	M
Lamoni	1122	40	0	92	74	28	35	45	M
Marshalltown	974	42	-7	90	75	38	45	51	M
Mason City AP	1213	43	-10	88	73	29	36	42	M
Newton	953	41	-5	91	74	30	37	43	M
Ottumwa AP	846	41	0	92	75	34	41	47	M
Sioux City AP	1095	42	-6	90	74	31	38	44	M
Spencer	1339	43	-11	88	73	29	36	41	M
Waterloo	868	42	-9	88	73	29	36	41	M
<b>Kansas</b>									
Atchison	1073	39	2	93	76	39	46	52	M
Chante AP	981	34	7	97	74	20	27	33	M
Concordia	1483	39	3	96	72	10	17	23	M
Dodge City AP	2582	37	6	97	70	-3	4	10	M
El Dorado	1378	37	7	98	73	12	19	25	M
Emporia	1206	38	5	97	74	20	27	33	M
Garden City AP	2890	38	4	97	69	-9	-2	4	H
Goodland AP	3654	39	2	94	66	-17	-10	-4	H
Great Bend	1887	38	4	98	73	12	19	25	H
Hutchinson AP	1542	38	8	99	72	5	12	18	H
Liberal	2883	37	7	96	68	-12	-5	1	H
Manhattan, Fort Riley	1065	39	5	96	74	22	29	35	M
Parsons	899	37	9	97	74	20	27	33	M
Russel AP	1864	38	3	96	72	10	17	23	H
Salina	1272	38	4	97	73	14	21	27	H
Topeka AP	877	39	4	93	75	33	40	46	M
Wichita AP	1321	37	8	97	73	21	21	27	M
Wichita, McConnell AFB	1371	37	10	97	73	21	21	27	M
<b>Kentucky</b>									
Ashland	546	38	10	91	74	30	37	43	M
Bowling Green AP	547	37	14	91	75	36	43	49	M
Corbin AP	1188	37	9	92	73	23	29	36	M
Covington AP	869	39	7	89	73	27	34	40	M

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
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Fort Knox, Godman AAF	753	37	15	92	74	28	35	41	M
Hopkinsville, Campbell AFB	571	15	15	93	76	39	46	52	M
Jackson	1381	37	14	87	73	30	37	43	M
Lexington AP	966	38	10	89	73	27	34	40	M
Louisville AP	477	38	12	90	75	38	45	51	M
Madisonville	439	37	10	93	75	33	40	46	M
Owensboro	407	37	10	94	75	31	38	44	M
Paducah AP	413	37	12	93	76	39	46	52	M
<b>Louisiana</b>									
Alexandria AP	89	31	30	94	78	51	58	64	M
Baton Rouge AP	64	30	30	92	77	47	54	60	M
Bogalusa	119	30	28	93	77	46	53	59	M
Bossier City, Barksdale AFB	167	32	27	94	77	44	51	57	M
Houma	9	29	35	93	78	52	59	65	L
Lafayette AP	42	30	32	93	78	52	59	65	M
Lake Charles AP	9	30	32	91	78	56	63	69	M
Leesville, Fort Polk	330	31	30	94	76	37	44	50	M
Minden	278	32	25	96	76	34	41	47	M
Monroe AP	79	32	27	94	78	51	58	64	M
Natchitoches	121	31	26	95	77	42	49	55	M
New Orleans AP	4	30	34	92	78	54	61	67	M
New Orleans, Lakefront AP	10	30	39	92	78	54	61	67	L
Shreveport	254	32	26	95	77	42	49	55	M
<b>Maine</b>									
Augusta AP	353	44	1	84	69	12	19	25	M
Bangor, Dow AFB	192	44	-2	84	69	12	19	25	M
Brunswick, NAS	75	43	2	84	69	12	19	25	M
Caribou AP	624	46	-10	82	67	5	12	18	M
Lewiston	358	44	-2	85	70	15	22	29	M
Limestone, Loring AFB	745	46	-9	80	66	3	10	16	M
Millinocket AP	413	45	-9	83	68	8	15	21	M
Portland	43	43	2	83	70	19	26	32	M
Waterville	333	44	-4	84	69	12	19	25	M
<b>Maryland</b>									
Baltimore AP	148	39	15	91	74	30	37	43	M
Baltimore CO	24	39	17	89	76	46	53	59	M
Cumberland	790	39	10	89	74	33	40	46	M
Fredrick AP	313	39	12	91	75	36	43	49	M
Hagerstown	704	39	12	91	74	30	37	43	M
Lex Park, Patuxent River NAS	39	38	21	90	75	38	45	51	M
Salisbury	52	38	18	90	76	44	50	56	M
<b>Massachusetts</b>									
Boston AP	20	42	12	87	71	19	26	32	M
Clinton	366	42	2	87	71	18	24	31	M
East Falmouth, Otis Anbg	132	41	14	82	72	32	39	45	M
Fall River	190	41	9	84	71	23	30	36	M
Framingham	197	42	6	86	71	22	29	35	M
Gloucester	11	42	5	86	71	19	25	32	L
Greenfield	250	42	-2	85	71	21	27	34	M
Lawrence	148	42	0	87	72	24	31	37	M

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
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Lowell	102	42	1	88	72	21	28	34	M
New Bedford	80	41	9	82	71	27	34	40	M
Pitsfield AP	1194	42	-3	84	70	18	25	31	M
Springfield, Westover AFB	195	42	0	87	71	19	26	32	M
Tauton	43	41	9	86	72	26	33	39	M
Weymouth, S. Weymouth NAS	161	42	11	87	72	24	31	37	M
Worcester AP	986	42	5	83	69	14	21	27	M
<b>Michigan</b>									
Adrian	798	41	3	88	72	23	30	36	M
Alpena AP	689	45	-1	84	69	12	19	25	H
Battle Creek AP	941	42	5	88	72	23	30	36	M
Benton Harbor AP	643	42	5	88	72	23	30	36	M
Detroit	619	42	5	87	72	24	31	37	M
Escanaba	609	45	-7	83	69	14	21	27	M
Flint AP	771	42	3	86	71	20	27	33	M
Grand Rapids AP	784	42	5	86	71	20	27	33	M
Hancock	1091	47	-4	83	69	14	21	27	M
Harbour Beach	600	44	12	86	69	9	16	22	M
Holland	603	42	6	86	71	20	27	33	M
Jackson AP	1001	42	4	86	73	32	39	45	M
Kalamazoo	874	42	5	88	72	23	30	36	M
Lansing AP	841	42	2	86	72	26	33	39	M
Marquette CO	1424	46	-8	82	67	5	12	18	M
Marquette, Sawyer AFB	1220	46	-6	83	69	14	21	27	M
Mount Clemens ANGB	583	42	7	87	72	24	31	37	M
Mt. Pleasant	755	43	4	87	72	24	31	37	M
Muskegon AP	625	43	7	83	70	19	26	32	H
Oscoda, Wurtsmith AFB	634	44	3	86	71	20	27	33	M
Pellston	719	45	-3	86	69	9	16	22	H
Pontiac	980	42	4	87	72	24	31	37	M
Port Huron	586	43	4	87	72	24	31	37	H
Saginaw AP	667	43	4	87	72	24	31	37	M
Sault Ste. Marie AP	721	46	-7	80	68	13	20	26	M
Seul Choix Point	591	45	4	76	65	4	11	17	M
Traverse City AP	624	44	2	86	70	14	21	27	M
Ypsilanti	716	42	5	89	71	15	22	28	M
<b>Minnesota</b>									
Albert Lea	1259	43	-12	87	72	24	31	37	M
Alexandria AP	1424	45	-15	86	70	14	21	27	M
Bemidji AP	1389	47	-26	85	69	11	18	24	M
Brainerd	1280	46	-17	85	68	5	12	18	M
Duluth AP	1428	46	-16	81	67	6	13	19	M
Fairbault	1060	44	-12	88	72	23	30	36	M
Fergus Falls	1182	46	-17	88	72	23	30	36	M
Hibbing	1352	47	-20	81	68	12	19	25	M
International Falls AP	1179	48	-23	83	67	3	10	16	M
Mankato	1020	44	-12	88	72	23	30	36	M
Minneapolis/St. Paul AP	834	44	-11	88	71	17	24	30	M
Redwood Falls	1024	44	-12	88	72	23	30	36	M
Rochester AP	1297	44	-12	85	71	22	29	35	M
St. Cloud AP	1024	45	-14	88	71	17	24	30	M
Tofte	791	47	-6	75	62	-9	-2	4	M

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
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Virginia	909	47	-21	83	68	8	15	22	M
Willmar	1127	45	-11	88	72	23	30	36	M
Winona	656	44	-10	88	73	29	36	42	M
<b>Mississippi</b>									
Biloxi, Keesler AFB	26	30	35	91	78	56	63	69	M
Clarksdale	173	34	19	94	77	44	51	57	M
Columbus AFB	219	33	25	94	76	37	44	50	M
Greenville AFB	131	33	20	93	77	46	53	59	M
Greenwood	154	33	24	94	78	51	58	64	M
Hattiesburg	151	31	27	94	77	44	51	57	M
Jackson AP	310	32	25	93	76	36	46	52	M
Laurel	238	31	27	94	77	44	51	57	M
McComb AP	413	31	28	92	76	41	48	54	M
Meridian AP	317	32	25	94	76	37	44	50	M
Natchez	272	31	27	94	78	51	58	64	M
Tupelo	361	34	22	94	76	37	44	50	M
Vicksburg CO	106	32	26	95	78	49	56	62	M
<b>Missouri</b>									
Cape Giradeau	341	37	13	94	77	44	51	57	M
Columbia AP	778	39	5	92	75	34	41	47	M
Farmington AP	946	37	8	93	75	33	40	46	M
Hannibal	712	39	3	93	76	39	46	52	M
Jefferson City	770	38	7	95	74	23	30	36	M
Joplin AP	980	37	11	94	75	31	38	44	M
Kansas City AP	791	39	4	93	75	33	40	46	M
Kirksville AP	966	40	0	93	74	27	34	40	M
Mexico	823	39	4	94	74	25	32	38	M
Moberly	867	39	3	94	74	25	32	38	M
Poplar Bluff	479	36	13	92	76	41	48	54	M
Rolla	987	38	9	91	75	36	43	49	M
St. Joseph AP	825	39	2	93	76	39	46	52	M
St. Louis AP	535	38	8	93	75	33	40	46	M
St. Louis CO	580	38	8	94	75	31	38	44	M
Sedalia, Whiteman AFB	909	38	4	92	76	41	48	54	M
Sikeston	315	36	15	95	76	36	43	49	M
Spickard/Trenton	886	40	6	93	73	20	27	33	M
Springfield AP	1268	37	9	92	74	28	35	41	M
Warrensburg, Whiteman AFB	869	38	7	93	76	39	46	52	M
<b>Montana</b>									
Billings AP	3567	45	-7	90	62	-31	-24	-18	H
Bozeman	4475	45	-12	87	60	-36	-29	-23	H
Butte AP	5553	46	-14	84	56	-51	-44	-38	H
Cut Bank AP	3838	48	-16	84	59	-36	-29	-23	H
Glasgow AP	2760	48	-17	90	63	-28	-21	-15	H
Glendive	2456	47	-13	92	64	-26	-19	-13	H
Great Falls AP	3652	47	-13	88	60	-38	-31	-25	H
Great Falls, Malmstrom AFB	3525	47	-11	89	61	-11	-4	2	H
Havre	3200	48	-19	90	62	-33	-26	-20	H
Helena AP	3828	46	-10	87	59	-41	-34	-28	H
Kalispell AP	6780	48	-3	86	61	-29	-22	-16	H
Lewiston	4122	47	-12	86	60	-27	-27	-21	H

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH
Livingston AP	4654	45	-14	87	60	-36	-29	-23	H
Miles City AP	2634	46	-13	93	65	-23	-16	-10	H
Missoula AP	3190	46	-1	88	61	-33	-26	-20	H
<b>Nebraska</b>									
Beatrice	1323	40	-2	95	74	28	35	41	M
Bellevue, Offutt AFB	1047	41	1	91	75	36	43	49	M
Chadron AP	3296	42	-3	94	65	-22	-15	-9	H
Columbus	1443	41	-2	95	73	17	24	30	M
Fremont	1203	41	-2	95	74	23	30	36	M
Grand Island AP	1841	41	-2	93	72	15	22	28	H
Hastings	1954	40	-3	94	71	7	14	20	H
Kearney	2131	40	-4	93	70	3	10	16	H
Lincoln CO	1180	40	-2	94	74	25	32	38	M
McCook	2579	40	-2	95	69	-11	-4	2	H
Norfolk	1552	42	-5	92	72	16	23	29	H
North Platte AP	2775	41	-4	92	69	-1	6	12	H
Omaha AP	977	41	-2	92	75	34	41	47	M
Omaha WSO	1332	41	-2	90	75	38	45	51	M
Scottsbluff	3958	41	-3	92	64	-25	-18	-12	H
Sidney AP	4304	41	-1	92	63	-29	-22	-16	H
Valentine	2598	42	-8	94	67	-15	-8	-2	H
<b>Nevada</b>									
Carson City	4675	39	9	91	59	-47	-40	-34	H
Elko AP	5050	40	1	92	59	-48	-41	-35	H
Ely AP	6263	39	0	87	56	-55	-48	-42	H
Las Vegas AP	2162	36	30	106	66	-39	-32	-26	H
Lovelock AP	3904	40	12	96	63	-35	-28	-22	H
Mercury	3310	36	28	100	64	-38	-31	-25	H
North Las Vegas, Nellis AFB	1868	36	31	106	67	-34	-27	-21	H
Reno AP	4412	39	13	92	60	-44	-37	-31	H
Reno CO	5046	39	11	93	60	-45	-38	-32	H
Tonapath AP	5426	38	13	92	57	-58	-51	-45	H
Winnemucca AP	4301	40	7	94	60	-48	-41	-35	H
<b>New Hampshire</b>									
Berlin	1161	44	-9	84	69	12	19	25	M
Claremont	545	43	-4	86	70	14	21	27	M
Concord AP	342	43	-2	87	70	13	20	26	H
Keene	488	43	-7	87	70	13	20	26	M
Laconia	545	43	-5	86	70	14	21	27	M
Lebanon	597	43	-3	86	69	9	16	22	M
Manchester, Grenier AFB	234	43	-3	88	71	17	24	30	M
Mount Washington	6266	44	-19	58	54	-18	-11	-5	L
Portsmouth, Pease AFB	101	43	9	85	70	16	23	29	M
<b>New Jersey</b>									
Atlantic City CO	64	39	13	88	73	29	36	42	M
Long Branch	36	40	13	90	73	24	30	37	M
Millville	82	39	15	89	74	33	40	46	M
Newark AP	7	40	14	90	73	25	32	38	M
New Brunswick	100	40	10	89	73	25	32	38	M
Patterson	186	40	10	91	73	22	29	35	M

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH
Phillipsburg	314	40	6	89	72	20	27	33	M
Teterboro	9	40	14	89	74	33	40	46	M
Trenton, McQuire AFB	133	40	15	90	74	31	38	44	M
Vineland	88	39	11	89	74	33	40	46	M
<b>New Mexico</b>									
Alamagordo Holloman AFB	4093	32	23	96	63	-36	-29	-23	H
Albuquerque AP	5311	35	18	93	60	-46	-39	-33	H
Artesia	3548	32	19	100	67	-21	-14	-8	H
Carlsbad AP	3293	32	23	98	66	-23	-16	-10	H
Clayton	4970	36	9	91	62	-33	-26	-20	H
Clovis, Cannon AFB	4295	34	15	93	64	-26	-19	-13	H
Farmington AP	5503	36	13	92	60	-57	-50	-44	H
Gallup	6470	35	5	87	56	-55	-48	-42	H
Grants	6521	35	4	88	58	-47	-40	-34	H
Hobbs AP	3659	32	18	99	66	-25	-18	-12	H
Las Cruces	4544	32	20	96	64	-30	-23	-17	H
Los Alamos	6089	35	9	87	60	-36	-27	-19	H
Raton AP	6349	36	1	89	60	-38	-31	-25	H
Roswell, Walker AFB	3676	33	20	96	65	-26	-19	-13	H
Santa Fe CO	6345	35	10	88	61	-32	-25	-19	H
Silver City AP	6126	32	10	94	60	-47	-40	-34	H
Socorro AP	4850	34	17	95	62	-38	-31	-25	H
Truth of Consequences	4858	33	26	95	61	-43	-36	-30	H
Tucumcari AP	4039	35	15	95	65	-24	-17	-11	H
<b>New York</b>									
Albany AP	285	42	-2	86	70	14	21	27	M
Albany CO	275	42	1	88	72	23	30	36	M
Auburn	417	43	2	87	71	18	24	31	M
Bafavia	913	43	5	87	71	19	26	32	M
Binghampton AP	1590	42	2	82	69	15	22	28	M
Buffalo AP	705	43	5	84	69	12	19	25	M
Central Islip	98	40	15	85	72	28	35	41	M
Cortland	1198	42	0	85	71	22	29	35	M
Dunkirk	692	42	9	85	72	28	35	41	M
Elmira AP	955	42	3	87	71	19	26	32	M
Geneva	417	42	2	87	71	18	24	31	M
Glens Falls	328	43	-4	85	71	22	29	35	M
Gloversville	417	43	-2	86	71	19	26	33	M
Hornell	1220	42	0	85	70	16	23	29	M
Ithaca	1099	42	0	85	71	22	29	35	M
Jamestown	1723	42	3	86	70	14	21	27	M
Kingston	149	42	2	88	72	23	30	36	M
Lockport	638	43	7	86	72	26	33	39	M
Massena AP	213	44	-10	84	71	23	30	36	M
Newburg-Stewart AFB	471	41	10	85	72	28	35	41	M
NYC-Central Park	7	40	15	89	73	27	34	40	M
NYC-Kennedy AP	13	40	15	88	72	23	30	36	M
NYC-La Guardia AP	22	40	17	89	73	27	34	40	M
Niagra Falls AP	590	43	7	85	71	22	29	35	M
Olean	2135	42	2	84	71	23	30	36	M
Oneonta	1764	42	-4	83	69	14	21	27	M
Oswego	300	43	7	83	71	25	32	38	M

<b>Location</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
				<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>
Plattsburg AFB	235	44	-4	83	69	14	21	27	M
Poughkeepsie	165	41	6	88	72	23	30	36	M
Rochester AP	547	43	5	86	71	20	27	33	M
Rome-Griffiss AFB	514	43	1	86	70	14	21	27	M
Schenectady	378	42	1	87	72	24	31	37	M
Suffolk County AFB	67	40	10	83	71	25	32	38	M
Syracuse AP	410	43	2	85	71	22	29	35	M
Utica	742	43	-6	85	71	22	29	35	M
Watertown	325	44	-6	83	70	19	26	32	M
White Plains	439	41	12	87	72	24	31	37	M
<b>North Carolina</b>									
Asheville AP	2140	35	16	85	71	22	29	35	M
Cape Hatteras	7	35	29	86	77	57	64	70	L
Charlotte AP	736	35	23	91	74	30	37	43	M
Cherry Point MCAS	29	34	28	92	78	54	61	67	M
Durham	427	36	20	92	75	33	40	46	M
Elizabeth City AP	12	36	19	91	77	49	56	62	M
Fayetteville, Pope AFB	218	35	27	94	76	37	44	50	M
Goldsboro, Seymour	154	35	27	94	76	35	42	49	
Goldsboro, Johnson AFB	108	35	27	94	76	35	42	49	M
Greensboro AP	897	36	19	90	74	30	37	43	M
Greenville	27	35	21	91	76	42	49	55	M
Henderson	2084	36	15	92	76	41	48	54	M
Hickory	1188	35	23	91	72	18	25	31	M
Jacksonville	26	34	27	93	78	54	61	67	M
Lumberton	126	34	21	93	76	41	48	54	M
New Bern AP	19	35	27	93	78	54	61	67	M
Raleigh/Durham AP	434	35	20	90	75	38	45	51	M
Rocky Mount	159	36	21	91	76	42	49	55	M
Wilmington AP	28	34	27	91	78	56	63	69	M
Winston-Salem AP	969	36	23	89	74	33	40	46	M
<b>North Dakota</b>									
Bismarck AP	1647	46	-16	90	67	-8	-1	5	H
Devil's Lake	1453	48	-19	87	67	-3	4	10	M
Dickinson AP	2585	46	-17	90	66	-13	-6	0	M
Fargo AP	869	46	-17	88	70	11	18	24	M
Grands Forks AP	911	48	-16	88	69	6	13	19	M
Jamestown AP	1498	47	-18	90	69	3	10	16	H
Minot AP	1668	48	-16	88	66	-10	-3	3	M
Minot AFB	1667	48	-16	90	67	-8	-1	5	H
Williston	1906	48	-18	92	66	-16	-9	-3	M
<b>Ohio</b>									
Akron-Canton AP	1228	41	5	85	71	22	29	35	M
Ashtabula	924	41	9	85	72	28	35	41	M
Athens	766	39	6	92	74	28	35	41	M
Bowling Green	673	41	2	89	73	27	34	40	M
Cambridge	800	40	7	90	74	31	38	44	M
Chillicothe	640	39	6	92	74	28	35	41	M
Cincinnati, Lunken Field	869	39	12	90	75	38	45	51	M
Cleveland AP	777	41	6	86	72	26	33	39	M
Columbus AO	812	40	6	88	73	29	36	42	M

Location	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Columbus, Rickenbckr AFB	744	39	10	89	73	27	34	40	40	M
Dayton AP	1002	39	5	88	73	29	36	42	42	M
Dayton, Wright/Paterson AFB	824	39	8	89	74	33	40	46	46	M
Defiance	708	41	4	91	73	24	31	37	37	M
Finlay AP	810	41	4	87	72	24	31	37	37	M
Fremont	663	41	1	88	73	29	36	42	42	M
Hamilton	634	39	5	90	72	19	26	32	32	M
Lancaster	869	39	5	91	73	24	31	37	37	M
Lima	975	40	4	91	73	24	31	37	37	M
Mansfield AP	1295	40	4	85	72	28	35	41	41	M
Marion	994	40	5	91	73	24	31	37	37	M
Middletown	651	39	5	90	72	19	26	32	32	M
Newark	880	40	5	92	73	22	29	35	35	M
Norwalk	852	41	1	88	73	29	36	42	42	M
Portsmouth	540	38	10	92	74	28	35	41	41	M
Sandusky CO	580	41	6	91	72	18	25	31	31	M
Springfield	1052	40	3	89	73	27	34	40	40	M
Stubenville	1194	40	5	86	71	20	27	33	33	M
Toledo AP	669	41	3	87	72	24	31	37	37	M
Warren	905	41	5	87	71	19	26	32	32	M
Wooster	1136	40	6	86	71	20	27	33	33	M
Youngstown AP	1178	41	4	85	70	16	23	29	29	M
Zanesville	900	40	9	88	73	29	36	42	42	M
<b>Oklahoma</b>										
Ada	1016	34	14	97	74	20	27	33	33	M
Altus AFB	1378	34	19	100	73	9	16	22	22	M
Ardmore	844	34	17	98	74	18	25	31	31	M
Bartlesville	713	36	10	98	74	18	25	31	31	M
Chickasha	1150	35	14	98	74	18	25	31	31	M
Enid-Vance AFB	1307	36	13	98	74	18	25	31	31	M
Lawton AP	1188	34	19	97	73	14	21	27	27	M
McAlester	776	34	17	96	76	34	41	47	47	M
Muskogee AP	610	35	15	98	75	25	32	38	38	M
Norman	1181	35	13	96	74	22	29	35	35	M
Oklahoma City AP	1262	35	17	96	75	28	35	41	41	M
Oklahoma City, W. Roger AP	1285	35	15	96	74	22	29	35	35	M
Ponca City	1007	36	9	97	74	20	27	33	33	M
Seminole	1021	35	15	96	74	22	29	41	41	M
Stillwater	984	36	13	96	74	22	29	41	41	M
Tulsa AP	650	36	14	97	76	33	40	46	46	M
Woodward	2188	36	10	97	73	14	21	27	H	
<b>Oregon</b>										
Albany	223	44	22	89	66	-12	-5	1	1	H
Astoria AP	8	46	29	72	63	0	-7	-13	-13	M
Baker AP	2269	44	6	89	61	-35	-28	-22	-22	H
Bend	3453	44	4	87	60	-36	-29	-23	-23	H
Corvallis	246	44	22	89	66	-12	-5	1	1	H
Eugene AP	359	44	26	87	65	-14	-7	-1	-1	H
Grants Pass	925	42	24	96	68	-12	-5	1	1	H
Hillsboro	203	45	24	88	67	-5	2	8	8	H
Klamath Falls AP	4092	42	10	87	62	-26	-19	-13	-13	H
Meacham	4055	45	0	84	58	-41	-34	-28	-28	H

Location	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Medford AP	1298	42	24	95	66	-21	-14	-8	-8	H
North Bend	748	43	32	69	60	-8	-1	5	M	
Pendleton AP	1482	45	11	93	63	-33	-26	-20	H	
Portland AP	30	45	27	86	66	-7	0	6	M	
Portland CO	35	45	24	86	67	-2	5	11	M	
Redmond	3084	44	9	89	61	-35	-28	-22	H	
Roseburg AP	525	43	23	90	66	-13	-6	0	H	
Salem AP	196	45	25	87	66	-8	-1	5	H	
Sexton Summit	3842	42	24	80	59	-30	-23	-17	M	
The Dalles	243	45	19	89	68	-1	6	12	H	
<b>Pennsylvania</b>										
Allentown AP	387	40	10	88	72	23	30	36	M	
Altoona CO	1504	40	10	86	70	14	21	27	M	
Bradford	2142	41	-1	80	68	13	20	26	M	
Butler	1248	40	6	87	72	24	31	37	M	
Chambersburg	697	40	8	90	74	31	38	44	M	
DuBois	1818	41	5	84	69	12	19	25	M	
Erie AP	731	42	7	83	70	19	26	32	M	
Harrisburg AP	308	40	13	89	73	27	34	40	M	
Johnstown	2284	40	2	83	70	19	26	32	M	
Lancaster	403	40	8	90	74	31	38	44	M	
Meadville	1400	41	4	85	70	16	23	29	M	
New Castle	825	41	7	88	72	23	30	36	M	
Philadelphia AP	5	39	15	89	74	33	40	46	M	
Philadelphia, Northeast AP	121	40	15	90	74	31	38	44	M	
Philadelphia, Willow Gr NAS	361	40	14	90	74	31	38	44	M	
Pittsburgh AP	1137	40	7	86	70	14	21	27	M	
Pittsburgh, Allegheny AP	1353	40	7	88	71	17	24	30	M	
Reading CO	266	40	13	89	72	21	28	34	M	
Scranton/Wilkes-Barre	930	41	7	85	70	16	20	26	M	
State College	1239	40	7	87	71	19	26	32	M	
Sunbury	430	40	7	89	72	21	28	34	M	
Uniontown	815	39	9	88	73	29	36	42	M	
Warren	1193	41	4	86	71	20	27	33	M	
West Chester	466	40	13	89	74	33	40	46	M	
Williamsport AP	524	41	7	87	71	19	26	32	M	
York	480	40	12	91	74	30	37	43	M	
<b>Rhode Island</b>										
Newport	10	41	9	85	72	28	35	41	M	
Providence AP	51	41	10	86	71	20	27	33	M	
<b>South Carolina</b>										
Anderson	782	34	23	92	74	28	35	41	M	
Beaufort, MCAS	38	32	31	93	78	52	59	65	M	
Charleston AFB	45	32	28	92	77	47	54	60	M	
Charleston CO	3	32	28	92	78	54	61	67	L	
Columbia AP	213	34	24	94	75	31	38	44	M	
Florence AP	147	34	27	94	76	37	44	50	M	
Georgetown	14	33	26	90	78	57	64	70	M	
Greenville AP/Greer	957	34	23	91	74	30	37	43	M	
Greenwood	631	34	22	93	74	27	34	40	M	
Myrtle Beach AFB	25	33	29	90	78	57	64	70	M	

Location	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Orangeburg	197	33	24	95	75	29	36	42	M	
Rock Hill	667	35	23	94	74	25	32	38	M	
Spartanburg AP	801	35	22	91	74	30	37	43	M	
Sumter-Shaw AFB	252	34	29	93	75	33	40	46	M	
<b>South Dakota</b>										
Aberdeen AP	1296	45	-15	91	72	18	25	31	H	
Brookings	1647	44	-13	92	72	16	23	29	M	
Chamberlain	1739	43	-7	94	71	7	14	20	H	
Huron AP	1281	44	-12	91	71	12	19	25	H	
Mitchell	1303	43	-10	93	71	9	16	22	H	
Pierre AP	1742	44	-9	95	69	-6	1	7	H	
Rapid City AP	3162	44	-5	91	65	-18	-11	-5	H	
Sioux Falls AP	1418	43	-11	90	72	19	26	32	M	
Watertown AP	1748	45	-15	91	72	18	25	31	H	
Yankton	1305	43	-7	91	72	28	35	41	M	
<b>Tennessee</b>										
Athens	858	33	18	92	73	22	29	35	M	
Bristol-Tri City AP	1507	36	14	87	72	24	31	37	M	
Chattanooga AP	665	35	20	92	75	34	41	47	M	
Clarksville	550	36	12	93	74	27	34	40	M	
Columbia	681	35	15	94	74	25	32	38	M	
Crossville	1880	35	15	87	722	24	31	37	M	
Dyersburg	338	36	15	94	77	44	51	57	M	
Greenville	1608	35	16	90	72	19	26	32	M	
Jackson AP	433	35	18	93	76	39	46	52	M	
Knoxville AP	980	35	19	90	74	31	38	44	M	
Memphis AP	258	35	21	94	77	44	51	57	M	
Murfreesboro	615	35	14	94	74	25	32	38	M	
Nashville AP	590	36	16	92	75	34	41	47	M	
Tullahoma	1072	35	13	93	73	20	27	33	M	
<b>Texas</b>										
Abilene AP	1790	32	22	97	71	2	9	15	M	
Alice AP	178	27	34	98	77	37	44	50	M	
Amarillo AP	3604	35	12	94	66	-17	-10	-4	H	
Austin AP	597	30	30	96	74	22	29	35	M	
Bay City	45	29	33	94	77	59	66	72	M	
Beaumont	16	30	32	92	79	61	68	74	M	
Beeville	190	28	33	98	77	37	44	50	M	
Big Springs AP	2561	32	20	97	69	-9	-2	4	M	
Brownsville AP	19	25	40	94	77	44	51	57	H	
Brownwood	1386	31	22	99	73	11	18	24	M	
Bryan AP	322	30	29	96	75	28	35	41	M	
Corpus Christi AP	19	27	36	94	78	51	58	64	M	
Corsicana	448	32	25	98	75	25	32	38	M	
Dallas, Fort Worth AP	537	32	24	98	74	18	35	31	M	
Del Rio, Laughlin AFB	1026	29	32	98	73	12	19	25	M	
Denton	642	33	22	99	74	17	24	30	M	
Eagle Pass	884	28	32	99	73	11	18	24	M	
El Paso AP	3918	31	25	98	64	-33	-26	-20	H	
Fort Worth, Carswel AFB	650	32	22	99	74	17	24	30	M	
Fort Worth, Meacham Field	709	32	24	98	74	18	25	31	M	

<b>Location</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
				<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>
Galveston AP	7	29	36	89	79	51	58	64	L
Greenville	535	33	22	99	74	17	24	30	M
Guadalupe Pass	5453	31	19	89	60	-39	-32	-26	M
Harlingen	35	26	39	94	77	44	51	57	M
Houston AP	96	29	31	94	77	44	51	57	M
Houston, Hobby AP	46	29	34	93	77	46	53	59	M
Huntsville	363	30	27	98	75	25	32	38	M
Junction	1713	30	23	98	71	1	8	14	H
Kileen-Gray AFB	1014	31	27	96	73	16	23	29	M
Kingsville, NAS	50	27	36	96	78	47	54	60	M
Lamesa	2998	32	17	96	69	-7	0	6	H
Laredo AFB	512	27	36	101	74	14	21	27	M
Longview	365	32	24	97	76	33	40	46	M
Lubbock AP	3254	33	17	95	67	-13	-6	0	H
Lubbock, Reese AFB	3338	33	18	95	67	-14	-7	-1	H
Lufkin AP	277	31	27	95	77	42	49	55	M
Marfa	4859	30	19	92	61	-39	-32	-26	H
McAllen	108	26	40	98	76	31	38	44	M
Midland AP	2851	32	22	97	67	-19	-12	-6	H
Mineral Wells AP	972	32	22	99	74	17	24	30	M
Palestine CO	422	31	27	98	76	31	38	44	M
Pampa	3244	35	12	96	67	-15	-8	-2	H
Pecos	2611	31	21	98	69	-10	-3	3	H
Plainview	3374	34	13	96	68	-10	-3	3	H
Port Arthur AP	16	30	31	93	78	52	59	65	M
San Angelo, Goodfellow AFB	1877	31	24	97	70	-3	4	10	M
San Antonio AP	788	29	30	96	73	16	23	29	M
San Antonio, Kelly AFB	690	29	32	97	74	20	27	33	M
San Antonio, Randolph AFB	761	29	31	96	74	22	29	35	M
Sanderson	2838	30	28	95	68	-11	-4	2	M
Sherman-Perrin AFB	763	33	20	98	75	25	32	38	M
Snyder	2430	32	18	98	70	-5	2	8	M
Temple	682	31	27	99	74	17	24	30	M
Tyler AP	544	32	24	97	76	33	40	46	M
Vernon	1264	34	17	100	73	9	16	22	M
Victoria AP	115	28	33	94	76	37	44	50	M
Waco AP	501	31	26	99	75	23	30	36	M
Wichita Falls AP	994	34	19	100	73	9	16	22	M
<b>Utah</b>									
Cedar City AP	5626	37	8	91	59	-47	-40	-34	H
Logan	4454	41	2	91	61	-37	-30	-24	H
Moab	4553	38	11	98	60	-53	-46	-40	H
Ogden, Hill AFB	4785	41	11	90	60	-41	-34	-28	H
Price	5921	39	5	91	60	-42	-35	-29	H
Provo	4448	40	6	96	62	-40	-33	-27	H
Richfield	5279	38	5	91	60	-42	-35	-29	H
St. George CO	2941	37	21	101	65	-36	-29	-23	H
Salt Lake City AP	4220	40	11	94	62	-37	-37	-24	H
Vernal AP	5274	40	0	89	60	-39	-39	-26	H
<b>Vermont</b>									
Barre	1165	44	-11	81	69	17	24	30	M
Burlington AP	332	44	-6	84	69	12	19	25	M

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
				Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Montpelier/Barre	1165	44	-6	83	68	8	15	21	M
Rutland	787	43	-8	84	70	18	25	31	M
<b>Virginia</b>									
Charlottesville	870	38	18	91	74	30	37	43	M
Danville AP	572	36	16	92	73	22	29	35	M
Fort Belvoir	69	38	18	93	76	39	46	52	M
Fredricksburg	85	38	14	93	75	33	40	46	M
Hampton, Langley AFB	10	37	24	91	77	49	56	62	M
Harrisonburg	1201	38	16	91	72	18	25	31	M
Lynchburg AP	916	37	17	90	74	31	38	44	M
Newport News	41	37	22	92	77	47	54	60	M
Norfolk AP	22	36	24	91	76	42	49	55	M
Oceana NAS	22	36	25	91	76	42	49	55	M
Petersburg	193	37	17	92	76	41	48	54	M
Quantico MCAS	12	38	21	92	76	41	48	54	M
Richmond AP	164	37	18	92	75	34	41	47	M
Roanoke AP	1193	37	17	89	72	21	28	34	M
Staunton	1201	38	16	91	72	18	25	31	M
Sterling	322	38	14	90	74	31	38	44	M
Washington, National AP	66	38	20	92	76	41	48	54	M
Winchester	727	39	10	90	74	31	38	44	M
<b>Washington</b>									
Aberdeen	12	47	28	77	62	-12	-5	1	M
Bellingham AP	158	48	21	76	64	-1	6	12	M
Bremerton	7	47	25	78	64	-4	3	9	M
Ellensburg AP	1760	47	6	91	64	-25	-18	-12	H
Everett-Paine AFB	596	47	25	76	64	-1	6	12	M
Hanford	732	46	12	96	65	-28	-21	-15	H
Kennewick	531	46	11	96	67	-18	-11	-5	H
Longview	12	46	24	85	67	0	7	13	H
Moses Lake, Larson AFB	1185	47	7	94	65	-25	-18	-12	H
Olympia AP	215	47	23	83	65	-7	0	6	H
Port Angeles	288	48	27	69	61	-4	3	9	M
Quillayute	201	47	27	74	61	-12	-5	1	M
Seattle-Boeing Fld	18	47	28	81	64	-9	-2	4	M
Seattle CO	14	47	27	82	66	0	7	13	M
Seattle-Tacoma AP	429	47	26	80	64	-7	0	6	M
Spokane AP	2366	47	7	89	61	-36	-29	-23	M
Stampede Pass	3967	47	10	74	56				M
Tacoma-McChord AFB	322	47	24	82	63	-15	-8	-2	M
Walla Walla AP	1206	46	12	95	65	-26	-19	-13	H
Wenatchee	1243	47	9	92	65	-21	-14	-8	H
Yakima AP	1052	46	11	92	64	-26	-19	-13	H
<b>West Virginia</b>									
Beckley	2504	37	4	81	69	17	24	30	M
Bluefield AP	2858	37	12	83	69	14	21	27	M
Charleston AP	939	38	11	88	73	29	36	42	M
Clarksburg	1203	39	10	90	73	25	32	38	M
Elkins AP	1948	38	5	83	70	19	26	32	M
Huntington CO	828	38	11	89	73	27	34	40	M
Martinsburg AP	556	39	14	91	73	24	33	39	M

<b>Location</b>	<b>Elevation</b> <b>Feet</b>	<b>Latitude</b> <b>Degrees North</b>	<b>Winter</b>		<b>Summer</b>					
			<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>	<b>Daily Range (DR)</b>	
Morgantown AP	1247	39	11	87	71	19	26	32	H	
Parkersburg CO	858	39	11	88	72	23	32	38	M	
Wheeling	1195	40	5	86	71	20	27	33	M	
<b>Wisconsin</b>										
Appleton	918	44	-9	86	72	26	33	39	M	
Ashland	826	46	-16	82	68	10	17	23	M	
Beloit	817	42	-3	90	75	38	45	51	M	
Eau Claire AP	907	44	-13	87	71	19	26	32	M	
Fond du Lac	809	43	-8	86	72	26	33	39	M	
Green Bay AP	682	44	-8	85	72	28	35	41	M	
LaCrosse AP	651	43	-8	88	73	29	36	42	M	
Madison AP	858	43	-6	87	72	24	31	37	M	
Manitowoc	651	44	-7	86	72	26	33	39	M	
Marinette	703	45	-11	84	71	23	30	36	M	
Milwaukee AP	723	43	-2	86	72	26	33	39	M	
Racine	674	42	-2	88	73	29	36	42	M	
Sheboygan	749	43	-6	86	73	32	39	45	M	
Stevens Point	1110	43	-11	89	73	27	34	40	M	
Waukesha	911	43	-5	87	73	33	40	46	M	
Wausau AP	1201	44	-9	85	70	16	23	29	M	
<b>Wyoming</b>										
Big Piney	6990	42	-15	80	53	-58	-51	-45	H	
Casper AP	5348	42	-5	89	58	-49	-42	-36	H	
Cheyene AP	6156	41	0	85	57	-47	-40	-34	H	
Cody AP	5098	44	-7	87	58	-45	-38	-32	H	
Evanston	7163	41	-3	84	55	-55	-48	-42	H	
Gillette	4363	44	-7	91	61	-38	-31	-25	H	
Lander AP	5586	42	-7	87	58	-46	-39	-33	H	
Laramie AP	7278	41	-6	81	56	-46	-39	-33	H	
Newcastle	4174	43	-12	87	63	-21	-14	-8	H	
Rawlins	6813	41	-4	83	57	-44	-37	-31	H	
Rock Springs AP	6760	41	-2	84	54	-60	-53	-47	H	
Sheridan AP	4024	44	-8	90	61	-36	-29	-23	H	
Torrington	4205	42	-8	91	62	-32	-25	-19	H	
Worland	4227	43	-13	93	63	-30	-23	-17	H	

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
				Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
<b>Alberta</b>									
Calgary AP	3540	51	-17	80	59	-30	-23	-17	M
Cold Lake AP	1785	54	-26	78	62	-14	-7	-1	M
Coronation	2595	52	-23	82	60	-29	-22	-16	M
Edmonton AP	2256	53	-23	78	62	-14	-7	-1	M
Grande Prairie AP	2190	55	-27	78	60	-23	-16	-10	M
Jasper	3481	52	-26	80	62	-16	-8	-1	H
Lethbridge AP	3048	49	-16	84	61	-27	-20	-14	H
McMurray AP	1211	56	-29	80	62	-17	-10	-4	H
Medicine Hat AP	2349	50	-19	87	62	-14	-7	-1	H
Peace River AP	1873	56	-27	78	60	-23	-16	-10	M
Red Deer AP	2969	52	-21	79	61	-20	-13	-7	M
Rocky Mtn. House	3245	52	-20	78	61	-17	-10	-4	M
Vermilion AP	2028	53	-25	80	62	-17	-10	-4	M
Whitecourt	2566	54	-24	77	60	-21	-14	-8	M
<b>British Columbia</b>									
Abbotsford AP	190	49	20	80	66	3	10	16	M
Cape St. James	320	52	29	62	58	-6	1	7	L
Castlegar AP	1624	49	9	88	63	-25	-18	-12	H
Comox AP	79	49	25	76	62	-10	-3	3	M
Cranbrook AP	3081	49	-8	85	60	-33	-26	-20	H
Dawson Creek	2185	55	-33	79	63	-10	-3	5	H
Fort Nelson AP	1230	58	-30	78	60	-23	-16	-10	M
Fort St. John AP	2280	56	-25	76	59	-24	-17	-11	M
Kamloops AP	1133	50	-1	88	63	-25	-18	-12	H
Nanaimo	98	49	20	80	65	-3	4	10	M
New Westminster	59	49	18	81	67	5	12	19	M
Penticton AP	1129	49	10	87	64	-18	-11	-5	H
Port Hardy AP	75	50	26	65	58	-11	-4	2	L
Prince George AP	2218	53	-18	78	59	-27	-20	-14	H
Prince Rupert AP	112	54	13	63	57	-12	-5	1	L
Quesnel AP	1788	53	-14	81	60	-27	-20	-14	H
Sandspit AP	20	53	25	65	59	-6	1	7	L
Smithers AP	1716	54	-12	77	59	-26	-19	-13	M
Spring Island	322	50	31	66	59	-8	-1	5	L
Terrace AP	712	54	2	78	60	-23	-16	-10	M
Tofino AP	79	49	29	68	60	-7	0	6	L
Trail	1890	49	0	89	65	-16	-9	-2	H
Vancouver AP	16	49	24	74	64	2	9	15	M
Victoria CO	62	48	26	75	62	-9	-2	4	M
Williams Lake AP	3084	52	-14	79	57	-38	-31	-25	M
<b>Manitoba</b>									
Brandon AP	1342	49	-24	84	66	-4	3	9	M
Churchill AP	98	58	-33	72	60	-13	-6	0	M
Dauphin AP	1001	51	-23	84	66	-4	3	9	M
Flin Flon	997	54	-37	81	66	1	8	15	M
Portage La Prairie AP	885	49	-21	85	67	0	7	13	M
The Pas AP	894	53	-28	79	64	-6	1	7	M
Thompson AP	715	55	-34	79	62	-15	-8	-2	M
Winnipeg AP	786	49	-23	84	67	2	9	15	M

Location	Elevation Feet	Latitude Degrees North	Winter	Summer					
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH
<b>New Brunswick</b>									
Campbellton CO	25	48	-14	82	67	4	10	17	M
Charlo AP	125	47	-10	79	62	-15	-8	-2	M
Chatham AP	102	47	-7	83	67	3	10	16	M
Edmunston CO	500	47	-16	83	68	8	15	21	M
Fredericton AP	66	45	-7	83	68	8	15	21	M
Moncton AP	233	46	-5	80	67	8	15	21	M
Saint John AP	358	45	-4	75	64	1	8	14	M
<b>Newfoundland</b>									
Battle Harbour	26	52	-10	60	55	-15	-8	-2	L
Bonavista	89	48	7	71	63	2	9	15	L
Cartwright	46	53	-15	70	59	-14	-7	-1	M
Corner Brook	16	48	0	73	63	-1	5	12	M
Daniels Harbour	62	50	-3	66	62	6	13	19	L
Deer Lake AP	72	49	-7	77	64	-2	5	11	M
Gander AP	482	48	0	76	63	-6	1	7	M
Goose Bay AP	144	53	-20	77	61	-17	-10	-4	M
Hopedale	33	55	-18	65	57	-15	-8	-2	M
St. John's AP	463	47	7	73	64	4	11	17	M
Stephenville AP	44	48	3	71	64	7	14	20	L
Wabush Lake AP	1808	52	-30	72	58	-22	-15	-9	M
<b>Northwest Territory</b>									
Baker Lake	59	64	-39	65	55	-23	-16	-10	M
Cambridge Bay AP	82	69	-35	57	51	-26	-19	-13	L
Cape Parry AP	56	70	-33	54	50	-25	-18	-12	L
Chesterfield	36	63	-34	60	52	-27	-20	-14	M
Coral Harbour AP	210	64	-38	60	51	-31	-24	-18	M
Fort Smith AP	665	60	-32	78	61	-18	-11	-5	M
Frobisher AP	68	63	-36	57	48	-37	-30	-24	L
Hall Beach AP	26	68	-38	52	47	-33	-26	-20	L
Inuvik	200	68	-40	75	59	-22	-15	-9	M
Norman Wells AP	243	65	-36	77	60	-21	-14	-8	M
Resolute AP	209	74	-40	48	43	-40	-33	-27	L
Yellowknife AP	682	62	-36	74	59	-21	-14	-8	M
<b>Nova Scotia</b>									
Amherst	65	45	-6	81	68	11	17	24	M
Greenwood AP	92	44	3	80	67	8	15	21	M
Halifax AP	477	44	2	78	66	-14	-7	-1	M
Kentville	161	45	1	83	68	7	14	21	M
New Glasgow	317	45	-5	79	68	14	21	27	M
Sable Island	13	43	17	69	66	20	27	33	L
Shearwater AP	167	44	5	75	64	1	8	14	M
Sydney AP	203	46	3	78	67	11	18	24	M
Truro CO	131	45	-4	71	64	7	14	20	M
Yarmouth AP	136	43	10	71	64	7	14	20	L
<b>Ontario</b>									
Armstrong AP	1056	50	-30	78	65	1	8	14	H
Atikokan	1289	48	-27	80	66	3	10	16	M
Big Trout Lake	735	53	-30	75	62	-9	-2	4	M
Belleville	249	44	-7	84	72	28	35	41	M

Location	Elevation Feet	Latitude Degrees North	Winter Heating 99% Dry Bulb	Summer					
				Cooling 1% Dry Bulb	Coincide nt Wet Bulb	Design Grains 55% RH	Design Grains 50% RH	Design Grains 45% RH	Daily Range (DR)
Chatham	595	42	3	87	73	30	36	43	M
Cornwall	210	45	-9	87	72	23	30	36	M
Ealton AP	797	47	-21	81	67	6	13	19	M
Geraldton	1152	49	-28	78	65	1	8	14	M
Gore Bay AP	633	45	-7	78	67	11	18	24	M
Hamilton	778	43	1	86	72	26	32	39	M
Kaupuskasing AP	752	49	-25	80	65	-2	5	11	M
Kenora AP	1348	49	-22	81	65	4	3	9	M
Kingston	305	44	-7	84	72	28	35	41	M
Kitchener	1049	43	-2	85	72	28	35	41	M
London AP	912	43	2	83	70	19	26	33	M
Mount Forest	1362	43	-3	80	68	13	20	26	M
Muskoka AP	925	44	-11	80	68	13	20	26	M
North Bay AP	1210	46	-13	78	66	6	13	19	M
Oshawa	276	43	-3	86	72	25	31	38	M
Ottawa AP	413	45	-8	83	69	14	21	27	M
Owen Sound	587	44	-2	82	70	20	27	34	M
Petersborough	626	44	-9	85	71	21	28	35	M
St. Catharines	299	43	3	85	72	26	33	40	M
Sarnia	594	42	3	86	72	25	32	39	M
Sault Ste. Marie AP	630	46	-8	79	67	10	17	23	M
Simcoe	791	42	3	83	70	19	26	32	M
Sioux Lookout AP	1280	50	-25	80	65	-2	5	11	M
Sudbury AP	1142	46	-14	81	66	1	8	14	M
Thunder Bay AP	644	48	-18	80	65	-2	5	11	M
Timmons AP	968	48	-23	81	65	-4	3	9	M
Toronto AP	578	43	1	84	70	18	25	31	M
Trenton AP	282	44	-3	81	70	23	30	36	M
Wiarton AP	728	44	0	80	69	19	26	32	M
Windsor AP	623	42	6	86	71	20	27	33	M
<b>Prince Edward Island</b>									
Charlottetown AP	177	46	-2	77	67	13	20	26	M
Summerside AP	79	46	-1	77	66	8	15	21	M
<b>Quebec</b>									
Bagotville AP	522	48	-19	80	65	-2	5	11	M
Baie Corneau AP	72	49	-14	71	61	-7	0	6	M
Chicoutimi	49	48	-22	83	68	7	14	20	M
Drummondville	269	45	-14	85	71	21	27	34	M
Granby	551	45	-14	85	71	21	28	34	M
Grindstone Island	194	47	3	70	65	14	21	27	L
Hull	413	45	-14	87	71	18	24	31	M
Kuujjuarapik AP	39	55	-30	70	59	-14	-7	-1	M
Kuujuaq AP	121	58	-31	69	57	-21	-14	-8	M
La Grande Riviere AP	640	53	-30	75	60	-18	-11	-5	M
Lake Eon AP	1841	51	-27	70	58	-19	-12	-6	M
Megantic AP	216	45	-16	83	70	18	25	31	M
Mont Joli AP	171	48	-8	76	65	4	11	17	M
Montreal AP	98	45	-7	83	70	19	26	32	M
Montreal Mirabel AP	269	45	-11	81	69	17	24	30	M
Nitchequon	1759	53	-31	69	58	-17	-10	-4	M
Quebec AP	240	46	-11	80	68	13	20	26	M
Rimouski		48	-12	79	66	4	11	17	M

<b>Location</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
			<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coincide nt Wet Bulb</b>	<b>Design Grains 55% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 45% RH</b>	<b>Daily Range (DR)</b>
Riviere Du Loup	486	47	-10	76	67	14	21	27	M
Roberval AP	587	48	-19	79	66	4	11	18	M
St. Jean	1152	45	-11	86	72	5	11	18	M
St. Jeirome	554	45	-13	86	71	19	26	33	M
St. Hubert AP	89	45	-7	83	69	14	21	27	M
Schefferville AP	1709	54	-31	69	57	-21	-14	-8	M
Sept Iles AP	180	50	-15	69	59	-13	-6	0	M
Shawnigan	400	46	-14	84	70	17	24	30	M
Sherbrooke CO	791	45	-14	80	68	13	20	26	M
Ste. Agathe Des Monts	1296	46	-15	78	66	6	13	19	M
Thetford Mines	1250	46	-14	84	70	18	25	32	M
Trois Rivieres	174	46	-13	85	70	15	22	28	M
Val d'Or AP	1106	48	-22	80	65	-2	5	11	M
Valleyfield	156	45	-10	86	72	24	31	38	M
<b>Saskatchewan</b>									
Broadview	1975	50	-25	83	64	-12	-5	1	H
Estevan AP	1906	49	-21	86	65	-12	-5	1	H
Moose Jaw AP	1893	50	-21	87	64	-18	-11	-5	H
North Battleford AP	1798	52	-26	82	63	-15	-8	-2	M
Prince Albert AP	1404	53	-29	81	64	-9	-2	4	M
Regina AP	1893	50	-24	85	64	-15	-8	-2	H
Saskatoon AP	1645	52	-26	84	63	-18	-11	-5	H
Swift Current AP	2684	50	-21	84	62	-23	-16	-10	M
Uranium City AP	1043	59	-35	76	60	-20	-13	-7	M
Wynvard	1841	51	-25	81	63	-14	-7	-1	M
Yorkton AP	1634	51	-26	82	64	-10	-3	3	M
<b>Yukon Territory</b>									
Burwash AP	2644	61	-32	69	55	-30	-23	-17	M
Whitehorse AP	2289	60	-31	73	55	-36	-29	-23	M

Arizona	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Agulia	2165	34	26	106	68	-27	-20	-13	33	
Ajo	1763	32	36	107	69	-24	-17	-10	26	
Alamo Dam	1290	34	27	109	70	-22	-15	-8	34	
Alhambra	1135	34	30	108	70	-21	-14	-7	32	
Alpine	8050	34	-3	87	55	-60	-52	-43	34	
Anvil Ranch	2750	32	24	106	67	-32	-24	-17	31	
Apache	5380	32	21	92	60	-44	-36	-28	31	
Apache Junction	1720	33	34	108	69	-25	-18	-11	30	
Apache Powder	3690	32	22	100	65	-32	-24	-17	31	
Ash Fork	5325	35	15	96	61	-45	-37	-29	36	
Avondale	1170	33	29	109	70	-22	-15	-8	30	
Bagdad	3712	35	29	98	64	-34	-26	-19	34	
Bartlett Dam	1650	34	35	108	69	-25	-18	-11	29	
Beaver Creek RS	3820	35	28	100	65	-32	-24	-17	28	
Beaver Dam	1875	37	25	109	69	-27	-20	-13	35	
Benson	3675	32	22	100	65	-32	-24	-17	31	
Betatakin	7286	37	10	89	58	-49	-40	-31	31	
Bisbee	5020	31	30	93	61	-41	-33	-25	25	
Black River Pumps	6040	34	8	93	60	-45	-37	-29	29	
Blue	5760	34	7	96	61	-45	-37	-29	34	
Blue Ridge RS	6810	35	3	88	57	-52	-44	-35	29	
Bouse	930	34	26	111	71	-20	-13	-7	34	
Bowie	3770	32	25	102	65	-35	-27	-20	31	
Buckeye	870	34	28	111	71	-20	-13	-7	33	
Burrus Ranch	6800	35	4	89	58	-49	-40	-32	35	
Cameron	4165	36	16	100	64	-37	-29	-21	31	
Canelo	4985	32	20	94	62	-37	-29	-21	29	
Canyon de Chelly	5540	36	5	92	60	-44	-36	-28	33	
Carefree	2530	34	34	104	68	-23	-16	-9	27	
Casa Grande	1415	33	31	109	70	-22	-15	-8	32	
Casa Grande NM	1419	33	26	110	70	-23	-16	-10	35	
Cascabel	3145	32	23	103	66	-32	-24	-17	27	
Castle Hot Sprg	1990	34	35	106	69	-22	-15	-8	30	
Chandler	1216	33	32	107	70	-19	-12	-5	32	
Chandler Hts	1425	33	31	106	70	-17	-10	-3	28	
Chevelon RS	7006	35	5	87	57	-51	-42	-33	30	
Childs	2650	34	29	107	68	-28	-21	-13	35	
Chinle	5538	36	5	94	61	-42	-34	-26	33	
Chino Valley	4750	35	16	97	63	-37	-29	-21	37	
Chiricahua NM	5300	32	21	94	61	-42	-34	-26	30	
Cibecue	5045	34	14	94	61	-42	-34	-26	36	
Clay Sprg	6320	34	2	89	58	-49	-40	-32	31	
Clifton	3460	33	30	104	66	-33	-26	-18	28	
Colorado City	5010	37	8	94	62	-37	-29	-21	33	
Congress	3015	34	34	102	67	-25	-18	-10	32	
Copper Mine TP	6380	37	15	93	59	-50	-42	-33	34	
Cordes	3773	34	27	99	65	-30	-23	-15	30	
Coronado NM	5242	31	23	95	62	-39	-31	-23	28	
Cortaro	2283	32	29	108	69	-24	-17	-10	30	
Cottonwood	3375	35	26	102	66	-30	-23	-15	30	
Dateland Rch	545	33	31	112	72	-17	-10	-3	30	
Davis Dam	657	35	39	113	72	-18	-11	-5	28	
Davis-Monthan AFB	2654	32	29	101	67	-24	-17	-9	30	

Arizona	Elevation Feet	Latitude Degrees North	Winter	Summer						
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
Deer Valley	1257	34	31	108	70	-20	-14	-7	30	
Dinnehotso	5100	37	10	97	62	-42	-34	-26	36	
Douglas	4040	31	22	99	64	-35	-28	-20	28	
Douglas AP	4098	31	22	97	64	-32	-24	-17	28	
Douglas Smelter	3973	31	24	99	64	-35	-28	-20	28	
Duncan	3640	33	16	97	65	-27	-20	-12	30	
Ehrenburg	465	34	34	112	72	-17	-10	-3	32	
Eloy	1595	33	29	107	70	-18	-11	-4	30	
Falcon Field	1320	33	30	106	70	-17	-10	-3	30	
Flagstaff AP	7006	35	4	84	56	-51	-42	-33	31	
Florence	1505	33	31	110	70	-23	-16	-9	31	
Ft Grant	4875	33	26	97	63	-37	-29	-21	28	
Ft Huachuca	4664	32	28	93	63	-31	-23	-15	26	
Ft Thomas	2800	33	22	105	67	-30	-23	-15	28	
Ft Valley	7347	35	-3	84	55	-55	-47	-38	33	
Fredonia	4675	37	5	96	63	-35	-27	-20	38	
Ganado	6340	36	0	89	58	-49	-40	-32	34	
Gila Bend	737	33	31	111	71	-20	-14	-7	30	
Glendale	1154	34	32	107	71	-13	-6	0	28	
Globe	3710	33	24	103	66	-31	-24	-16	30	
Grand Canyon NP	6785	36	8	88	58	-47	-39	-30	30	
Granite Reef Dam	1325	34	32	108	70	-20	-13	-7	30	
Granville	6800	33	13	88	58	-47	-39	-30	28	
Groom Creek	6100	35	11	89	59	-44	-36	-27	33	
Harquahala	1220	34	24	110	71	-18	-11	-4	32	
Heber RS	6590	34	-1	88	58	-47	-39	-30	32	
Hillside	3320	35	20	100	65	-32	-25	-17	28	
Holbrook	5069	35	6	96	61	-45	-37	-29	34	
Inner Canyon	2575	36	37	108	69	-24	-17	-10	29	
Jacob Lake	7920	37	3	83	54	-59	-50	-41	36	
Jerome	5245	35	28	91	60	-42	-34	-26	23	
Junipine	5134	35	22	91	60	-42	-34	-26	32	
Kayenta	5695	37	13	91	59	-47	-39	-31	32	
Keams Canyon	6205	36	7	92	59	-49	-40	-32	34	
Kingman	3539	35	26	101	66	-28	-21	-13	31	
Kitt Peak	6790	32	22	88	58	-47	-39	-30	30	
Klagetoh	6500	36	6	91	59	-47	-39	-30	37	
Kofa Mtn	1775	33	37	107	69	-24	-17	-10	25	
Laveen	1115	33	30	108	70	-21	-14	-7	28	
Lees Ferry	3210	37	26	105	67	-30	-22	-15	30	
Leupp	4700	35	5	97	63	-37	-29	-21	36	
Litchfield Park	1030	34	30	110	71	-18	-12	-5	30	
Lukachukai	6520	36	7	90	58	-50	-42	-34	29	
Luke AFB	1101	34	33	108	71	-15	-8	-1	28	
Many Farms	5310	36	6	95	61	-44	-36	-28	34	
Marinette	1145	34	27	110	71	-18	-11	-4	31	
Maricopa	1160	33	26	109	71	-17	-10	-3	32	
Maverick	7800	34	-13	82	54	-57	-48	-39	34	
McNary	7320	34	6	86	56	-54	-45	-36	33	
Mesa Exp Farm	1230	33	32	107	70	-19	-12	-5	32	
Miami	3560	33	30	100	65	-32	-24	-17	26	
Montezuma Csl RS	3180	35	24	104	67	-28	-21	-13	38	
Mormon Flat	1715	34	36	108	70	-20	-13	-6	26	
Natural Bridge	4607	34	22	96	63	-35	-28	-20	26	

Arizona	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Navajo	5580	35	5	96	61	-45	-37	-29	34	
Navajo Army Depot	7125	35	4	84	55	-55	-47	-38	32	
Nogales	3808	31	22	98	65	-29	-21	-13	30	
Oracle	4540	33	29	98	63	-39	-31	-23	27	
Organ Pipe Cactus NM	1678	32	32	106	69	-22	-15	-8	29	
Page	4270	37	21	99	64	-35	-27	-20	20	
Paradise Valley	1421	34	35	107	70	-19	-12	-5	28	
Parker	425	34	33	112	72	-17	-10	-4	32	
Payson	4913	34	16	97	63	-37	-29	-21	35	
Payson RS	4848	34	12	96	63	-35	-27	-19	36	
Pearce	4420	32	24	97	63	-37	-29	-22	30	
Peoria	1141	34	30	108	70	-21	-14	-7	31	
Perkinsville	3855	35	15	100	65	-32	-24	-17	30	
Petrified Forest NP	5440	35	10	95	61	-44	-36	-27	31	
Phantom Ranch	2570	36	37	110	69	-27	-20	-13	32	
Phoenix AP	1110	33	32	107	72	-8	-1	6	30	
Phoenix CO	1083	33	35	106	72	-6	1	8	26	
Pierce Ferry	3860	36	20	97	64	-32	-25	-17	32	
Pinedale	6500	34	-7	89	58	-49	-40	-32	32	
Pinon	6355	36	3	92	59	-49	-40	-32	34	
Pipe Springs NM	4920	37	8	97	63	-37	-29	-21	36	
Pleasant Valley RS	5050	34	11	94	61	-42	-34	-26	34	
Portal	5390	32	16	91	60	-42	-34	-26	34	
Prescott	5510	35	16	93	60	-45	-37	-29	32	
Prescott AP	5017	35	20	95	62	-39	-31	-23	29	
Quartzsite	870	34	31	112	71	-22	-15	-8	29	
Reno RS	2350	34	31	105	68	-25	-18	-11	31	
Roosevelt	2205	34	36	106	68	-27	-20	-13	26	
Sabino Canyon	2640	32	32	107	68	-28	-21	-13	29	
Sacaton	1285	33	28	108	71	-15	-8	-1	30	
Safford Exp Farm	2954	33	23	103	67	-27	-19	-12	32	
Sahuarita	2690	32	28	106	68	-26	-19	-12	25	
St. Johns	5730	35	5	95	61	-43	-35	-27	34	
Salome	1890	34	25	108	69	-25	-18	-11	32	
San Carlos AP	2643	33	24	105	68	-25	-18	-10	34	
San Carlos Res	2532	33	30	105	68	-25	-18	-10	34	
San Manuel	3560	33	29	101	66	-28	-21	-13	27	
San Rafael Rch	4741	31	19	96	63	-35	-27	-20	30	
San Simon	3880	32	22	101	65	-33	-26	-18	32	
Sanders	5853	35	-1	94	60	-47	-39	-31	34	
Santa Rita Exp Range	4300	32	29	98	64	-34	-26	-18	23	
Santa Rosa School	1830	32	27	109	70	-21	-14	-7	30	
Sasabe	3590	32	29	100	65	-32	-24	-17	30	
Scottsdale	1235	34	31	109	70	-22	-15	-8	30	
Sedona RS	4320	35	27	98	64	-33	-26	-18	29	
Seligman	5250	35	15	95	61	-44	-36	-28	36	
Sells	2375	32	30	106	68	-27	-20	-12	28	
Show Low	6440	34	2	91	59	-47	-39	-30	30	
Sierra Ancha	5100	34	24	96	62	-40	-32	-24	29	
Sierra Vista	4650	32	28	93	63	-31	-23	-15	26	
Silver Bell	2740	32	38	103	67	-27	-20	-12	26	
Snowflake	5642	35	3	93	61	-40	-32	-24	35	
Snowflake 15 W	6080	35	3	89	59	-44	-36	-27	33	
South Phoenix	1155	33	30	104	70	-14	-7	0	28	

Arizona	Elevation Feet	Latitude Degrees North	Winter	Summer						
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
South Tucson	2600	32	30	103	67	-27	-20	-13	32	
Springerville	7060	34	1	87	57	-51	-42	-33	31	
Stanton	3480	34	32	100	66	-27	-19	-12	26	
Stewart Mtn	1422	34	31	107	70	-19	-12	-5	30	
Sun City	1140	34	30	108	70	-21	-14	-7	31	
Sunset Crater NM	6980	35	1	88	57	-52	-44	-35	31	
Supai	3205	36	23	101	66	-29	-21	-14	30	
Superior	2995	33	39	101	66	-29	-21	-14	28	
Tacha	324	33	27	109	72	-12	-6	1	30	
Teeec Nos Pos	5290	37	6	96	62	-40	-32	-24	32	
Tempe	1150	33	30	108	70	-21	-14	-7	30	
Tempe U of AZ	1180	33	30	109	70	-22	-15	-8	33	
Tombstone	4610	32	29	98	63	-39	-31	-23	28	
Truxton Canyon	3820	35	23	99	64	-35	-28	-20	32	
Tuba City	4936	36	12	99	63	-40	-32	-24	32	
Tuscon Exp Farm	2330	32	26	105	68	-25	-18	-11	30	
Tucson Mag Obsy	2526	32	28	106	68	-27	-19	-12	30	
Tucson U of AZ	2444	32	34	105	68	-25	-18	-11	27	
Tucson AP	2584	32	32	103	67	-27	-20	-13	26	
Tumacacori NM	3267	32	24	105	67	-30	-22	-15	32	
Tuweep	4775	36	23	98	63	-38	-31	-23	30	
Wahweap	3728	37	25	100	65	-32	-24	-17	24	
Walnut Creek	5090	35	14	93	61	-41	-33	-25	36	
Wellton	260	33	30	108	72	-11	-4	2	31	
West Yuma	200	33	32	109	72	-13	-6	1	28	
Whiteriver	5280	34	14	95	62	-39	-31	-23	33	
Wickenburg	2095	34	27	109	69	-26	-19	-12	36	
Wikieup	2010	35	30	108	69	-25	-18	-11	33	
Willcox	4190	32	18	99	64	-35	-27	-20	31	
Williams	6750	35	13	85	57	-47	-39	-30	32	
Williams AFB	1385	33	32	107	71	-13	-6	1	27	
Willow Beach	800	36	37	116	73	-17	-10	-3	28	
Willow Sprg Rch	3690	33	25	100	65	-32	-24	-17	29	
Window Rock	6750	36	1	88	57	-52	-44	-35	34	
Winkelman	2075	33	25	108	69	-25	-18	-11	24	
Winslow AP	4895	35	6	96	62	-40	-32	-25	31	
Wupatki NM	4908	36	24	98	63	-38	-30	-23	30	
Youngtown	1135	34	30	108	70	-21	-14	-7	30	
Yucca	1950	35	30	104	68	-24	-17	-10	29	
Yuma Citrus	191	33	34	109	72	-13	-6	1	29	
Yuma Prv Ground	324	33	36	109	72	-12	-6	1	29	
Yuma Valley	120	33	33	109	72	-13	-6	1	29	
Yuma AP/MCAS	194	33	36	109	72	-13	-6	1	28	

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Adin RS	4195	41	4	92	61	-39	-32	-24	43	
Alameda NAS	15	38	40	80	64	-8	-1	5	21	
Alamo	410	38	31	96	68	-13	-6	0	30	
Albany	40	38	38	81	64	-9	-3	4	16	
Alderpoint	460	40	30	94	67	-15	-8	-2	39	
Alhambra	483	34	37	94	70	1	8	14	25	
Almaden AFS	3470	37	29	89	61	-35	-27	-20	20	
Alondra Park	50	34	42	85	68	4	11	17	17	
Alpine	1735	33	35	95	69	-4	3	10	35	
Altadena	1200	34	39	92	68	-6	1	8	31	
Alturas RS	4400	42	0	95	61	-44	-36	-28	43	
Alum Rock	70	37	36	88	66	-11	-4	2	22	
Anaheim	158	34	39	89	69	3	10	16	26	
Anderson	430	41	34	101	70	-10	-4	3	30	
Angwin	1915	39	33	92	64	-26	-19	-12	33	
Antioch	60	38	31	95	68	-12	-5	1	34	
Apple Valley	2935	35	25	101	66	-29	-22	-14	38	
Aptos	500	37	35	87	65	-14	-7	0	30	
Arcadia	475	34	38	95	69	-6	1	7	30	
Arcata	218	41	33	69	60	-8	-2	5	11	
Arden	80	39	35	98	69	-11	-5	2	35	
Arroyo Grande	105	35	35	83	64	-13	-6	1	18	
Artesia	50	34	40	89	70	8	15	21	23	
Arvin	445	35	32	102	70	-12	-5	1	30	
Ash Mtn	1708	37	33	101	68	-20	-13	-6	30	
Atascadero	837	36	32	88	67	-5	2	9	42	
Atherton	50	38	33	82	64	-11	-4	2	27	
Atwater	150	37	34	98	69	-11	-5	2	38	
Auberry	2140	37	30	99	66	-26	-19	-12	36	
Auburn	1292	39	33	99	68	-17	-10	-3	33	
Avalon	25	33	44	73	62	-6	1	7	11	
Azusa	605	34	38	95	70	-1	6	13	36	
Baker	940	35	31	112	72	-16	-9	-2	29	
Bakersfield AP	475	35	35	102	70	-12	-5	1	34	
Balch PH	1720	37	34	97	66	-24	-17	-10	26	
Baldwin Park	394	34	38	94	70	1	7	14	32	
Banning	2349	34	30	100	69	-12	-4	3	34	
Barrett Dam	1623	33	28	96	69	-6	1	8	35	
Barstow	2162	35	27	104	69	-18	-11	-4	35	
Beale AFB	113	39	30	101	70	-11	-4	2	34	
Beaumont	2605	34	30	99	68	-15	-8	-1	38	
Bell	143	34	41	89	69	3	10	16	22	
Bellflower	73	34	40	89	69	3	10	16	21	
Bell Gardens	160	34	40	89	69	3	10	16	22	
Belmont	33	38	36	82	64	-11	-4	2	24	
Benicia	55	38	36	91	67	-11	-4	2	30	
Ben Lomond	450	37	33	83	65	-7	-1	6	30	
Berkeley	345	38	40	80	63	-12	-6	1	16	
Berryessa Lake	480	39	34	96	69	-8	-1	6	35	
Beverly Hills	268	34	46	87	68	1	8	14	20	
Big Bar RS	1260	41	28	97	67	-19	-12	-5	46	
Big Bear Lake	6745	34	7	83	58	-39	-31	-22	32	
Bishop AP	4108	37	16	101	60	-58	-51	-43	40	

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
Blackwells Corner	644	36	32	93	67	-13	-7	0	31	
Bloomington	980	34	38	102	71	-6	1	8	34	
Blue Canyon AP	5280	39	24	85	59	-38	-30	-22	20	
Blythe AP	395	34	36	112	73	-11	-5	2	27	
Blythe CO	268	34	32	112	73	-11	-5	2	27	
Boca	5575	39	-10	88	57	-52	-44	-36	46	
Bodie	8370	38	-13	80	50	-72	-63	-54	42	
Bonita	105	33	34	82	66	-1	5	12	20	
Boron AFS	3015	35	26	102	70	-8	-1	7	35	
Borrego Desert Pk	805	33	33	105	74	7	14	20	36	
Bowman Dam	5347	39	22	86	57	-49	-41	-33	26	
Brannan Island	30	38	31	93	69	-4	3	10	10	
Brawley 2 SW	-100	33	33	109	75	4	11	17	32	
Brea Dam	275	34	37	90	68	-4	3	10	29	
Bridgeport	6470	38	-12	86	55	-58	-50	-41	41	
Broderick-Bryte	20	39	35	98	69	-12	-5	2	36	
Brooks Ranch	294	39	28	97	70	-4	2	9	35	
Buena Park	75	34	38	89	69	3	10	16	25	
Burbank AP	699	34	36	94	69	-4	2	9	28	
Burbank Vly Pump	655	34	36	94	68	-10	-3	4	28	
Burlingame	10	38	37	80	65	-3	4	10	20	
Burney	3127	41	12	92	63	-30	-23	-15	42	
Butler Vly	420	41	29	85	64	-16	-9	-2	22	
Buttonwillow	269	35	29	99	70	-7	-1	6	36	
Cabrillo NM	410	33	45	84	69	11	18	25	12	
Cachuma Lake	781	35	34	91	67	-10	-3	4	19	
Calabasas	1100	34	33	97	71	3	9	16	26	
Calaveras Big Trees	4696	38	23	88	60	-38	-30	-22	33	
Calexico	12	33	34	110	73	-9	-2	4	28	
Callahan	3185	41	20	92	62	-35	-27	-20	35	
Calwa	330	37	29	101	70	-11	-4	3	34	
Camarillo	147	34	35	82	69	14	21	28	22	
Cambria AFS	690	36	38	70	61	-5	1	8	18	
Campbell	195	37	36	87	67	-4	3	9	30	
Campo	2630	33	27	94	68	-7	0	7	41	
Camp Pardee	658	38	35	102	71	-6	1	7	36	
Camp Roberts	765	36	27	99	71	-1	6	12	45	
Canoga Park	790	34	33	97	71	2	9	16	38	
Cantil	2010	35	24	107	72	-6	1	8	32	
Canyondam	4555	40	13	89	59	-44	-36	-29	39	
Capitola	64	37	35	85	65	-11	-4	2	24	
Cardiff-by-the-Sea	80	33	41	81	67	5	12	19	12	
Carlsbad	44	33	40	81	67	5	12	19	10	
Carmel Valley	425	37	33	84	67	1	8	14	20	
Carmichael	100	39	34	98	70	-6	0	7	35	
Carpinteria	385	34	37	81	67	6	12	19	15	
Carson	60	34	40	86	68	3	9	16	19	
Castle AFB	188	37	31	100	71	-4	3	10	33	
Castro Valley	177	38	32	84	67	1	7	14	25	
Catheys Valley	1000	37	30	98	69	-10	-3	3	38	
Cecilville	3000	41	24	88	61	-33	-26	-19	44	
Cedarville	4670	42	13	93	60	-46	-38	-30	35	
Centerville PH	522	40	33	100	69	-14	-7	-1	40	
Ceres	90	38	34	94	69	-5	2	8	36	

California	Elevation Feet	Latitude Degrees North	Winter		Summer					
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
Cerritos	34	34	40	89	70	8	15	21	23	
Cherryland	100	38	37	83	66	-3	4	10	24	
Cherry Valley Dam	4765	38	21	92	61	-39	-31	-23	32	
Chester	4525	40	8	90	61	-36	-28	-20	33	
Chico Exp Sta	205	40	30	100	70	-9	-3	4	37	
China Lake	2220	36	25	108	70	-19	-12	-5	33	
Chino	714	34	35	98	70	-5	2	8	35	
Chula Vista	9	33	40	83	68	7	14	20	9	
Citrus Heights	138	39	34	98	70	-6	1	7	36	
Claremont	1201	34	36	95	68	-11	-4	3	34	
Clarksburg	14	38	32	95	69	-7	0	6	35	
Clearlake Highlands	1360	39	26	93	67	-13	-6	1	36	
Cloverdale	320	39	34	93	68	-8	-2	5	37	
Clovis	404	37	32	102	70	-12	-5	1	36	
Coachella	-76	34	34	110	75	3	9	16	28	
Coalinga	671	36	31	97	71	2	9	15	34	
Colfax	2418	39	31	96	65	-27	-19	-12	29	
Colton	978	34	36	101	69	-15	-8	-1	35	
Colusa	60	39	31	98	70	-6	0	7	36	
Commerce	175	34	39	90	69	1	8	15	23	
Compton	71	34	39	87	69	6	13	19	21	
Concord	195	38	35	93	67	-14	-7	-1	34	
Corcoran	200	36	31	102	72	-1	5	12	36	
Corona	710	34	34	96	69	-7	-1	6	35	
Coronado	20	33	41	80	67	7	14	20	10	
Corte Madera	55	38	35	88	66	-11	-4	2	34	
Costa Mesa	100	34	38	77	67	12	19	25	16	
Covelo	1385	40	26	91	65	-20	-13	-6	43	
Covina	575	34	36	95	70	-1	6	13	34	
Crescent City	40	42	36	69	60	-8	-2	5	18	
Crockett	9	38	36	89	66	-13	-6	1	23	
Crows Landing	140	37	31	93	68	-9	-2	5	33	
Cucamonga	1450	34	36	97	67	-19	-12	-5	31	
Cudahy	130	34	39	89	69	3	10	16	21	
Culver City	106	34	42	87	69	6	13	19	18	
Cupertino	70	37	36	84	66	-4	2	9	30	
Cuyama	2255	35	24	93	68	-6	1	8	42	
Cuyamaca	4650	33	23	85	61	-28	-20	-12	29	
Cypress	75	34	38	89	69	3	10	16	24	
Daggett AP	1915	35	29	106	68	-27	-20	-13	33	
Daly City	410	38	39	77	63	-7	-1	6	16	
Davis	60	39	34	97	70	-5	2	9	41	
Death Valley	-194	37	37	118	76	-4	2	9	28	
Deer Springs Clg	5225	37	8	96	60	-50	-42	-34	35	
Deer Creek PH	4455	39	22	91	60	-43	-35	-27	39	
Del Aire	100	34	42	83	68	7	14	21	15	
Delano	323	36	28	102	71	-7	0	7	36	
Denair	137	38	31	93	69	-3	3	10	38	
De Sabla	2713	40	27	92	64	-25	-18	-11	35	
Diamond Bar	880	34	35	96	68	-13	-6	1	33	
Dinuba	340	37	34	100	71	-3	3	10	36	
Dixon	100	38	33	97	70	-5	2	9	36	
Dobbins	1640	39	32	100	69	-13	-6	1	31	
Donner Mem Stt Pk	5937	39	6	81	56	-46	-37	-29	40	

California	Elevation Feet	Latitude Degrees North	Winter	Summer					
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Donner Summit	7239	39	3	76	52	-56	-48	-39	40
Downey	110	34	39	88	70	10	17	23	21
Downieville RS	2895	40	24	94	63	-33	-26	-19	42
Doyle	4390	40	12	92	61	-39	-31	-24	42
Dry Canyon Res	1455	35	32	100	70	-7	0	7	32
Duarte	500	34	38	94	69	-5	2	9	33
Dublin	200	38	32	90	67	-9	-2	4	35
Dudleys	3000	38	22	94	64	-28	-21	-13	44
Duttons Landing	20	38	34	88	66	-11	-4	2	31
Eagle Mtn	973	34	39	109	71	-17	-10	-3	24
East Los Angeles	250	34	43	90	69	2	8	15	21
East Park Res	1205	40	28	96	68	-12	-5	2	38
Edwards AFB	2316	35	22	103	68	-22	-15	-8	35
El Cajon	525	33	36	91	69	0	7	14	30
El Capitan Dam	600	33	36	97	70	-4	3	10	35
El Centro	-30	33	38	111	75	1	8	14	34
El Cerrito	70	38	38	79	64	-6	0	7	17
Electra PH	715	38	31	102	70	-12	-5	2	41
Elk Valley	1705	42	27	88	63	-24	-17	-10	39
El Mirage	2910	35	21	101	68	-18	-11	-3	31
El Monte	271	34	39	95	70	-1	6	12	30
El Rio	50	34	37	86	68	2	9	16	20
El Segundo	105	34	42	83	68	7	14	21	14
Eisinore	1285	34	29	102	71	-5	2	9	39
El Toro MCAS	380	34	41	86	70	14	20	27	26
Encinitas	50	33	41	81	67	5	12	19	10
Enterprise	470	41	34	101	69	-16	-9	-2	29
Escondido	660	33	34	88	69	5	12	19	29
Eureka	43	41	38	69	60	-8	-2	5	11
Fairfax	110	38	34	87	65	-14	-8	-1	34
Fairfield FS	38	38	33	95	68	-12	-5	1	34
Fairmont	3060	35	31	96	67	-15	-8	-1	22
Fair Oaks	50	39	33	98	71	-1	6	12	36
Fallbrook	660	34	34	89	68	-2	5	12	29
Ferndale	1445	41	35	66	56	-21	-14	-7	12
Fillmore	435	34	35	91	69	0	7	14	30
Five Points	285	36	30	97	70	-4	2	9	36
Fleming Fish & Game	4000	40	8	92	61	-39	-32	-24	40
Florence-Graham	175	34	43	88	69	5	11	18	19
Florin	100	39	36	98	70	-6	0	7	35
Folsom Dam	350	39	35	99	69	-13	-6	1	36
Fontana	1090	34	38	101	69	-15	-8	-1	33
Forest Glen	2340	40	24	92	64	-25	-18	-11	42
Fort Baker	15	38	40	77	64	-3	4	10	12
Fort Bidwell	4498	42	10	89	59	-44	-36	-29	38
Fort Bragg	80	40	37	66	60	-4	3	10	15
Fort Jones RS	2725	42	18	92	63	-30	-23	-16	44
Fort MacArthur	200	34	42	82	68	9	16	22	13
Fort Ord	134	37	32	74	62	-7	-1	6	18
Fort Ross	116	39	37	69	61	-4	3	9	19
Foster City	20	38	36	80	65	-3	4	10	22
Fountain Valley	60	34	40	88	69	5	11	18	18
Freedom	1495	37	34	83	64	-12	-5	2	22
Fremont	56	38	33	85	65	-11	-4	2	24

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Fresno AP	328	37	30	101	70	-11	-4	3	34	
Friant Gov Camp	410	37	31	104	70	-15	-9	-2	40	
Fullerton	340	34	37	91	70	5	12	19	26	
Gardena	40	34	39	84	68	6	12	19	18	
Garden Grove	85	34	38	88	69	5	11	18	23	
George AFB	2875	35	26	102	64	-41	-34	-26	31	
Georgetown RS	3001	39	27	94	63	-33	-26	-18	31	
Giant Forest	6412	37	18	81	55	-50	-42	-34	26	
Gillespie Field	385	33	32	89	70	9	15	22	30	
Gilroy	194	37	31	90	67	-9	-2	4	25	
Glen Avon	827	34	35	99	69	-12	-5	1	35	
Glendale	563	34	37	94	69	-4	2	9	28	
Glendora	822	34	37	96	69	-7	-1	6	35	
Glennville	3140	36	23	94	66	-18	-10	-3	43	
Gold Rock Rch	485	33	38	110	72	-14	-7	0	28	
Grant Grove	6600	37	19	78	54	-50	-42	-33	26	
Grass Valley	2400	39	28	95	65	-25	-18	-11	29	
Graton	200	38	31	86	66	-8	-1	6	34	
Grossmont	530	33	38	88	68	0	7	13	23	
Grover City	100	35	37	84	64	-14	-8	-1	18	
Hacienda Hts	300	34	38	94	69	-5	2	8	28	
Haiwee	3825	36	26	99	64	-35	-28	-20	27	
Half Moon Bay	60	38	39	73	61	-10	-4	3	15	
Hamilton AFB	3	38	32	85	67	-1	5	12	28	
Hanford	242	36	31	98	70	-6	1	7	37	
Happy Camp RS	1150	42	27	96	67	-18	-11	-4	41	
Hat Creek PH 1	3015	41	14	95	64	-30	-22	-15	48	
Hawaiian Gardens	75	34	39	88	69	5	11	18	23	
Hawthorne	70	34	42	84	68	6	12	19	16	
Hayfield Pumps	1370	34	32	108	70	-20	-13	-6	31	
Hayward	530	38	34	85	64	-15	-9	-2	24	
Healdsburg	102	39	34	94	68	-10	-4	3	37	
Hemet	1655	34	28	105	69	-21	-14	-7	40	
Henshaw Dam	2700	33	26	94	68	-7	0	7	38	
Hermosa Beach	16	34	45	82	68	9	15	22	12	
Hetch Hetchy	3870	38	25	89	61	-35	-27	-19	32	
Highland	1315	34	34	101	70	-9	-2	5	36	
Hillcrest Center	500	35	35	102	70	-12	-5	1	34	
Hillsborough	352	38	37	78	66	5	12	19	23	
Hilts	2900	42	18	93	62	-37	-29	-22	39	
Hollister	280	37	30	85	67	-1	6	12	30	
Hollywood	384	34	44	87	69	7	13	20	20	
Hoopa	360	41	31	91	66	-15	-9	-2	25	
Huntington Beach	40	34	41	80	68	12	19	25	14	
Huntington Lake	7020	37	16	77	53	-53	-45	-36	25	
Huntington Park	175	34	45	88	69	5	11	18	20	
Idlewild	1250	42	27	96	67	-17	-11	-4	40	
Idria	2650	36	32	91	64	-24	-16	-9	27	
Idyllwild	5397	34	21	88	62	-27	-19	-11	35	
Imperial AP	-59	33	34	110	74	-3	3	10	31	
Imperial CO	-64	33	36	108	73	-6	1	7	31	
Imperial Beach	23	33	41	82	69	14	21	27	10	
Independence	3950	37	24	101	62	-49	-41	-33	31	
Indio	11	34	32	111	76	8	14	21	30	

California	Elevation Feet	Latitude Degrees North	Winter	Summer					
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Inglewood	105	34	42	84	67	1	7	14	15
Inyokern NAS	2440	36	26	106	68	-27	-19	-12	37
Irvine	50	34	40	86	69	8	14	21	27
Iron Mtn	922	34	36	112	75	2	9	15	26
Isla Vista	40	35	40	81	67	5	12	19	20
Jess Valley	5300	41	4	88	58	-47	-39	-31	35
John Wayne AP	115	34	39	88	69	5	11	18	26
Julian Wynola	3650	33	26	91	64	-23	-15	-8	39
Kentfield	120	38	35	88	65	-16	-9	-3	35
Kern River PH 1	970	36	37	103	71	-7	0	6	26
Kern River PH 3	2703	36	28	100	68	-17	-9	-2	34
Kettleman Stn	508	36	34	97	70	-4	3	9	31
King City	320	36	29	89	66	-12	-6	1	36
Klamath	25	42	33	70	60	-10	-3	3	18
Knights Ferry	315	38	28	98	69	-11	-5	2	37
La Canada-Flintridge	1365	34	38	92	68	-6	1	8	30
La Crescenta-Montros	1565	34	37	91	68	-4	3	10	33
Lafayette	535	38	32	91	68	-5	2	8	32
Laguna Beach	35	34	36	80	68	12	19	25	18
Laguna Hills	390	34	41	85	68	5	11	18	22
La Habra	305	34	37	91	69	0	7	13	27
Lake Arrowhead	5205	34	24	85	61	-28	-20	-12	26
Lakeport	1347	39	29	92	65	-21	-14	-7	41
Lakeshore	1075	41	36	99	68	-17	-10	-3	28
Lakeside	690	33	34	90	68	-3	4	10	20
Lake Spaulding	5156	39	16	87	57	-50	-42	-34	34
Lakewood	45	34	40	88	68	-1	6	12	22
La Mesa	530	33	41	88	69	5	12	19	23
La Mirada	115	34	38	89	70	8	15	22	26
Lamont	500	35	35	102	71	-6	0	7	34
Lancaster	2340	35	20	102	68	-20	-13	-6	35
La Palma	75	34	38	89	69	3	10	16	25
La Puente	320	34	38	95	71	5	11	18	28
Larkspur	20	38	35	88	66	-11	-4	2	34
Las Plumas	506	40	32	100	70	-9	-2	5	32
Lava Beds	4770	42	11	88	58	-47	-39	-32	41
La Verne	1235	34	36	95	69	-5	2	9	34
Lawndale	66	34	42	84	68	6	12	19	16
Le Grand	255	37	31	95	68	-12	-5	2	38
Lemoncove	513	36	33	102	70	-12	-5	1	38
Lemon Grove	437	33	41	88	69	5	12	18	19
Lemoore NAS	228	36	28	101	71	-5	1	8	37
Lennox	71	34	44	84	68	6	12	19	16
Lindsay	395	36	32	101	71	-5	2	8	40
Little Panoche	677	37	31	90	68	-3	4	10	33
Livermore	490	38	28	92	69	-1	5	12	35
Llano Shawnee	3820	35	31	99	67	-19	-12	-4	31
Lodgepole	6735	37	7	82	56	-47	-39	-30	26
Lodi	40	38	31	95	69	-7	0	6	38
Loma Linda	1150	34	35	103	69	-18	-11	-4	36
Lomita	56	34	40	85	68	4	11	17	18
Lompoc	95	35	34	76	62	-11	-4	2	18
Long Beach AP	25	34	41	88	68	-1	6	12	21
Long Beach CO	34	34	43	86	67	-3	4	10	18

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
Los Alamitos NAS	30	34	39	87	70	11	18	25	23	
Los Altos	163	37	35	84	64	-14	-8	-1	26	
Los Angeles AP	97	34	42	83	68	7	14	21	14	
Los Angeles CO	270	34	43	90	69	2	8	15	21	
Los Banos	120	37	31	92	69	-2	5	11	42	
Los Banos Res	407	37	31	93	69	-3	4	10	42	
Los Gatos	365	37	34	86	68	3	10	16	32	
Lucerne Valley	2957	35	24	102	66	-30	-23	-16	38	
Lynwood	88	34	39	87	69	6	13	19	21	
Madera	268	37	32	100	70	-9	-2	4	40	
Manhattan Beach	120	34	45	83	68	7	14	21	12	
Manteca	34	38	32	95	69	-7	0	6	37	
Manzanita Lake	5850	41	8	83	57	-44	-36	-28	34	
March AFB	1511	34	33	98	67	-20	-13	-6	34	
Maricopa	675	35	33	102	70	-12	-5	2	29	
Marina	20	37	40	74	63	-3	4	10	18	
Markley Cove	480	39	31	97	69	-9	-3	4	39	
Martinez FS	40	38	35	92	67	-12	-6	1	36	
Marysville	60	39	35	101	70	-11	-4	2	36	
Mather AFB	96	39	35	98	70	-6	0	7	35	
Maywood	170	34	41	89	69	3	10	16	21	
McClellan AFB	86	39	31	100	70	-9	-3	4	35	
McCloud	3300	41	18	91	62	-33	-26	-18	42	
Mecca FS	-180	34	32	111	76	7	14	20	30	
Menlo Park	65	37	34	82	65	-6	0	7	25	
Merced AP	153	37	30	99	69	-13	-6	0	36	
Millbrae	10	38	37	78	63	-9	-3	4	24	
Mill Creek	2940	35	36	98	67	-19	-11	-4	28	
Mill Valley	80	38	35	88	66	-11	-4	2	28	
Milpitas	15	37	35	83	65	-8	-1	5	27	
Mineral	4911	40	14	86	59	-39	-31	-24	38	
Miramar AFS	477	33	38	90	69	2	9	15	22	
Mission Viejo	350	34	40	85	65	-11	-4	3	22	
Mitchell Caverns	4350	35	30	98	63	-39	-31	-23	29	
Modesto	91	38	33	99	70	-8	-1	5	36	
Moffett Field NAS	39	37	36	82	66	-1	5	12	23	
Mojave	2735	35	26	102	68	-20	-13	-5	35	
Mono Lake	6450	38	17	88	57	-52	-44	-35	32	
Monrovia	562	34	41	94	69	-4	2	9	30	
Montague	2648	42	16	94	65	-23	-16	-9	39	
Montclair	1220	34	35	98	68	-15	-8	-2	35	
Montebello	205	34	39	90	69	2	8	15	24	
Monterey AP	245	37	38	74	63	-3	4	10	20	
Monterey CO	345	37	40	75	63	-4	2	9	20	
Monterey Park	380	34	37	91	69	0	7	13	23	
Monticello Dam	505	39	34	98	70	-6	1	8	39	
Moraga	600	38	29	90	66	-14	-7	0	27	
Morgan Hill	350	37	34	89	68	-2	5	11	25	
Morro Bay FD	115	35	38	80	64	-8	-1	5	14	
Mountain Pass	4730	36	23	96	65	-25	-17	-9	29	
Mountain View	95	38	35	81	64	-9	-3	4	25	
Mount Baldy Notch	7735	34	14	75	56	-37	-28	-19	32	
Mount Diablo	2100	38	35	91	67	-8	-1	6	28	
Mount Hamilton	4206	37	27	85	58	-42	-35	-27	18	

## MICRO CLIMATE TABLE 1B

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California	Elevation Feet	Latitude Degrees North	Winter	Summer					
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Mount Hebron RS	4250	42	0	86	59	-39	-32	-24	42
Mount San Jacinto	8417	34	11	77	55	-45	-36	-27	35
Mount Shasta	3535	41	20	88	61	-33	-26	-18	34
Mount Wilson	5709	34	26	83	60	-29	-21	-13	21
Nacimiento Dam	770	36	31	92	66	-17	-10	-3	35
Napa State Hospital	60	37	34	90	68	-4	3	9	29
National City	34	33	42	82	68	9	16	22	10
Needles AP	913	35	35	114	73	-13	-7	0	26
Nevada City	2600	39	25	92	65	-20	-13	-6	41
Newark	10	38	36	86	67	-3	4	10	24
Newhall Soledad	1243	34	36	99	69	-12	-5	2	42
Newman	90	37	31	97	69	-10	-3	3	38
Newport Beach	10	34	41	76	67	13	20	27	12
Norco	700	34	35	98	69	-11	-4	3	34
North Fork RS	2630	37	26	96	64	-32	-24	-17	36
North Highlands	45	39	31	98	69	-12	-5	2	35
North Hollywood	619	34	36	95	69	-6	1	7	31
Norton AFB	1156	34	34	100	68	-19	-12	-5	37
Norwalk	97	34	37	88	69	5	11	18	26
Novato	370	38	32	84	63	-19	-12	-5	30
Oakdale	215	38	32	97	69	-10	-3	4	37
Oakland AP	6	38	37	81	64	-9	-3	4	20
Oakland Museum	30	38	36	86	65	-13	-6	1	20
Oceanside	10	33	39	78	67	10	17	23	10
Oildale	450	36	35	102	70	-12	-5	1	34
Ojai	750	35	32	95	70	0	6	13	38
Ontario AP	934	34	36	99	68	-17	-11	-4	34
Orange	194	34	40	89	69	3	10	16	27
Orange Cove	431	37	33	101	70	-10	-4	3	38
Orangevale	140	39	34	100	70	-9	-3	4	36
Orick Prairie Creek	161	41	33	74	61	-12	-5	1	23
Orinda	550	38	29	90	66	-14	-7	0	32
Orland	254	40	31	101	70	-11	-4	3	36
Orleans	403	41	30	95	68	-12	-5	2	42
Oroville RS	300	40	33	102	71	-7	0	7	37
Otay-Castle Pk	500	33	40	78	65	1	7	14	10
Oxnard AFB	49	34	37	83	69	13	19	26	21
Pacific Grove	114	37	37	75	63	-4	2	9	19
Pacifica	13	38	37	75	62	-9	-3	4	16
Palm Desert	200	34	34	112	74	-6	1	7	34
Palm Springs	411	34	34	113	74	-7	0	6	35
Palmdale AP	2517	35	24	102	66	-31	-24	-16	33
Palmdale CO	2596	35	25	101	66	-29	-22	-15	35
Palo Alto	25	38	34	81	64	-9	-3	4	25
Palomar Obsy	5545	33	23	84	61	-26	-18	-10	22
Palos Verdes	216	34	46	82	68	9	16	22	14
Paradise	1750	40	33	98	68	-15	-8	-1	34
Paramount	70	34	40	88	69	5	11	18	22
Parker Res	738	34	40	112	74	-5	2	9	26
Pasadena	864	34	40	92	69	-1	6	13	30
Paso Robles AP	815	36	26	96	67	-18	-11	-4	40
Paso Robles CO	700	36	23	94	67	-15	-8	-1	44
Pendleton MCB	63	33	41	85	68	4	11	17	22
Pendleton MCB Coast	24	33	46	79	67	9	15	22	10

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Perris	1470	34	30	101	70	-9	-2	5	39	
Petaluma FS 2	16	38	32	89	68	-2	4	11	31	
Pico Rivera	180	34	38	89	69	3	10	16	24	
Piedmont	325	38	36	86	65	-12	-6	1	23	
Pinnacles NM	1307	37	29	93	66	-18	-11	-4	45	
Pinole	10	38	38	86	66	-8	-1	5	25	
Pismo Beach	80	35	37	84	64	-14	-8	-1	16	
Pittsburg	50	38	35	94	69	-5	1	8	34	
Placentia	323	34	37	91	69	0	7	13	28	
Placerville	1890	39	29	97	67	-18	-11	-4	42	
Placerville IFG	2755	39	31	96	66	-21	-14	-7	42	
Platina	2260	40	24	91	63	-29	-22	-15	36	
Pleasant Hill	102	38	33	92	67	-12	-6	1	34	
Pleasanton	350	38	32	93	67	-14	-7	0	35	
Point Arena	100	39	34	71	60	-12	-5	2	19	
Point Arguello	76	35	35	69	61	-4	3	9	17	
Point Mugu	14	34	39	79	68	14	20	27	15	
Point Piedras Blanca	59	36	43	65	59	-6	0	7	10	
Pomona Cal Poly	740	34	35	97	69	-9	-2	4	36	
Port Chicago ND	50	38	36	92	68	-7	-1	6	34	
Port Hueneme	13	34	39	79	68	14	20	27	15	
Porterville	393	36	33	101	71	-5	2	8	36	
Portola	4850	40	1	88	61	-33	-25	-17	48	
Posey 3 E	4960	36	21	86	61	-29	-22	-14	26	
Potter Valley PH	1015	39	29	93	67	-13	-6	1	40	
Poway Valley	500	33	35	93	70	2	9	16	26	
Priest Valley	2300	36	24	92	65	-20	-13	-6	34	
Quincy	3409	40	13	97	64	-33	-25	-18	45	
Ramona Spaulding	1480	33	31	96	70	-1	6	13	40	
Rancho Cordova	190	39	33	98	70	-6	1	7	35	
Rancho Palos Verdes	216	34	46	82	68	9	16	22	14	
Randsburg	3570	35	29	101	67	-23	-15	-8	30	
Red Bluff AP	342	40	31	102	68	-23	-16	-9	31	
Redding FS 4	470	41	34	101	69	-16	-9	-2	30	
Redlands	1318	34	35	102	69	-16	-9	-2	34	
Redondo Beach	45	34	44	82	68	9	16	22	12	
Redwood City	31	38	35	85	66	-6	0	7	28	
Reedley	344	37	34	100	70	-9	-2	4	40	
Rialto	1254	34	35	100	68	-19	-12	-5	35	
Richardson Grove	500	40	33	91	66	-15	-9	-2	28	
Richmond	55	38	38	81	64	-9	-3	4	17	
Ridgecrest	2340	36	26	106	68	-27	-20	-12	35	
Riverside FS 3	840	34	35	99	67	-23	-16	-9	37	
Riverside Exp Sta	986	34	36	101	69	-15	-8	-1	36	
Rocklin	239	39	29	103	71	-8	-2	5	39	
Rohnert Park	106	39	29	96	68	-13	-7	0	33	
Rolling Hills	216	34	46	82	68	9	16	22	15	
Rosemead	275	34	37	88	69	5	11	18	27	
Roseville	160	39	34	100	70	-9	-3	4	36	
Rossmoor	20	34	39	83	64	-13	-6	1	19	
Rowland Hts	540	34	36	90	70	7	14	21	27	
Rubidoux	792	34	35	101	70	-10	-3	4	36	
Sacramento AP	17	39	33	98	70	-6	0	7	35	
Sacramento CO	84	39	37	98	70	-6	0	7	32	

California	Elevation Feet	Latitude Degrees North	Winter	Summer						Daily Range (DR)
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH		
St. Helena	225	39	31	97	69	-10	-3	4	40	
St. Mary's College	623	38	30	90	68	-3	3	10	28	
Salinas 3 E	85	37	34	83	64	-13	-6	1	20	
Salinas AP	69	37	35	82	64	-11	-4	2	20	
Salt Springs PH	3700	39	28	91	61	-38	-30	-23	27	
Salyer RS	623	41	31	91	66	-15	-8	-2	33	
San Anselmo	50	38	33	86	67	-3	4	11	32	
San Antonio Canyon	2394	34	39	94	67	-13	-6	1	33	
San Antonio Mission	1060	36	28	92	69	-1	6	13	28	
San Bernardino	1125	34	33	102	70	-11	-4	3	39	
San Bruno	20	38	38	77	64	-3	4	10	23	
San Carlos	26	38	35	86	65	-13	-6	1	28	
San Clemente	208	33	37	84	68	6	13	19	12	
San Diego AP	13	33	44	82	70	20	26	33	13	
San Dimas	955	34	37	96	69	-7	0	6	35	
San Fernando	977	34	37	98	70	-5	2	9	37	
San Francisco AP	8	38	38	78	63	-9	-3	4	20	
San Francisco CO	52	38	44	75	62	-9	-3	4	14	
San Gabriel FD	450	34	37	92	70	4	11	17	30	
San Gregorio 2 SE	275	37	35	78	63	-9	-3	4	30	
San Jacinto	1535	34	29	106	70	-17	-10	-3	41	
San Jose	67	37	36	82	66	-1	5	12	26	
San Leandro	45	38	35	80	64	-8	-1	5	22	
San Lorenzo	45	38	36	80	64	-8	-1	5	23	
San Luis Dam	277	37	33	90	66	-14	-7	-1	32	
San Luis Obispo	320	35	35	85	64	-16	-9	-2	26	
San Marino	300	34	37	92	68	-7	0	6	28	
San Mateo	21	38	38	80	65	-3	4	10	24	
San Nicholas Island	504	33	45	74	66	12	19	25	11	
San Pablo	30	38	37	81	63	-14	-8	-1	17	
San Pedro	10	34	42	82	68	9	15	22	13	
San Rafael	40	38	37	87	65	-14	-8	-1	29	
Sandberg	4517	35	24	91	61	-38	-30	-22	32	
Sanger	364	37	34	100	70	-9	-2	4	37	
Santa Ana FS	115	34	38	88	69	5	11	18	26	
Santa Barbara AP	9	34	36	81	67	5	12	18	20	
Santa Barbara CO	5	34	40	82	67	4	10	17	22	
Santa Clara Univ	88	37	36	86	65	-13	-6	1	30	
Santa Cruz	125	37	35	85	66	-6	1	7	28	
Santa Fe Springs	280	34	38	88	69	5	11	18	24	
Santa Maria AP	236	35	33	82	63	-16	-9	-2	23	
Santa Monica	15	34	46	76	66	8	15	22	15	
Santa Paula	263	34	35	91	70	5	12	19	28	
Santa Rosa	167	39	29	96	68	-13	-7	0	35	
Santee	400	33	33	91	69	0	7	13	20	
Saratoga	500	37	35	84	67	1	8	14	31	
Sausalito	10	38	36	77	65	2	8	15	12	
Sawyer's Bar RS	2169	41	25	92	64	-26	-18	-11	38	
Scotia	139	41	35	73	60	-15	-8	-2	19	
Seal Beach	21	34	42	84	67	1	7	14	15	
Seaside	17	37	37	77	64	-3	4	10	20	
Selma	305	37	34	101	70	-11	-4	3	38	
Shafter	345	36	32	102	70	-12	-6	1	28	
Shasta Dam	1076	41	36	99	69	-12	-5	2	27	

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Shelter Cove	110	40	41	72	59	-18	-11	-4	15	
Sierra City	4230	40	24	93	61	-41	-33	-25	43	
Sierra Madre	1153	34	39	94	69	-4	3	10	27	
Sierraville RS	4975	40	0	90	59	-46	-38	-30	44	
Signal Hill	100	34	42	88	68	-1	6	13	19	
Simi Valley	500	34	35	91	68	-5	2	8	30	
Sonoma	70	38	31	94	69	-5	1	8	40	
Sonora RS	1749	38	29	99	68	-16	-9	-2	34	
South Entr Yosemite	5120	38	20	88	61	-33	-25	-17	36	
South El Monte	270	34	38	95	70	-1	6	12	28	
South Gate	120	34	39	88	69	5	11	18	21	
South Lake Tahoe	6200	39	10	75	56	-36	-28	-19	33	
South Pasadena	657	34	38	92	69	-1	6	12	30	
South San Francisco	10	38	38	76	64	-1	5	12	20	
South Whittier	300	34	38	88	70	10	17	24	30	
Spring Valley	300	33	41	86	68	3	9	16	30	
Squaw Valley	6235	40	0	84	56	-50	-42	-34	40	
Squirrel Inn	5680	34	22	81	60	-26	-18	-10	23	
Stanton	45	34	38	88	69	5	11	18	24	
Stockton AP	22	38	30	97	69	-10	-3	3	35	
Stockton FS 4	12	38	30	95	69	-7	0	6	37	
Stony Gorge Res	791	40	30	97	69	-9	-2	5	37	
Strawberry Valley	3808	40	25	92	62	-35	-27	-19	32	
Sunland	1460	34	36	100	70	-7	0	7	36	
Sunnyvale	97	37	36	84	66	-4	2	9	26	
Susanville AP	4148	40	11	94	61	-42	-35	-27	38	
Tahoe City	6230	39	14	80	55	-49	-40	-32	36	
Tahoe Valley AP	6254	39	6	81	55	-50	-42	-34	38	
Tehachapi	3975	35	24	93	66	-15	-7	0	33	
Tejon Rancho	1425	35	32	103	70	-12	-5	2	27	
Temple City	403	34	37	93	70	2	9	16	27	
Termo	5300	41	-4	91	59	-47	-39	-31	37	
Thermal AP	-112	34	35	110	76	9	15	22	29	
Thousand Oaks	810	34	35	92	69	-1	6	13	30	
Three Rivers PH 1	1140	37	32	102	69	-16	-10	-3	38	
Tiburon	90	38	36	77	65	2	9	15	12	
Tiger Creek PH	2355	39	29	96	65	-27	-20	-12	36	
Torrance	110	34	39	84	68	6	12	19	18	
Tracy Carbona	140	38	32	94	69	-5	2	8	38	
Tracy Pumps	61	38	31	96	70	-3	4	10	39	
Travis AFB	72	38	32	95	68	-12	-5	1	35	
Trinity Dam	2500	41	28	92	64	-25	-18	-11	37	
Trona	1695	36	27	109	70	-21	-14	-7	35	
Truckee RS	5995	39	0	86	57	-49	-41	-32	40	
Tujunga	1820	34	29	98	69	-9	-2	5	36	
Tulare	290	36	34	100	71	-4	3	10	39	
Tulelake	4035	42	6	87	59	-41	-33	-26	41	
Turlock	100	38	34	99	70	-8	-1	5	40	
Turntable Creek	1067	41	32	99	68	-17	-10	-3	28	
Tustin Irvine Rch	118	34	34	89	70	8	15	22	27	
29 Palms	1975	34	29	107	71	-12	-5	2	31	
Twin Lakes	7829	39	4	61	48	-50	-41	-32	30	
Twitchell Dam	582	35	34	92	68	-7	0	7	26	
UCLA	430	34	46	84	68	6	13	20	20	

California	Elevation Feet	Latitude Degrees North	Winter	Summer						
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)	
Ukiah	623	39	31	96	70	-2	5	11	42	
Union City	5	38	33	85	65	-11	-4	2	20	
Upland	1605	34	36	96	68	-12	-5	2	31	
Upper Lake RS	1347	39	27	95	66	-21	-14	-7	39	
Upper San Leandro	394	38	35	84	65	-9	-2	4	22	
Vacaville	105	38	31	98	70	-6	0	7	40	
Valinda	340	34	38	96	70	-3	4	11	28	
Vallejo	85	38	36	88	66	-11	-4	2	23	
Valyermo RS	3600	35	24	95	67	-13	-6	2	41	
Vandenburg AFB	368	35	37	75	62	-9	-2	4	16	
Ventura	341	34	36	80	68	13	19	26	15	
Victorville Pumps	2858	35	27	101	64	-39	-32	-25	39	
View Park	300	34	43	82	68	9	16	23	18	
Visalia	325	36	33	100	71	-4	3	10	38	
Vista	510	33	37	89	69	4	10	17	16	
Volta PH	2220	41	30	97	65	-28	-21	-14	33	
Walnut	550	34	35	96	71	3	10	17	30	
Walnut Creek	245	38	31	91	68	-5	1	8	32	
Walnut Grove	23	38	32	96	70	-3	4	10	37	
Warner Springs	3180	33	26	95	67	-14	-6	1	40	
Wasco	333	36	31	101	70	-11	-4	3	36	
Watsonville	95	37	35	83	63	-17	-11	-4	22	
Weaverville RS	2050	41	22	93	65	-22	-15	-8	46	
Weed FD	3590	41	17	88	61	-33	-26	-18	35	
West Carson	100	34	39	85	68	4	11	17	18	
West Covina	365	34	36	96	70	-3	4	11	34	
West Hollywood	290	34	45	86	69	8	15	21	20	
West Puente Valley	250	34	38	95	70	-1	6	12	26	
Westminster	38	34	41	85	69	9	16	23	23	
Whiskeytown Res	1295	41	33	100	69	-13	-6	1	31	
White Mtn 1	10150	38	-6	69	47	-70	-60	-50	37	
White Mtn 2	12470	38	-12	58	42	-77	-67	-56	38	
Whittier	320	34	38	88	69	5	12	18	24	
Wildrose RS	4100	36	24	97	63	-37	-30	-22	33	
Willaims	85	39	32	98	70	-6	0	7	36	
Willits	1350	39	27	86	64	-17	-10	-3	38	
Willow Brook	60	34	42	87	69	6	13	19	21	
Willow Creek	461	41	31	96	68	-13	-6	0	35	
Willows	140	40	31	98	70	-6	1	7	36	
Winters	135	39	32	97	70	-4	2	9	38	
Woodfords	5671	39	12	88	58	-47	-39	-31	32	
Woodland	69	39	33	100	71	-4	3	9	40	
Woodside	75	38	31	80	65	-3	4	10	24	
Yorba Linda	350	34	37	92	70	4	11	17	31	
Yosemite Park Hq	3970	38	23	94	62	-38	-30	-22	38	
Yreka	2625	42	20	94	66	-18	-11	-4	39	
Yuba City	70	39	32	100	70	-9	-3	4	36	
Yucaipa	2600	34	35	102	67	-25	-18	-11	35	

Hawaii	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
<b>Kauai</b>										
Barking Sands	14	22	61	88	76	45	51	58	17	
Eleele (Hanapepe)	86	22	60	85	74	38	44	51	16	
Hanalei	20	22	62	87	75	40	47	54	13	
Kanalohuluhulu	3600	22	45	77	66	10	18	25	18	
Kapaa (Kealia)	20	22	59	83	74	41	47	54	14	
Kilauea	250	22	60	85	74	38	45	51	14	
Kilauea Point	180	22	64	89	76	44	50	57	12	
Kokee AFS	4185	22	49	78	66	9	17	25	13	
Koloa (Makahuena)	52	22	63	87	75	40	47	54	14	
Lihue AP	103	22	60	84	74	39	46	53	12	
Niu Ridge	1250	22	59	84	72	30	37	43	19	
Puhi	334	22	57	83	73	36	42	49	13	
Waiahi, Lower	565	22	55	84	73	34	41	48	15	
Waimea (Kamuela AP)	10	22	62	85	75	44	50	57	16	
<b>Oahu</b>										
Aiea	120	21	62	86	75	42	49	55	12	
Barbers Point NAS	34	21	62	86	75	42	49	55	13	
Bellows AFB	15	21	60	84	74	39	46	52	10	
Ewa Beach	5	21	62	86	75	42	49	55	11	
Ford Island	15	21	63	86	75	42	49	55	11	
Ft DeRussy	5	21	63	86	75	42	49	55	11	
Ft Ruger	300	21	62	85	74	38	45	51	11	
Ft Shafter	80	21	63	85	75	44	50	57	11	
Halawa Heights	170	21	62	85	75	44	51	57	13	
Helemano	1100	22	54	82	72	33	40	46	16	
Hickman AFB	13	21	63	86	75	42	49	55	12	
Honolulu AP	7	21	63	86	75	42	49	55	12	
Honolulu Substn	12	21	66	81	73	38	45	51	10	
Kaala AFS	4000	22	48	78	66	9	17	24	16	
Kaena Point	1120	22	56	82	73	39	46	52	10	
Kahuku	20	22	64	83	74	41	47	54	13	
Kaneohe Bay MCAS	18	21	66	84	74	39	46	52	8	
Kaneohe Mauka	225	21	64	83	73	35	42	49	12	
Kunia Com Annex	800	22	59	85	74	39	46	53	16	
Laie BYU	20	22	64	83	74	41	47	54	10	
Lualualei	113	21	61	86	75	42	49	55	14	
Makapuu Point	538	21	65	83	73	36	43	49	8	
Maunalani Hts	400	21	62	82	73	37	44	51	12	
Nanakuli	5	21	61	86	75	42	49	55	12	
Opaeula	1060	22	57	83	72	31	38	45	16	
Pacific Palisades	300	21	62	85	74	38	45	51	14	
Palehua AF Solar	1700	21	56	83	71	26	33	40	15	
Pearl City	120	21	63	86	75	42	49	55	12	
Pearl Harbor	15	21	63	86	75	42	49	55	11	
Punamano AFS	100	22	59	84	74	39	46	53	10	
Schofield Barracks	850	22	59	85	74	39	46	53	16	
Tantalus	1325	21	58	78	70	28	35	42	16	
Tripler Army Hosp	220	21	63	86	75	42	49	56	11	
Wahiawa	854	22	60	86	74	38	44	51	16	
Waialeae	33	22	67	84	74	39	46	52	12	
Waialua	32	22	60	85	75	44	50	57	18	
Waikiki	10	21	60	87	75	40	47	53	10	

<b>Hawaii</b>	<b>Elevation Feet</b>	<b>Latitude Degrees North</b>	<b>Winter</b>	<b>Summer</b>					
			<b>Heating 99% Dry Bulb</b>	<b>Cooling 1% Dry Bulb</b>	<b>Coinci- dent Wet Bulb</b>	<b>Design Grains 45% RH</b>	<b>Design Grains 50% RH</b>	<b>Design Grains 55% RH</b>	<b>Daily Range (DR)</b>
Waimanalo	60	21	61	84	74	39	46	52	10
Waipahu	59	21	63	86	75	42	49	55	12
Wheeler AFB	840	22	60	86	74	38	44	51	16
<b>Molokai-Lanai</b>									
Molokai AP	450	21	63	86	74	37	44	50	17
Lani City	1620	21	58	81	71	29	36	43	14
<b>Maui</b>									
Haleakala RS	7030	21	39	70	56	-28	-20	-11	19
Haleakala Summit	9960	21	32	63	45	-68	-59	-49	24
Hana AP	61	21	60	84	74	39	46	52	16
Kaanapali	8	21	62	86	75	42	49	55	21
Kahului AP	48	21	59	88	76	45	52	58	14
Kailua	700	21	60	82	73	38	45	51	12
Kula Sanitorium	3004	21	53	78	67	14	21	28	19
Lahaina	45	21	63	88	76	45	52	58	19
Optical Site	10018	21	32	63	45	-68	-59	-49	24
Wailea	15	21	59	90	77	48	55	61	10
Wailuku	180	21	64	86	75	42	49	56	15
<b>Hawaii</b>									
Haina	460	20	64	86	74	37	44	50	14
Hawaii Volcanos NP	3971	19	50	76	65	7	15	22	16
Hilo AP	27	20	62	84	74	39	46	52	14
Honomu Mauka	1100	20	61	80	71	30	37	44	14
Kainaliu	1500	20	59	82	71	28	35	41	18
Keaau	285	20	62	85	74	38	45	51	10
Kealakekua	1450	20	60	81	71	29	36	43	10
Kohala Mission	537	20	64	84	73	34	41	48	13
Kona AP (Kailua)	30	20	65	86	75	42	49	55	15
Kukuihaele	300	20	65	83	73	35	42	49	15
Kulani Camp	5170	20	42	72	61	-7	1	9	20
Mauna Loa Obsy	11146	20	32	61	41	-83	-73	-63	21
Mountain View	1530	20	57	81	71	29	36	43	17
Naalehu	673	19	64	85	74	39	46	52	12
Napoopoo	395	20	62	85	74	38	45	52	10
Niulii	75	20	65	83	74	41	48	54	13
Olaa	340	20	62	85	74	38	45	52	18
Ookala	430	20	62	84	74	40	47	53	14
Opihihale	1270	19	59	83	72	31	38	45	13
Pahala	870	19	62	86	74	38	45	51	19
Pepeekeo	400	20	64	83	73	36	42	49	14
South Point AFS	310	19	57	85	74	38	45	51	14
Upolu Point	61	20	64	86	75	42	49	55	11
Waimea (Kamuela AP)	2670	20	49	79	68	17	24	32	18

Nevada	Elevation Feet	Latitude Degrees North	Winter	Summer						
				Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH	Daily Range (DR)
Adaven	6250	38	9	91	57	-57	-48	-40	34	
Alamo	3440	37	16	101	63	-44	-36	-29	43	
Arthur	6300	41	-1	87	56	-55	-47	-38	39	
Austin	6605	40	4	91	55	-66	-58	-49	32	
Bald Mtn	7200	38	-7	83	52	-67	-59	-50	36	
Battle Mtn AP	4530	41	2	96	61	-46	-38	-30	43	
Beatty	3550	37	21	101	63	-44	-36	-29	37	
Beowawe	4695	41	-1	96	61	-45	-38	-30	42	
Blue Jay	5320	38	-5	94	59	-52	-44	-36	36	
Boulder City	2525	36	34	104	66	-34	-27	-20	24	
Brinkerhoff Rch	3660	40	11	101	64	-39	-31	-24	39	
Buffalo Rch	5430	40	14	93	57	-60	-52	-44	40	
Caliente	4402	38	9	99	61	-50	-43	-35	40	
Carlin Gold Mine	6520	41	10	88	55	-61	-53	-45	38	
Carson City	4651	39	5	92	59	-49	-41	-33	38	
Central NV Field Lab	5950	39	-9	91	57	-57	-48	-40	36	
Cherry Creek	8250	40	-11	77	49	-72	-63	-54	40	
Clover Valley	5750	41	-2	90	57	-55	-47	-39	35	
Contact	5365	42	-4	91	58	-52	-44	-36	42	
Cortez Gold Mine	4900	40	3	97	61	-47	-39	-31	35	
Currant Hwy Stn	6240	39	-7	88	56	-57	-48	-40	38	
Currie Hwy Stn	5820	40	-10	92	57	-58	-50	-42	36	
Deeth	5338	41	-14	91	57	-57	-49	-41	47	
Denio	4185	42	8	97	62	-42	-35	-27	43	
Desert WLR	2920	36	24	104	65	-39	-32	-24	34	
Desert Rock Camp	3315	37	17	102	64	-41	-33	-26	38	
Diablo	5100	38	2	100	61	-52	-44	-36	36	
Duckwater	5400	39	4	94	58	-57	-49	-41	38	
Duferrera	4800	42	1	92	59	-49	-41	-33	40	
Dyer	4975	38	2	96	59	-55	-47	-39	41	
Elgin	3300	37	22	103	65	-37	-30	-22	40	
Elko AP	5050	41	-3	92	58	-54	-46	-38	44	
Ely AP	6253	39	-5	90	57	-55	-47	-39	40	
Emigrant Pass	5755	41	7	92	57	-58	-50	-42	42	
Empire (Gerlach)	3940	41	14	97	60	-52	-44	-37	46	
Eureka	6540	40	1	90	56	-60	-52	-43	33	
Fallon NAS	3934	39	12	96	62	-41	-33	-26	36	
Fallon Exp Sta	3965	39	10	94	62	-38	-30	-22	38	
Fernley	4160	40	11	97	61	-47	-40	-32	40	
Geyser Ranch	6020	39	-5	92	57	-58	-50	-42	38	
Gibbs Ranch	6000	42	-8	88	55	-61	-53	-45	42	
Glenbrook	6400	39	18	84	54	-60	-51	-43	34	
Golconda	4392	41	5	96	61	-46	-38	-30	38	
Goldfield	5690	38	8	92	58	-54	-45	-37	33	
Goshute	7053	40	-7	83	52	-67	-59	-50	36	
Hawthorne AP	4165	39	11	98	62	-44	-36	-28	36	
Henderson	2300	36	32	106	65	-43	-35	-28	30	
Imlay	4260	41	8	97	61	-47	-39	-32	38	
Indian Spr AFB	3136	37	17	101	64	-39	-32	-24	41	
Jiggs	5760	40	-10	92	57	-58	-50	-42	41	
Jungo-Meyer Rch	4200	41	5	97	62	-42	-35	-27	37	
Kings River Valley	4235	42	1	95	59	-54	-46	-38	41	
Knoll Creek	6000	42	-4	90	55	-64	-56	-48	41	

Nevada	Elevation Feet	Latitude Degrees North	Winter	Summer						Daily Range (DR)
			Heating 99% Dry Bulb	Cooling 1% Dry Bulb	Coinci- dent Wet Bulb	Design Grains 45% RH	Design Grains 50% RH	Design Grains 55% RH		
Lahontan Dam	4150	39	17	95	58	-58	-51	-43	31	
Lake Valley	6350	38	6	91	57	-57	-48	-40	38	
Lamoille	5800	41	3	86	56	-53	-45	-37	34	
Las Vegas AP	2162	36	27	107	67	-34	-27	-20	29	
Lathrop Wells	2176	36	20	105	66	-36	-29	-22	38	
Lehman Caves NM	6825	39	8	88	55	-62	-53	-44	30	
Leonard Creek Rch	4225	42	14	96	61	-46	-38	-30	38	
Logandale Exp Farm	1320	37	26	108	69	-26	-19	-12	37	
Lovelock AP	3900	40	7	99	62	-46	-38	-30	40	
Lovelock CO	3975	40	12	97	62	-42	-35	-27	40	
Lund	5565	39	4	91	58	-52	-44	-36	36	
McGill	6340	39	7	89	56	-58	-50	-42	31	
Metropolis	5800	41	3	93	57	-60	-52	-43	42	
Mina	4552	38	12	99	61	-50	-42	-35	35	
Minden	4720	39	4	92	59	-49	-41	-33	42	
Montello	4880	41	-6	97	61	-47	-39	-31	44	
Montgomery	7100	38	-2	83	52	-67	-59	-50	38	
Mtn City RS	5620	42	-16	88	56	-57	-48	-40	40	
Nellis AFB	1868	36	27	108	69	-25	-18	-11	31	
Nixon	3898	40	13	96	61	-46	-38	-31	38	
Orovada	4310	42	7	97	60	-52	-44	-37	40	
Overton	1220	37	26	110	71	-18	-11	-4	39	
Owyhee	5396	42	-1	89	56	-58	-50	-42	36	
Pahranagat WLR	3400	37	18	99	63	-41	-33	-26	44	
Pahrump Univ NV Lab	2700	36	19	104	65	-39	-32	-25	34	
Pahute Meadows	4375	41	10	95	60	-49	-41	-33	44	
Paradise	2200	36	27	107	68	-29	-21	-14	29	
Paradise Valley	4675	42	3	94	60	-47	-39	-32	40	
Paris Ranch	4136	40	10	99	62	-45	-38	-30	38	
Pequop	6030	41	-1	90	55	-64	-56	-48	42	
Pioche	6165	38	11	91	57	-57	-48	-40	34	
Rand Ranch	5047	40	-10	91	58	-52	-44	-36	42	
Reno AP	4404	40	8	93	60	-46	-38	-30	43	
Ruby Lake	6012	40	-6	91	56	-61	-53	-45	36	
Ruth	6832	39	-9	87	55	-60	-51	-43	40	
Rye Patch Dam	4135	40	6	97	60	-52	-44	-37	40	
Searchlight	3540	35	28	101	64	-39	-31	-24	27	
Sheldon	6500	42	4	82	54	-56	-48	-40	35	
Silverpeak	4263	38	12	99	61	-50	-43	-35	36	
Smokey Valley	5625	39	0	94	58	-57	-49	-40	37	
Snowball Ranch	7160	39	-2	86	54	-63	-54	-46	40	
Sparks	4400	40	8	93	60	-46	-38	-30	36	
Stead AFB	5023	40	7	89	58	-49	-41	-33	37	
Sunnyside	5300	38	3	93	58	-55	-47	-39	36	
Sunrise Manor	1820	36	19	111	70	-24	-17	-10	29	
Tonopah AFS	7100	38	5	87	54	-65	-56	-47	34	
Tonopah AP	5426	38	8	92	59	-49	-41	-33	34	
Topaz Lake	5020	39	5	93	58	-55	-47	-39	38	
Tuscarora	6170	41	-1	87	55	-60	-51	-43	40	
Virginia City	6340	39	18	86	55	-58	-50	-41	25	
Vya	5660	42	-2	89	56	-58	-50	-42	40	
Wells	5650	41	-10	91	56	-61	-53	-45	42	
Winchester	2160	36	27	107	68	-29	-21	-14	29	
Winnemucca AFS	6750	41	-9	86	54	-63	-54	-46	40	

Nevada	Elevation Feet	Latitude Degrees North	Winter	Summer						
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Winnemucca AP	4301	41	3	96	61	-46	-38	-30	36	
Worthington Mtn	6093	38	-3	89	56	-58	-50	-42	38	
Yerington	4375	39	7	93	60	-46	-38	-30	42	
Yucca Flat	3931	37	11	99	62	-46	-38	-30	40	